Service Manual

020-000793-01

D Series

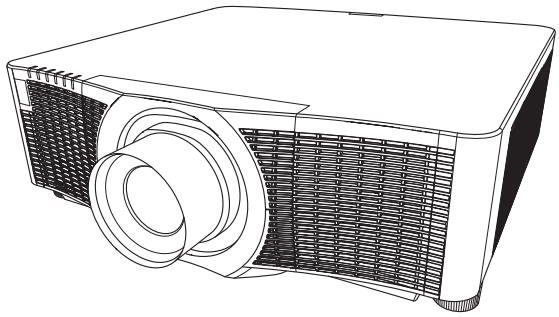
LWU701i/LW751i/LX801i
LWU601i/LW651i

CHRISTIE®

CHRISTIE®

SERVICE MANUAL

LWU701i
LW751i
LX801i
LWU601i
LW651i



⚠ Warning

The technical information and parts shown in this manual are not to be used for: the development, design, production, storage or use of nuclear, chemical, biological or missile weapons or other weapons of mass destruction; or military purposes; or purposes that endanger global safety and peace. Moreover, do not sell, give, or export these items, or grant permission for use to parties with such objectives. Forward all inquiries to the SUPPLIER.

Caution

Be sure to read this manual before servicing. To assure safety from fire, electric shock, injury, harmful radiation and materials, various measures are provided in this Multimedia LCD Projector.
Be sure to read cautionary items described in the manual to maintain safety before servicing.

Service Warning

1. When replace the lamp, avoid burns on your fingers. The lamp becomes too hot.
2. Never touch the lamp bulb with a finger or anything else. Never drop it or give it a shock. They may cause bursting of the bulb.
3. This projector is provided with a high voltage circuit for the lamp. Do not touch the electric parts of power unit (circuit) and power unit (ballast), after turning on the projector.
4. Do not touch the exhaust fan, during operation.
5. If replacing to the LCD PRISM assembly, do not hold the FPC of the LCD module assembly.
6. Use the cables which are included with the projector or specified.

Contents

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT.

Multimedia LCD Projector

LWU701i/LW751i/LX801i/LWU601i/LW651i
Service Manual

October 2015

020-000793-01
LIT MAN SERV D2

CAUTION FOR SAFETY

Please read this page before the repair work. This page explains the indications of the following items to keep safety and prevent an accident.

● **Entries with graphical symbol explanation**

⚠ WARNING	This entry warns of a risk of personal serious injury or even death.
⚠ CAUTION	This entry warns of a risk of personal injury, physical or property damage.

● **Typical graphical symbols explanation**

This symbol indicates warnings and cautions.	This symbol indicates hazard of high voltage.	This symbol indicates mandatory actions.
This symbol indicates hazard of explosion.	This symbol indicates hazard of hand crush.	This symbol indicates coercing to unplug.
This symbol indicates hazard of high temperature.		This symbol indicates prohibited actions.

⚠ WARNING

Follow the instructions.
The warning labels or markings are on the parts which need special attention. Follow those notes and the User's Manual - Safety Guide.

Avoid electric shock.
Be careful and unplug the power cord as far as possible during the work. Be sure to unplug when disassembling or assembling.
The projector has high voltage portion and possibly charged portion. If you touch such a place or other live part, it cause electric shock and may lead to death.

Use specified or recommended components.
Use the components which have same characteristic especially about incombustibility and voltage proof as previous for keeping safety and reliability. Be particularly sure to use the components marked with ⚠ in the replacement parts list and circuit diagram. Using un-specified or non-recommended components may cause electric shock or fire.

Keep same style of wiring and components.
This product uses insulating tapes or tubes, and has some components assembled keeping distance from particular portion to keep safety and reliability. Also the cables are wired so that they keep away from high temperature or voltage part.
Be sure to restore them to prevent an electric shock and a fire after you have changed them.

Do safety inspection after repair work.
Check if the all is restored (removed parts and wiring are same condition as previous) after repair work. Also check if any damage are around the repaired or replaced part. Measure the insulation resistance with megohmmeter after visual inspection. If the resistance is less than 4M ohm, it may cause electric shock and fire.

⚠ CAUTION

Take care of LCD panels.
Hold by the frame when disassembling the component including LCD panel. If you hold it by the FPC cable or the surface of the panel, it may get damaged.

Do not touch the fan motor while it is rotating.
Do not touch the fan motors when you have turned on the projector with the UPPER CASE removed. It may injure you.

1. Features

> Advanced Network Functions
Not only can you control and monitor the projectors via LAN connection, but also project still or moving images from one or more networked computers.

> Wireless Network Capability
You can use the wireless network by connecting the projector to a PC using the optional USB wireless adapter.

> Instant Stack
Two projectors of same model can project an image on the same screen using the Instant Stack feature. They can be operated simultaneously to make the image brighter, moreover, can work alternately by themselves, and once one projector has an accident the other voluntarily starts to work to keep your presentation going.

> LENS MEMORY
The projector is capable of storing the lens shift position.

> Status monitor
The projector displays the present status or the error log with the sub LCD monitor.

> Flexible installation
It is possible to install the projector for any vertical direction(*) with specified mounting accessories.
*: The side planes of the projector should be kept vertical.

> Picture by Picture, Picture in Picture
You can project two images from different input ports on one screen at the same time. With the remote control, it is easy to turn on/off this function and select the input source for the main and sub areas.

> eClarity
eClarity is a function to improve the legibility so that it helps to read small letters.

> HDCR
Advanced feature which is the image stabilizer for a clearer image.

> HDBaseT™ covered
Gives one more digital interface to get clearer pictures on a screen.

2. Specifications

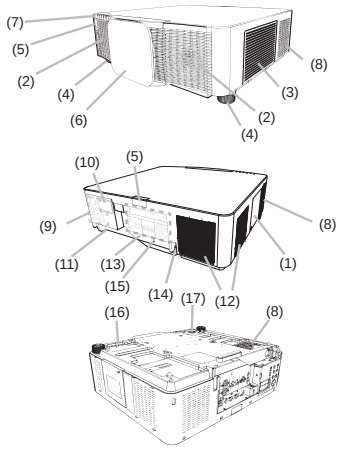
Liquid crystal panel	Drive system		TFT active matrix
	Panel size		LX801i: 2.0cm (0.79" type) LW651i/LW751i: 1.9cm (0.75" type) LWU601i/LWU701i: 1.9cm (0.76" type)
	Number of pixels		LX801i: 1024(H) x 768(V) LW651i/LW751i: 1280(H) x 800(V) LWU601i/LWU701i: 1920(H) x 1200(V)
Lamp			LWU601i/LW651i: 370W UHP LWU701i/LW751i/LX801i: 430W UHP
Digital audio/video signal	HDMI	1	Type: T.M.D.S Signal level: DC 3.3V±5%, AC 0.15-1.56Vp-p Audio signal: Linear PCM format, Sampling frequency 48kHz, 44.1kHz, 32kHz
		2	
	DisplayPort		Data Rate: 2.7Gbps or 1.62Gbps per lane Lane Count: 4-, 2-, or 1-lane Audio Signal: Linear PCM format, Sampling frequency 48kHz, 44.1kHz, 32kHz
	SDI		SD-SDI, Single link HD-SDI, 3G-SDI Level-A
Computer signal	COMPUTER IN	(Dsub)	Video: Analog 0.7Vp-p (75Ω termination) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level
	MONITOR OUT		Video:Analog 0.7Vp-p, 75Ω output impedance (positive) H/V. sync.: TTL level (positive/negative) Composite sync.: TTL level
Video signal	VIDEO		1.0Vp-p (75Ω termination)
HDBaseT* (RJ45)			Signal type: PAM16 Differential signal level: 1.9~2.1V
Audio signal	AUDIO IN	1	700mVrms, input impedance 47kΩ or more (max. 2Vrms)
		2 (L/R)	
	AUDIO OUT (L/R)		700mVrms, output impedance 1kΩ (max. 2Vrms)
RS-232C			Input: Hi: Max. 20V, Min. 2.6V Lo: Typ. –20.0V, Max. 0.8V Output: Hi: Typ. 8.0V, Min. 5.0V Lo: Typ. –7.0V, Max. –5.0V
USB	TYPE A (wireless LAN ***)	I/O Level Amplitude of differential signal	(D+)-(D-)>0.2V and D+>2.0V or (D-)-(D+)>0.2V and D->2.0V
		I/O Level Amplitude of signal	INPUT: “L” 0.8V or less, “H” 2.0V or more OUTPUT: “L” 0.3V or less, “H” 2.8V~3.6V
	USB Mini B ** (Service port)	I/O Level Amplitude of differential signal	(D+)-(D-)>0.2V and D+>2.0V or (D-)-(D+)>0.2V and D->2.0V
		I/O Level Amplitude of signal	INPUT: “L” 0.8V or less, “H” 2.0V or more OUTPUT: “L” 0.3V or less, “H” 2.8V~3.6V
Wired LAN	HDBaseT* (RJ45)		System: 100Base-T Differential signal level: 1.9~2.1V (100Ω termination)
	LAN* (RJ45)		System: 100Base-TX / 10Base-T Differential signal level: 1.9~2.1V (100Ω termination)
Wireless LAN ***	IEEE802.11b/g/n		See the user's manual of the optional USB wireless adapter.
Speaker			8W×2(mono)
Power supply			LWU601i/LW651i : AC100V-120V/5.2A, AC220V-240V/2.5A LWU701i/LW751i/LX801i : AC100V-120V/5.9A, AC220V-240V/2.9A
Power consumption			LWU601i/LW651i : AC100V-120V/510W, AC220V-240V/500W LWU701i/LW751i/LX801i : AC100V-120V/580W, AC220V-240V/560W
Dimensions			498 (W) x 170 (H) x 456 (D) mm (Not including protruding parts)
Weight			approx. 11.1 kg
Temperature range			Standard mode: 32-104°F (0-40°C), Eco mode: 32-113°F (0-45°C), Storage : -20~60°C
Accessories			Remote control x1, User’s manual x 1, Application CD x 1 Security label x 1, Power cord x 1 or 3, Computer cable x 1 Adapter cover x 1, HDMI-DVI cable x 1, Terminal cover x 1 Cable tie x 2, HDMI cable holder x 2

* DC power cannot be provided from these ports.
** The service mini USB port is hidden behind the rear panel (mini USB COVER).
*** Wireless network function requires the optional USB wireless adapter. The communication speed (and standard) is restricted depending on circumstances like encryption, communication mode and so on.

3. Names of each part

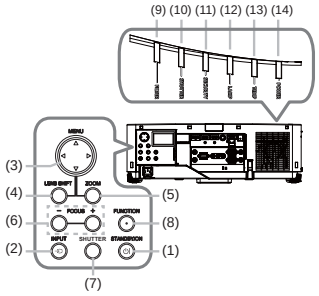
Projector

(1) Lamp cover
The lamp unit is inside.
(2) Speakers (x2)
(3) Filter cover
The air filter and intake vent are inside.
(4) Elevator feet (x2)
(5) Remote sensors (x2)
(6) Lens hole cover
(7) Indicators
(8) Intake vents
(9) Control panel
(10) Status Monitor
(11) **AC** (AC inlet)
(12) Exhaust vents
(13) Ports
(14) Security bar
(15) Security slot
(16) Safety bar
(17) Battery cover



Control panel and Indicators

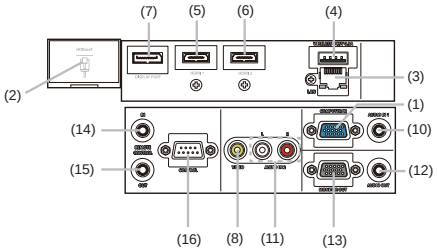
(1) **STANDBY/ON** button
(2) **INPUT** button
(3) **MENU** button
(4) **LENS SHIFT** button
(5) **ZOOM** button
(6) **FOCUS - / +** buttons
(7) **SHUTTER** button
(8) **FUNCTION** button
(9) **FILTER** indicator
(10) **SHUTTER** indicator
(11) **SECURITY** indicator
(12) **LAMP** indicator
(13) **TEMP** indicator
(14) **POWER** indicator



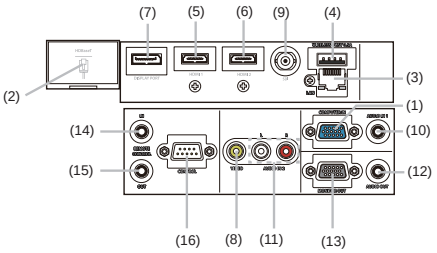
Ports

(1) **COMPUTER IN** port
(2) **HDBaseT** port
(3) **LAN** port
(4) **WIRELESS** port
(5) **HDMI 1** port
(6) **HDMI 2** port
(7) **DisplayPort** port
(8) **VIDEO** port
(9) **SDI** port (LWU701i only)
(10) **AUDIO IN1** port
(11) **AUDIO IN2** (**L**, **R**) ports
(12) **AUDIO OUT** port
(13) **MONITOR OUT** port
(14) **REMOTE CONTROL IN** port
(15) **REMOTE CONTROL OUT** port
(16) **CONTROL** port

LWU601i/LW651i/LW751i/LX801i

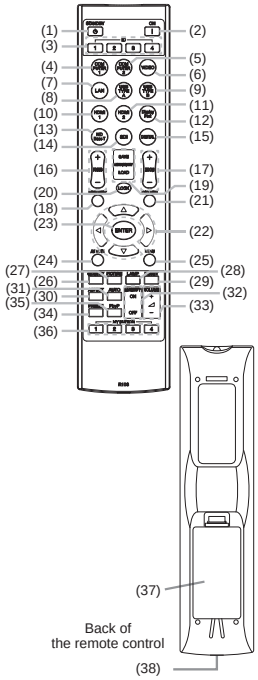


LWU701i



Remote control

(1) **STANDBY** button
(2) **ON** button
(3) **ID - 1 / 2 / 3 / 4** buttons
(4) **COMPUTER 1** button
(5) **COMPUTER 2** button *
(6) **VIDEO** button
(7) **LAN** button
(8) **USB TYPE A** button *
(9) **USB TYPE B** button *
(10) **HDMI 1** button
(11) **HDMI 2** button
(12) **DisplayPort** button
(13) **HDBaseT** button
(14) **SDI** button (LWU701i only)
(15) **DIGITAL** button *
(16) **FOCUS + / -** buttons
(17) **ZOOM + / -** buttons
(18) **LENS SHIFT** button
(19) **LENS MEMORY LOAD / SAVE** buttons
(20) **LENS LOCK** button
(21) **OSD MSG** button
(22) **▲/▼/◄/►** cursor buttons
(23) **ENTER** button
(24) **AV MUTE** button
(25) **MENU** button
(26) **GEOMETRY** button
(27) **PICTURE** button
(28) **LAMP** button
(29) **RESET** button
(30) **ASPECT** button
(31) **AUTO** button
(32) **MAGNIFY ON** / **OFF** buttons
(33) **VOL + / -** buttons
(34) **FREEZE** button
(35) **PbyP** button
(36) **MY BUTTON - 1 / 2 / 3 / 4** buttons
(37) Battery cover
(38) Wired remote control port



NOTE • Any button marked with * is not supported on this projector.
• Each time you press any button (except **ID** buttons), the **ID** button of current selected ID number lights.

4. Adjustment

4-1 Before adjusting

4-1-1 Selection of adjustment

When any parts in the table below are changed, choose the proper adjusting items with the chart. In addition, setup of the projector according to the chapter 4-8 by service engineers or users is recommended after all adjustments are done.

Relation between the replaced part and adjustment

Replaced part	Adjustment					
	AIR SENSOR (Chap.4-2)	Flicker (Chap.4-3)	DC OFF (Chap.4-4)	White balance (Chap.4-5)	Color uniformity (Chap.4-6)	LENS SHIFT (Chap.4-7)
DICHROIC OPTICS UNIT (DICHROIC OPTICS ASS'Y)	×	△	△	△	△	×
LCD Prism Shift mech. assembly (LCD/PRISM ASS'Y)	×	○	○	△	△	○
MAIN PCB (PWB ASS'Y MAIN)	○	○	○	△	△	○
LAMP UNIT (LAMP UNIT ASS'Y)	×	△	×	△	△	×
SENSOR-A/B PCB (PWB ASS'Y SENSOR-A/B)	○	×	×	×	×	×
PANEL FAN (DC FAN G10D13BPWM-P4L301)	○	×	×	×	×	×
PBS FAN (DC FAN CY8028PWM-Z4-L341)	○	×	×	×	×	×
BOTTOM CASE (BOTTOM CASE ASS'Y)	○	×	×	×	×	×

○ : means need for adjustment. ×: means not need for adjustment. △ : means recommended.

4-1-2 Setting of condition before adjustments

1. Warming up: Turn on the lamp and keep it on for more than 10 minutes before starting adjustments.
2. Set the image size: Set zoom wide to Max. and project an image more than 1 m (40 inches) in diagonal size.
3. Resetting aspect and distortion of the image: Press the **MENU** button and select EASY MENU - RESET. Press the ► or **ENTER** button to display RESET dialog and choose the OK with the ► button. Set and adjust each item in the EASY MENU again after adjustment.
4. Displaying the FACTORY MENU: Perform all adjustments from the FACTORY MENU.

Using the remote control...

a. Press the **MENU** button and select EASY MENU - RESET. Press the ► or **ENTER** button to display RESET dialog.

b. Next, press the **RESET** button, then re-press and hold the **RESET** button for 3 seconds or longer (the FACTORY MENU will appear).

Using the control panel of the projector...

a. Press the **MENU** button and select EASY MENU - RESET. Press the ► or **ENTER** button to display RESET dialog.

b. Next, press the ▼ button first, then press and hold the ▼ and **INPUT** button for 3 seconds or longer (the FACTORY MENU will appear).

Move the cursor among the items of the menu with ▲ and ▼ buttons, and select and enter with ► or **ENTER** button.

4-2 AIR SENSOR adjustment

When you replaced the MAIN PCB, SENSOR-A/B PCB, PANEL FAN, PBS FAN or BOTTOM CASE, or when you re-attached the PANEL DUCT to the BOTTOM CASE, make sure to carry out this adjustment after re-assembling the projector and cleaning the air filter.

A-SENS bar

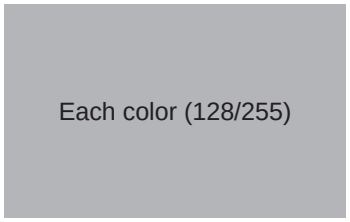
A-SENS	>>EXE	1:xxxx	2:xxxx	3:xxxx	4:xxxx	END

Adjustment procedure

1. Display the A-SENS bar with the ▲ and ▼ buttons in FACTORY MENU - VID-AD1.
2. Press the ► button to run automatic adjustment program. The cell END is highlighted in about 5 minutes after the adjustment finished.

4-3 Flicker adjustment (V.COM adjustment)

Test patterns for the adjustment



NOTE: The test pattern sometimes has a horizontal line across the screen.

V.COM bar

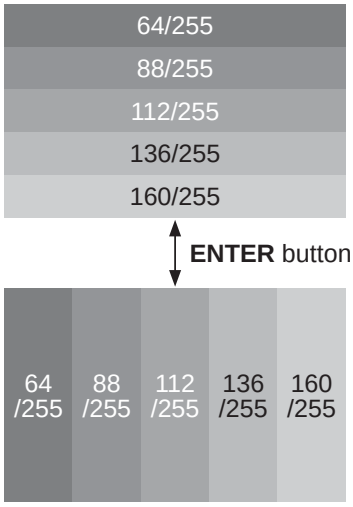
V.COM	Rxxx	Gxxx	Bxxx	Wxxx

Adjustment procedure

1. Display the V.COM bar with the ▲ and ▼ buttons in FACTORY MENU - DAC-P.
2. Select the cell R, and use the ▲ and ▼ buttons to adjust so that the flicker at the center of the screen is less than the flicker at the periphery. (When the flicker is almost same across the whole screen, adjust so that the flicker at the center of the screen is less than elsewhere.)
3. In the same way, use the cells G and B in turn to adjust the each color flicker.

4-4 DC OFF adjustment (vertical bars adjustment)

Test patterns for the adjustment



DCOFF menu

DCOFF	No.0	R+x	G+x	B+x

ATTENTION

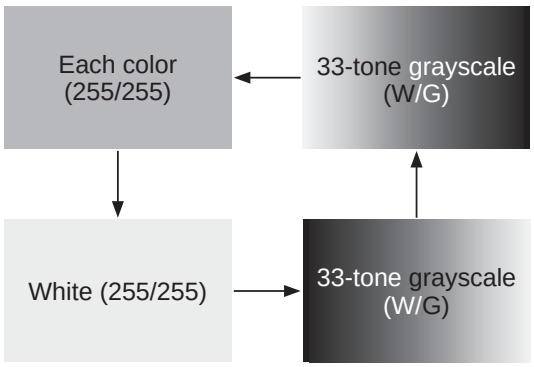
Make this adjustment work after completing the Flicker adjustment.

Adjustment procedure

1. Display the DCOFF menu with the ▲ and ▼ buttons in FACTORY MENU - STRIPE.
2. Adjust only the No.0 level.
   Select the cell R of No.0 level, and use the ▲ and ▼ buttons to adjust so that vertical bars are minimized.
3. In the same way, use the cells G and B in turn to adjust so that vertical bars are minimized.

4-5 White balance adjustment (visual inspection)

Test patterns for the adjustment



SB-CNT bar

SB-CNT	R+xx	G+xx	B+xx	W+xx	

SB-BRT bar

SB-BRT	R+xx	G+xx	B+xx	W+xx	

ATTENTION

Perform the followings before making this adjustment work.

- Set the WHITE BALANCE in SETUP menu - GEOMETRY CORRECTION - EDGE BLENDING - WHITE BALANCE - OFFSET and GAIN to all “+0” .
- Complete the DC OFF adjustment. When only the LAMP UNIT is replaced, DC OFF adjustment is not required so that this adjustment work can be done after Flicker adjustment.

Adjustment procedure

1. Select GAMMA in the FACTORY MENU and press the **RESET** button to display the dialog. Select RESET to reset gamma correction.
2. Display the SB-CNT bar with the ▲ and ▼ buttons in FACTORY MENU - GAMMA.
3. Select the cell G, and change the test pattern to 33-tone grayscale in green with the **ENTER** button.
4. Use the ▲ and ▼ buttons to adjust so that brightness of 33 steps is best.
5. After completing above, display the SB-BRT bar.
6. Select the cell R or B, and change the test patterns to 33-tone grayscale with the **ENTER** button.

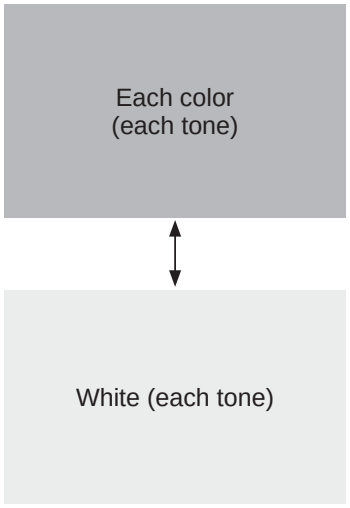
ATTENTION

Do not change the cell G of SB-BRT to keep the best contrast ratio.

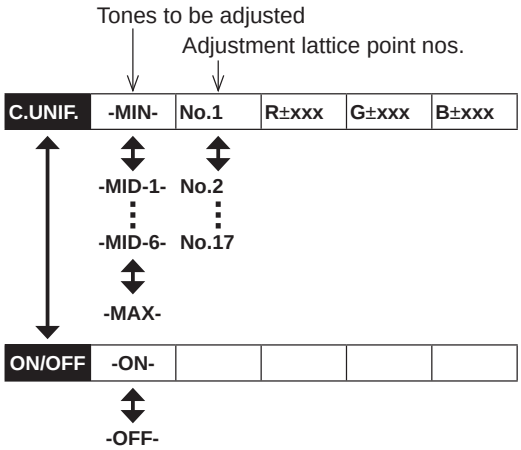
7. Use the ▲ and ▼ buttons to adjust so that low-brightness white balance is best.
8. Select the other cell and adjust in the same way.
9. Display the SB-CNT bar again.
10. Change the test patterns and adjust so that middle-brightness white balance is best at the cells R and B in the same way as low-brightness.
11. Repeat adjusting low/middle-brightness white balance with R and B color so that brightness and white balance of 33 steps is best.

4-6 Color uniformity adjustment

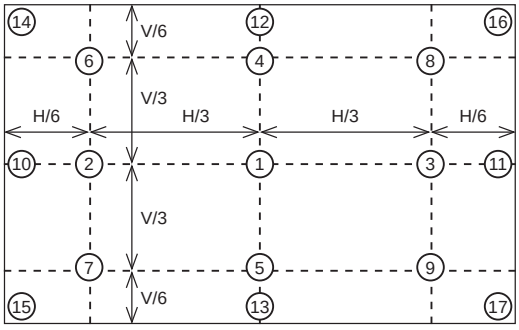
Test patterns for the adjustment



Adjust tone menu



Adjustment lattice point position



ATTENTION

Perform the followings before making this adjustment work.

- Reset COLOR UNIFORMITY in SETUP menu.
- Complete the White balance adjustment.

Preparations

1. Display the Adjust tone menu in FACTORY MENU - C.UNIF..
   Next on the right of "C.UNIF.", 2nd cell from the left shows tone to be adjusted. Use the ▲ or ▼ button to switch the tone.
   Next on the right of tones, 3rd cell from the left shows the no. of adjustment lattice point. Use the ▲ or ▼ button to switch the point.
   3 cells from the right show adjusted value of R, G and B colors. Use the ▲ and ▼ buttons to adjust each color.
2. Make color uniformity adjustments for the following 8 tones.
   -MIN- tone (approx. 7% input signal)
   -MID-1- tone (approx. 14% input signal)
   -MID-2- tone (approx. 21% input signal)
   -MID-3- tone (approx. 29% input signal)
   -MID-4- tone (approx. 39% input signal)
   -MID-5- tone (approx. 50% input signal)
   -MID-6- tone (approx. 75% input signal)
   -MAX- tone (approx. 90% input signal)
3. The adjustment lattice point nos. correspond to the point positions in the diagram. The color uniformity of the entire screen can be adjusted by adjusting the white balance for each of the points starting in order from the low numbers.
   NOTICE: Point No.1 should not be adjusted because it controls the brightness of the entire screen. Note that when adjusting a point, it affects around the point.
4. To temporarily turn correction off, place the cursor on "C.UNIF." in the Adjust tone menu, and press the ▼ button to display ON/OFF bar. Move the cursor to ON, and press the ▼ button. To turn it on again, place the cursor on OFF and press the ▲ button.
5. The following two patterns of internal signals are available for this adjustment. Use the **ENTER** button to switch it.
   • Solid monochrome adjustment color (for G color adjustment with a color differential meter).
   • Solid white (for adjustment other than above).
6. Reset values before adjustment, if neccessary. Single value resets cannot be performed.
   • When resetting all values, place the cursor on C.UNIF. in FACTORY MENU, press the **RESET** button and select RESET in the dialog.
   • When resetting the values of single tone, place the cursor on the tone to be reset, press the **RESET** button and select RESET in the dialog.

(continued on next page)

Adjustment procedure 1
(When a color differential meter is used)

1. First adjust the -MID-1- tone, from G color.
2. Select G of point No.2 and change the background to solid G monochrome.
3. Measure the illumination at points No. 2, 3, 10 and 11.
   The values should be:
   No.2 = Y2 [lx], No.10 = Y10 [lx]
   No.3 = Y3 [lx], No.11 = Y11 [lx]
4. Points No.2 and No.3 have the average of Y2 and Y3.
   Y2 = (Y2 + Y3) / 2 ± 3 [%]
   Y3 = (Y2 + Y3) / 2 ± 3 [%]
5. Points No.10 and No.11 have the average of Y10 and Y11.
   Y10 = (Y10 + Y11) / 2 ± 3 [%]
   Y11 = (Y10 + Y11) / 2 ± 3 [%]
6. Then adjust R and B color of the -MID-1- tone. Change the background to solid W monochrome.
7. Measure the color coordinates of point No.1 and make a note of them.
   Assume that they are x = x1, y = y1.
   NOTE: When the CL-100 or CL-200 color and color difference meter is used, the Δ(delta) mode is convenient. When point No.1 color coordinate has been selected, set the slide switch on the side to Δ while holding down the F button on the front panel. The measurement shown after this displays the deviation from point No.1.
8. Measure the color coordinates at point No.2 and adjust R and B color of point No.2 so that the coordinates are as follows.
   x = x1 ± 0.005 , y = y1 ± 0.005 (as target)
   x = x1 ± 0.010 , y = y1 ± 0.015
9. Measure and adjust their color coordinates of points No.3 to 17 in the same way starting in order from the small number points.
   This completes adjustments required for -MID-1- tone.
   NOTE: Since excessive correction may lead to a correction data overview during internal calculations, use the following values for reference.
   No.2 to 5: ± 40 or less
   No.6 to 9: ± 50 or less
   No.10 to 13: ± 70 or less
   No.14 to 17: ± 120 or less
10. Next, adjust the other tones in order of -MIN-, -MID-3-, -MID-2-, -MID-5-, -MID-4-, -MAX- and -MID-6-.
11. Adjust each tone as follows, from G color.
    -MIN- tone : one and a half of -MID-1- tone
    -MID-3- tone : 0 (no adjustment)
    -MID-2- tone : a half of -MID-1- tone
    -MID-5- tone : 0 (no adjustment)
    -MID-4- tone : average of -MID-3- and -MID-5- tones
    -MAX- tone : 0 (no adjustment)
    -MID-6- tone : average of -MID-5- and -MAX- tones
12. Select R or B of point No.2 at -MIN- tone and change the background to solid W monochrome.
13. Measure the color coordinates at point No.1 and make a note of them. Assume that they are x = x1, y = y1.
14. Now measure the color coordinates at point No.2 and adjust R and B color of point No.2 so that the coordinates are as follows.
    x = x1 ± 0.010 , y = y1 ± 0.020 (Target)
    x = x1 ± 0.040 , y = y1 ± 0.080
15. Similarly, measure and adjust their color coordinates of points No.3 to 17 starting in order from the small number points.
16. Now make similar adjustments for R and B color of -MID-3-, -MID-5- and -MAX- tones. Adjust them in the same way as the -MIN- tone adjustments in the step 12 to 15 so that the coordinates are as follows.
    x = x1 ± 0.005 , y = y1 ± 0.005
17. Finally, set the values of the -MID-2-, -MID-4- and -MID-6- tones as follows using the values already set.
    -MID-2- tone : average of -MID-1- and -MID-3- tones
    -MID-4- tone : average of -MID-3- and -MID-5- tones
    -MID-6- tone : average of -MID-5- and -MAX- tones

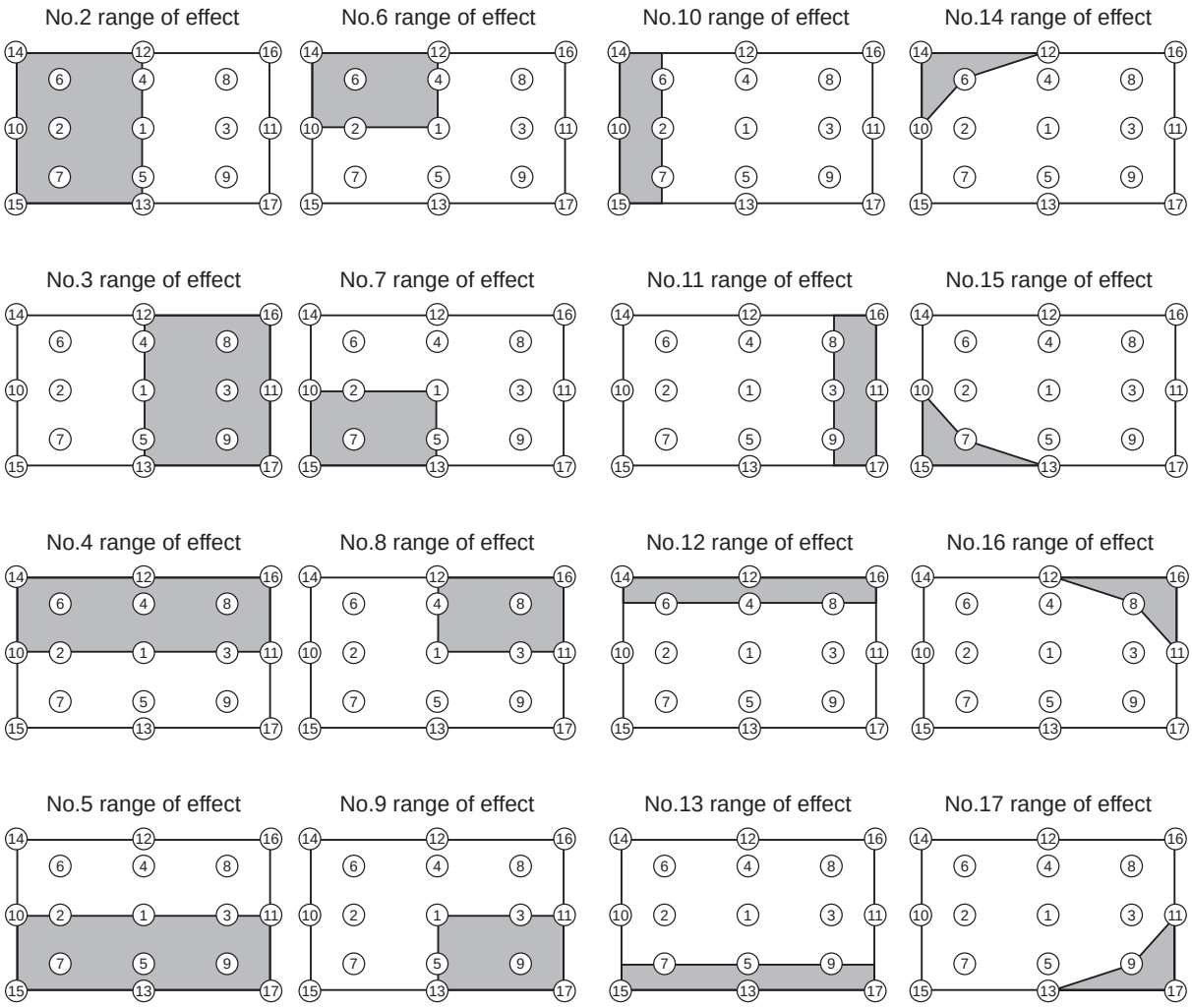
(continued on next page)

Adjustment procedure 2 (visual inspection)

1. First adjust G color of the -MIN- tone.
2. Select G of point No.2 and change the background to solid W monochrome.
3. View point No.2 and 3. Lower the G color intensity only of the color point whose G color is more intense than point No.1.
   NOTE: When adjusting a point, it affects around the point as the diagrams.
4. View point No.10 and 11. Lower the G color intensity only of the color point whose G color is more intense than point No.1, and raise the intensity of the point whose color intensity is lower than point No.1.
5. Now adjust R and B colors of the MIN tone.
6. View points No.2, 3, 10 and 11. Adjust R and B color of each point so that they have the same color as point No.1.

Adjustment technique: First, adjust B color of the point whose color is to be adjusted so that it approximates that of point No.1. If R color is low at this time, the image will have cyanish cast, in which case increase R color. On the other hand, if R color is excessive, the image will have a reddish cast, in which case decrease R color. Overall, a cyanish cast makes it easy to see color shading.

7. Next, view and make similar adjustments for points No.4, 5, 12 and 13.
8. Then adjust points No.6 to 9 and No.14 to 17. This completes the -MIN- tone adjustments.
9. Make similar adjustments for other tones as described in steps 1 to 8 above.



4-7 LENS SHIFT adjustment

When you replaced the LCD Prism Shift mech. assembly or MAIN PCB, make sure to carry out this adjustment after re-assembling the projector.

LENS_C bar

(You do not have to care the numbers in this menu.)

Example 1

LENS_C	>>EXE	T:xxx	B:xxx	L:xxx	R:xxx	NG

Example 2

LENS_C	>>EXE	T:168	B:802	L:281	R:803	OK

Example 3

LENS_C	>>EXE	T:err	B:823	L:306	R:778	NG

Adjustment procedure

1. Display the LENS_C bar with the ▲ and ▼ buttons in FACTORY MENU - OPTION. (Example 1)
2. Press the ► button to run automatic adjustment program.
   NOTE: During this adjustment, the lens automatically moves vertically and horizontally.
3. The right-most cell is highlighted after the adjustment finished. Check the status, OK or NG, displayed in the cell.
   OK: The adjustment was successful. (Example 2)
   NG: The adjustment was failed. Go to the next step. (Example 3)
4. Check the followings. After the confirmation or the rework, carry out the adjustment again.
   - Harnesses are firmly connected to the connectors EM00, EM01, EM03 and EM04 on the MAIN PCB.
   - None of objects or wires is pinched between the LENS SHIFT MECH and the lens.

   NOTE: Find the cell in which “err” is displayed, and read the left-most letter (T, B, L or R) in the cell. It shows the area where the adjustment was failed.
   T: Between the top side frame of LENS SHIFT MECH and lens body
   B: Between the bottom side frame of LENS SHIFT MECH and lens body
   L: Between the air-filter-side frame of LENS SHIFT MECH and lens body
   R: Between the lamp-side frame of LENS SHIFT MECH and lens body

4-8 Setup of the projector

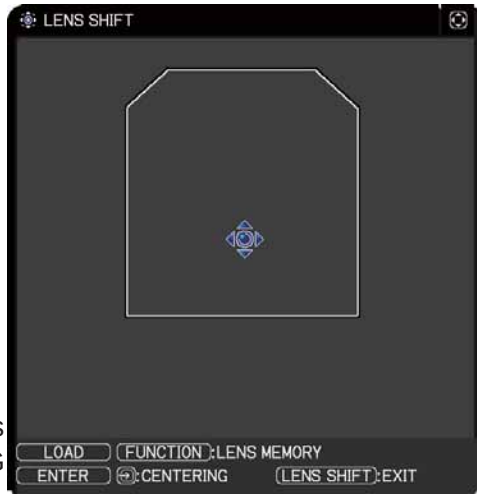
The following contents are also described in User's manual.

● **ZOOM / FOCUS**

1. The **ZOOM** or **FOCUS** dialog will appear when you press any of the buttons from **ZOOM**, **ZOOM -**, **ZOOM +**, **FOCUS +** and **FOCUS -**.
2. Use the **ZOOM + / -** buttons on the remote control or **ZOOM** button and ◄/► cursor buttons on the projector to adjust the screen size.

● **LENS SHIFT**

Press the **LENS SHIFT** button. The LENS SHIFT dialog will appear. Using the ▲/▼/◄/►buttons while the dialog is displayed shifts the lens.



● **CENTERING**

<With the LENS SHIFT dialog>
Press the **ENTER** or **INPUT** button.

<In the standby mode>
Press the **LENS SHIFT** and the **FUNCTION** buttons for 3 seconds at the same time.

- While the lens is moving to the center, the menu disappears and an hourglass icon appears on the screen. CENTERING may take some time till the lens reaches the center.
- The projector may ignore operation by buttons while moving the lens.
- The CENTERING feature while the projector is in the standby mode is disabled if the STANDBY MODE item of SETUP menu is set to POWER SAVE. Perform CENTERING before the projector's power is turned off, or set the STANDBY MODE to NORMAL.
- The adjustable range of LENS SHIFT varies depending on the lens unit mounted on the projector to maintain picture quality. Therefore, LENS SHIFT adjustment may not reach the end of the indicator in the dialog. This is not a failure.

● **LENS MEMORY** SAVE / LOAD / CLEAR

This projector is equipped with memory functions for the lens adjustments (LENS SHIFT and LENS TYPE).
To utilize the lens memory feature, press the **POSITION** or **FUNCTION** button while the LENS SHIFT dialog is displayed.

<SAVE>

To save the current lens adjustments, select a SAVE-(1-3) and press ► or **ENTER** button.

<LOAD>

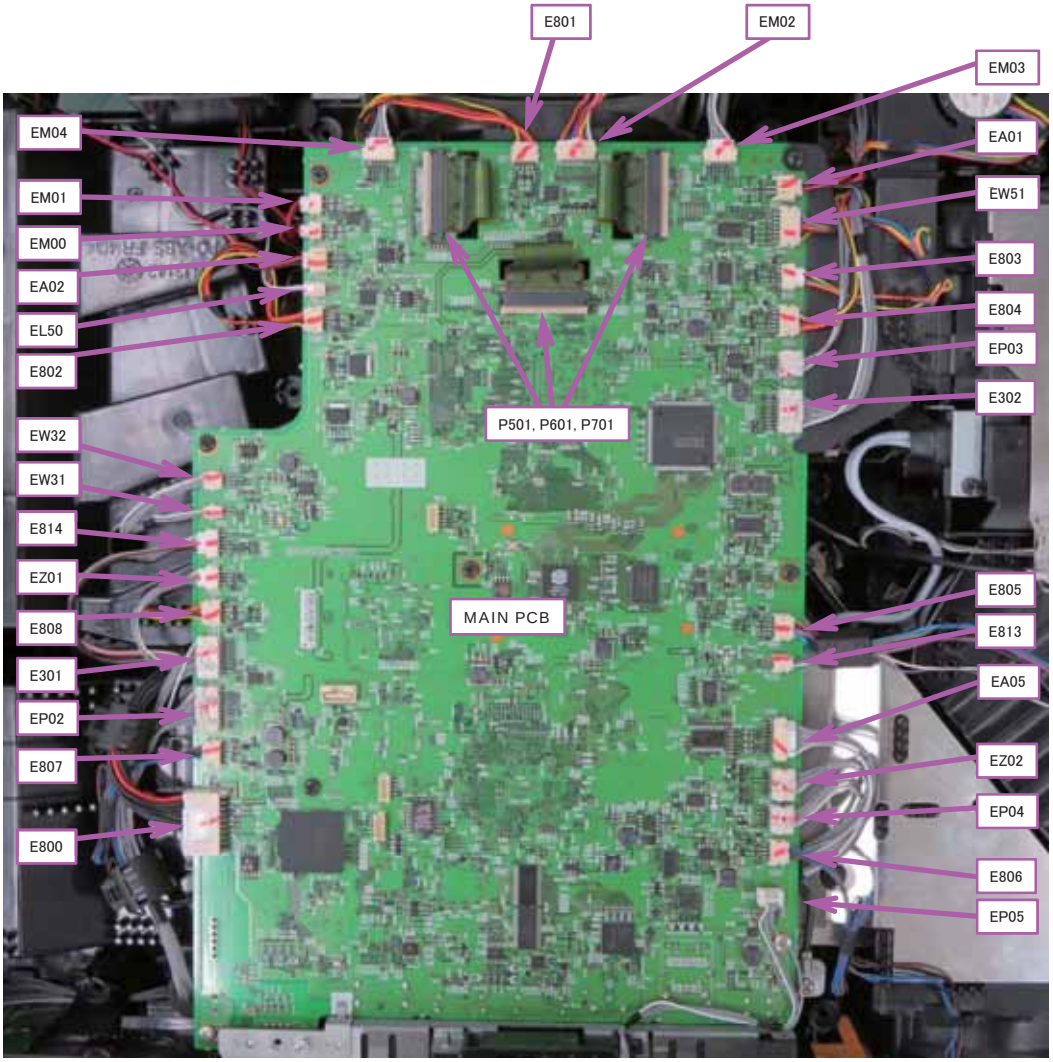
To load a saved adjustments, select the LOAD-(1-3) and press ► or **ENTER** button.
Using the **LENS MEMORY** button, the memory can be loaded without the LENS MEMORY dialog.

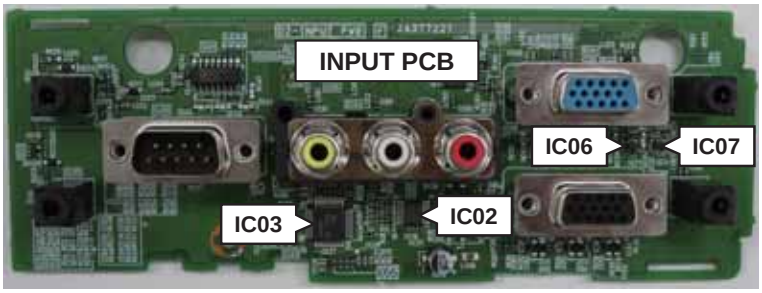
<CLEAR>

Select CLEAR LENS MEMORY and press the ► or **ENTER** button. The CLEAR LENS MEMORY dialog will be displayed. Select the number to be cleared using ◄/► buttons and press the button. A message dialog is displayed for confirmation. Press the button again to clear the lens memory.

5. Troubleshooting

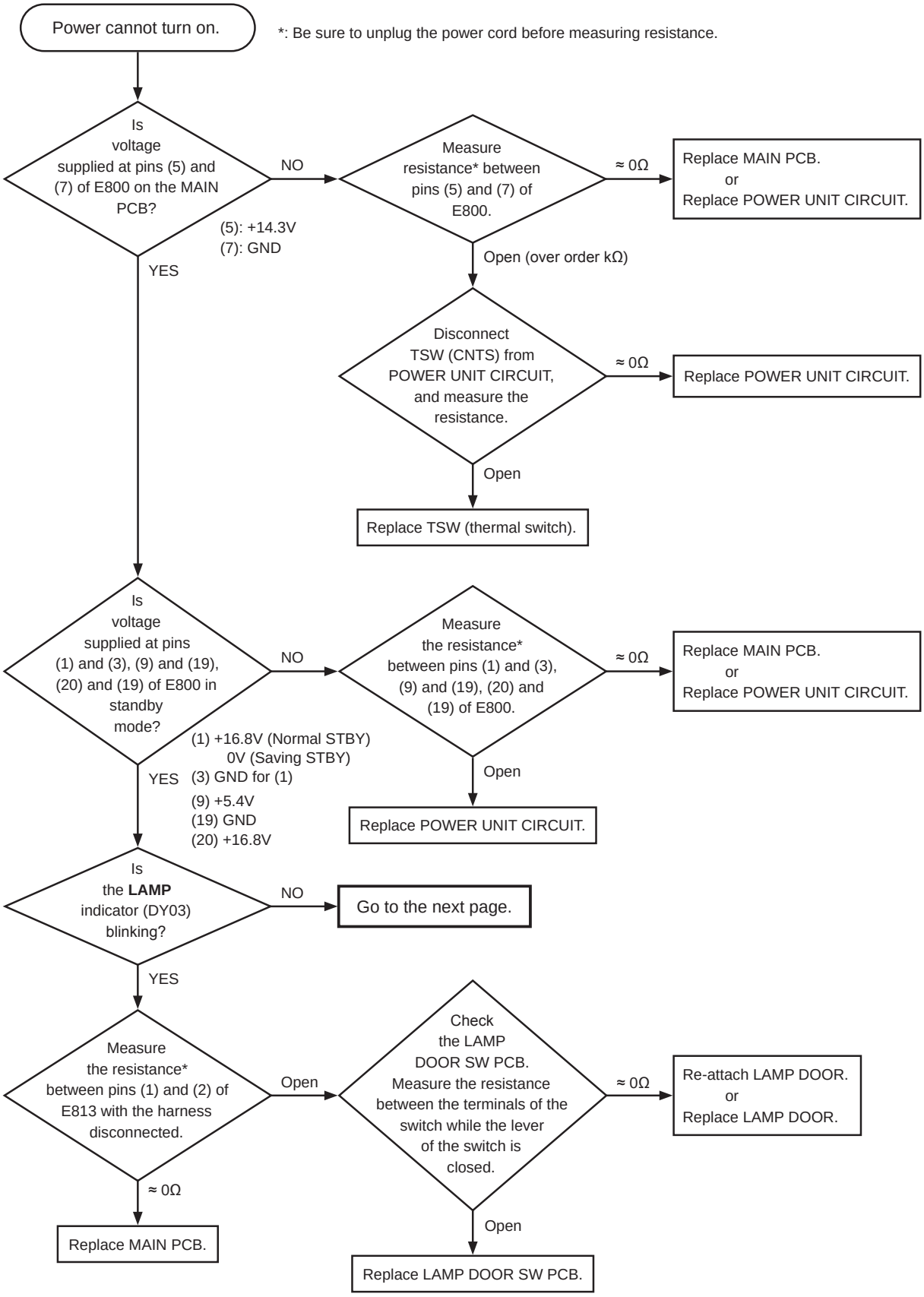
■ Check points

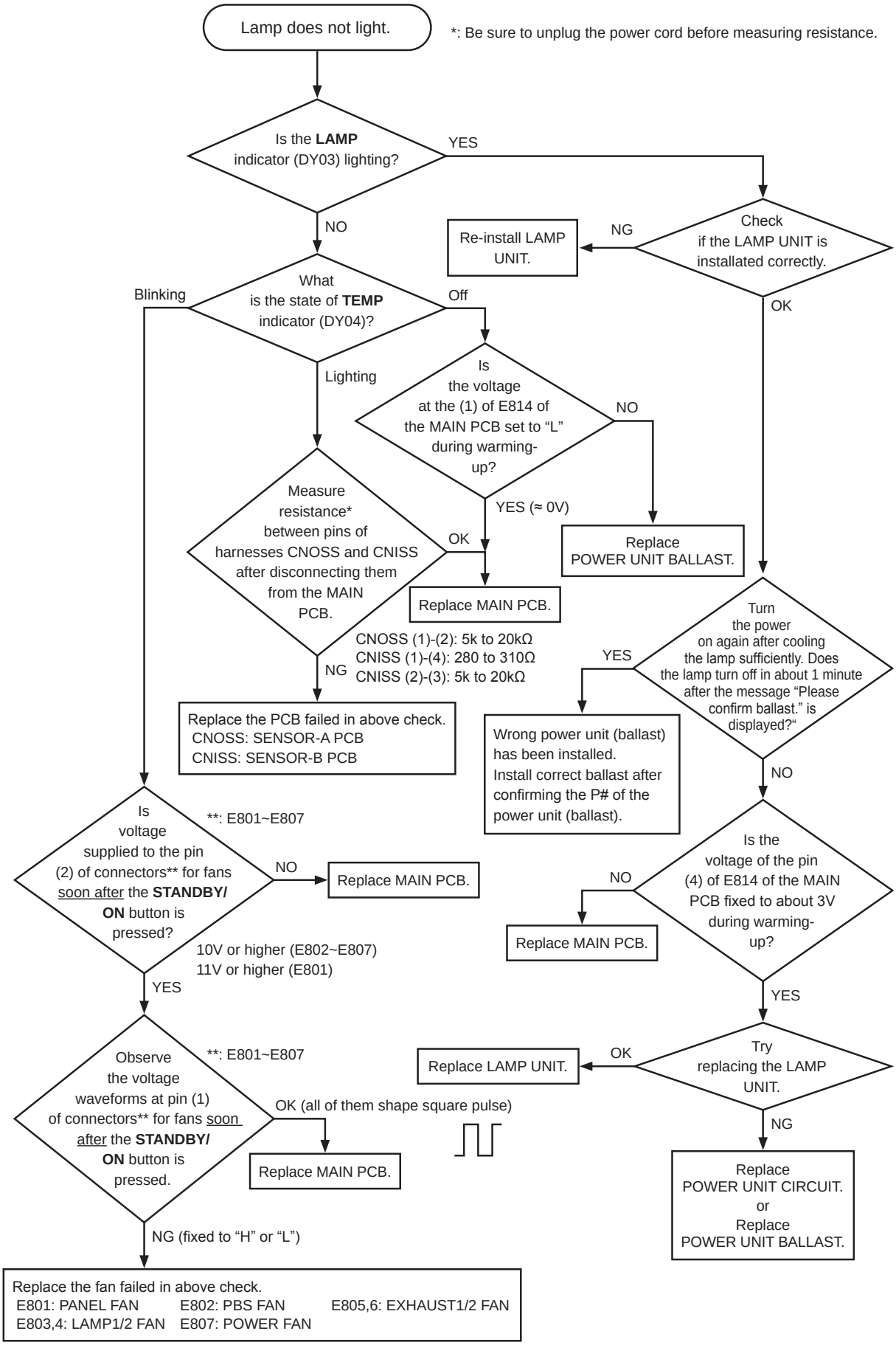


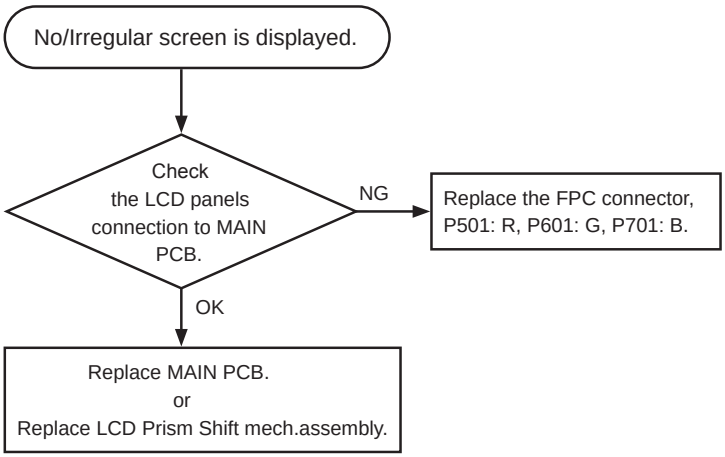


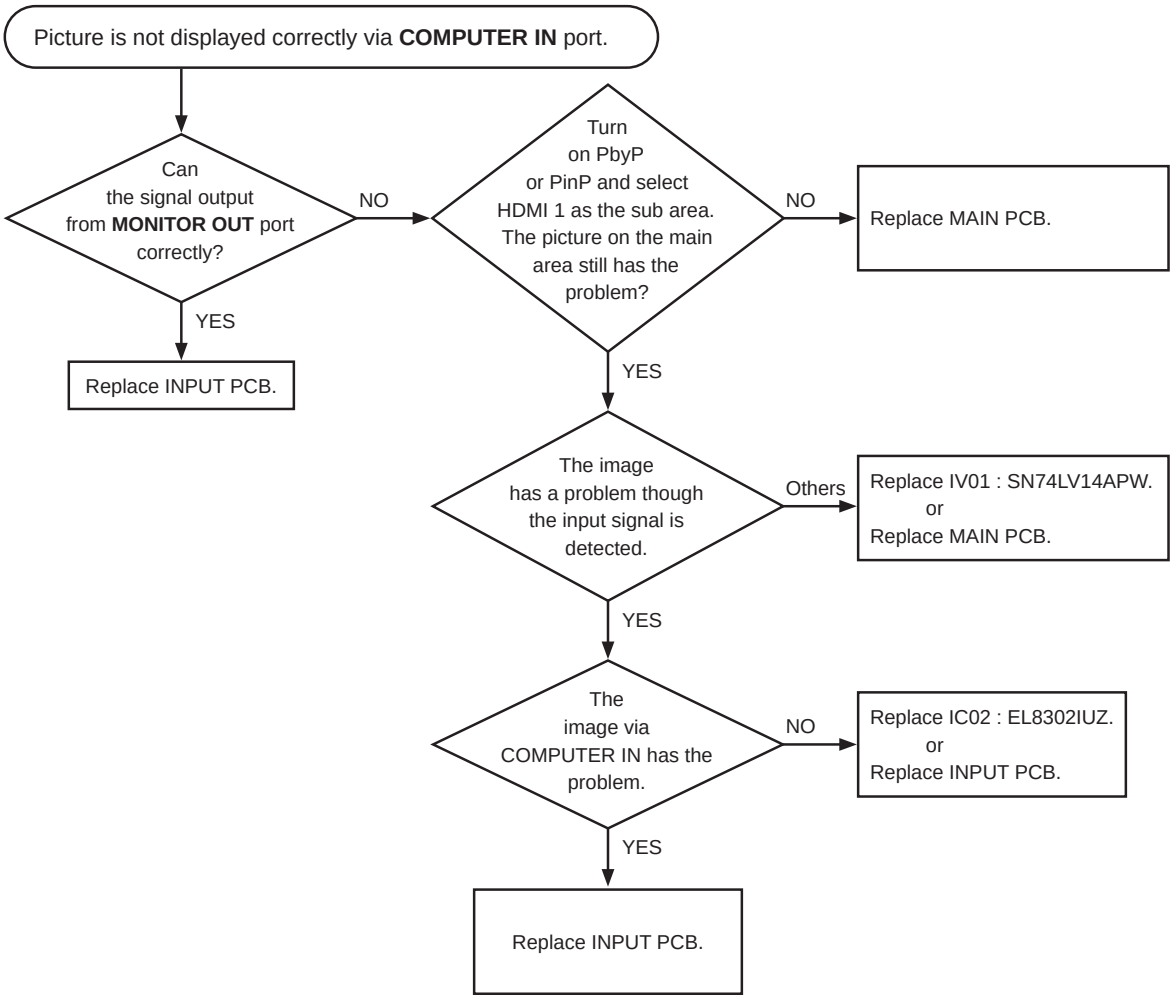
NOTE:

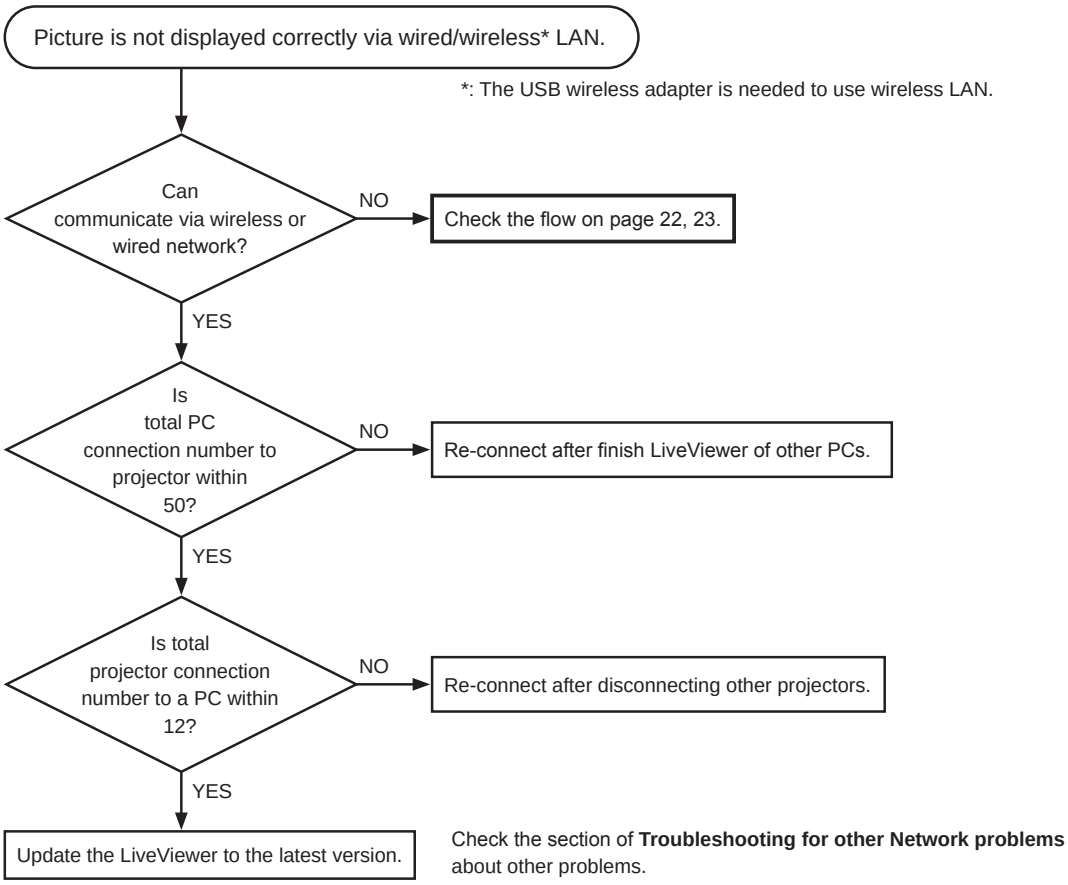
1) The picture above shows the inside of the projector after the UPPER CASE is removed. To access the components of the INPUT PCB shown in the picture, you need to detach the block including the MAIN PCB and to separate the I/O PANEL and the I/O METAL from the block.
2) Wiring shown in this picture may differ from mass-products. Refer the chapter of "***Wiring diagram***" to check the proper wiring.
3) The component IV01 is located on the reverse side of MAIN PCB.


Power cannot turn on.
*: Be sure to unplug the power cord before measuring resistance.
Is voltage supplied at pins (5) and (7) of E800 on the MAIN PCB?
NO
(5): +14.3V
(7): GND
YES
Measure resistance* between pins (5) and (7) of E800.
≈ 0Ω
Replace MAIN PCB. or Replace POWER UNIT CIRCUIT.
Open (over order kΩ)
Disconnect TSW (CNTS) from POWER UNIT CIRCUIT, and measure the resistance.
≈ 0Ω
Replace POWER UNIT CIRCUIT.
Open
Replace TSW (thermal switch).
Is voltage supplied at pins (1) and (3), (9) and (19), (20) and (19) of E800 in standby mode?
NO
(1) +16.8V (Normal STBY) 0V (Saving STBY)
(3) GND for (1)
YES
(9) +5.4V
(19) GND
(20) +16.8V
Measure the resistance* between pins (1) and (3), (9) and (19), (20) and (19) of E800.
≈ 0Ω
Replace MAIN PCB. or Replace POWER UNIT CIRCUIT.
Open
Replace POWER UNIT CIRCUIT.
Is the LAMP indicator (DY03) blinking?
NO
Go to the next page.
YES
Measure the resistance* between pins (1) and (2) of E813 with the harness disconnected.
Open
Check the LAMP DOOR SW PCB. Measure the resistance between the terminals of the switch while the lever of the switch is closed.
≈ 0Ω
Re-attach LAMP DOOR. or Replace LAMP DOOR.
Open
Replace LAMP DOOR SW PCB.
≈ 0Ω
Replace MAIN PCB.

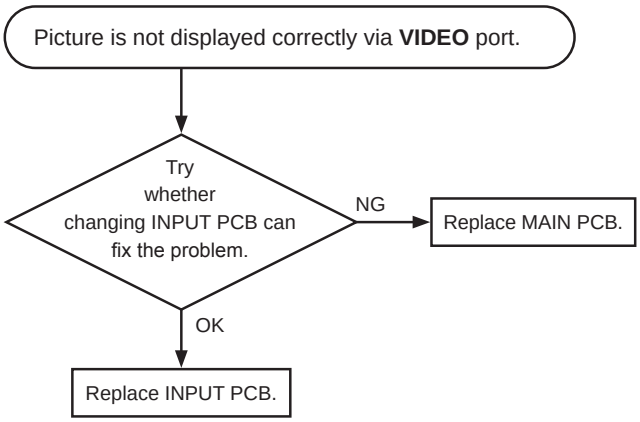

Lamp does not light.
*: Be sure to unplug the power cord before measuring resistance.
Is the **LAMP** indicator (DY03) lighting?
YES
NO
Check if the LAMP UNIT is installated correctly.
NG
Re-install LAMP UNIT.
OK
What is the state of **TEMP** indicator (DY04)?
Blinking
Off
Lighting
Is the voltage at the (1) of E814 of the MAIN PCB set to "L" during warming-up?
NO
YES (≈ 0V)
Replace POWER UNIT BALLAST.
Measure resistance* between pins of harnesses CNOSS and CNISS after disconnecting them from the MAIN PCB.
OK
Replace MAIN PCB.
CNOSS (1)-(2): 5k to 20kΩ
CNISS (1)-(4): 280 to 310Ω
CNISS (2)-(3): 5k to 20kΩ
NG
Replace the PCB failed in above check.
CNOSS: SENSOR-A PCB
CNISS: SENSOR-B PCB
Turn the power on again after cooling the lamp sufficiently. Does the lamp turn off in about 1 minute after the message "Please confirm ballast." is displayed?"
YES
Wrong power unit (ballast) has been installed.
Install correct ballast after confirming the P# of the power unit (ballast).
NO
Is voltage supplied to the pin (2) of connectors** for fans soon after the **STANDBY/ ON** button is pressed?
**: E801~E807
NO
Replace MAIN PCB.
10V or higher (E802~E807)
11V or higher (E801)
YES
Is the voltage of the pin (4) of E814 of the MAIN PCB fixed to about 3V during warming-up?
NO
Replace MAIN PCB.
YES
Observe the voltage waveforms at pin (1) of connectors** for fans soon after the **STANDBY/ ON** button is pressed.
**: E801~E807
OK (all of them shape square pulse)
Replace MAIN PCB.
NG (fixed to "H" or "L")
Try replacing the LAMP UNIT.
OK
Replace LAMP UNIT.
NG
Replace POWER UNIT CIRCUIT. or Replace POWER UNIT BALLAST.
Replace the fan failed in above check.
E801: PANEL FAN
E802: PBS FAN
E805,6: EXHAUST1/2 FAN
E803,4: LAMP1/2 FAN
E807: POWER FAN

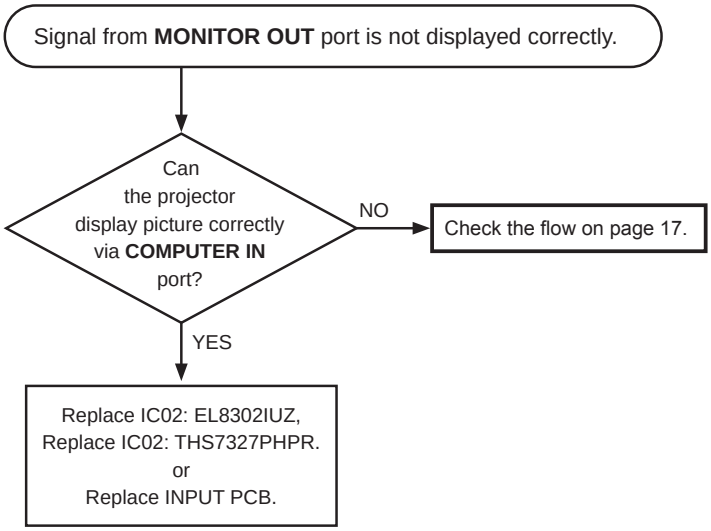

No/Irregular screen is displayed.
Check the LCD panels connection to MAIN PCB.
NG
Replace the FPC connector, P501: R, P601: G, P701: B.
OK
Replace MAIN PCB. or Replace LCD Prism Shift mech.assembly.

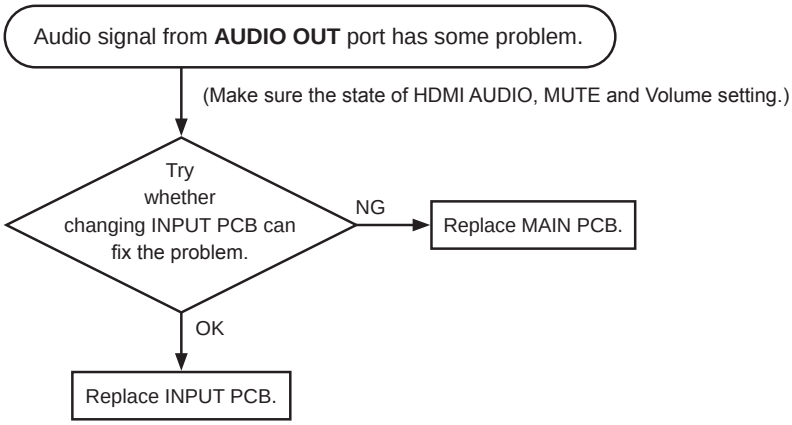

Picture is not displayed correctly via **COMPUTER IN** port.
Can the signal output from **MONITOR OUT** port correctly?
NO
Turn on PbyP or PinP and select HDMI 1 as the sub area. The picture on the main area still has the problem?
NO
Replace MAIN PCB.
YES
Replace INPUT PCB.
YES
The image has a problem though the input signal is detected.
Others
Replace IV01 : SN74LV14APW. or Replace MAIN PCB.
YES
The image via COMPUTER IN has the problem.
NO
Replace IC02 : EL8302IUZ. or Replace INPUT PCB.
YES
Replace INPUT PCB.

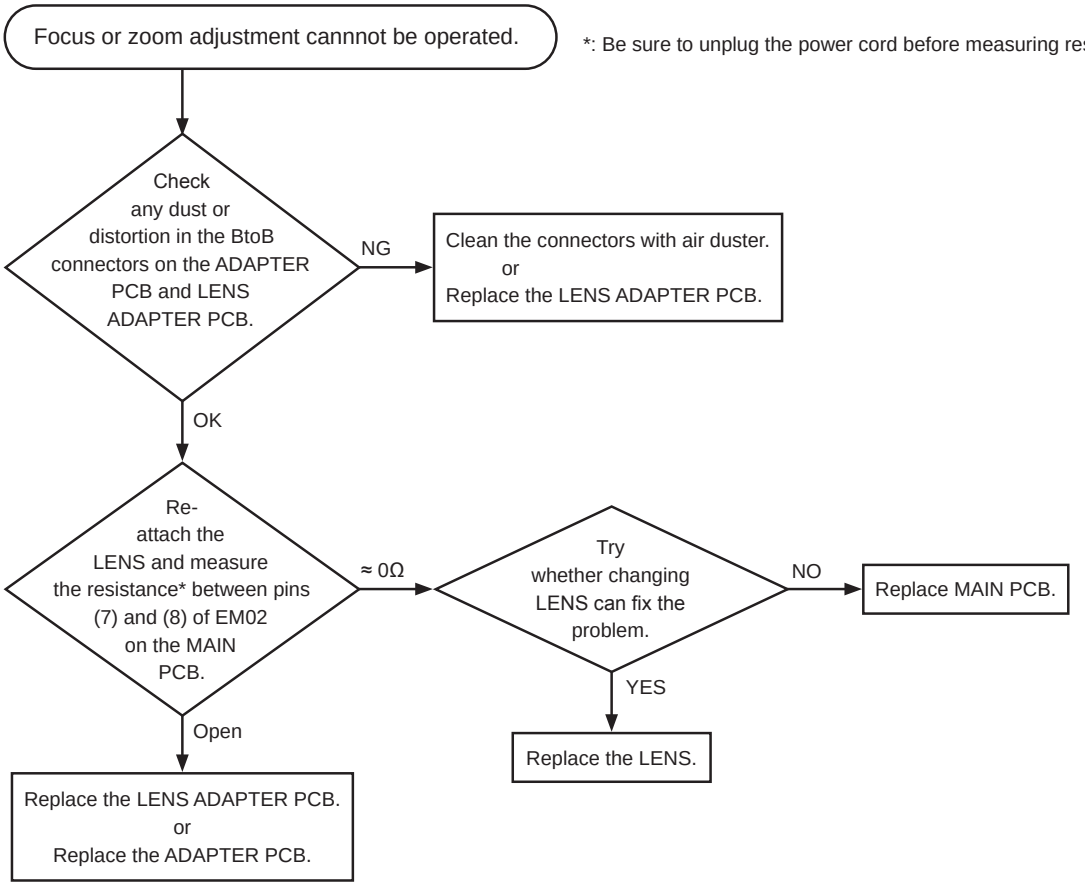


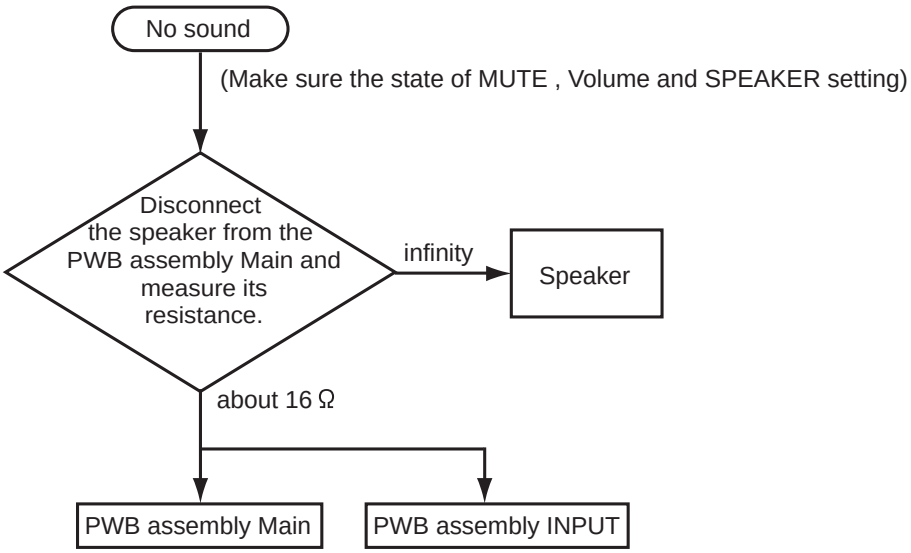
Check the section of **Troubleshooting for other Network problems** about other problems.

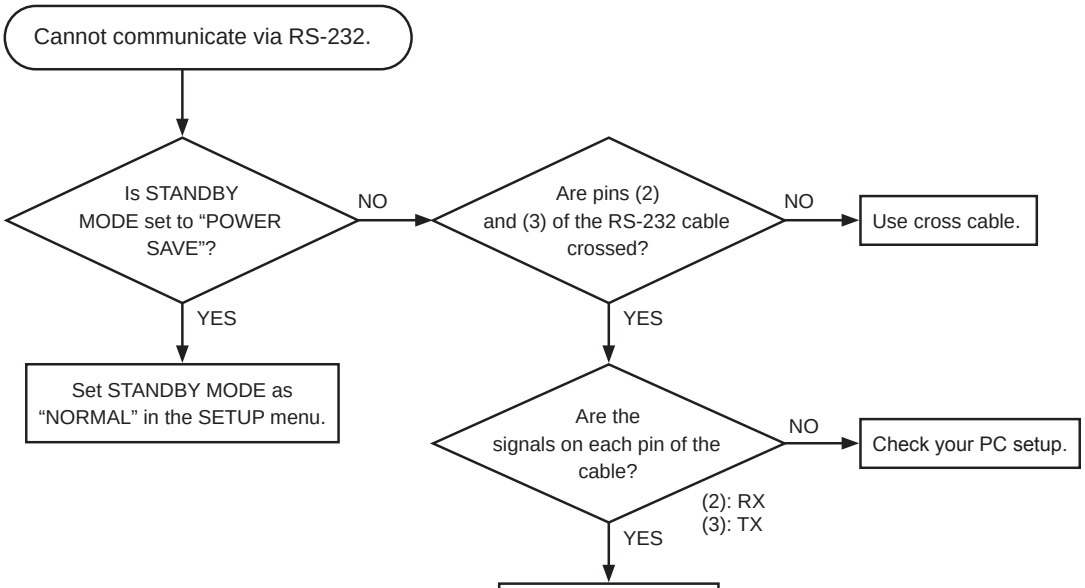

Picture is not displayed correctly via **VIDEO** port.
Try whether changing INPUT PCB can fix the problem.
NG
Replace MAIN PCB.
OK
Replace INPUT PCB.


Signal from **MONITOR OUT** port is not displayed correctly.
Can the projector display picture correctly via **COMPUTER IN** port?
NO
Check the flow on page 17.
YES
Replace IC02: EL8302IUZ,
Replace IC02: THS7327PHPR.
or
Replace INPUT PCB.


Audio signal from **AUDIO OUT** port has some problem.
(Make sure the state of HDMI AUDIO, MUTE and Volume setting.)
Try whether changing INPUT PCB can fix the problem.
NG
Replace MAIN PCB.
OK
Replace INPUT PCB.


Focus or zoom adjustment cannnot be operated.
*: Be sure to unplug the power cord before measuring resistance.
Check any dust or distortion in the BtoB connectors on the ADAPTER PCB and LENS ADAPTER PCB.
NG
Clean the connectors with air duster. or Replace the LENS ADAPTER PCB.
OK
Re-attach the LENS and measure the resistance* between pins (7) and (8) of EM02 on the MAIN PCB.
≈ 0Ω
Try whether changing LENS can fix the problem.
NO
Replace MAIN PCB.
YES
Replace the LENS.
Open
Replace the LENS ADAPTER PCB. or Replace the ADAPTER PCB.

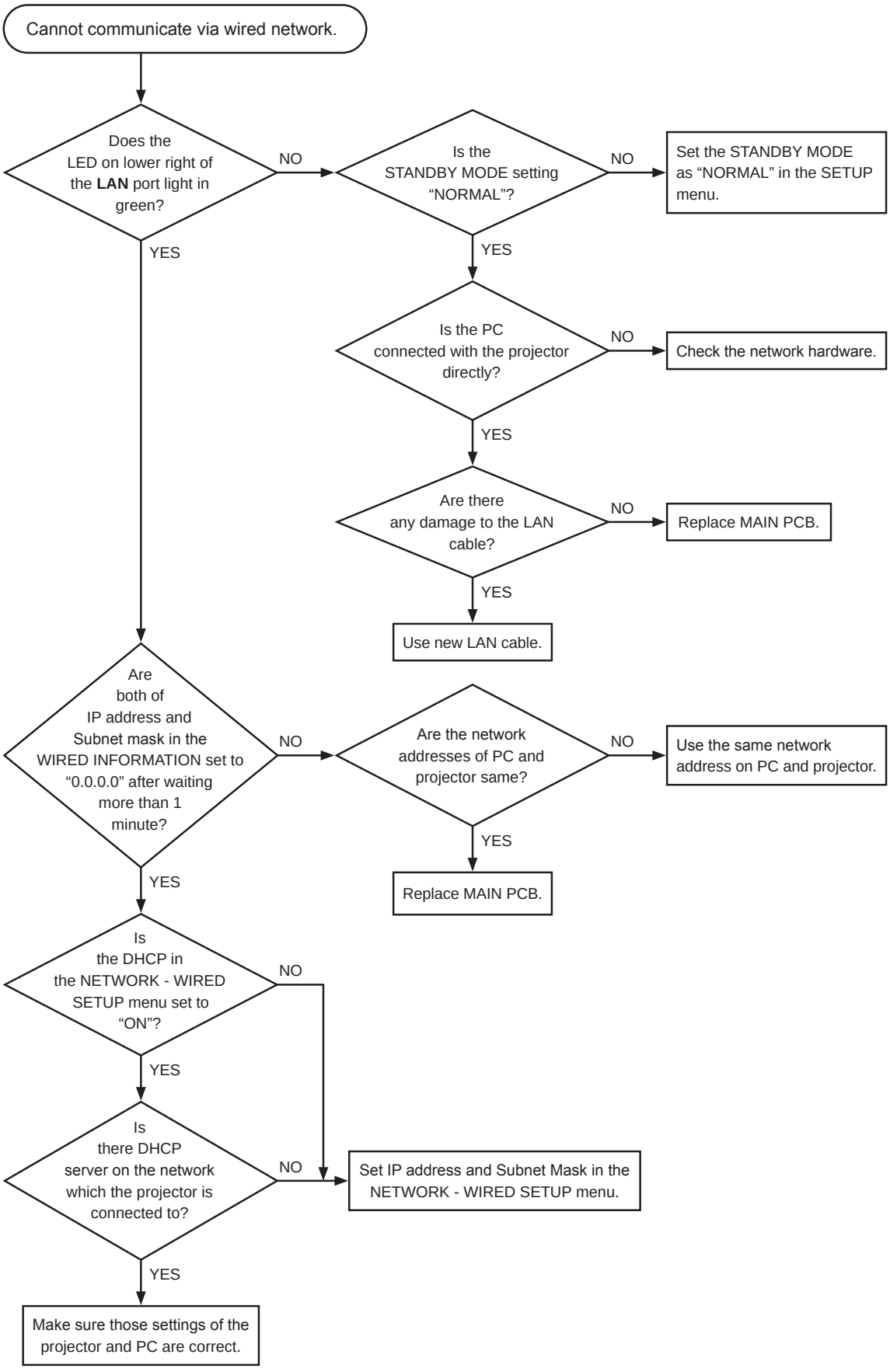

No sound
(Make sure the state of MUTE , Volume and SPEAKER setting)
Disconnect the speaker from the PWB assembly Main and measure its resistance.
infinity
Speaker
about 16 Ω
PWB assembly Main
PWB assembly INPUT

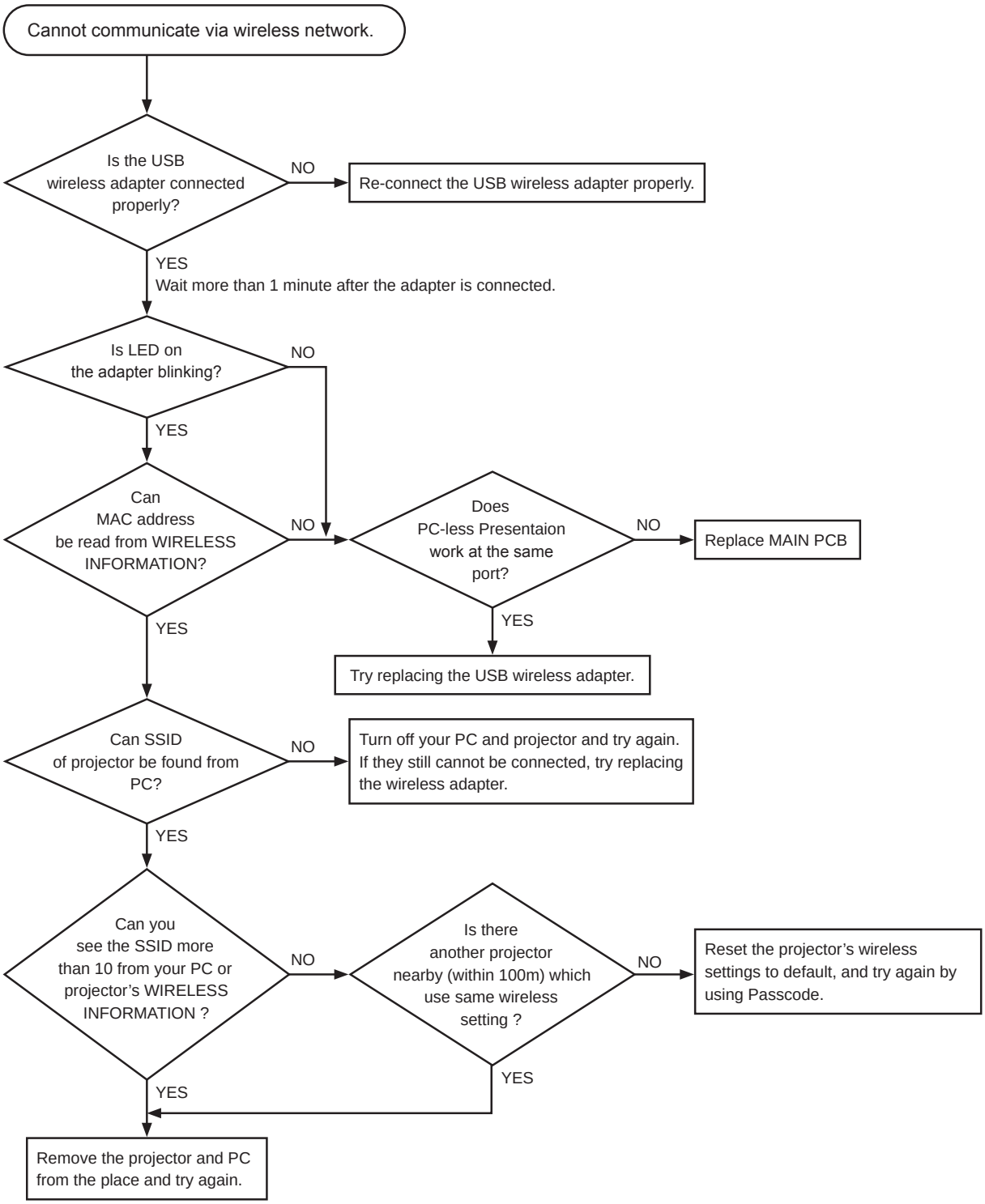


The check after parts change:

1. PC power supply OFF
2. Connection of cable
3. Projector starting
4. PC starting

* When not operating: PC set up change or cable change.


Cannot communicate via wired network.
Does the LED on lower right of the LAN port light in green?
NO
Is the STANDBY MODE setting "NORMAL"?
NO
Set the STANDBY MODE as "NORMAL" in the SETUP menu.
YES
YES
Is the PC connected with the projector directly?
NO
Check the network hardware.
YES
Are there any damage to the LAN cable?
NO
Replace MAIN PCB.
YES
Use new LAN cable.
Are both of IP address and Subnet mask in the WIRED INFORMATION set to "0.0.0.0" after waiting more than 1 minute?
NO
Are the network addresses of PC and projector same?
NO
Use the same network address on PC and projector.
YES
Replace MAIN PCB.
YES
Is the DHCP in the NETWORK - WIRED SETUP menu set to "ON"?
NO
YES
Is there DHCP server on the network which the projector is connected to?
NO
Set IP address and Subnet Mask in the NETWORK - WIRED SETUP menu.
YES
Make sure those settings of the projector and PC are correct.


Cannot communicate via wireless network.
Is the USB wireless adapter connected properly?
NO
Re-connect the USB wireless adapter properly.
YES
Wait more than 1 minute after the adapter is connected.
Is LED on the adapter blinking?
NO
YES
Can MAC address be read from WIRELESS INFORMATION?
NO
Does PC-less Presentaion work at the same port?
NO
Replace MAIN PCB
YES
Try replacing the USB wireless adapter.
YES
Can SSID of projector be found from PC?
NO
Turn off your PC and projector and try again. If they still cannot be connected, try replacing the wireless adapter.
YES
Can you see the SSID more than 10 from your PC or projector's WIRELESS INFORMATION ?
NO
Is there another projector nearby (within 100m) which use same wireless setting ?
NO
Reset the projector's wireless settings to default, and try again by using Passcode.
YES
YES
Remove the projector and PC from the place and try again.

■ Troubleshooting for other Network problems

Problem		Likely Cause	Things to Check
No image		The projector is not turned on.	Is the projector's lamp on?
		The projector's input source isn't switched properly.	Is the proper input channel is selected? LAN: PC screen display via wired/wireless LAN
Projector does not work when the network cable is connected.		The network packet congestion is occurred.	Check the cable connection diagram making sure no "ring" or "loop" connection is made in the network that the projector is connected to.
Time is not displayed correctly.		The time has not been configured.	Set the Date and Time in the OPTION - SCHEDULE menu of the projector.
		The projector displays "2010/1/1 0:00" as the Date and Time in the Network Info after the AC power is cut off because the projector has no battery for the internal clock.	Set the Date and Time in the OPTION - SCHEDULE menu of the projector every time the projector is turned on.
		The time is not adjusted by the Daylight Saving Time correctly.	Configure the Daylight Saving Time in the Date/Time Settings with a web browser.
		The projector cannot get the time from SNTP server.	Check the projector is connected to the network correctly. Configure the correct SNTP server address in the Date/Time Settings with a web browser.
		The Time Difference is not configured correctly.	Configure the Time Difference, and then do the Current Date and the Current Time in the Date/Time Settings with a web browser.
Connection to the Network	The projector that you want to connect to is nowhere to be found on the list of available projectors.	The PC and/or projector's network settings are not configured correctly.	Check the network configurations of the PC and projector. If you change the projector's settings, turn off the projector's AC power and then turn it on again. If you simply put the projector in STANDBY power mode and then turn it on again, the new settings might not take effect.
		Firewall software other than Windows Firewall is installed in your PC.	Refer to the manual for the firewall software and take one of the following actions: - Exclude the "LiveViewer" from blocking item list - Disable the firewall while using the "LiveViewer"
	Can't communicate	The PC and/or projector's network settings are not configured correctly.	Check the network configurations of the PC and projector.
		An access point is used, and your PC is connected to the access point via wireless LAN.	Use network utilities that may come with your PC or wireless LAN card to establish wireless network connection. For detail, refer to the manual of the PC or the card.
		Security software is blocking network communication.	Change the security setting to allow "LiveViewer" to use.
		The number of PC connection exceeds the limit (max. 50).	Try again after one of session is disconnected. (finish "LiveViewer" application)

(continued on next page)

Troubleshooting for other Network problems (continued)

	Problem	Likely Cause	Things to Check
Network Presentation	Can't Install "LiveViewer"	The "LiveViewer" does not work on Windows Vista without any Service Pack.	Apply the latest Service Pack to your PC.
	The projected image is rather slow compared to that of the PC.	The projector isn't capable of relaying dynamic images such as PowerPoint® animation at full speed.	Switching the priority to 'Transmission Speed' under the options menu may help to improve speed.
		The compression rate being used for transferring the images is too low.	Switching the priority to 'Transmission Speed' under the options menu may help to improve speed.
	No Image	Using screensaver with password.	The "LiveViewer" cannot send PC screen data while using screensaver with password.
	Can't display the movies correctly.	In some combinations of PC's video card and application software, the true image, especially movies played by media player, might not be transferred to the projector with the "LiveViewer".	If there is a video acceleration level adjustment function in your application, please try to adjust it. Refer your application manual in detail.
		The LiveViewer can't transfer movie when DFMirage driver was installed.	Remove DFMirage driver when you need to display movie with LiveViewer.
	Network connection between the PC and projector is disconnected when PC screen resolution is changed during Network Presentation.	The PC-Projector network connection might be disconnected when PC screen resolution is changed while displaying picture. Please re-connect them.	"Connect button" after changing PC screen resolution, or change display resolution before connecting with the "LiveViewer".
	Images contain lots of interference.	The compression rate being used for transferring the images is too high.	Try setting the priority to 'Image Quality' in the "LiveViewer" Option menu. You may experience a drop in speed.
	Neither transparency nor translucency effects (Glass)	Using the "LiveViewer" with Windows Aero® mode.	The "LiveViewer" does not support these features of Windows Vista Aero.

NOTE:

It is recommended to refer the section "Troubleshooting" in the latest version of User's Manual - Operating Guide, Network Guide and the User's manual of "LiveViewer" from web site.

6. Service points

6-1 Lead free solder [CAUTION]

This product uses lead free solder (unleaded) to help preserve the environment. Please read these instructions before attempting any soldering work.

⚠ CAUTION
Always wear safety glasses to prevent fumes or molten solder from getting into the eyes. Lead free solder can splatter at high temperatures (600˚C).

● **Lead free solder indicator**

Printed circuit boards using lead free solder are engraved with an "F" or "LF".

● **Properties of lead free solder**

The melting point of lead free solder is 40-50˚C higher than leaded solder.

● **Servicing solder**

Solder with an alloy composition of Sn-3.0Ag-0.5Cu or Sn-0.7Cu is recommended.
Although servicing with leaded solder is possible, there are a few precautions that have to be taken. (Not taking these precautions may cause the solder to not harden properly, and lead to consequent malfunctions.)

● **Precautions when using leaded solder**

- Remove all lead free solder from soldered joints when replacing components.
- If leaded solder should be added to existing lead free joints, mix in the leaded solder thoroughly after the lead free solder has been completely melted (do not apply the soldering iron without solder).

● **Servicing soldering iron**

A soldering iron with a temperature setting capability (temperature control function) is recommended.
The melting point of lead free solder is higher than leaded solder. Use a soldering iron that maintains a high stable temperature (large heat capacity), and that allows temperature adjustment according to the part being serviced, to avoid poor servicing performance.

● **Recommended soldering iron:**

Soldering iron with temperature control function (temperature range: 320-450˚C)

● **Recommended temperature range per part:**

Part	Soldering iron temperature
Mounting (chips) on mounted PCB	320˚C±30˚C
Mounting (chips) on empty PCB	380˚C±30˚C
Chassis, metallic shield, etc.	420˚C±30˚C

6-2 Articles necessary to your maintenance and repair works

In this projector, adhesive tapes and cable ties are used for the purpose of fastening and tying the wires. Once you remove the tapes or unfasten the cable ties, you may not reuse them. We recommend you to prepare such articles, in advance.

ATTENTION
This projector is compliant with RoHS. Therefore, it is recommended to use the articles compliant with RoHS in the maintenance and repair works. Be sure to use the articles with similar performances to the original.

Adhesive tape recommended for your works

Item	Product
Acetate cloth tape (black)	NITTO tape no.5 (W=9mm)
	NITTO tape no.5 (W=20mm)
Glass cloth tape (white)	NITTO tape no.188UL (W=15mm)

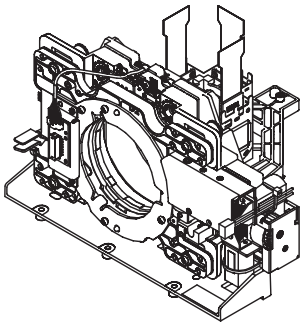
Use cable ties W≈2.5mm with 94HB or upper grade of UL 94 flame rating.
Recommended material is as below;

- Zytel 101, E. I. du Pont de Nemours & Company (Inc)
- Leona 1300S, Asahi Kasei Chemicals Corporation

6-3 Before Replacing the LCD Prism Shift mech. assembly

⚠ CAUTION
Make sure not to let a screwdriver touch LCD panels when you replace a LCD Prism Shift mech. assembly with a new one.

You should not replace separately the parts of the LCD Prism Shift mech. assembly. In case of a failure in any parts of LCD Prism Shift mech. assembly, replace the whole unit.



Do not disassemble the unit because replacement of separate parts is not possible.

6-4 Cleaning the dust off the panels and optical filters

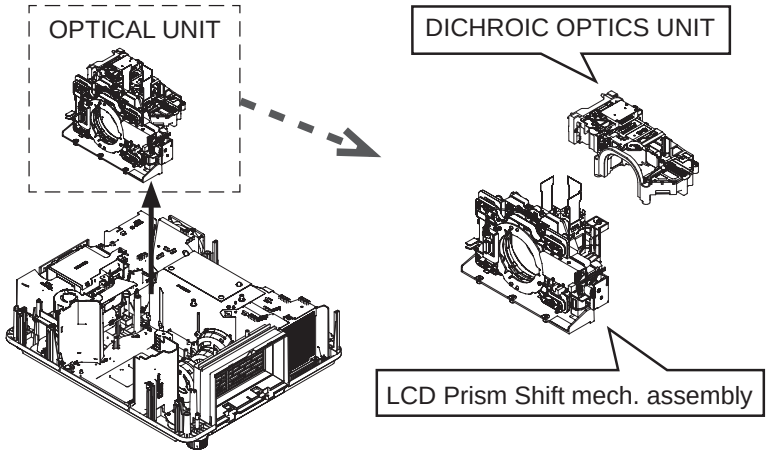
1. Preparation

Please prepare cleaning tools and materials as follows. And prepare relatively clean room not to work in additional dust, while removing operation.

- Swab for cleaning : NX32451, COTTON STICK BB-014
- Air duster (Dust blower, spray can)
- Vacuum cleaner

2. Disassembling and setting up

1) Turn off the projector and unplug the power cord. Wait at least 45 minutes for cooling down.
2) Remove the FRONT COVER, LENS and UPPER CASE in accordance with the instructions for the chapter ***Disassembly diagram***.
3) Disconnect the LCD panel flexible cables and all the other cables from the MAIN PCB, and take it off from the projector.
4) Remove the OPTICAL UNIT from the projector, and separate the LCD Prism Shift mech. assembly.



ATTENTION

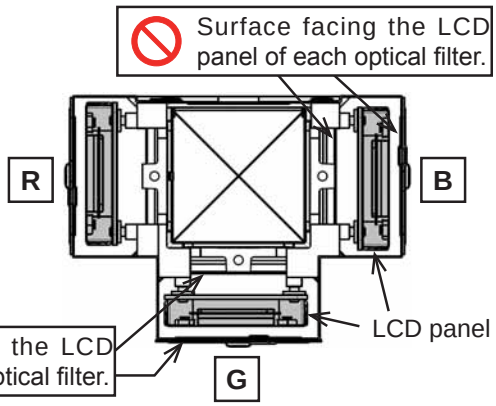
Make sure to see the instructions of "**OPTICAL UNIT**" in the chapter ***Disassembly diagram*** before these works. Never remove any screws other than the specified. Otherwise, the optical performance may become worse.

3. Cleaning the panels and optical filters

⚠ CAUTION

Pay attention not to damage panels and optical filters. Especially, do not touch or wipe the surfaces of the optical filters mentioned below when cleaning the LCD panels.

- Optical filters on both sides of the LCD panel for B color.
- Optical filters on both sides of the LCD panel for G color.

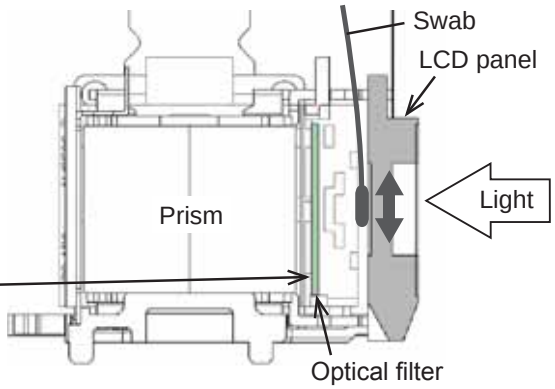


Blow the dust off from LCD panels and optical filters using an air duster.
If you cannot remove the dust on LCD panels with an air blower, wipe the surface of LCD panels with a swab according the following procedure.

● **Cleaning the exit-side (prism-side) of LCD panel**

Insert a swab between the LCD panel and the optical filter located on the exit-side of LCD panel with special care.

Cross section of LCD/prism



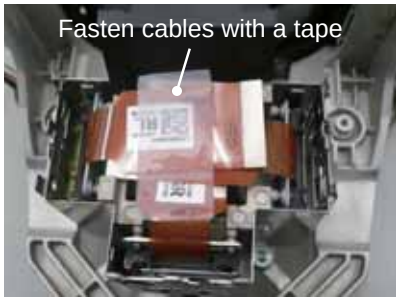
Never touch or wipe the LCD panel side of the optical filters located on the B and G light paths.

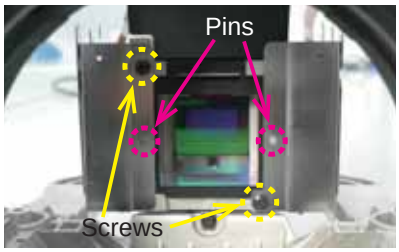
● **Cleaning the entry-side of LCD panel**

Remove the entry-side optical filter, and then wipe the entry-side surface of LCD panel.

⚠ CAUTION

Disassemble and re-assemble with care to avoid touching the optical filters with finger and touching the inner side of optical filters on B and G color paths with any parts. Check that any of finger print, dirt or scratch is not on the surfaces of optical parts after the work.



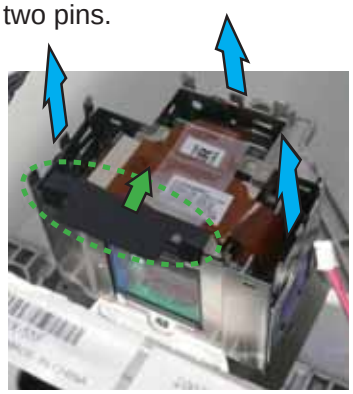


1) Fold and fasten the panel flexible cables with weakly adhesive tape as shown in the picture. This work is important in order to prevent the entry-side optical filters from touching the flexible cables when removing the entry-side optical filter block.
2) Remove two screws.
(M2.5x10, black, tightening torque: 0.15±0.03 N·m)

ATTENTION

Pay attention not to damage optical parts with screwdriver or removed screws.

3) Slightly shift the ends of the entry-side optical filter to the lens-hole side to release it from two pins.
4) Pressing the sheet attached to LPA, lift and separate the entry-side optical filter from the other carefully.



5) Wipe the entry-side surface of LCD panel with a swab to clean up.
6) Re-assemble the LCD prism Shift mech. assembly in reverse order.

4. Re-assembly

1) Combine the LCD Prism Shift mech. assembly with the DICHROIC OPTICS UNIT, and attach it to the projector.
2) Screw down the MAIN PCB, and re-connect all of the cables to it.
3) Clean the air filter by using a vacuum cleaner, and re-assemble the projector unit.

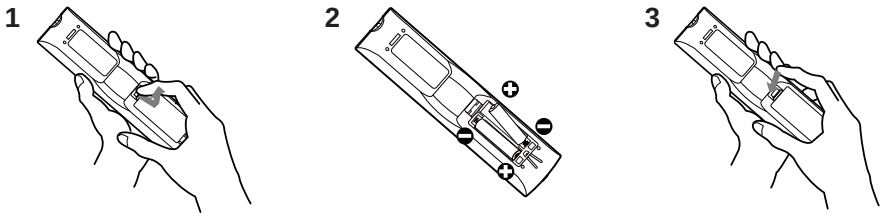
6-5 Installing the Batteries

⚠ WARNING

Always handle the batteries with care and use them only as directed. Improper use may result in battery explosion, cracking or leakage, which could result in fire, injury and/or pollution of the surrounding environment.
• Be sure to use only the batteries specified. Do not use batteries of different types at the same time. Do not mix a new battery with used one.
• Make sure the plus and minus terminals are correctly aligned when loading a battery.
• Keep a battery away from children and pets.
• Do not recharge, short circuit, solder or disassemble a battery.
• Do not place a battery in a fire or water. Keep batteries in a dark, cool and dry place.
• If you observe battery leakage, wipe out the leakage and then replace a battery. If the leakage adheres to your body or clothes, rinse well with water immediately.
• Obey the local laws on disposing the battery.

Insert the batteries into the remote control before using it. If the remote control starts to malfunction, replace the batteries. If not using the remote control for long period, remove the batteries from the remote control and store them in a safe place.

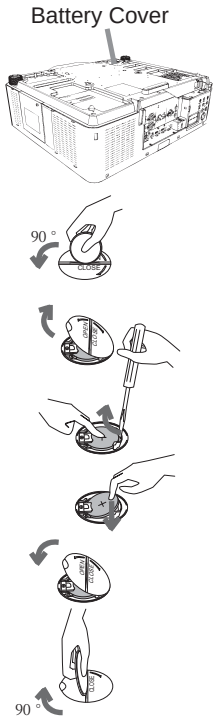
1. Holding the hook part of the battery cover, remove it.
2. Align and insert the two AA batteries according to their plus and minus terminals as indicated in the remote control. (Use the appropriate AA carbon-zinc or alkaline batteries (non-rechargeable) according to laws and regulations.)
3. Replace the battery cover in the direction of the arrow and snap it back into place.



■ Replacing the internal clock battery

Replace a battery according to the following procedure.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector has cooled adequately, slowly turn over the projector, so that the bottom is facing up.
3. Turn the battery cover fully in the direction indicated “OPEN” using a coin, and pick the cover up to remove it.
4. Pry up the battery using a flathead screwdriver to take it out. While prying it up, put a finger lightly on the battery as it may pop out of the holder.
5. Replace the battery with a new HITACHI MAXELL, Part No.CR2032 or CR2032H. Slide the battery in under the plastic claw, and push it into the holder until it clicks.
6. Replace the battery cover in place, then turn it in the direction indicated “CLOSE” using a coin.

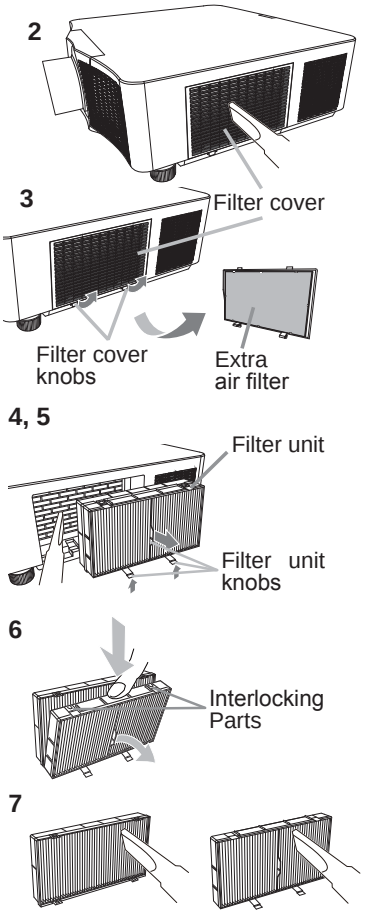


6-6 Air filter

■ Cleaning and replacing the air filter

Check and clean the air filter periodically. When the indicators or a message prompts you to clean the air filter, comply with it as soon as possible.
The filter unit with two sheets of filters is inside of the filter cover. The extra air filter is attached to inner side of the filter cover. If one of the filters is damaged or heavily soiled, replace whole filter set with a new one. Request for a filter set with the following type number from your dealer when purchasing a new one.

1. Turn the projector off, and unplug the power cord. Allow the projector to sufficiently cool down.
2. Use a vacuum cleaner on and around the filter cover.
3. Pick and pull up the filter cover knobs to take it off.
4. Press up slightly on the bottom side knobs to unlock the bottom side of the filter unit. Pull the center knob to take the filter unit off.
5. Use a vacuum cleaner to clean the filter vent of the projector and the outer side of the filter unit.
6. The filter unit consists of two parts. Press down around the interlocking parts to unlock, then separate the two parts.
7. Use a vacuum cleaner to clean the inner side of each part of the filter unit to clean them up. If the filters are damaged or heavily soiled, replace them with the new ones.
8. Combine the two parts to reassemble the filter unit.
9. Put the filter unit back into the projector.
10. Put the filter cover back into the place.
11. Turn the projector on and reset the filter hours using the FILTER HOURS item in the EASY MENU.
    (1) Press the MENU button to display a menu.
    (2) Point at the FILTER HOURS using the ▲/▼ cursor buttons, then press the ► cursor (or the ENTER / the RESET) button. A dialog appears.
    (3) Press the ► cursor button to select the “OK” on the dialog. It performs resetting the filter hours.



Type number : 003-005339-01

NOTE:

- Reset the filter hours only when you have cleaned or replaced the air filter, for a suitable indication about the air filter.
- The projector may display the message such as the “CHECK THE AIR FLOW” or turn off the projector, to prevent the internal heat level rising.

⚠ WARNING

Before taking care of the air filter, make sure the power cable is not plugged in, then allow the projector to cool sufficiently.

⚠ CAUTION

- Use only the air filter of the specified type. Do not use the projector without the air filter or the filter cover. It could result in a fire or malfunction to the projector.
- Clean the air filter periodically. If the air filter becomes clogged by dust or the like, internal temperatures rise and could cause a fire, a burn or malfunction to the projector.

6-7 Lamp

■ Lamp warning

⚠ WARNING ⚠ HIGH VOLTAGE ⚠ HIGH TEMPERATURE ⚠ HIGH PRESSURE	
The projector uses a high-pressure mercury lamp. The lamp can break with a loud bang, or burn out, if jolted or scratched, handled while hot, or worn over time. Note that each lamp has a different lifetime, and some may burst or burn out soon after you start using them. In addition, if the bulb bursts, it is possible for shards of glass to fly into the lamp housing, and for gas containing mercury and dust containing fine particles of glass to escape from the projector's vent holes. ►**About disposal of a lamp:** This product contains a mercury lamp; do not put it in a trash. Dispose of it in accordance with environmental laws. • For lamp recycling, go to www.lamprecycle.org (in the US). • For product disposal, consult your local government agency or www.eiae.org (in the US) or www.epsc.ca (in Canada). For more information, call your dealer.	
 Disconnect the plug from the power outlet	• If the lamp should break (it will make a loud bang when it does), unplug the power cord from the outlet. Note that shards of glass could damage the projector's internals, or cause injury during handling. • If the lamp should break (it will make a loud bang when it does), ventilate the room well, and make sure not to inhale the gas or fine particles that come out from the projector's vent holes, and not to get them into your eyes or mouth. • Before replacing the LAMP UNIT, turn the projector off and unplug the power cord, then wait at least 45 minutes for the lamp to cool sufficiently. Handling the LAMP UNIT while hot can cause burns, as well as damaging the lamp.
	• Never unscrew except the appointed (marked by an arrow) screws. • Do not use the projector with the LAMP DOOR removed. At the LAMP UNIT replacing, make sure that the screws are screwed in firmly. Loose screws could result in damage or injury.
	• Use only the LAMP UNIT of the specified type. Use of a LAMP UNIT that does not meet the lamp specifications for this model could cause a fire, damage or shorten the life of this product. • If the lamp breaks soon after the first time it is used, it is possible that there are electrical problems elsewhere besides the lamp. If this happens, consult your local dealer or a service representative. • Handle with care: jolting or scratching could cause the lamp bulb to burst during use. • Using the lamp for long periods of time, could cause it dark, not to light up or to burst. When the pictures appear dark, or when the color tone is poor, please replace the LAMP UNIT as soon as possible. Do not use old (used) lamps; this is a cause of breakage.

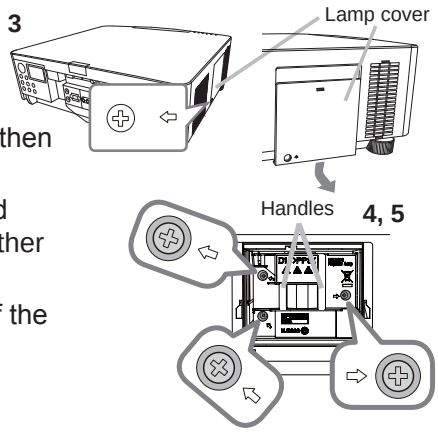
■ **Replacing the LAMP UNIT**

A lamp has finite product life. Using the lamp for long periods of time could cause the pictures darker or the color tone poor. Each lamp has a different lifetime, and some may burst or burn out soon after you start using them.

New lamp preparation and early replacement are recommended.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool for at least 45 minutes.
2. Prepare a new lamp.
3. Loosen the screw (marked by arrow) of the lamp cover and then slide down and lift the lamp cover to remove it.
4. Loosen the three screws (marked by arrow) of the lamp, and slowly pull the lamp out by the handles. Never loosen any other screws.
5. Insert the new lamp, and firmly retighten the three screws of the lamp loosened in the previous step to lock it in place.

   Type number : 003-005336-01 <LWU701i/LW751i/LX801i>,
   003-005337-01 <LWU601i/LW651i>

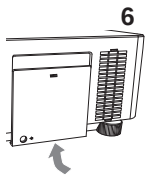


ATTENTION

LAMP UNIT attachment work when the projector is upside down like a ceiling mount position

- Place the top of the LAMP UNIT into the guide of the LAMP HOUSE.
- Slowly slide the LAMP UNIT into place to set with the top of the LAMP UNIT on the inner surface of the LAMP HOUSE.

6. While putting the interlocking parts of the lamp cover and the projector together, slide the lamp cover back in place. Then firmly fasten the screw of the lamp cover. (Torque : 0.49±0.1N·m)
7. Turn the projector on and reset the lamp time using the LAMP HOURS item in the SETUP menu.



   (1) Press the MENU button to display a menu.
   (2) Point at the ADVANCED MENU in the menu using the ▼/▲ button, then press the ► button.
   (3) Point at the SETUP in the left column of the menu using the ▼/▲button, then press the ► button.
   (4) Point at the LAMP HOURS using the ▼/▲ button, then press the ► button. A dialog appears.
   (5) Press the ► button to select “OK” on the dialog. It performs resetting the lamp time.

NOTE:

• Reset the lamp time only when you have replaced the lamp, for a suitable indication about the lamp.

⚠ CAUTION

Do not touch the inside of the projector, while the lamp is taken out.

6-8 Other care

⚠ WARNING

Before caring, make sure the power cable is not plugged in, and then allow the projector to cool sufficiently. The care in a high temperature state of the projector could cause a burn and/or malfunction to the projector.
Avoid wetting the projector or inserting liquids in the projector. It could result in a fire, an electric shock, and/or malfunction to the projector.
• Don't put a container containing water, cleaner or chemicals near the projector.
• Don't use aerosols or sprays.

⚠ CAUTION

Please take right care of the projector according to the following. Incorrect care could cause not only an injury but adverse influence such as discoloration, peeling paint, etc.
• Do not use cleaner or chemicals other than those listed below.
• Do not polish or wipe with hard objects.

● **Inside of the projector**

In order to ensure the safe use of the projector, it needs to clean and inspect the projector about once a year.

● **Caring for the lens**

If the lens is flawed, soiled or fogged, it could cause deterioration of display quality. Please take care of the lens, being cautions of the handling.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector is cool adequately, lightly wipe the lens with a commercially available lens-cleaning wipe. Do not touch the lens directly with your hand.

● **Caring for the cabinet and remote control**

Incorrect care could have adverse influence such as discoloration, peeling paint, etc.

1. Turn the projector off, and unplug the power cord. Allow the projector to cool sufficiently.
2. After making sure that the projector is cool adequately, lightly wipe with gauze or a soft cloth. If soiling is severe, dip soft cloth in water or a neutral cleaner dilute in water, and wipe lightly after wringing well. Then, wipe lightly with a soft, dry cloth.

6-9 Notice of AUTO adjustment

Use of AUTO adjustment with the image through analog RGB input optimizes V_POSI, H_POSI, and H_PHASE automatically.
In case that display image has dark tone around its peripheral, AUTO operation sometimes makes artifacts in the image, shifts capture area and so on. Those failures are caused by period of image data is not exactly distinguished to period of blanking on signal processing.
To avoid such phenomena, AUTO function should be used with the full size picture that has bright tone on its peripheral.

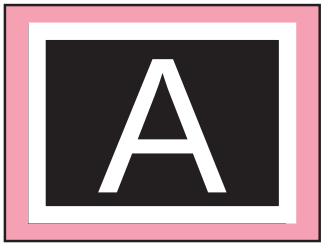


Image when AUTO operates correctly

Image when AUTO fails.
- Noting image of top or bottom lines.
- Shift of the image to East or West.
- Artifacts on image. Etc.

NOTE:
- The phenomenon of the failure of AUTO adjustment depends on resolution of input source, scene of picture etc.
- There is no above failure of AUTO with video source through VIDEO port. The reason is recognition of input signal's standard does not need to search the capture range from input signal itself.

6-10 How to inactivate the security functions

This projector is equipped with security functions as below.

(1) My Screen PASSWORD

The My Screen PASSWORD function can be used to prohibit access to the My Screen function and prevent the currently registered My Screen image from being overwritten.

(2) PIN lock

PIN lock is a function which prevents the projector from being used unless a registered Code is input.

(3) Transition detector

Transition detector is a function which prevents the projector from being used if vertical angle of the projector and INSTALLATION setting is not same with recorded.

Transition Detector Alarm

(4) MY TEXT

This item allows you to display your own message (MY TEXT) on the START UP screen and INPUT_INFORMATION. It can be protected by a password to prevent it from being overwritten.

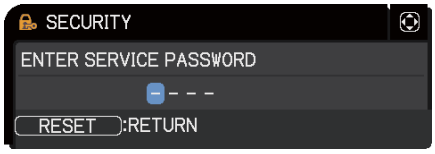
● **Security funtion inactivation**

It is possible to inactivate all security functions temporarily with the following procedures.

1. Open the ADVANCED MENU and select SECURITY - ENTER PASSWORD, and then press the ► button to display the ENTER PASSWORD box.
   (The BOX will be also displayed by pressing the **MENU** button when Transition Detector Alarm is displayed.)

ENTER PASSWORD box

2. Press the **MAGNIFY OFF** button, then re-press and hold the **MAGNIFY OFF** button for 3 second or longer to display ENTER SERVICE PASSWORD box.



ENTER SERVICE PASSWORD box

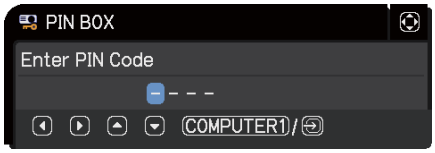
3. Enter the “Life key” (**MENU**, ▼, **KEYSTONE**, ▲). Then all security functions will be inactivated until the projector is turned off.

NOTE:

- The Life key can be used up to 30 times. The key cannot be used thereafter. If the Life key cannot be used, see the paragraph of SECURITY menu in the User’s Manual. The frequency in which Life key is input will be set to 0 after the registered code is input.
- The SECURITY menu can not be operated if the SECURITY PASSWORD was released by Life key.
- The INSTALLATION and the KEYSTONE are not memorized though they are possible to operate if Transition Detector was released by Life key.

6-11 PIN LOCK System

If the following PIN BOX menu appears after power on the projector, the PIN LOCK system has been activated. Under such a condition, key operations and signal displaying are inhibited. To open the PIN LOCK system, we need to input the correct 4 digits PIN Code. If correct PIN Code is not input in 5 min., the lamp will be automatically turned off.



PIN BOX

● **Returning repaired unit**

Use the Master PIN Code (same as “Life key”, **MENU**, ▼, **KEYSTONE**, ▲). In accordance with button entry, “*” mark appears in the PIN BOX menu.

NOTE:

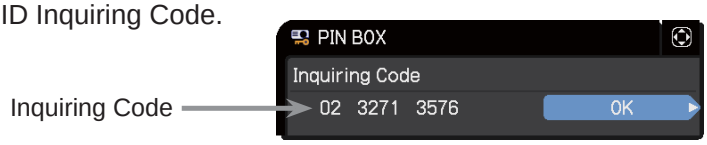
The Master PIN Code can be used up to 30 times. The codes cannot be used thereafter. If the Master PIN Code cannot be used, see the paragraph of the PIN LOCK system inactivation.

● **Swap unit/Returned unit**

Release all security systems. See the paragraph of the PIN LOCK system inactivation.

● **The PIN LOCK system inactivation**

1. When the PIN BOX menu is displayed, press **RESET** button for 3 seconds or more in order to get the ID Inquiring Code.



PIN BOX (ID Inquiring Code)

2. Send CHRISTIE servicing provider the Inquiring code (10 digits) to inquire the correct PIN code.
3. While the PIN BOX is displayed, enter the correct PIN Code that CHRISTIE servicing provider informed.
4. Open menu and select “TURN OFF” from the PIN LOCK items in the SECURITY menu. Then the PIN BOX menu appears.
   Password is required to display the SECURITY menu.
   See the SECURITY menu: User’s Manual - Operating Guide.
5. Input the correct PIN code in the PIN BOX menu.
6. And then, PIN LOCK will be set to “OFF”.
7. Inactivate the My Screen PASSWORD, Transition Detector and My Text PASSWORD as well. And re-set the Security Password to the factory default number as below.

Model	Password
LWU601i/LWU701i	6514
LW651i/LW751i	4814
LX801i	6414

See the SECURITY menu: User’s Manual - Operating Guide.

6-12 Related Messages

When some messages appear, check and deal with it according to the following table. Although these messages automatically disappear after several minutes, they reappear when the power is turned on.

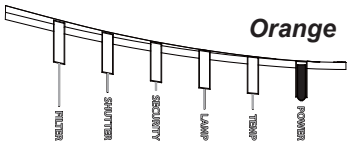
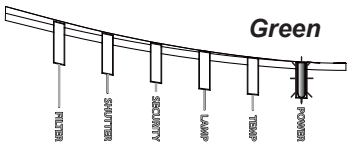
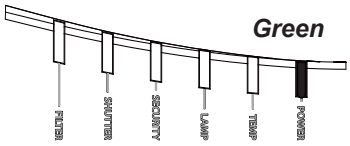
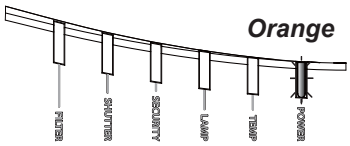
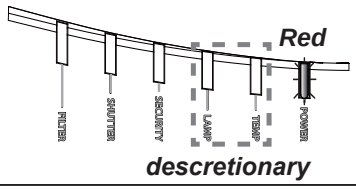
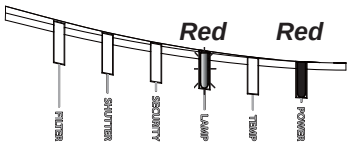
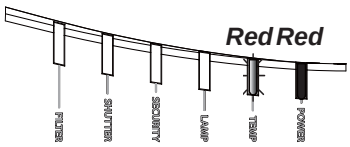
Message	Description
	**There is no input signal.** Confirm the signal input connection, and the status of the signal source.
 	**Projector is waiting for an image file.** Check the hardware connection, settings on the projector and network-related settings. The computer-Projector network connection might be disconnected. Re-connect them.
	**The horizontal or vertical frequency of the input signal is not within the specified range.** Confirm the specs for your projector or the signal source specs.
	**An improper signal is input.** Confirm the specs for your projector or the signal source specs.
	**The internal temperature is rising.** Turn the power off, and allow the projector to cool down at least 20 minutes. After having confirmed the following items, turn the power ON again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Use the unit within the usage temperature parameters (0°C to 40°C or 45°C). • Is the setting for ALTITUDE appropriate? • Is the exhaust air (hot/cold) from peripheral equipments blowing against the ventilation opening of projector? For details of ALTITUDE, refer to ALTITUDE of SERVICE in the OPTION menu. If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.
	**A note of precaution when cleaning the air filter.** Immediately turn the power off, and clean or change the air filter referring to the **Cleaning and replacing the air filter** section of this manual. After you have cleaned or changed the air filter, reset the filter timer.
	**The button operation is not available.** Check the button you want to use.
	When this message is displayed after replacing the ballast, wrong power unit (ballast) has been installed. Install correct ballast after confirming the P# of the power unit (ballast). When this message is displayed at the ordinary use, the power unit (ballast) is out of order. Replace the power unit (ballast).

6-13 Regarding the indicator lamps

The indicators may differ from the usual, check and deal with it according to the following table.

The indicators are described as below.

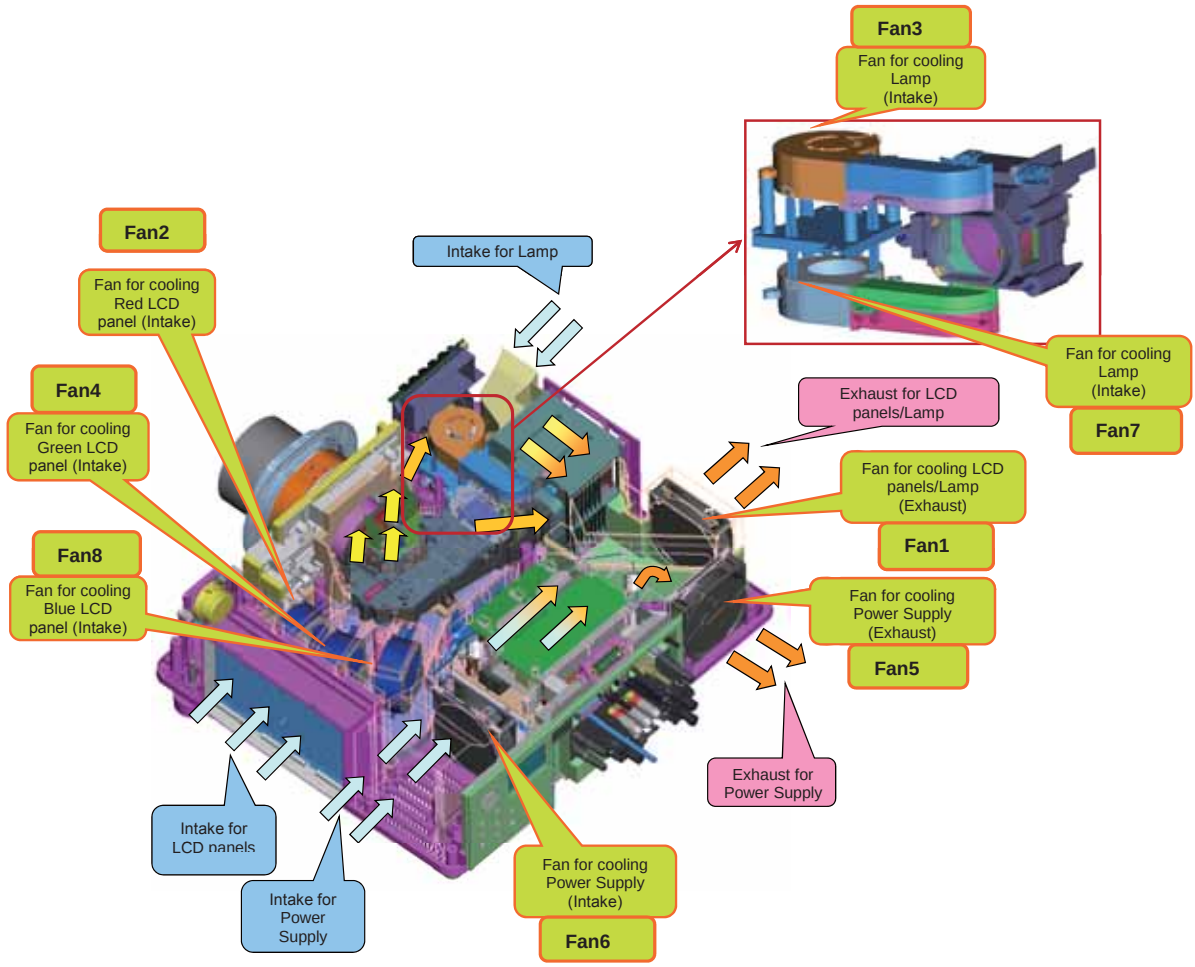
		
Lit Steady light	Blinking	Off

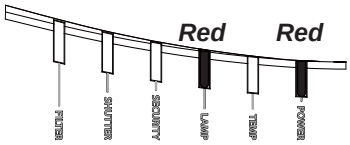
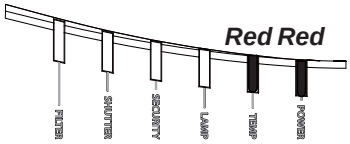
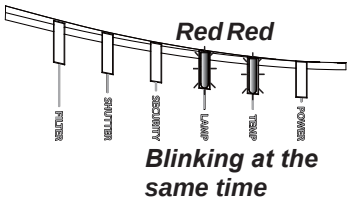
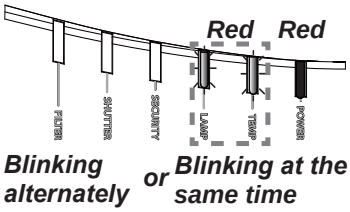
Status Monitor		Indicator Status	Description
Current Status	Log		
			**The projector is in a standby state.**
			**The projector is warming up.** Wait for the projector to warm up.
			**The projector is in an on state.** Ordinary operations may be performed.
			**The projector is cooling down.** Wait for the projector to cool down.
			**The projector is cooling down. A certain error has been detected.** Wait until **POWER** indicator finishes blinking, and then perform the proper measure using the item descriptions below.
COVER	**1 COVER ERR**		**The lamp cover has not been properly fixed.** Turn the power off, and allow the projector to cool down at least 45 minutes. After the projector has sufficiently cooled down, confirm the attachment state of the lamp cover. After performing any needed maintenance, turn the power on again.
FAN*	**2 FAN ERR ***		**The cooling fan is not operating.** Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, confirm that no foreign matter has become caught in the fan, and so on and then turn the power on again.

(continued on next page)

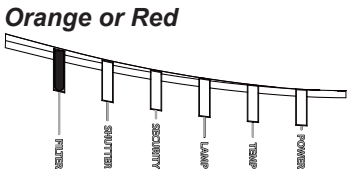
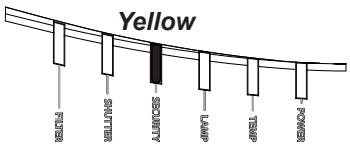
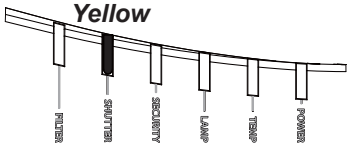
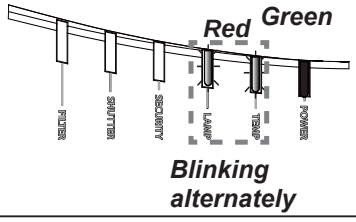
Fan number table for error		Replacement Parts List			
		Symbol No.	PARTS No.	DESCRIPTION	Cushion*
Fan1	Fan for cooling LCD panels/Lamp (Exhaust)	21	GS02301	DC FAN 9GA09P-PWM-Z4L171	MU06871 (8pcs)
Fan2	Fan for cooling Red LCD panel (Intake)	17	GS02291	DC FAN CY8028PWM-Z4-L301	MS03172, MU06871
Fan3	Fan for cooling Lamp (Intake)	18	GS01962	DC FAN CY6023RPWM-G4L251	
Fan4	Fan for cooling Green LCD panel (Intake)	17	GS02291	DC FAN CY8028PWM-Z4-L301	MS03172, MU06871
Fan5	Fan for cooling Power Supply (Exhaust)	20	GS01951	DC FAN T92T13PWM-Z4-L191	
Fan6	Fan for cooling Power Supply (Intake)	20	GS01951	DC FAN T92T13PWM-Z4-L191	
Fan7	Fan for cooling Lamp (Intake)	19	GS01972	DC FAN CY6023LPWM-Z5L221	
Fan8	Fan for cooling Blue LCD panel (Intake)	17	GS02291	DC FAN CY8028PWM-Z4-L301	MS03172, MU06871

* Cushion needs to be replaced at same time with fan.



Status Monitor		Indicator Status	Description
Current Status	Log		
LAMP or ACBLK	**3 LAMP ERR or 96 ACBLK ERR**		**The lamp does not light, and there is a possibility that interior portion has become heated. Otherwise, AC power supply is unstable (ACBLK).** Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, confirm the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Use the unit within the temperature range. NORMAL MODE: 0 to 40°C ECO MODE: 0 to 45°C Turn the power on again. When the lamp turns off in about 1 minute after the message "Please confirm ballast." is displayed, wrong power unit (ballast) has been installed. Install correct ballast after confirming the P# of the power unit (ballast). If the same indication is displayed after the remedy, change the lamp referring to the section **Replacing the LAMP UNIT**.
TEMP	**4 TEMP ERR**		**The interior portion has become heated.** Turn the power off, and allow the projector to cool down at least 20 minutes. After the projector has sufficiently cooled down, confirm the following items, and then turn the power on again. • Is there blockage of the air passage aperture? • Is the air filter dirty? • Use the unit within the temperature range. NORMAL MODE: 0 to 40°C ECO MODE: 0 to 45°C • Is the setting for ALTITUDE appropriate? • Is the exhaust air (hot/cold) from peripheral equipments blowing against the ventilation opening of projector? For details on ALTITUDE, refer to ALTITUDE of SERVICE in the OPTION menu. If the projector is used with a wrong setting, it may cause damage to the projector itself or the parts inside.
FILTR	**8 FILTR ERR**		**It is time to clean the air filter.** Turn the power off immediately, and clean or change the air filter referring to the section **Cleaning and replacing the air filter**. After cleaning or changing the air filter, reset the filter timer. After the remedy, restart the projector.
OTHER	**64 OTHER ERR**		**Other error has occured.** • Use the unit within the temperature range. NORMAL MODE: 0 to 40°C ECO MODE: 0 to 45°C

(continued on next page)

Status Monitor		Indicator Status	Description
Current Status	Log		
AIR	5 AIRFLOW ERR		**The air filter is clogged or dirty.** Check and clean the air filter. Make sure the power cable is not plugged in, then allow the projector to cool sufficiently. See the section "There is a possibility that the interior portion has become heated".
			**PIN LOCK function is active.** Please refer to the section **How to inactivate the security functions and PIN LOCK System,** or the chapter SECURITY menu in the User's Manual.
SHUTR	15 SHUTTER ER		**The mechanical shutter is closed.** Press the SHUTTER button on the remote control or on the control panel to open the mechanical shutter.
COLD	7 COLD ERR or 10 COLD ERR		**There is a possibility that the interior portion has become overcooled.** • Use the unit within the temperature range. NORMAL MODE: 0 to 40°C ECO MODE: 0 to 45°C

For the **SECURITY** indicator, see SECURITY INDICATOR in the SECURITY menu in the User's Manual.

For the **SHUTTER** indicator, see the section "**Temporarily shading the screen**" in the User's Manual.

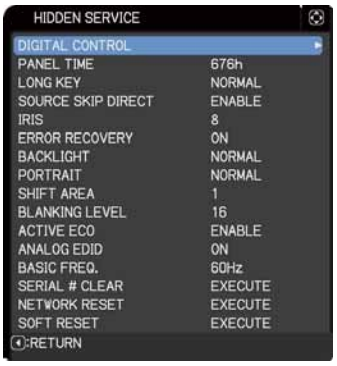
The **FILTER** indicator shows the condition of the air filter. Use this feature to keep the interior of the projector in good condition.

FILTER indicator	Description
Turned **off**	**The air filter is clean.** No need to clean up.
Lighting In **Orange**	**The air filter is going to be choked.** Clean the filter. See the section "There is a possibility that the interior portion has become heated".
Lighting In **Red**	**The air filter is choked.** Turn the power off and clean the air filter immediately. See the section "There is a possibility that the interior portion has become heated".

NOTE:

- When the interior portion has become overheated, for safety purposes, the projector is automatically shut down, and the indicator lamps may also be turned off. In such a case, disconnect the power cord, and wait at least 45 minutes. After the projector has sufficiently cooled down, confirm the attachment state of the lamp and lamp cover, and turn the power on again.
- The **FILTER** indicator might light up in orange or red when something blocks the intake vents even though the air filter is clean.
- The **FILTER** indicator might light up differently from other indicators or display messages related to cleaning the air filter. Follow the prompt that is displayed earlier.

6-14 HIDDEN SERVICE MENU



HIDDEN SERVICE menu

With the control panel	With the remote control
1. Press the **MENU** button to display the ADVANCED MENU. (If EASY MENU appears, choose ADVANCED MENU.) 2. Select the OPTION on the menu. 3. Press the ◄ button first, then press and hold the ◄ and **INPUT** buttons for 3 seconds.	1. Press the **MENU** button to display the ADVANCED MENU. (If EASY MENU appears, choose ADVANCED MENU.) 2. Select the OPTION on the menu. 3. Press the **MAGNIFY OFF** button, then re-press and hold the button for 3 seconds.

- **DIGITAL CONTROL**
  Setup for the each of HDMI1 and HDMI2 ports.
  1 :Suitable for computer signals ↔ 2 :Suitable for DVD signals
- **PANEL TIME**
  Use time of LCD panel. Reset the PANEL TIME whenever you changed the LCD prism assembly.
- **LONG KEY**
  You can select the remote control button operation mode. NORMAL ↔ LONG
  The LONG allows to control the projector with the remote control unit when you hold a button of it for about 3 seconds, and makes MY BUTTON function as LONG KEY DISABLE/LONG KEY ENABLE compulsorily. If you use these buttons to control the projector as you assigned with the MY BUTTON menu, set to the NORMAL.
- **SOURCE SKIP DIRECT**
  ENABLE : React direct key input to which skip is set in OPTION menu.
  DISABLE : Ignore direct key input to which skip is set in OPTION menu.
- **IRIS**
  Adjusts the active iris sensitivity.
- **ERROR RECOVERY**
  OFF :You need to unplug the projector's power cord to get back from the standby state with an alert of LAMP ERROR or TEMPERATURE ERROR.
  ON :You can get back the projector from the standby state with an alert of LAMP ERROR or TEMPERATURE ERROR by holding the **STANDBY/ON** button for about 3 seconds. Unplug the projector's power cord when this operation becomes ineffective.
- **BACKLIGHT**
  Set the BACKLIGHT of STATUS MONITOR to NORMAL (lighting as normal operation) or FIXED ON (always lighting).
- **PORTRAIT**
  NORMAL : Operates as normal mode.
  OFF : Makes portrait function disabled forcibly.
- **SHIFT AREA**
  You can switch the size of OSD during LENS SHIFT adjustment. 1 :SMALL ↔ 2 :LARGE
- **BLANKING LEVEL**
  Adjusts the picture quality of LCD panel. Set to 16, the default value.
- **ACTIVE ECO**
  This function is enabled or disabled. Keep this item setting to 'ENABLE'.

(continued on next page)

- **ANALOG EDID**

  ON : Enables EDID of Computer in 2

  OFF : Disables EDID of Computer in 2

- **BASIC FREQ.**

  Switches the basic vertical frequency for the output image of this projector.

  50Hz (PAL region) ←→ 60Hz (NTSC region)

- **SERIAL # CLEAR**

  Executing this item makes the serial # in the EASY MENU disappear. It is impossible to display the serial # again once you do this operation. Do not execute this item in any cases except when you use the MAIN PCB taken from one projector for another in repair work.

- **NETWORK RESET**

  If this is executed, all of the network settings are initialized.

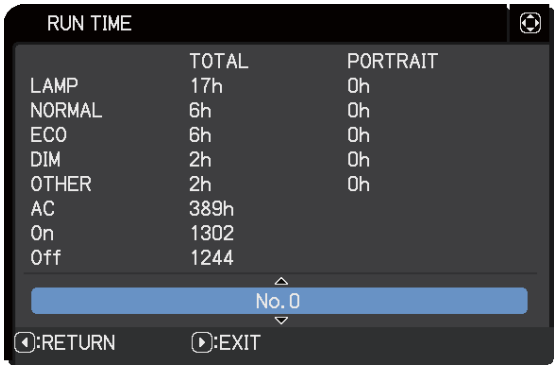
- **SOFT RESET**

  When this is executed, all of the user data is initialized. Never use it if not required.

6-15 RUN TIME window

- **The product operating time display method (accumulated lamp hours display method)**

1. Open the ADVANCED MENU and select SETUP - LAMP & FILTER - LAMP HOURS, and then press the ►, **ENTER** or **RESET** button to display the LAMP HOURS reset box.
2. Press the **RESET** button once, then press **KEYSTONE** button of the remote control for 3 seconds or more to display the screen shown below. The menu will close after 10 seconds if there are no further operations.
3. Use ▲/▼ buttons to select the usage status number. (The usage status is as shown below.)



RUN TIME window

← Lamp hours
← Lamp hours (NORMAL)
← Lamp hours (ECO)
← Lamp hours (other modes)
← AC energizing time
← Number of times on
← Number of times off

← Usage status number

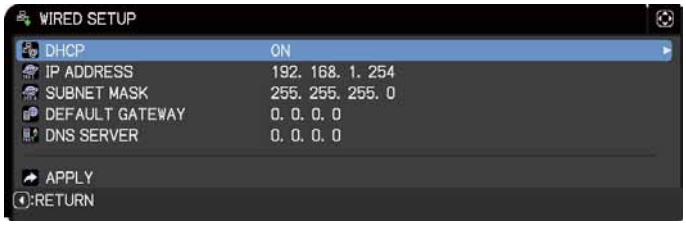
0 ..... Total usage status
1 ..... Current usage status
2 ..... Usage status before first reset
3 ..... Usage status before second reset
||
9 ..... Usage status before eighth reset

6-16 Reset of the Network Web password / User ID, Network Control password

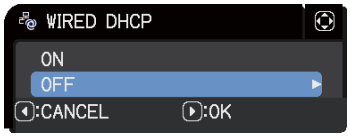
ATTENTION

Performing this operation initializes the network settings. If the projector has the customized settings in the network, make a note of the network settings to restore them before this operation.

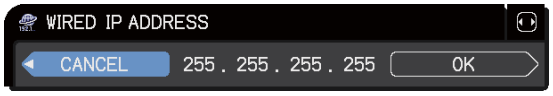
1. Display the WIRED SETUP in the NETWORK menu.



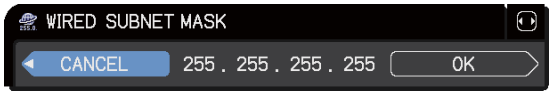
2. Select “OFF” in the item of DHCP.



3. Enter “255.255.255.255” in the item of IP ADDRESS.

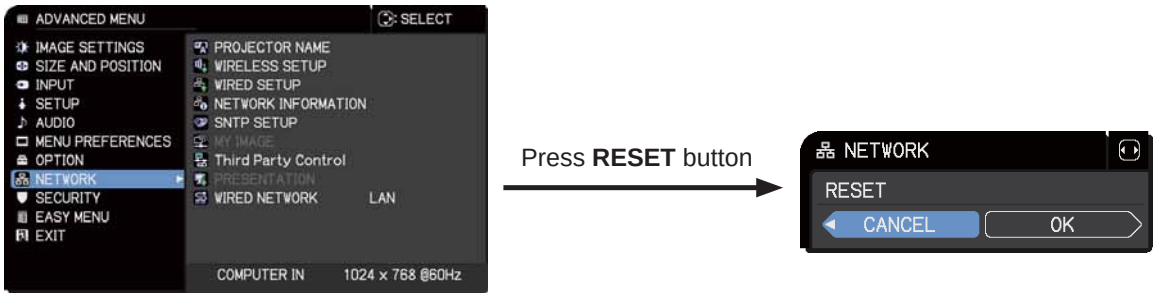


4. Enter “255.255.255.255” in the item of SUBNET MASK.



5. Enter “255.255.255.255” in the item of DEFAULT GATEWAY.

6. While NETWORK on the left column is highlighted, press the **RESET** button.

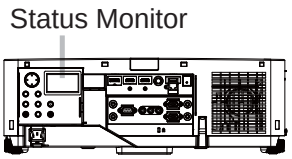


7. Select OK, and press ► button to execute reset.
   The operation described above resets not only Web password but also NETWORK settings.
   NOTE
   When you execute this reset operation with any other settings than above (described in the step 2 to 5), the WEB password, SNTP server address, DATE AND TIME and other schedule settings are not initialized, but the network settings (DHCP, IP ADDRESS, SUBNET MASK and DEFAULT GATEWAY) are initialized.

8. If the network settings had been customized, restore them by manual operation.

6-17 Status Monitor

The Status Monitor is the sub LCD in the rear panel. The Status Monitor displays the present condition of the projector including errors, setup information and error history.



NOTE:

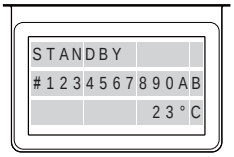
- The Status Monitor displays nothing or no button presses for the monitor are available while the projector is in standby mode if the STANDBY MODE item of SETUP menu is set to POWER SAVE.
- When INSTALLATION in the SETUP menu is set to FRONT / CEILING or REAR / CEILING, the contents on the Status Monitor are displayed upside down.

■ Displaying the condition of the projector

If no buttons have been operated, the Status Monitor displays as below depending on the condition of the projector.

■ In a normal state

The Status Monitor displays the state of the projector in three lines.



example

1st line : Displays the condition of the projector. While the lamp is on, the selected port is displayed.

Displayed conditions are as below;
STANDBY: The projector is in standby mode.
WARM UP: The projector is warming up.
SEARCHING: The projector is searching an input signal.
COOL DOWN: The projector is cooling down.

2nd line : Displays the condition of the detected input signal while the lamp is on. Otherwise, displays the serial number of the projector.

Displayed conditions are as below;
SYNC OUT: Detected input signal is out of specified range.
NO SIGNAL: There is no input signal.
CONNECTED: The projector has connected to the network or the computer and some image is transferred to the projector while the **LAN** port is selected.
HOLD: The projector has connected to the network but no image is transferred while the **LAN** port is selected.
NOT CONNECTED: The projector is not connected to the network or the computer while the **LAN** port is selected.

3rd line : Displays supplied voltage and peripheral temperature in Celsius while the lamp is on.

NOTE:

- While the projector is searching an input signal in normal condition, nothing is displayed on the 2nd line of the monitor.
- Displayed temperature might differ from actual peripheral temperature because the displayed temperature is measured inside of the projector.

● **In error state**

The Status Monitor displays a warning of an error with larger letters. Resolve the errors referring to the table of the sections "**Related messages**" and "**Regarding the indicator lamps**" when the warning is displayed.

example

Warnings;

AIR (AIR FLOW): The internal temperature is rising.
Refer to the description of the message, "CHECK THE AIR FLOW" in the table.

COLD: The interior portion may have become over cooled.
Refer to the **LAMP** and **TEMP** indicators alternatively blinking in the table.

FILTR (FILTER): Clean the air filter.
Refer to the **LAMP** and **TEMP** indicators simultaneous blinking in the table.

SHUTR: Shutter Error

SHIFT: Lens Shift Error

Errors;

COVER: The lamp cover has not been properly fixed.
Refer to the **LAMP** indicator blinking in the table.

FAN: The cooling fan is not operating.
Refer to the **TEMP** indicator blinking in the table.

LAMP: The lamp does not light.
Refer to the **LAMP** indicator lighting in the table.

TEMP: The projector's interior becomes over heated.
Refer to the **TEMP** indicator lighting in the table.

ACBLK: Refer to the **LAMP** indicator lighting in the table.

OTHER: Errors other than the above.

NOTE:

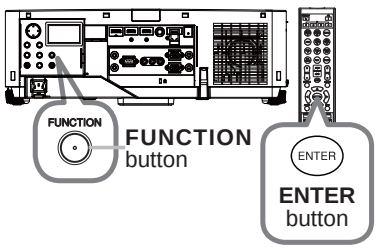
When one of the warnings of FAN, LAMP, COVER, TEMP errors is displayed, the backlight blinks at the same time.

■ **Displaying the log**

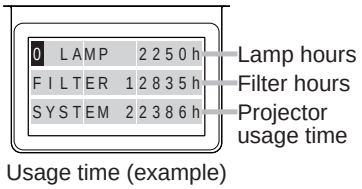
The present setup information and the error history can be displayed on the Status Monitor with button operation.

When the projector is in a normal condition, or dislays one of the warnings of AIR FLOW, COLD or FILTER errors, press the **FUNCTION** button on the control panel, press the **ENTER** button on the remote control for three seconds or press one of the **MY BUTTON** buttons if assigned as STATUS MONITOR. The backlight of the monitor turns on.

Use the ▲/▼/◄/► buttons to switch display as below.

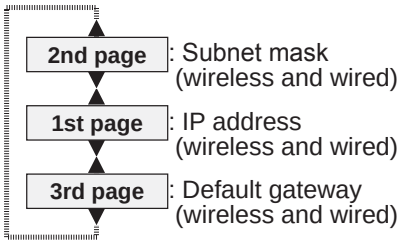


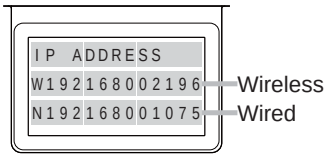
- Usage time:
  The Status Monitor displays the lamp hours, the filter hours and the projector usage time.



Usage time (example)

- Network information:
  The network information is displayed over three pages. Use the ▲/▼ buttons to switch the page. Displayed information in each page is as below;

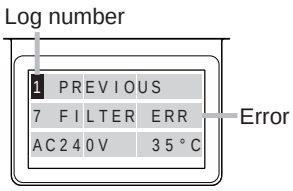




Network information (example)

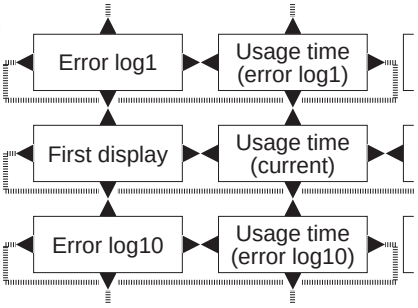
- Error log:

Press the ▲ button to display the previous error log. If a warning has been displayed, the first previous error log is the present error currently occurring. The Status Monitor displays the log number, occurred error, the supplied voltage and peripheral temperature at that time. Press the ► button to display the usage time when each error occurred.



Error log (example)

Use the ▲/▼ buttons to switch the log. The display switches with the ◄/► buttons at each log. Up to 10 error logs including the present one can be displayed.



NOTE:

- The Status Monitor and its backlight returns to the first state before the **FUNCTION** or **ENTER** button was pressed when any button except cursor buttons is pressed, or after about 30 seconds without button operation.
- While the projector is warming up, button presses are ignored.
- Both of the Status Monitor and the OSD menu cannot be operated at the same time.
- The projector usage time is the total lamp time from the projector is manufactured. It is not reset by using LAMP HOURS in the SETUP menu.
- If the ▲/▼ buttons are pressed while the usage time is displayed, the usage time switches to the past one when an error occurred.
- If no error or less than 10 errors have occurred, "NO DATA" is displayed regardless of what error occurred in the error log.

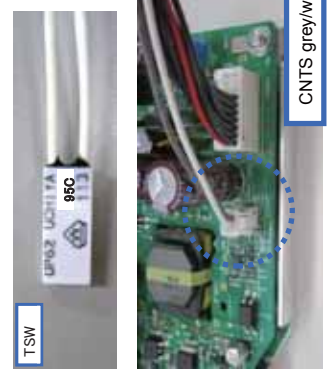
7. Wiring diagram

■ Preparation - CNTS
Attach FE01 to CNTS by winding once.

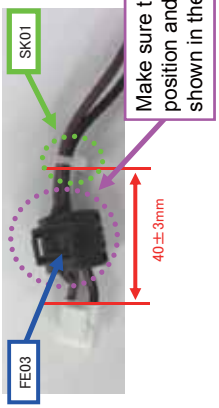
(2) Confirm the followings regarding CNTS.

① Confirm that the marking of the TSW connected to CNTS says, "UP62 UCHIYA 95C".

② Confirm that the color of CNTS is grey/white.

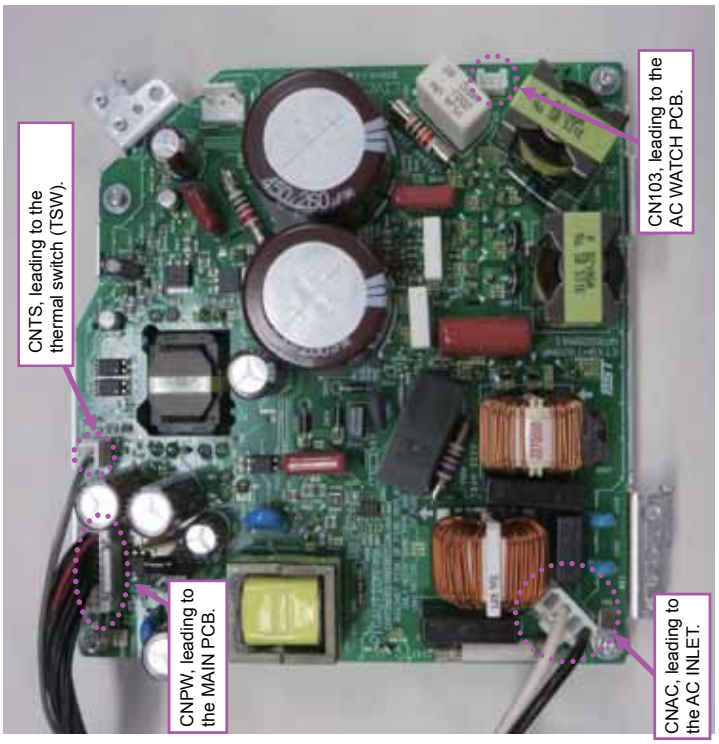


(3) Preparation - CNPFC

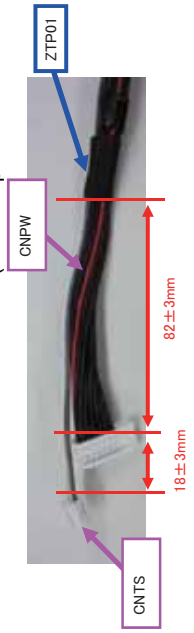


Connection of the POWER UNIT CIRCUIT and the POWER UNIT BALLAST - 1

(1) Connect CNPW, CNTS and CNAC

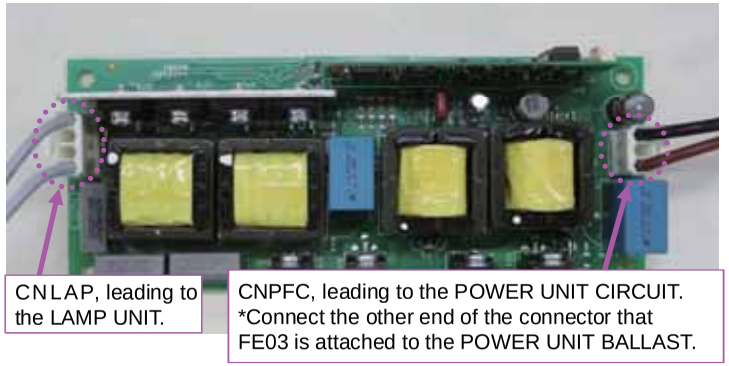


■ Preparation - CNPW and CNTS
Bind CNPW and CNTS with ZTP01 (NITTO tape No.5 W20mm x L60mm).



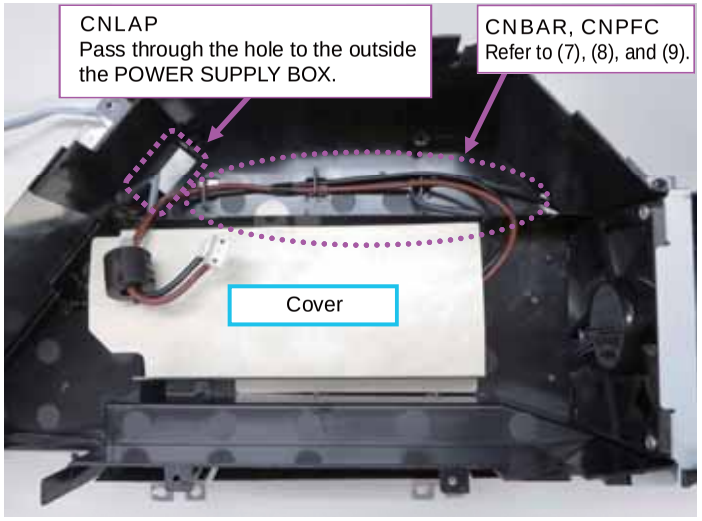
Connection of the POWER UNIT CIRCUIT and the POWER UNIT BALLAST - 2

(4) Connect CNLAP and CNPFC.



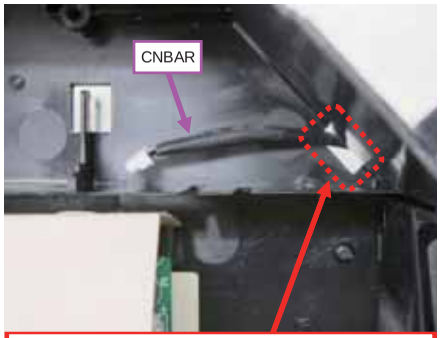
(6) Wire CNLAP into the hook.

(5) Attach the POWER UNIT BALLAST to the POWER SUPPLY BOX. (Attach the cover.)



(7) Connect CNBAR to the POWER UNIT BALLAST by the following procedure.
This work should be done before fastening the screws of the cover.

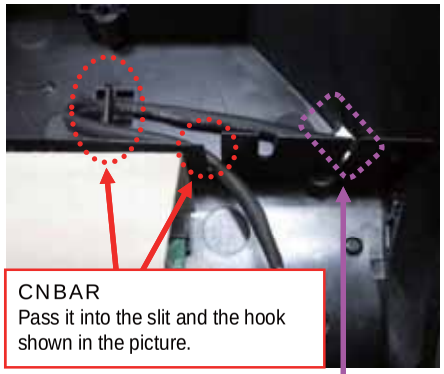
(7)-1 Pass the CNBAR into the hole to the inside.



CNBAR
Pass it into the hole (shown in the dotted circle) to the inside of the power supply box.

Follow the procedure of wiring CNBAR. Otherwise, CNBAR may be damaged.

(7)-2 Pass the CNBAR into the slit and the hook.

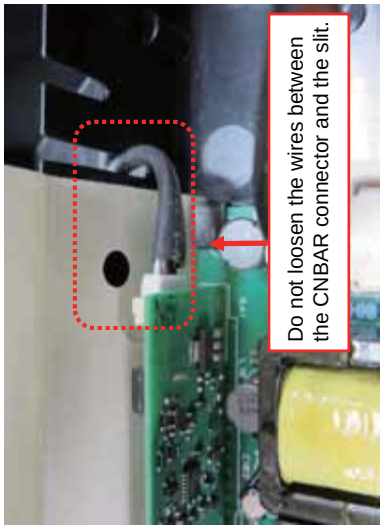


CNBAR
Pass it into the slit and the hook shown in the picture.

Do not loosen the wires so that the excess wire lengths do not stay inside the power supply box.

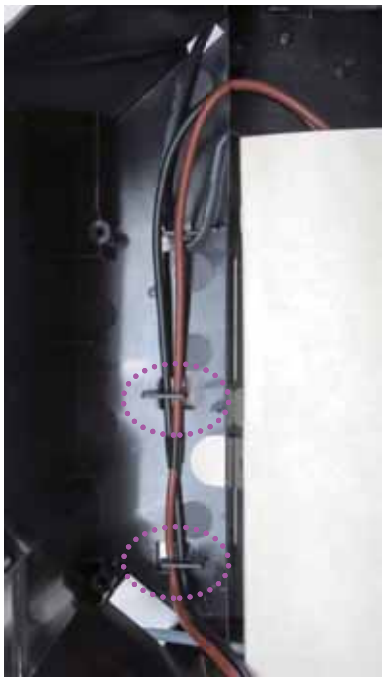
Connection of the POWER UNIT CIRCUIT and the POWER UNIT BALLAST - 3

(7)-3 Connect CNBAR to the POWER UNIT BALLAST.



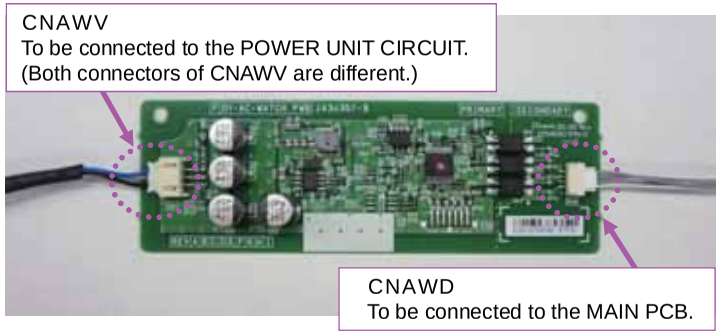
(8) Wire CNPFC into the slit.

(9) Wire CNPFC into the hooks.

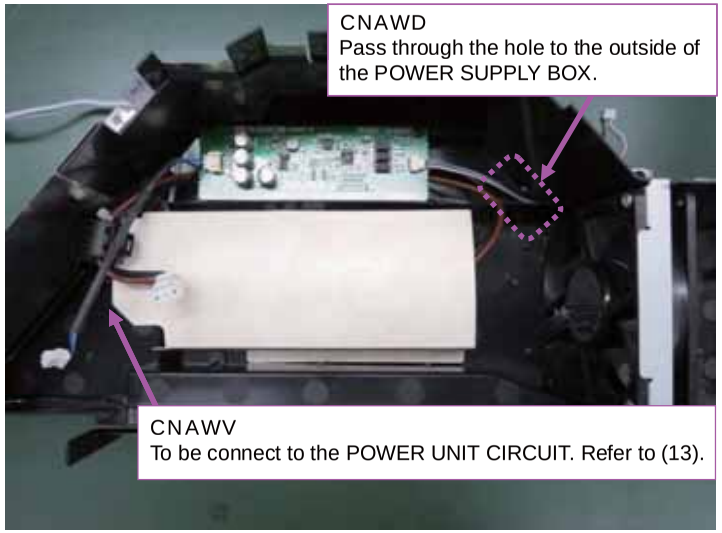


Connection of the POWER UNIT CIRCUIT and the POWER UNIT BALLAST - 4

(10) Connect CNAWV and CNAWD to AC WATCH PCB.

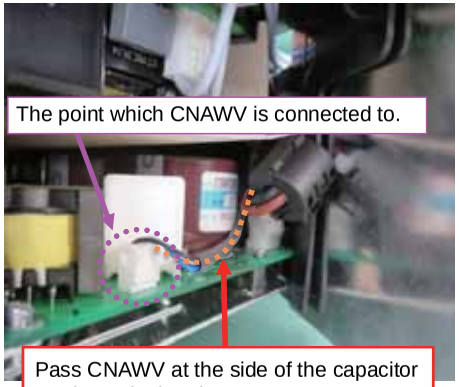


(11) Attach the AC WATCH PCB to the POWER SUPPLY BOX.



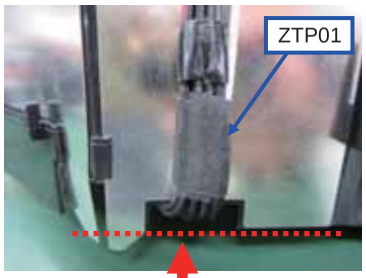
(12) Connect the CNPFC to the POWER UNIT CIRCUIT.

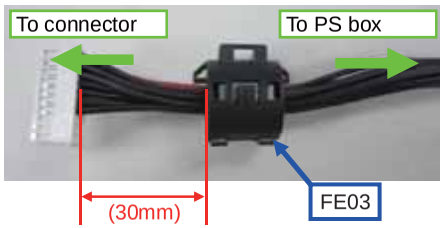
(13) Connect the CNAWV to the POWER UNIT CIRCUIT.



Connection of the POWER UNIT CIRCUIT and the POWER UNIT BALLAST - 5

(14) Wire CNPW and CNTS, attach FE03 to CNPW.

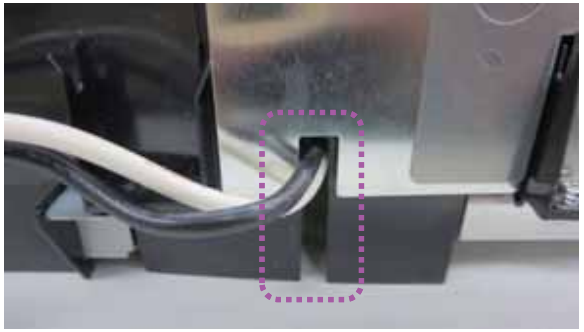




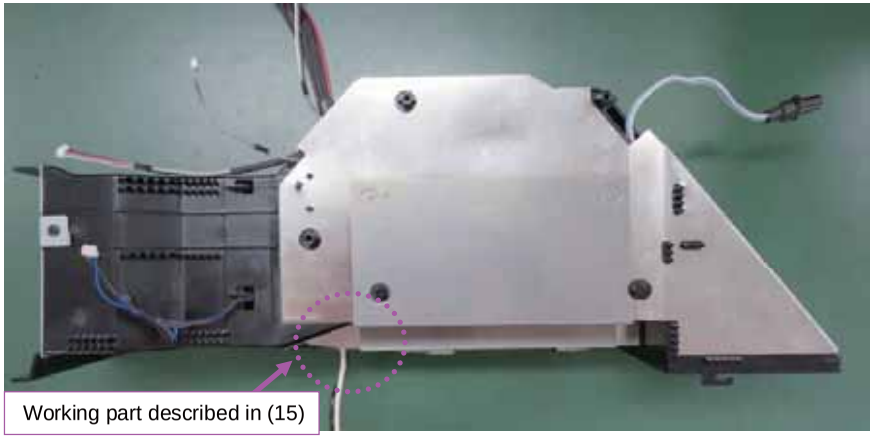
Attach FE03 to the position shown in the picture.

Confirm that CNPW and CNTS are tied up with ZTP01 above a red dotted line at the opening shown in the picture.

(15) Wire CNAC into the slit.



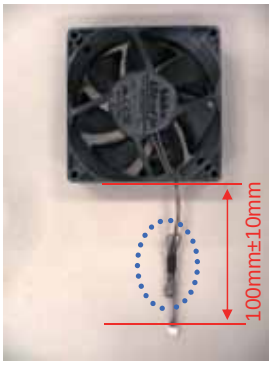
* Reference: The overall view of a POWER SUPPLY BOX



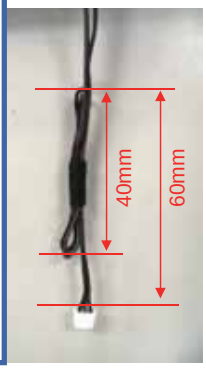
Adjusting the wire length and fixing the lead - 1

Do these works before attaching each of components to the projector.

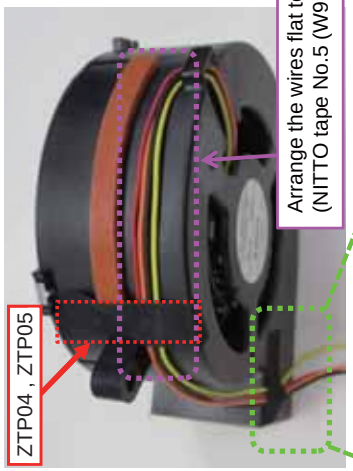
(1) POWER FAN / EXHAUST2 FAN



[Magnified picture of the blue dotted circle]
Fold back the harness twice as shown in the picture. Wind ZTP02 or ZTP03 (NITTO tape No.5 W9mm x L30mm) at the center of folded wires to bind them.

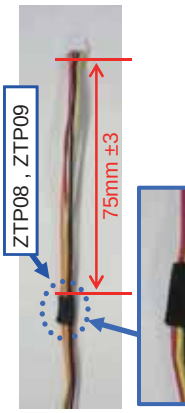


(2) Panel FAN (R) / Panel FAN (G)



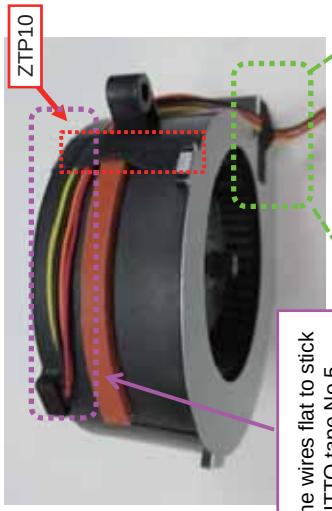
Arrange the wires flat to stick ZTP04 or ZTP05 (NITTO tape No.5 (W9mm x L30mm)).

Arrange the wires flat to stick ZTP06 or ZTP07 (NITTO tape No.5 (W9mm x L20mm)).

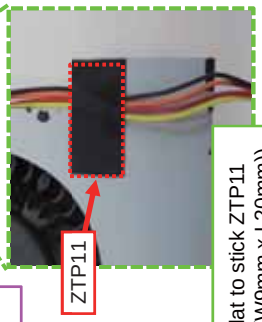


Arrange the wires flat to wind ZTP08 or ZTP09 (NITTO tape No.5 (W9mm x L20mm)).

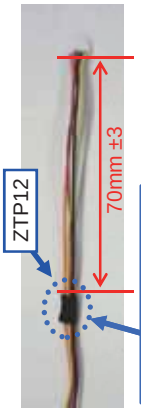
(3) Panel FAN (B)



Arrange the wires flat to stick ZTP10 (NITTO tape No.5 (W9mm x L30mm)).



Arrange the wires flat to stick ZTP11 (NITTO tape No.5 (W9mm x L20mm)).

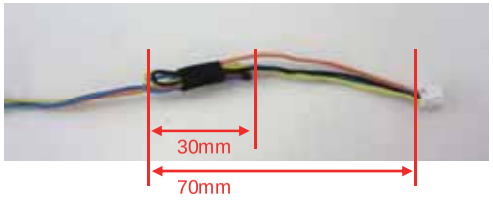


Arrange the wires flat to stick ZTP11 (NITTO tape No.5 (W9mm x L20mm)).

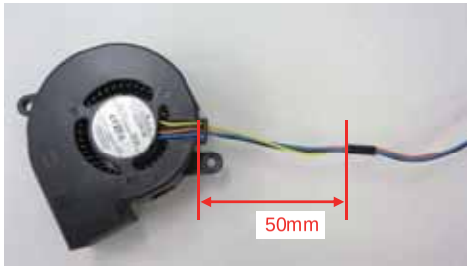
Adjusting the wire length and fixing the lead - 2

Do these works before attaching each of components to the projector.

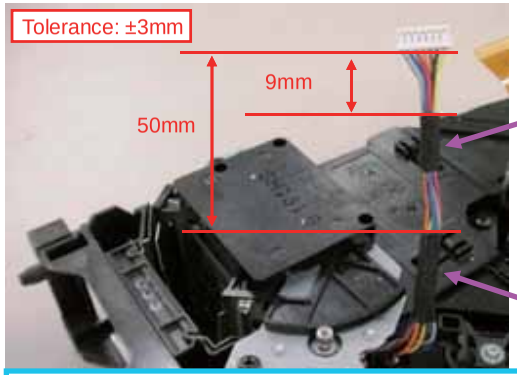
(4) LAMP FAN (UP)



Fold back the harness twice as shown in the picture.
Wind ZTP13 or ZTP14 (NITTO tape No.5 W9mm x L30mm)
at the center of folded wires to bind them.



(5) IRIS CABLE

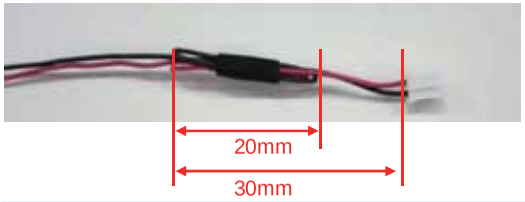


ZTP16
NITTO tape No.5
(W9mm x L30mm)

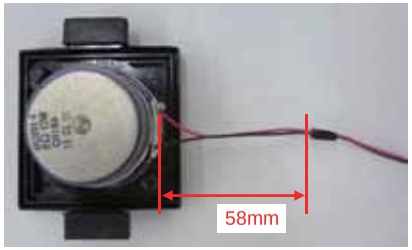
ZTP15
NITTO tape No.5
(W20mm x L30mm)

1) Wind the tape ZTP15 on the wires at the point of 50mm from the connector housing.
2) Wind the tape ZTP16 on the wires at the point of 9mm from the connector housing.

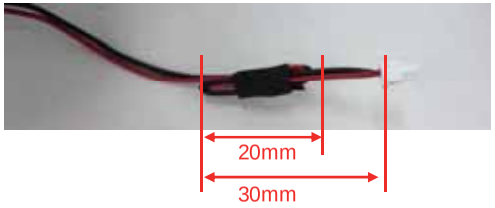
(6) A83-SP cable



Fold back the harness twice as shown in the picture.
Wind ZTP17 (NITTO tape No.5 W9mm x L30mm)
at the center of folded wires to bind them.



(7) SHIFT MOTOR cable (x2)

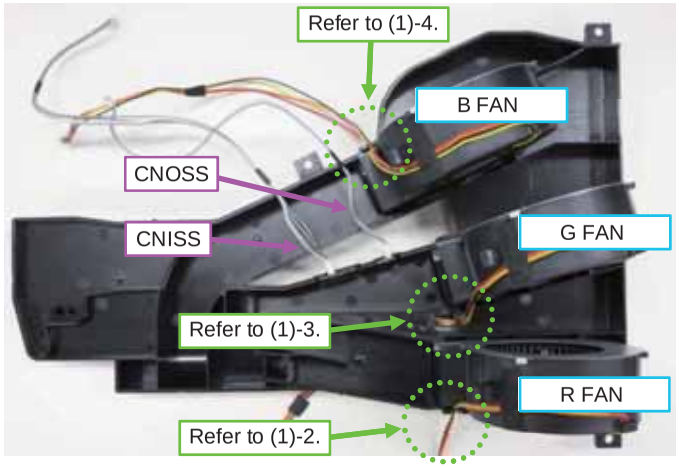


Fold back the harness twice as shown in the picture.
Wind ZTP19 or ZTP20 (NITTO tape No.5 W9mm x L30mm)
at the center of folded wires to bind them.

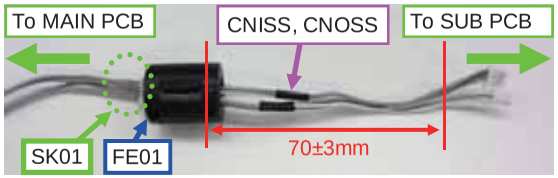
Wiring of the PANEL DUCT - 1

(1) Wiring of R/G/B FAN cables, CNISS, and CNOSS.

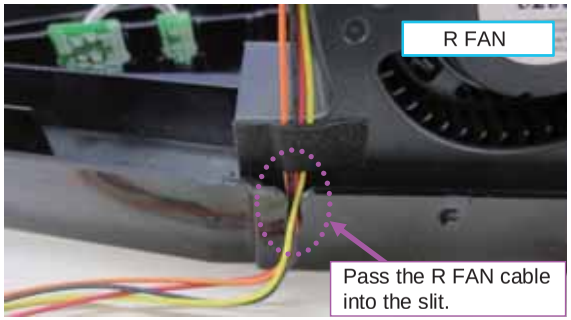
(1)-1 Attach R/G/B FAN, CNISS, CNOSS to the panel duct. (Before closing the cover.)



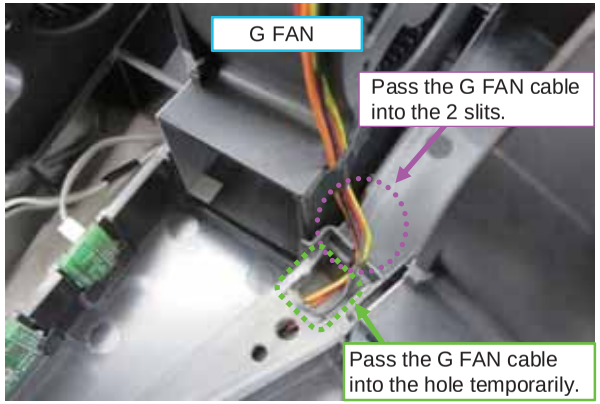
■ Preparation - CNISS and CNOSS
Bind CNISS and CNOSS with the ferrite core, and fix it with a cable tie.



(1)-2 Wire the R FAN cable.

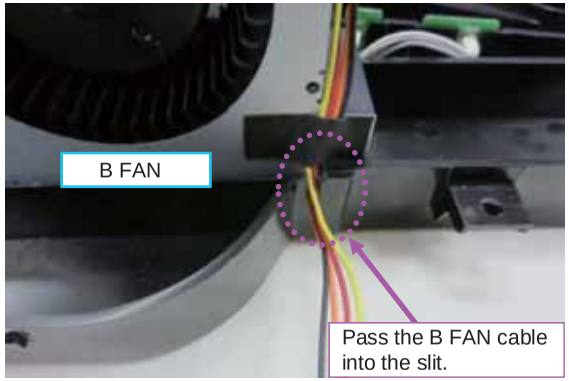


(1)-3 Wire the G FAN cable.



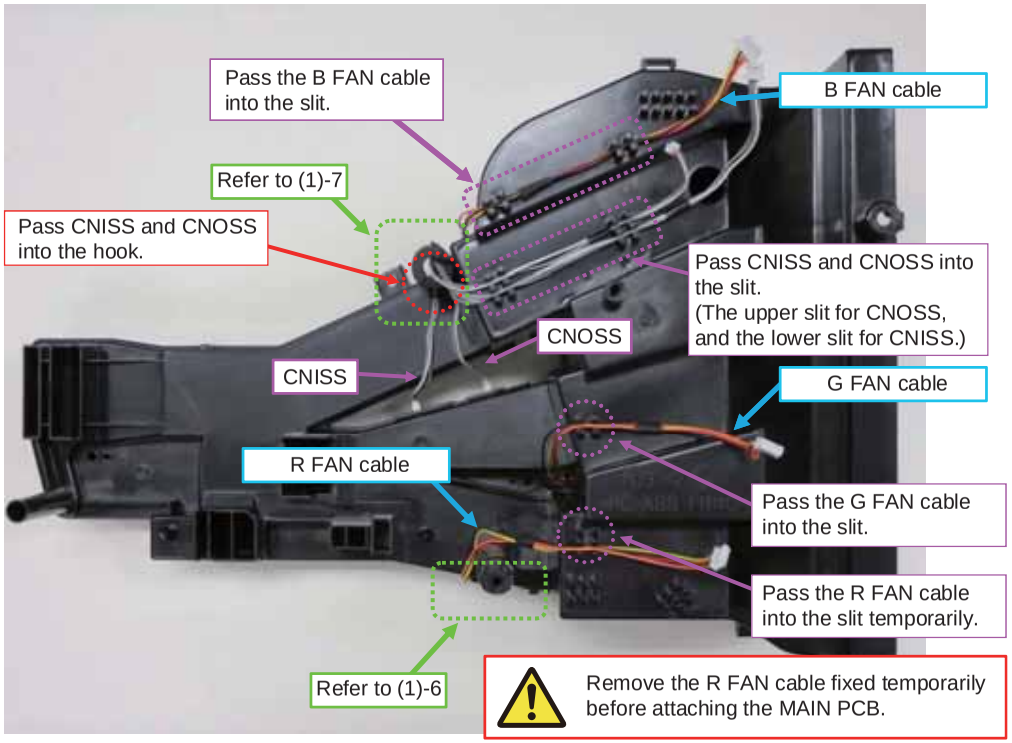
Pull the B FAN cable temporarily outside the upper side of a duct through a hole after closing the cover of the duct.

(1)-4 Wire the B FAN cable.

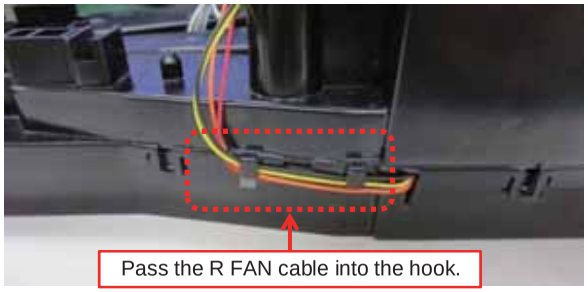


Wiring of the PANEL DUCT - 2

(1) Wiring of R/G/B FAN cables, CNISS, and CNOSS.
(1)-5 Wiring after closing the lid of the PANEL DUCT - 1



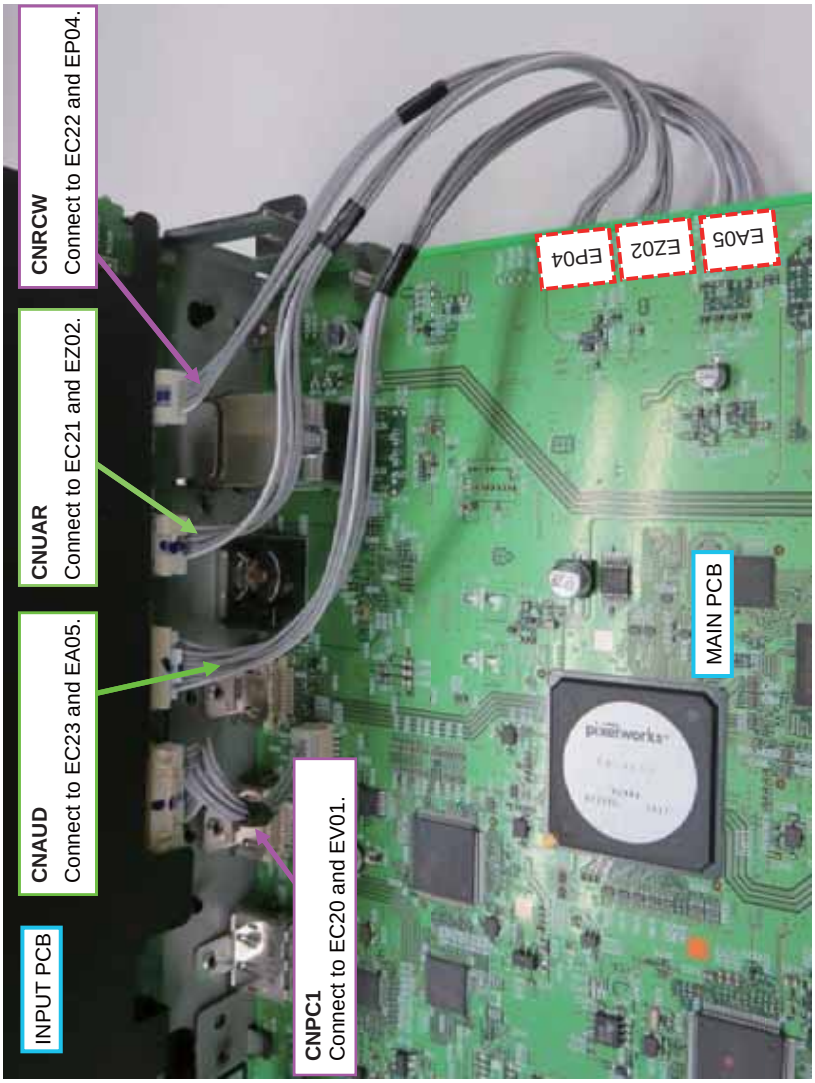
(1)-6 Wiring after closing the lid of the PANEL DUCT - 2



(1)-7 Wiring after closing the lid of the PANEL DUCT - 3
Put FE01 attached to CNISS and CNOSS as shown in the picture.

Wiring of the MAIN PCB and the INPUT PCB - 1

(1) Wire the cables on the MAIN PCB and the INPUT PCB.



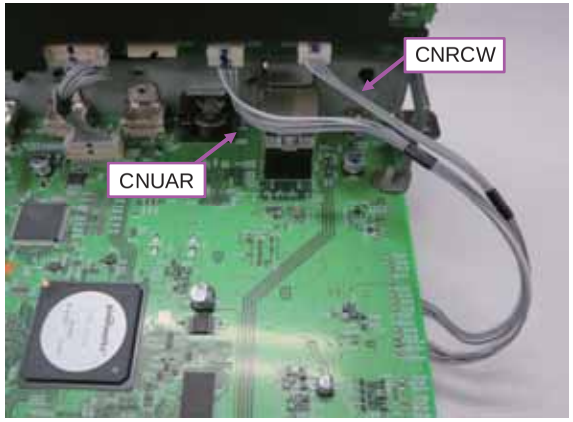
See the following pages regarding the detail of wiring of CNPC1, CNAUD, CNAUR, and CNRCW.

Wiring of the MAIN PCB and the INPUT PCB - 2

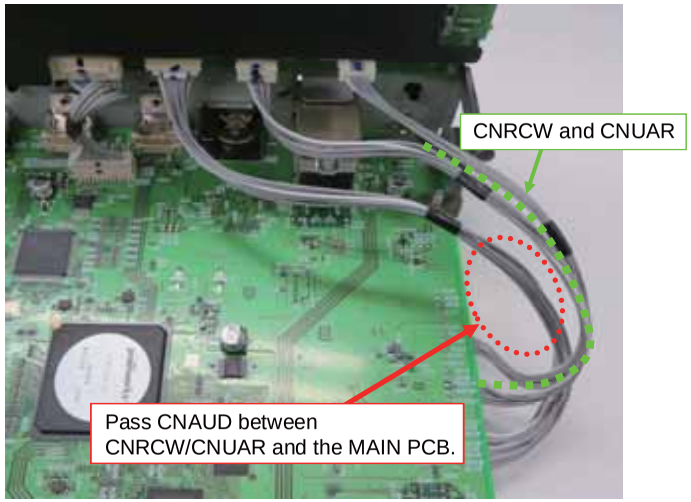
(3) Wire CNPC1, CNAUD, CNUAR, and CNRCW.
Wire CNPC1, CNAUD, CNUAR, and CNRCW in the order described in this page.

(3)-1 Wire CNPC1.

(3)-2 Wire CNUAR and CNRCW.



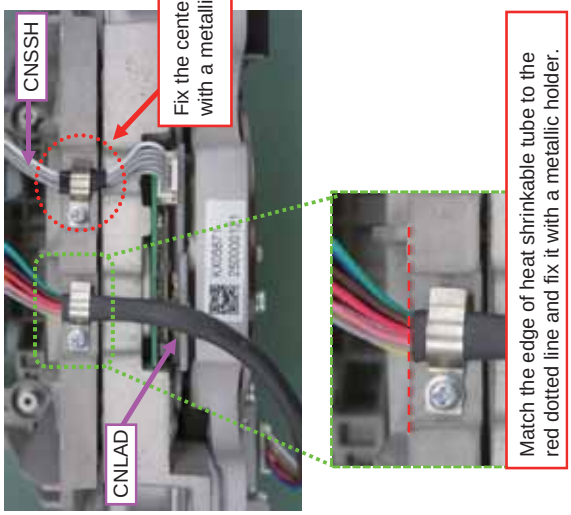
(3)-3 Wire CNAUD.



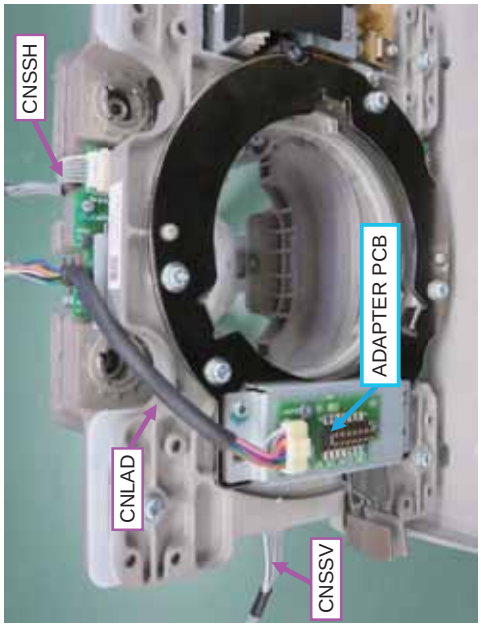
Connection of the SUB PCB - 1

(1) Connect CNLAD, CNSSV, and CNSSH.

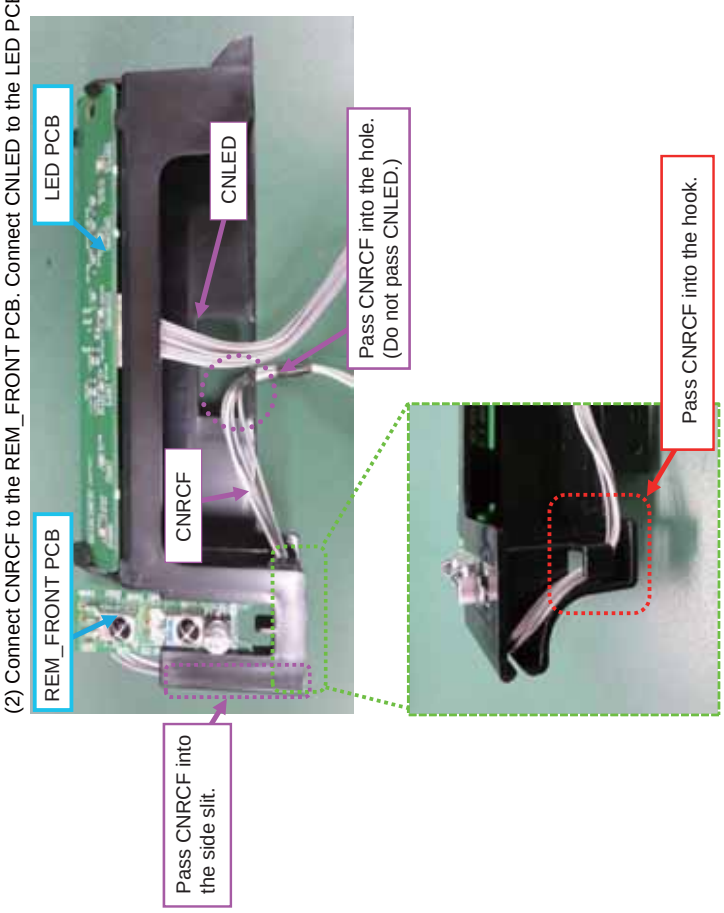
(1)-1 Fix CNLAD and CNSSH to the SHIFT MECH.



(1)-2 Fix CNLAD CNSSV, and CNSSH to the SHIFT MECH.

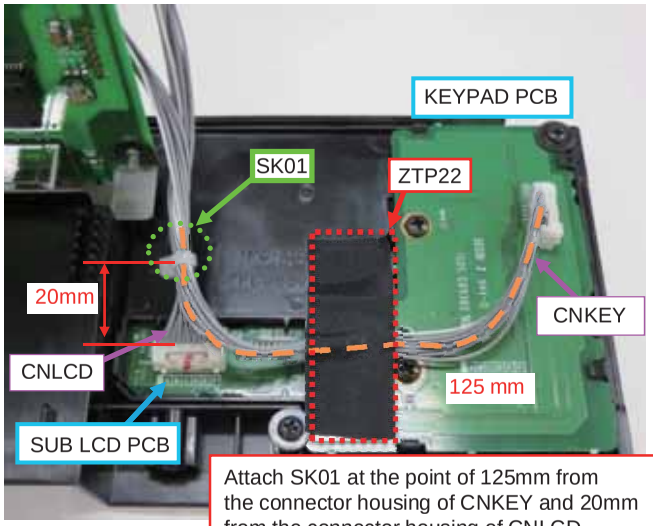


(2) Connect CNRCF to the REM_FRONT PCB. Connect CNLED to the LED PCB.

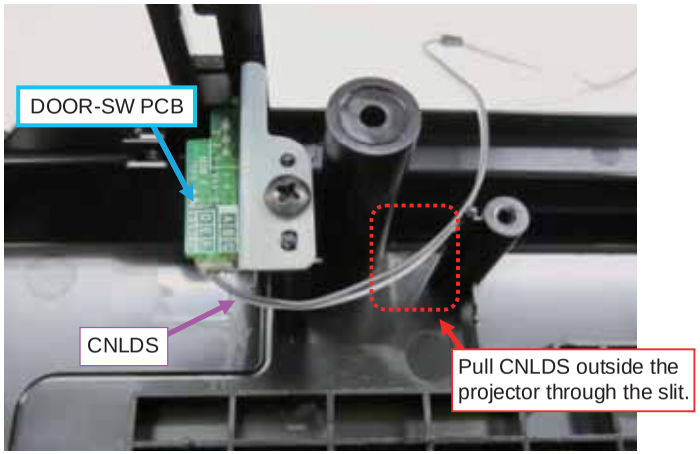


Connection of the SUB PCB - 2

(3) Connect CNKEY to KEYPAD PCB. Connect CNLCD to SUB LCD PCB.
Fix CNKEY with ZTP22 (NITTO tape No.5 W20mm x L50mm).

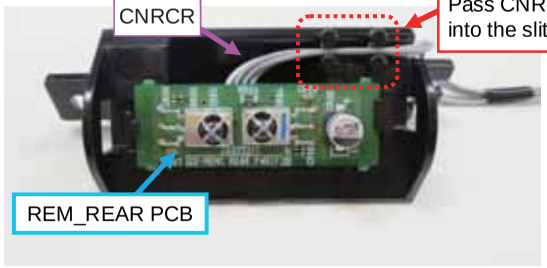


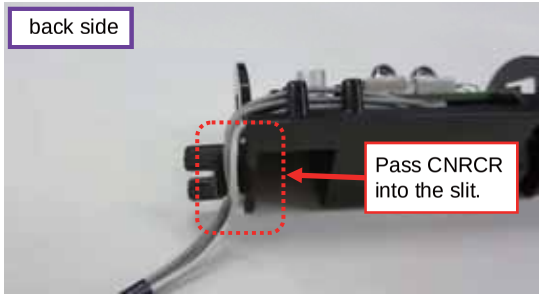
(4) Connect CNLDS to DOOR-SW PCB.



(5) Connect CNBAT to BATTERY PCB.
(Both connectors of CNBAT are different.)

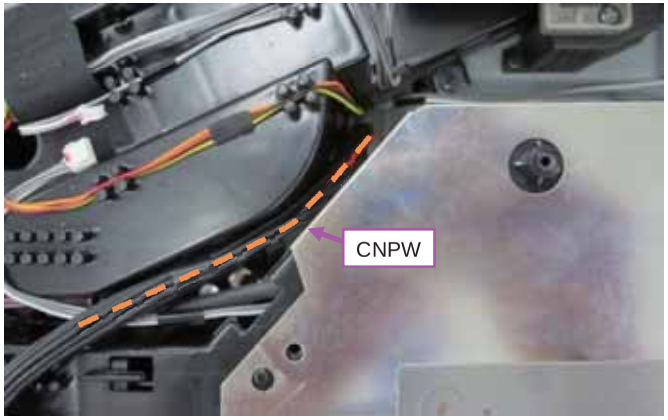
(6) Connect CNRCR to REM_REAR PCB.



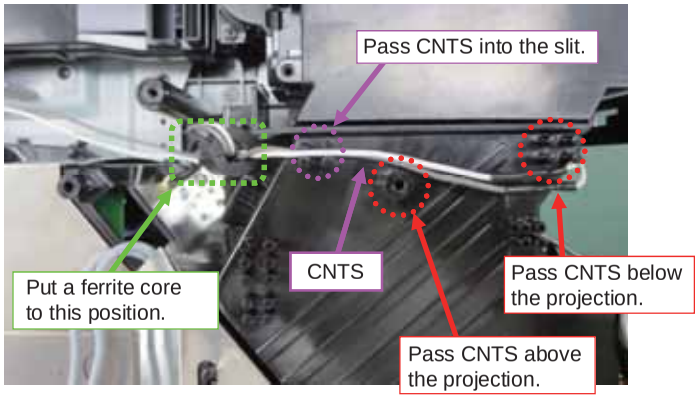


Wiring of harness of POWER UNIT CIRCUIT, THERMAL SWITCH, and AC INLET - 1

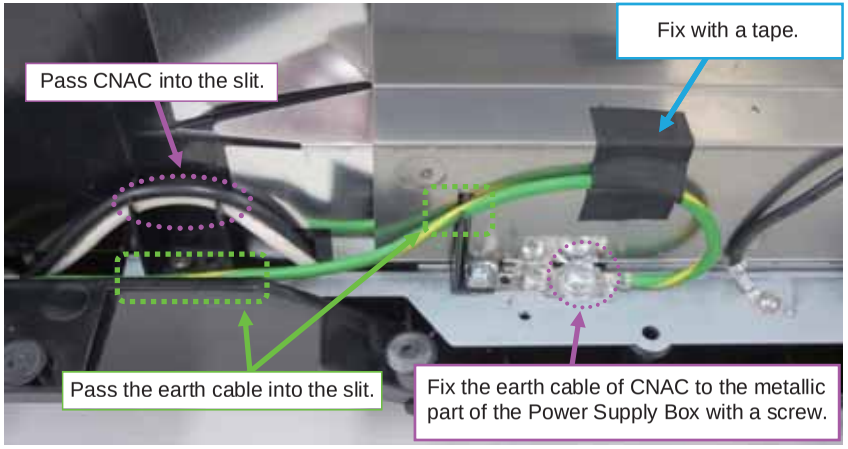
(1) Wire CNPW.
Wiring after attaching the Power Unit is shown in the picture below.



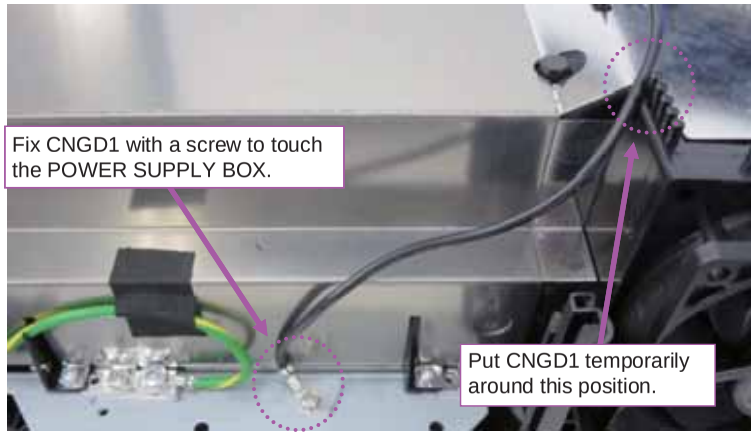
(2) Wire CNTS.
Wiring after attaching the Power Unit is shown in the picture below.



(3) Wire CNAC.
Wiring after attaching the Power Unit is shown in the picture below.

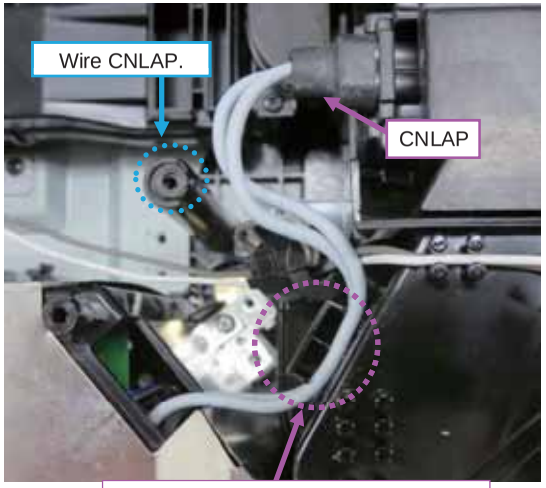


(4) Wire CNGD1.
Wiring after attaching the Power Unit is shown in the picture below.

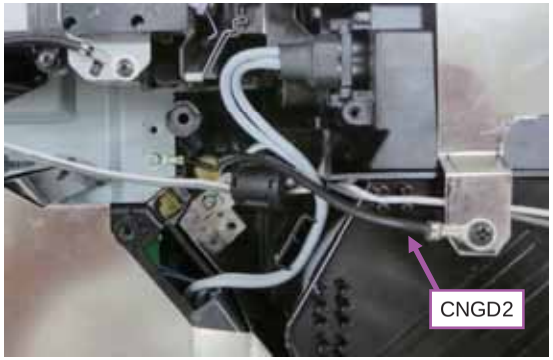


Wiring of harness of POWER UNIT CIRCUIT, THERMAL SWITCH, and AC INLET - 2

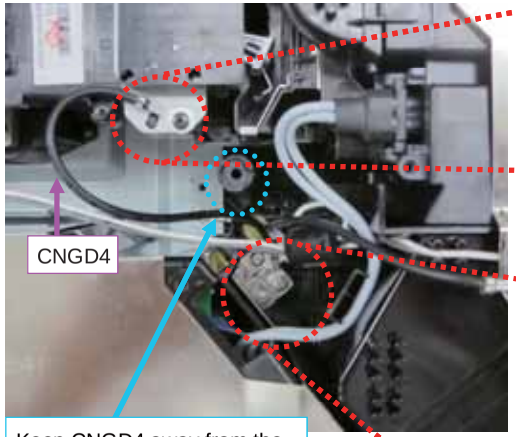
(5) Wire CNLAP.
Wiring after attaching the Power Unit is shown in the picture below.

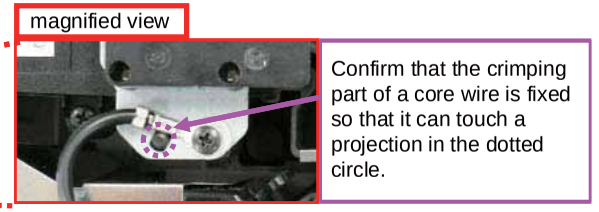


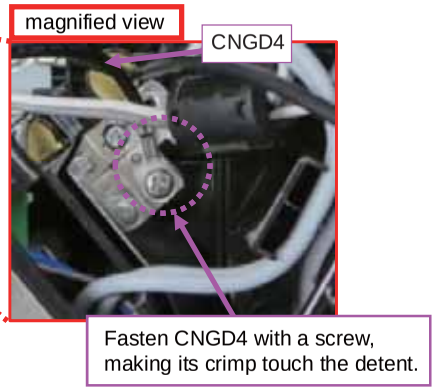
(6) Wire CNGD2.



(7) Wire CNGD4.

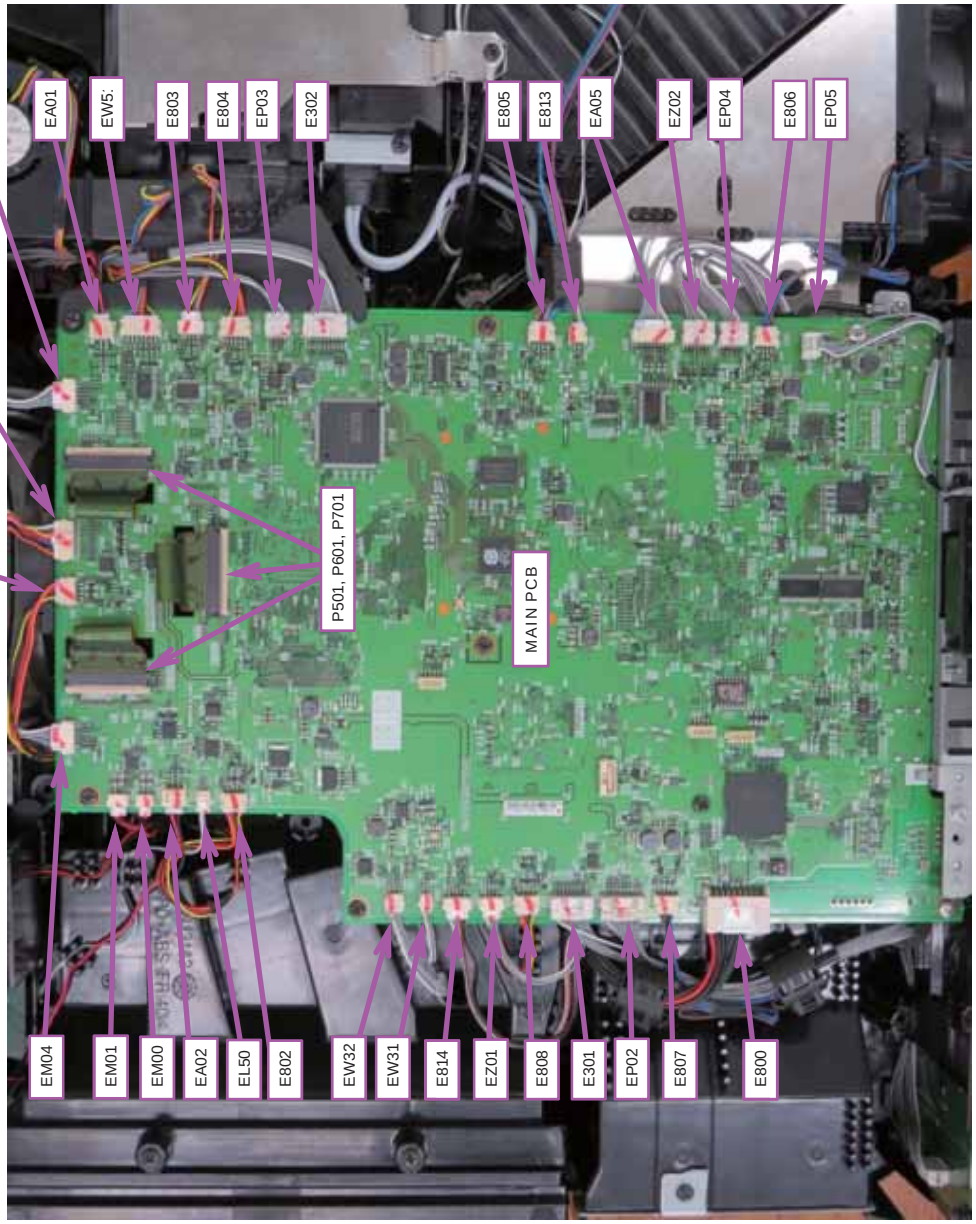






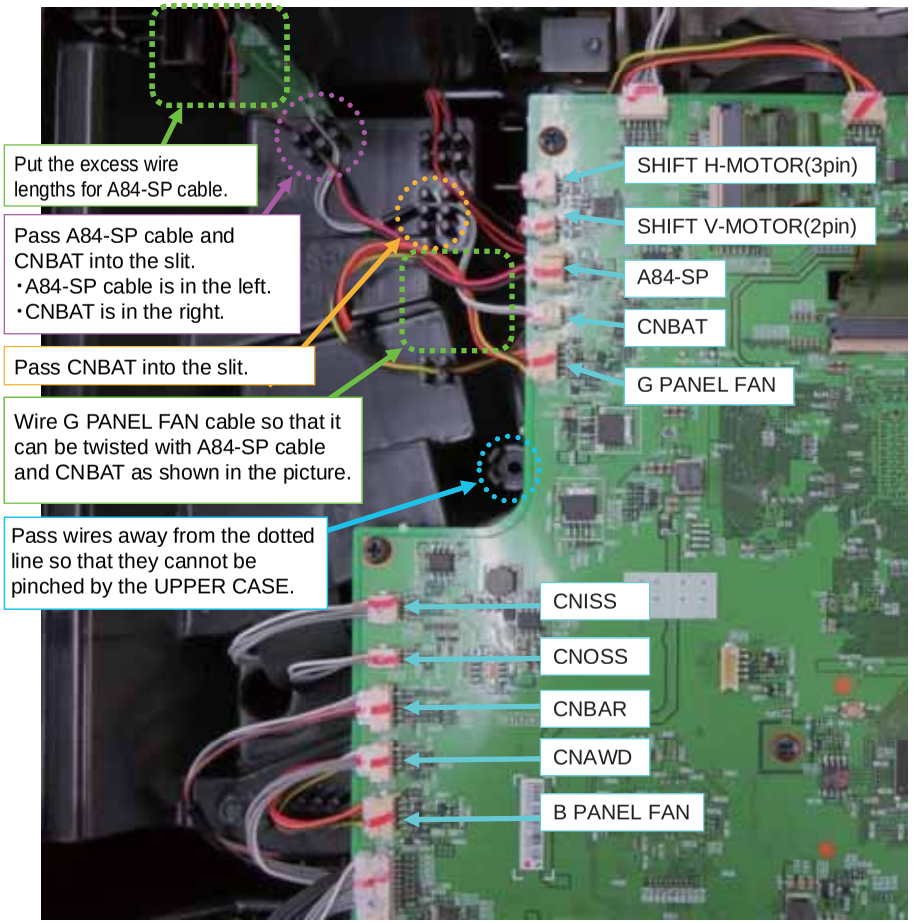
Wiring of the MAIN PCB - 1

This page shows the whole image of wiring of the MAIN PCB.
See the following pages for details of wiring of each cable.

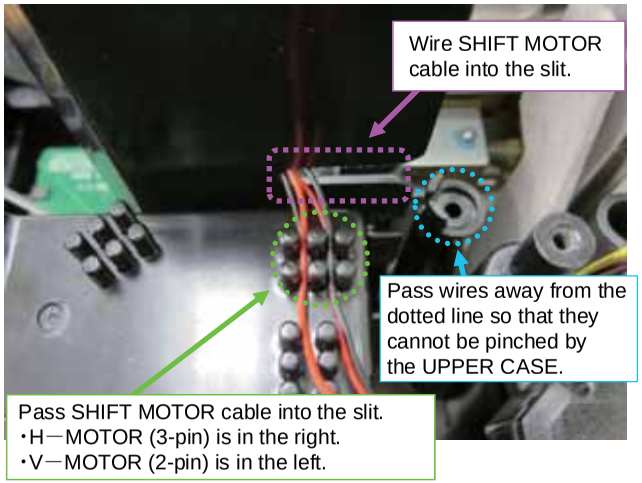


Wiring of the MAIN PCB - 2

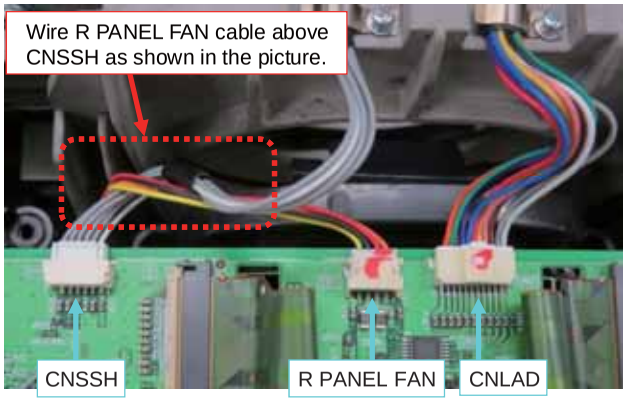
(1) Wire G/B PANEL FAN cable, A84-SP cable, SHIFT MOTOR cable, CNOSS, CNISS, CNBAT, CNBAR, and CNAWD.



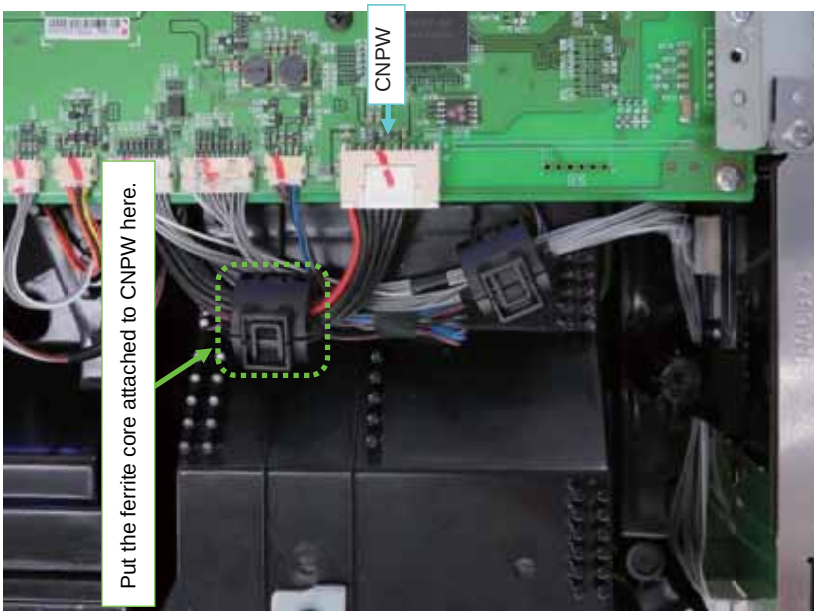
(2) Wire SHIFT MOTOR cable.



(3) Wire R PANEL FAN cable, CNSSH, and CNLAD.

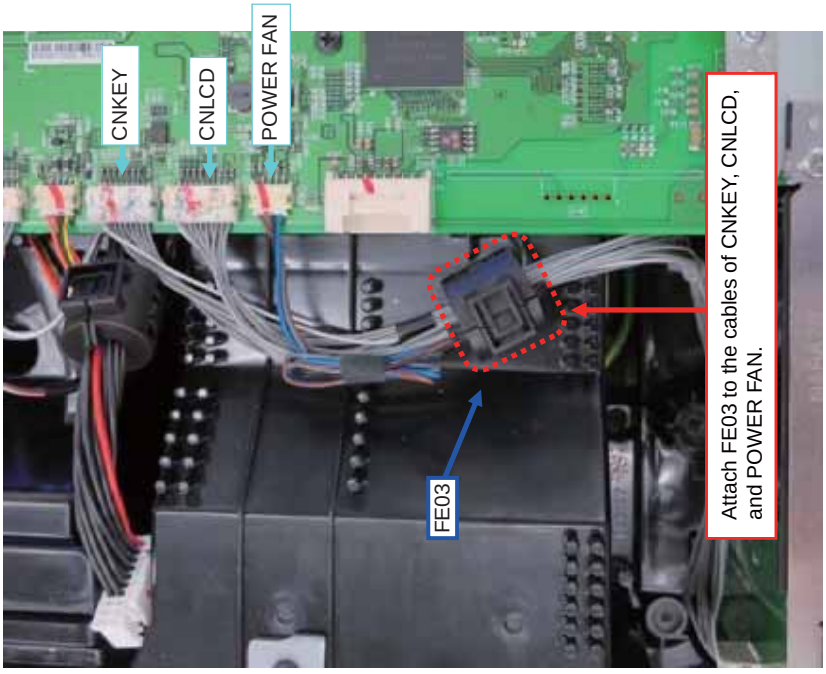


(4)-2 Wire CNPW.



Wiring of the MAIN PCB - 3

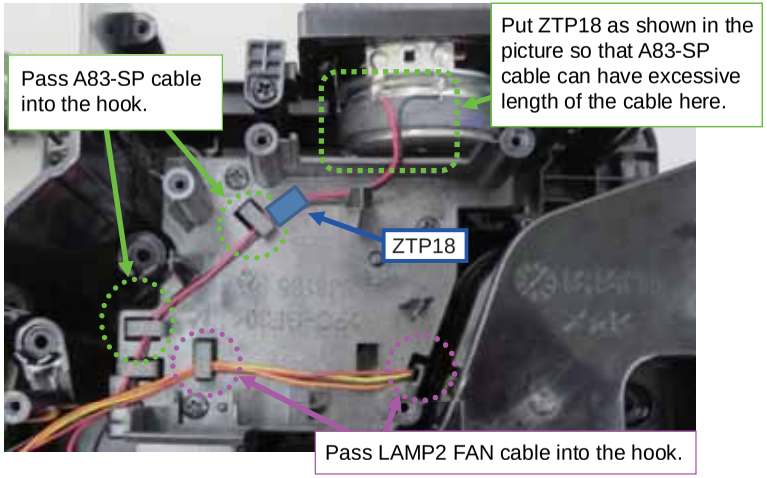
(4) Wire CNKEY, CNLCD, CNPW, and POWER FAN.
(4)-1 Wire CNKEY, CNLCD, and POWER FAN.



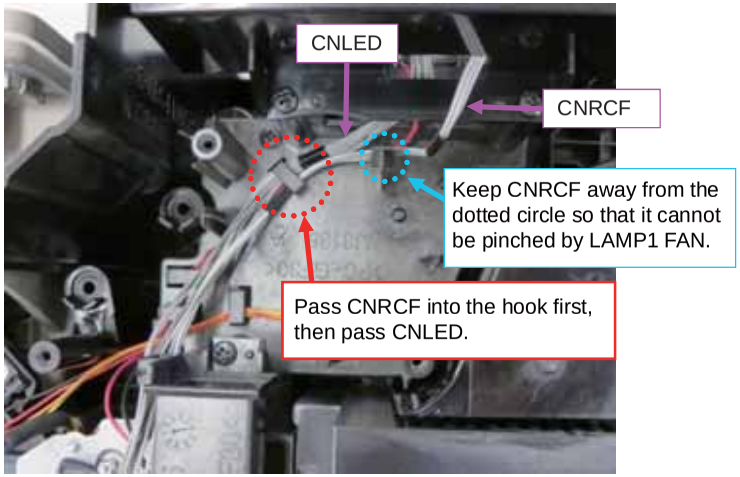
Wiring of the MAIN PCB - 4

(5) Wire LAMP2 FAN / LAMP1 FAN / A83-SP cables, CNLED, CNRCF, CNSSV, CNLAD, and CNSVM.

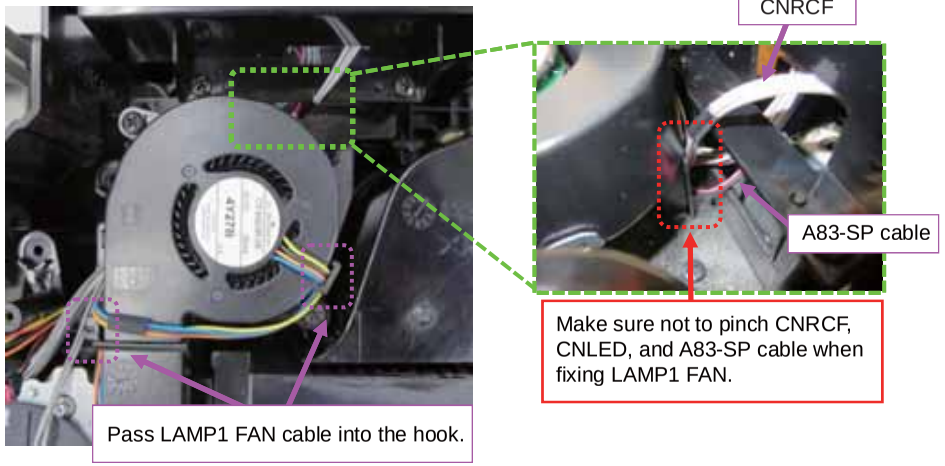
(5)-1 Wire LAMP2 FAN / A83-SP cable.



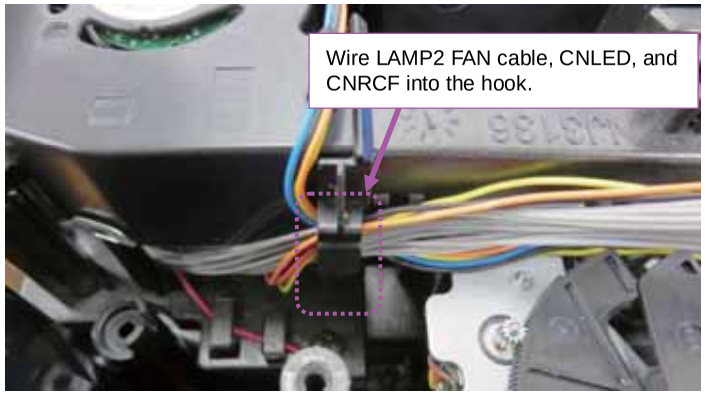
(5)-2 Wire CNLED and CNRCF.



(5)-3 Wire LAMP1 FAN cable.

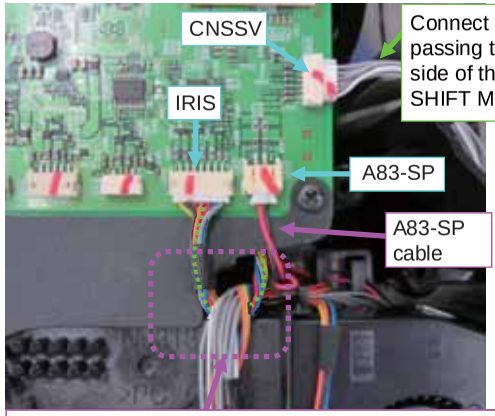


(5)-4 Wire LAMP1 FAN / LAMP2 FAN cable, CNLED, and CNRCF.
Do the following work after fixing LAMP1 FAN.



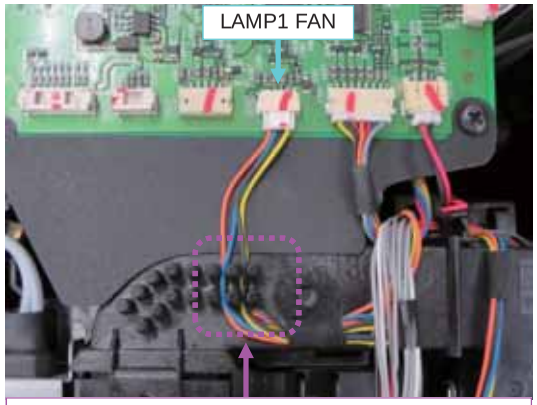
Wiring of the MAIN PCB - 5

(5)-5 Wire IRIS cable, A83-SP cable, and CNSSV.



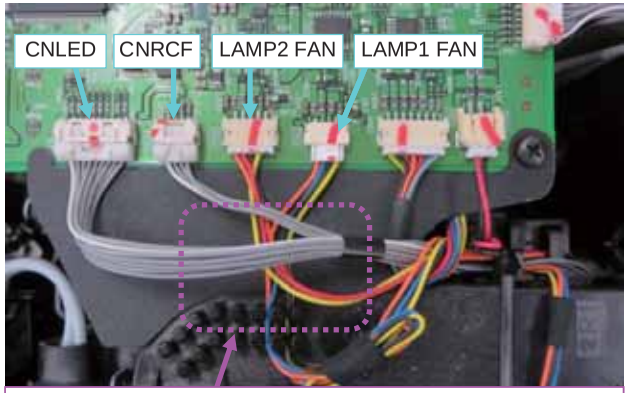
Connect IRIS cable after passing LAMP1 FAN/LAMP2 FAN cables, CNLED, and CNRCF as shown in the picture.

(5)-6 Wire LAMP1 FAN cable.



Connect LAMP1 FAN cable after passing into the slit. (Two cables each in two slits.)

(5)-7 Wire LAMP2 FAN cable, CNLED, and CNRCF.

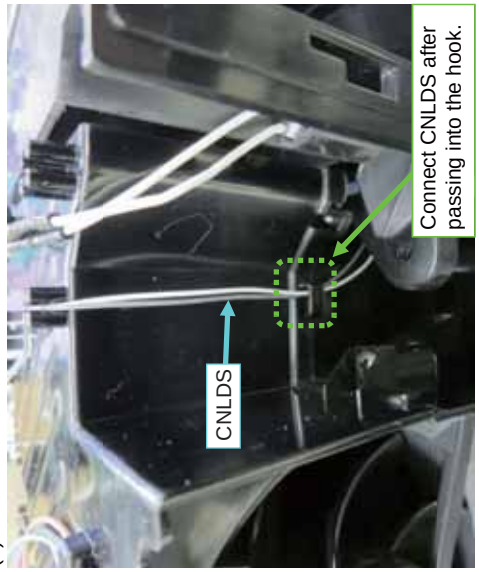


As shown in the picture, connect LAMP2 FAN cable after passing over LAMP1 FAN cable. Connect CNRCF after passing over LAMP2 FAN cable. Connect CNLED finally.

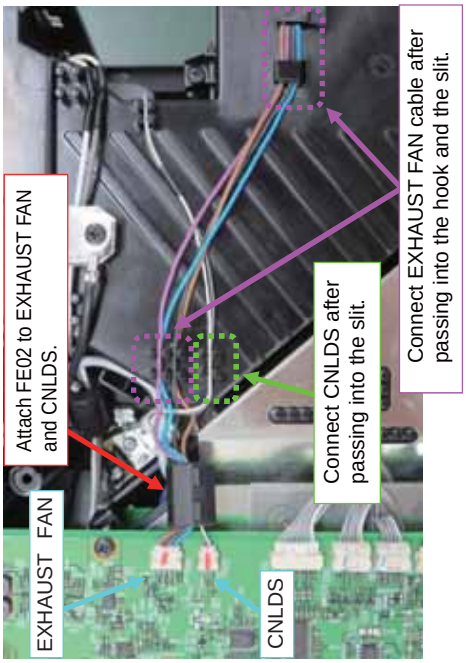
Wiring of the MAIN PCB - 6

(6) Wire EXHAUST FAN cable, EXHAUST2 FAN cable, CNLDS, CNTS, CNRCR, and CNGD1.

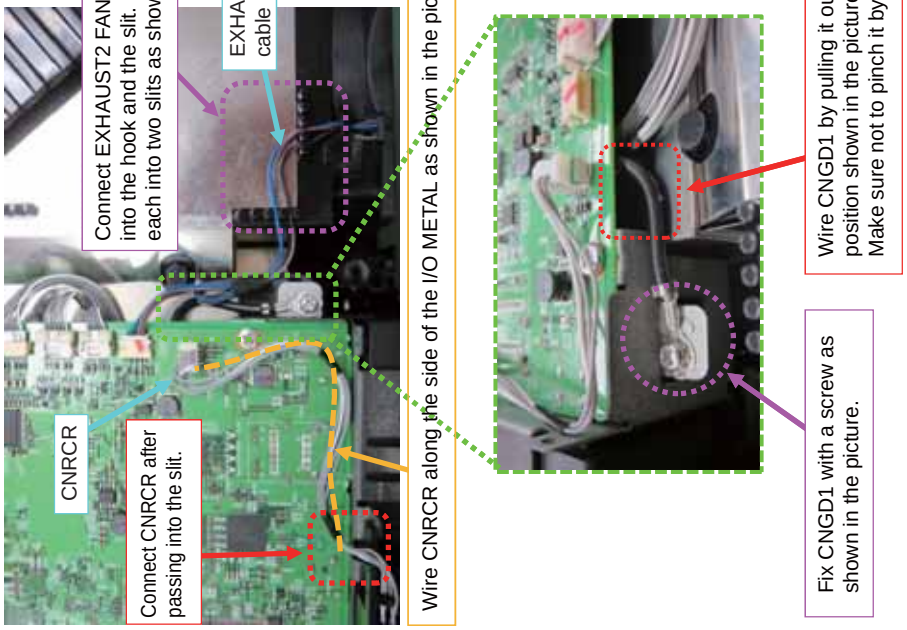
(6)-1 Wire CNLDS cable.



(6)-2 Wire CNLDS / EXHAUST FAN cable.

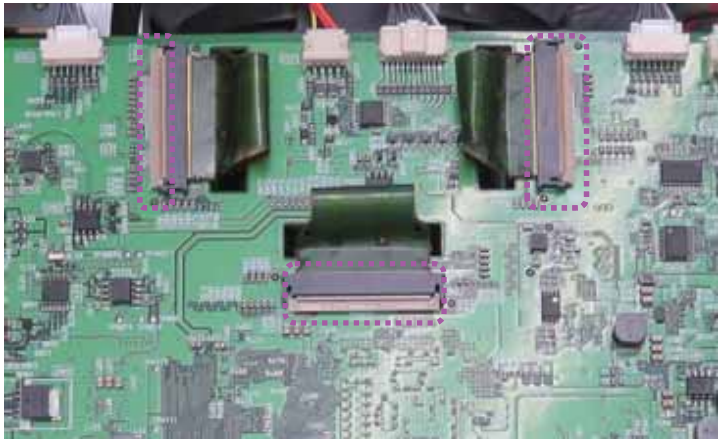


(6)-3 Wire CNRCR / CNGD1 / EXHAUST2 FAN cable.



Wiring of the MAIN PCB - 7

(7) Connect panel flexible cables.

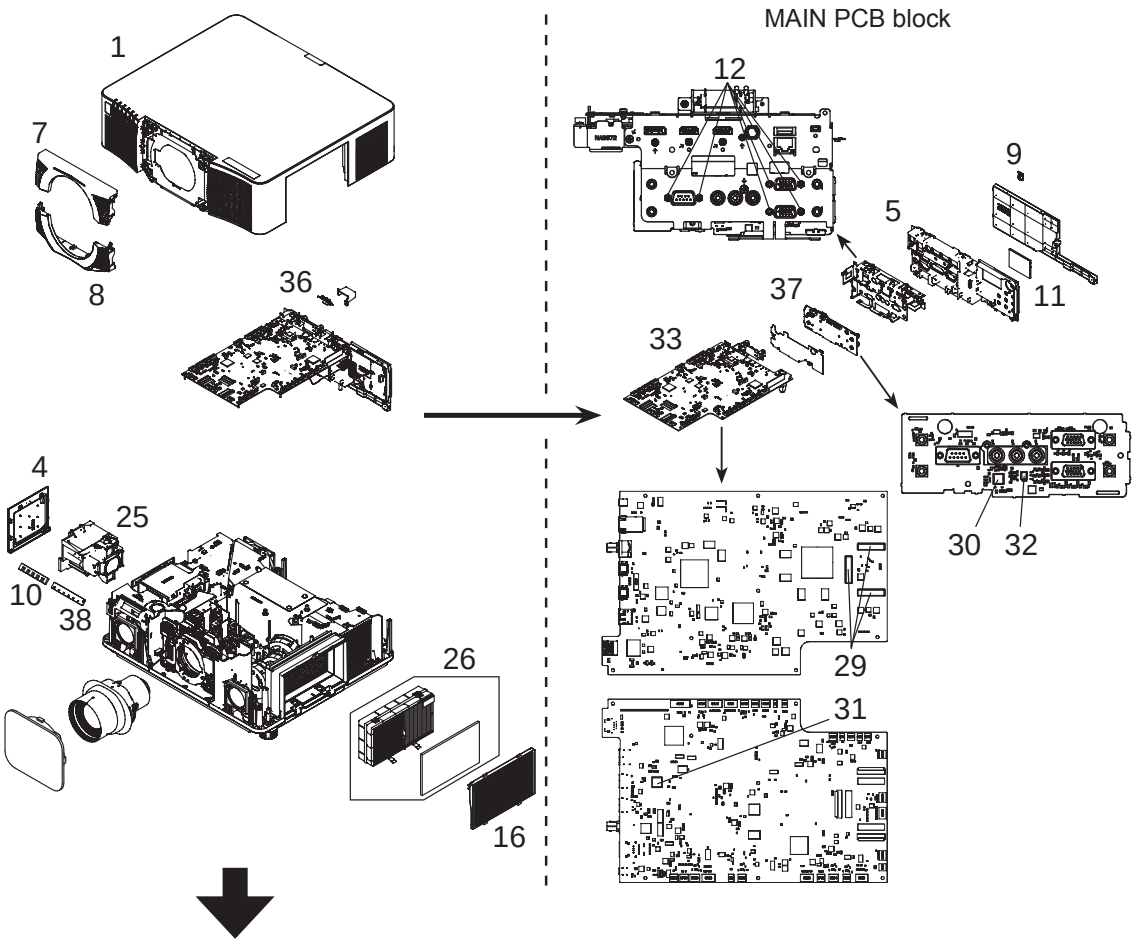


Flip the stopper of the connector housing and insert the panel flexible cables into the each of connectors. Turn and close the stopper (in the dotted line) to fasten the panel flexible cable.

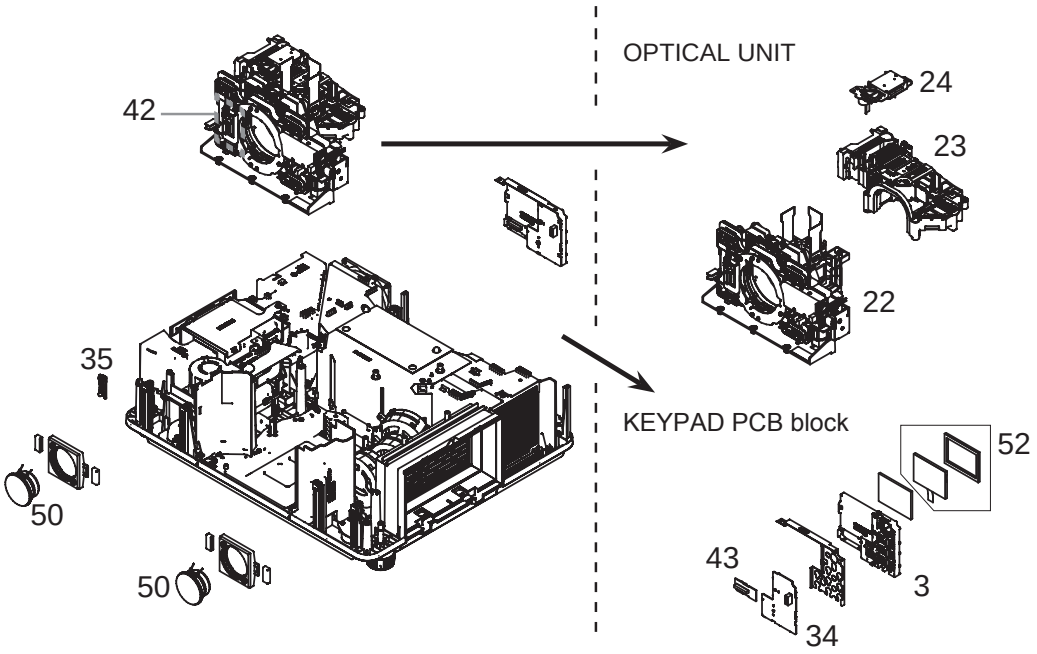
Handle the panel flexible cable carefully to avoid bending and damaging. Make sure to use a jig when attaching the cable.

8. Disassembly diagram

■ Remove FRONT COVER / LENS / UPPER CASE / LED PCB / MAIN PCB block / LAMP UNIT / AIR FILTER

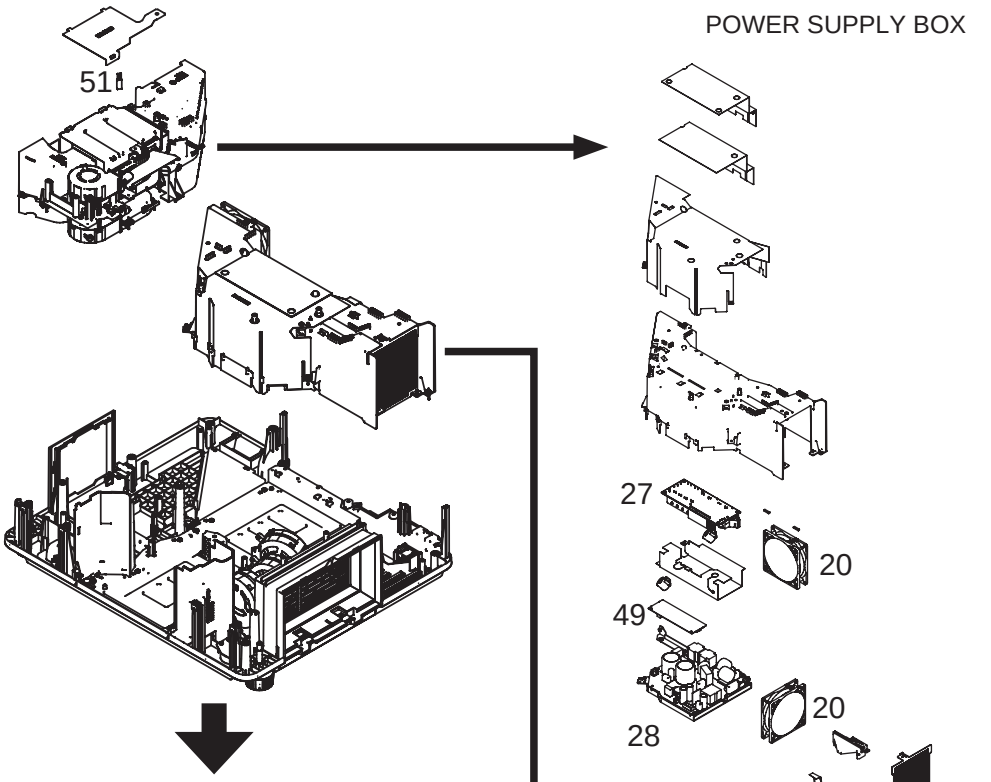


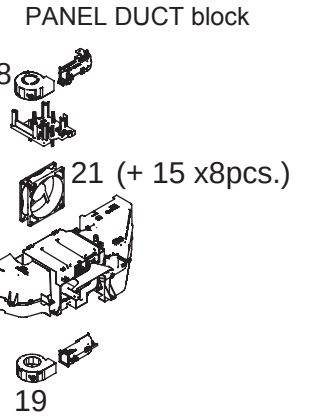
■ Remove KEYPAD PCB block / LAMP FAN1 / LAMP FAN1 DUCT / OPTICAL UNIT



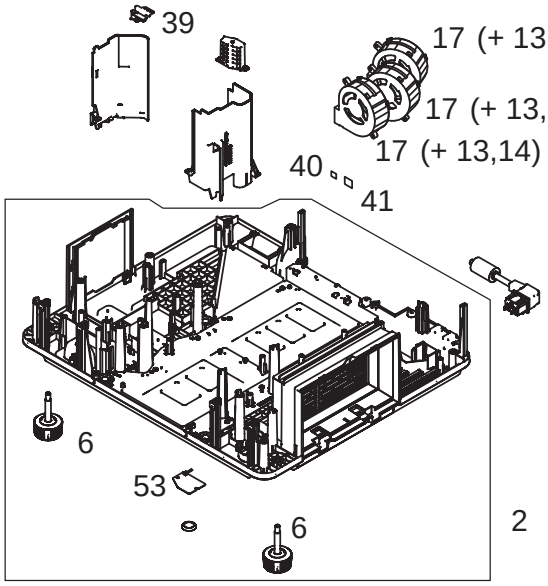
(Continued on next page)

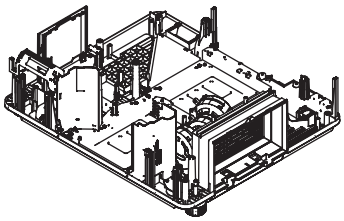
■ Remove INTAKE HOUSE / TSW / INTAKE DUCT COVER / IR LENS / AC INLET / POWER SUPPLY BOX / INTAKE DUCT / LAMP HOUSE





■ Remove Axial fans / PANEL DUCT block / LAMP FAN2 / LAMP FAN2 DUCT / LAMP DOOR SW PCB.





Notice

⚠ CAUTION

Pay attention not to cut your hand or finger with sharp edges of the objects inside the projector. Wear glove as necessary to protect your hand and finger during the work of disassembling/ assembling. Pay attention not to damage the wires or any other fragile parts of the projector.

■ FRONT COVER (FRONT COVER ASS'Y) / LENS (LENS ASS'Y)

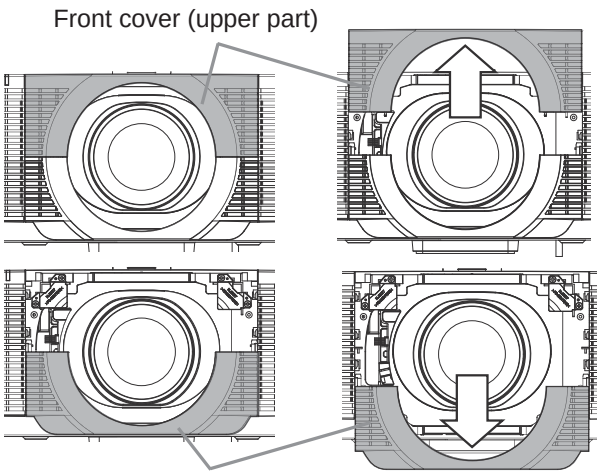
⚠ CAUTION

- Take care to avoid hitting the surface of the LENS.
- Do not touch the socket/plug on the PCBs (ADAPTER / LENS ADAPTER PCB) or subject it to impact. Use an air duster (dust blower) when cleaning them to avoid rust and dust.

Disassembling

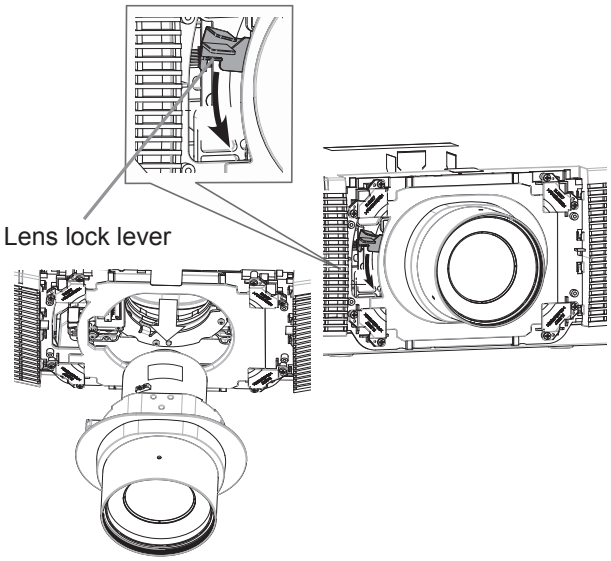
1. Return the lens shift to the center position
   (1) Press the **LENS SHIFT** button. The LENS SHIFT dialog will appear.
   (2) Press the **ENTER** or **INPUT** button while the dialog is displayed to execute the CENTERING feature, which adjusts the lens to the center.
   A message dialog is displayed for confirmation.
   (3) Pressing the ►button performs CENTERING.

NOTE:
- You can also perform CENTERING in the standby mode by pressing the **FUNCTION** and **LENS SHIFT** buttons on the control panel for 3 seconds at the same time.



2. Turn off the projector
   Turn off and unplug the projector, and allow the projector to sufficiently cool down.

3. Remove the front cover
   Slide the front cover (the upper part) upward while pressing the front cover from the underside and remove the front cover from the projector.
   Then, slide the front cover (the lower part) downward while pressing the front cover from the upperside and remove the front cover from the projector.

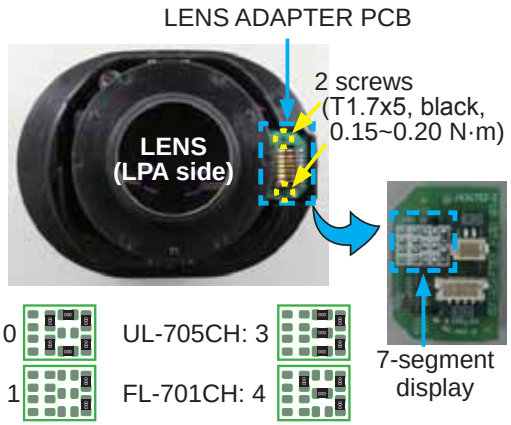


4. Remove the lens
   Support the lens, and lower the lens lock lever to the lowest position and remove the lens from the projector. You can move the lever while the upper plate touches lower one.

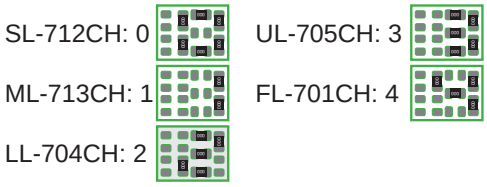
NOTE:
Insert the lens hole cover to prevent any substance getting into the lens installation area. Remove the lens unit and attach the lens hole cover when moving the projector.

● **Replacement of LENS and LENS ADAPTER PCB**

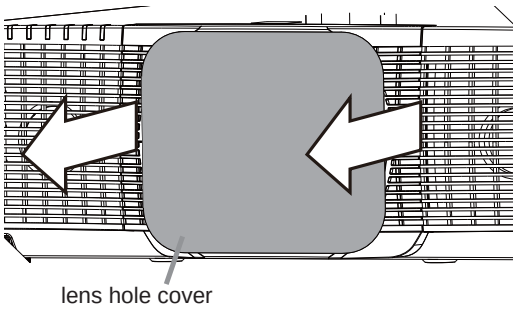
ATTENTION
Check the contacts of the socket on the LENS ADAPTER PCB are not bent before attaching the LENS to the projector. The LENS ADAPTER PCB is attached to the entry side of the LENS.



NOTE:
The type of the LENS ADAPTER PCB is different depending on the lenses, standard lens and each of optional lenses. The number of the PCB is indicated with chip registers in "7-segment display" method as on the right.

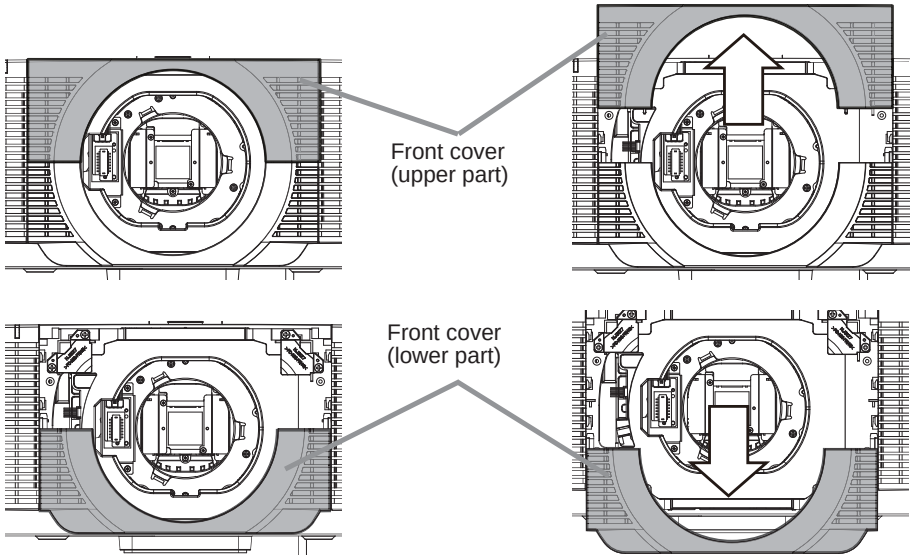


Assembling
1.Pull out the lens hole cover knobs to remove it.



NOTE:
Keep the lens hole cover for future use.

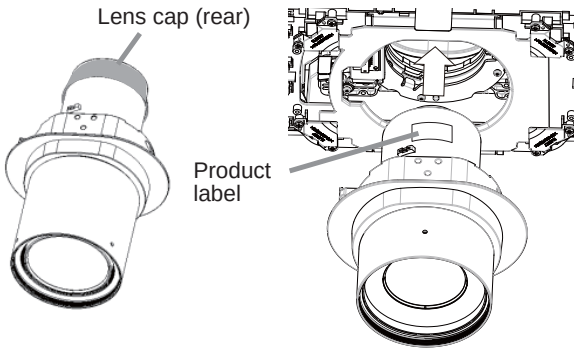
2.Remove the front cover
Slide the front cover (the upper part) upward while pressing the front cover from the underside and remove the front cover from the projector.
Then, slide the front cover (the lower part) downward while pressing the front cover from the upperside and remove the front cover from the projector.



(continued on next page)

3. Installing the lens

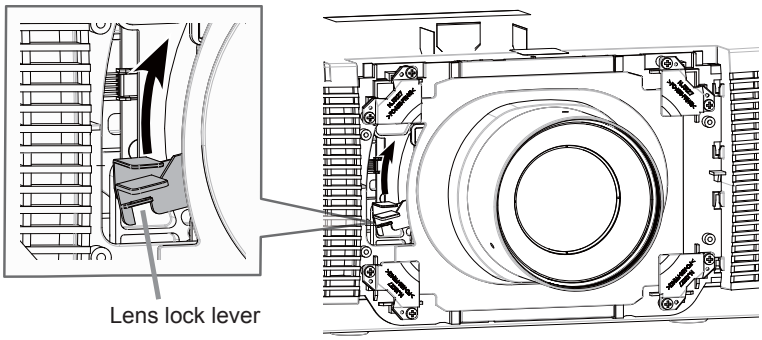
(1) Remove the lens cap. Then turn the product label of the lens upward and install the lens in the projector.



⚠ Caution

- Installing the lens in the projector with the lens cap on may lead to malfunction.
- Avoid hitting the surface of the lens on the projector when attaching the lens as this may lead to malfunction.
- Do not touch the connector of the lens or subject it to impact as this may lead to malfunction.

(2) Support the lens, and move the lens lock lever to the upside (until the lens lock lever clicks into the locked position).

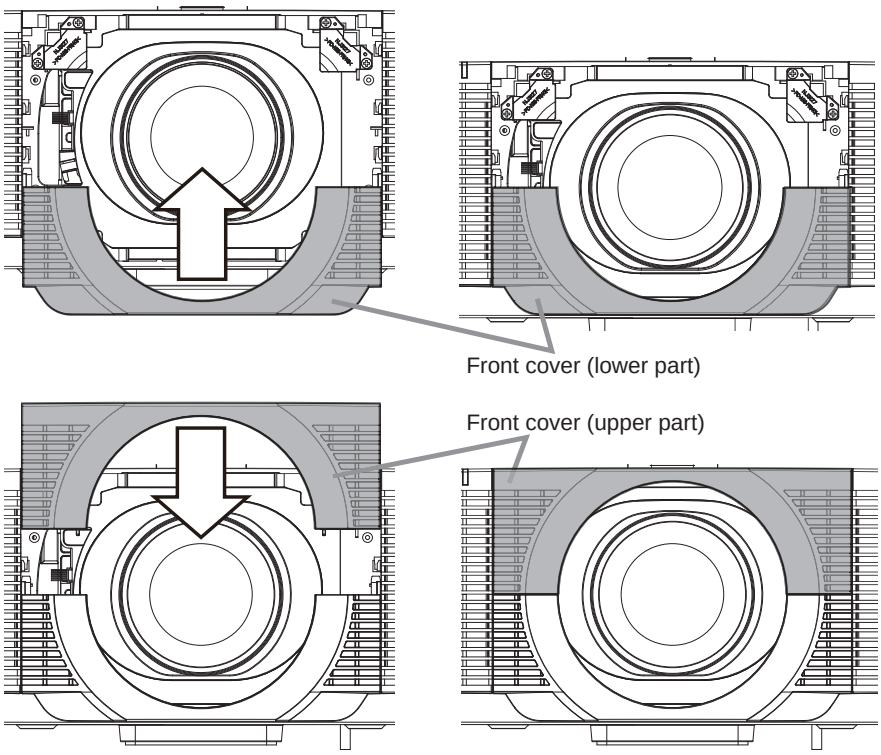


⚠ Warning

- To prevent the lens from falling off, after attaching the lens, check that it is securely mounted and that the lens does not move. If the projector falls or topples over, it could result in injury or damage to the projector and the surrounding things.

4. Attaching the front cover

Insert the front cover into the projector body



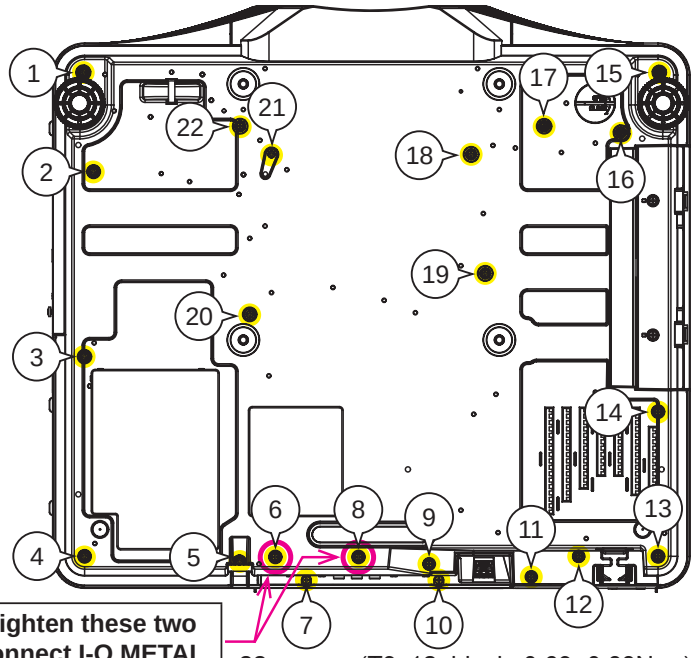
■ UPPER CASE (UPPER CASE ASS'Y)

Disassembling

Loosen and remove 22 screws on the bottom, and then lift the UPPER CASE upwards to detach it.

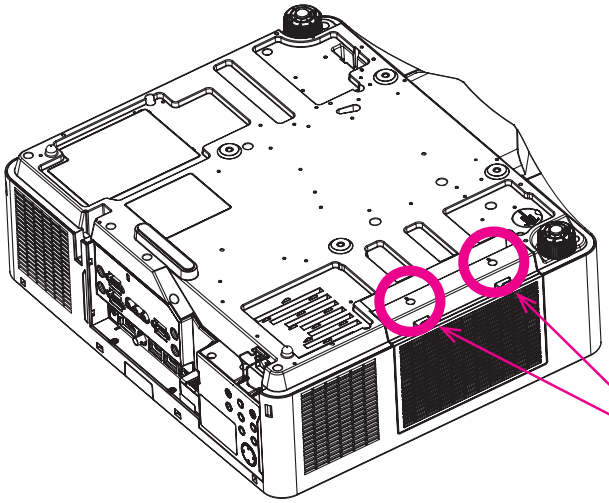
Assembling

Put the UPPER CASE to the projector, and turn it over. Tighten 22 screws on the bottom in numerical order shown in the drawing.



Make sure to tighten these two screws that connect I-O METAL and safety earth.

22 screws (T3x12, black, 0.69~0.88N·m)



engraved mark

When disassembling, it is not necessary to remove two screws with "□" engraved marks.

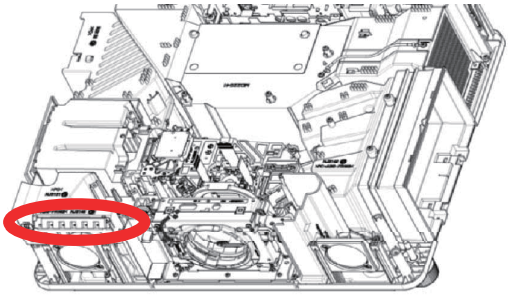
ATTENTION

Use the packing material or some cushion to stabilize the projector when tightening or loosening the screws on the bottom. If the stress concentrates at the curved portion of the UPPER CASE when working on the unit, it may cause shadow in the screen or other optical mulfunction. Also the unit is rather slippery and tends to rattle without any cushion.

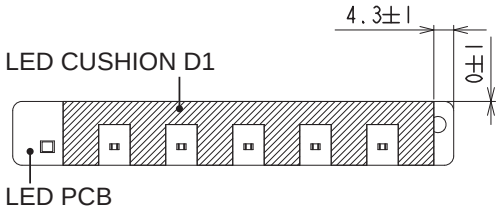
■ LED PCB (PWB ASS'Y LED)

● Replacement of LED PCB

Release LED PCB by pressing down on the two tabs that are securing the PCB.



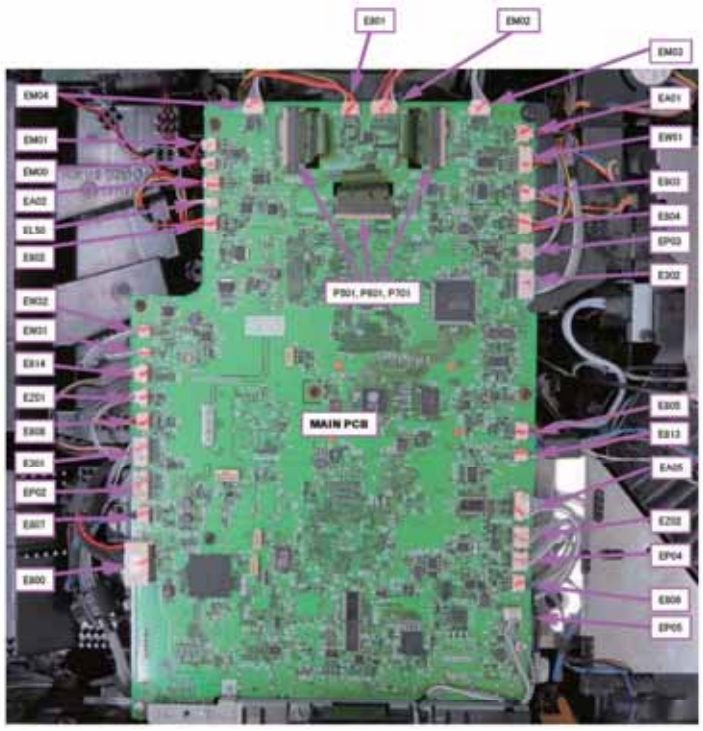
Replace the LED PCB with attached LED CUSHION D1. Stick the cushion to the new LED PCB avoiding overlap with LEDs as illustrated in the following figure.
Refer to the chapter ***Replacement Part list*** for the details of the LED CUSHION D1.

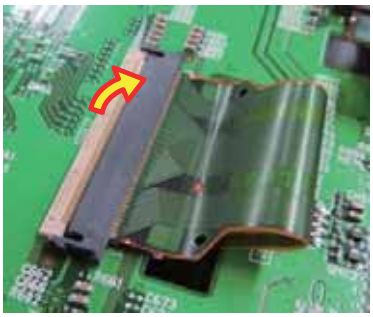


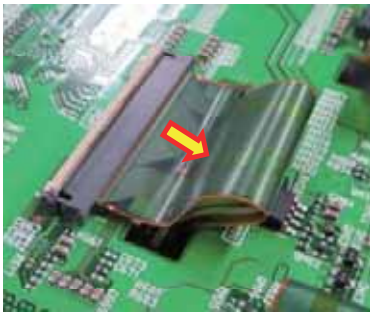
■ MAIN PCB block (MAIN / INPUT / W.REMOTE PCB, I/O METAL, I/O PANEL)

Disassembling

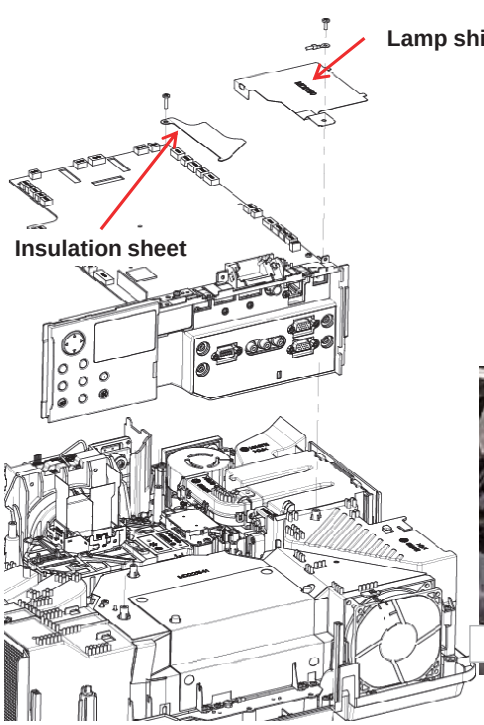
1) Disconnect 34 connectors on the MAIN PCB.
   To disconnect the flexible flat cable, flip up the lock, then pull the cable gently as shown below.
2) Remove the screw which secures the earth cable CNGD6.
3) Remove 6 screws on the MAIN PCB.

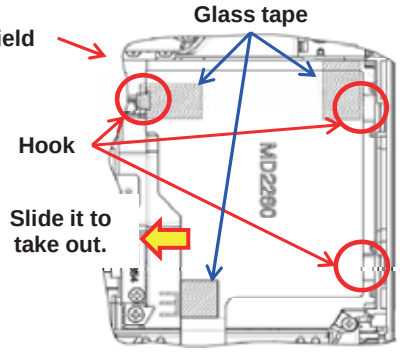


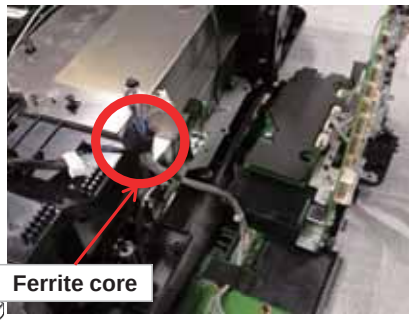




4) Remove insulation sheet.
5) Remove lamp shield after removing screw on CNGD2 and glass tapes.



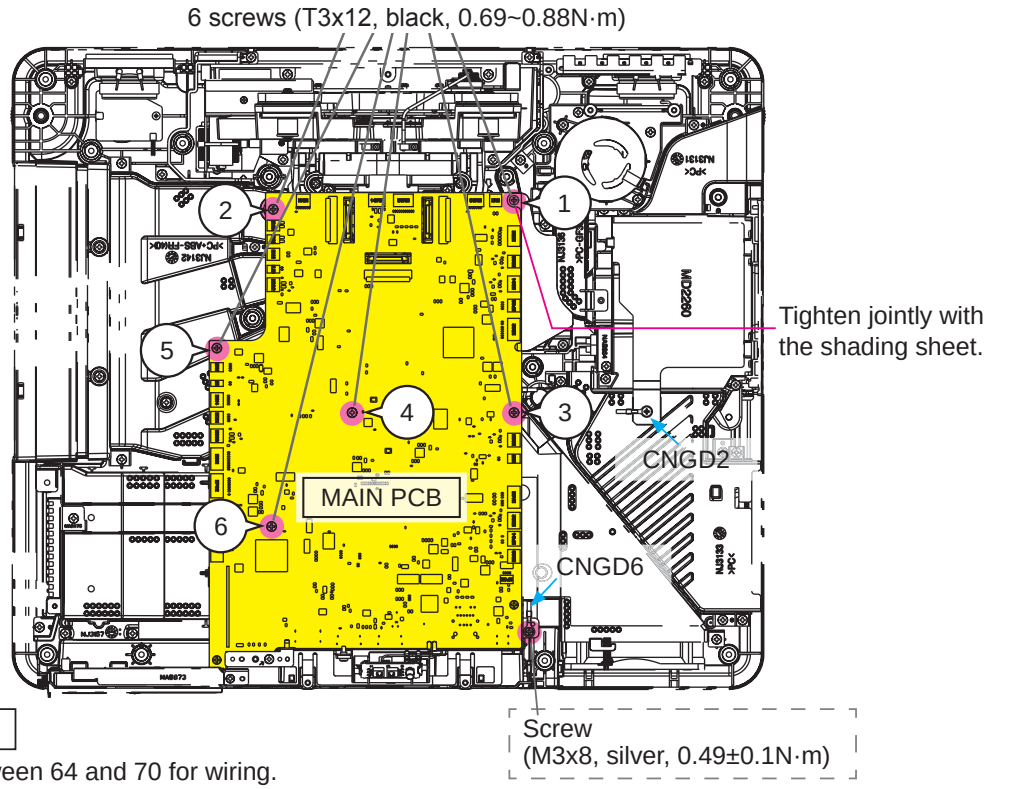




6) Remove ferrite core.

Assembling

1) Set the block of the MAIN PCB in place.
2) Tighten 6 screws on the MAIN PCB and insulation sheet in numeric order shown in the drawing.
3) Tighten 6 screws on the rear panel.
4) Screw down the earth cable CNGD6.
5) Set the lamp shield and screw down the earth cable CNGD2. Then, fix with glass tapes.
6) Add the ferrite core.



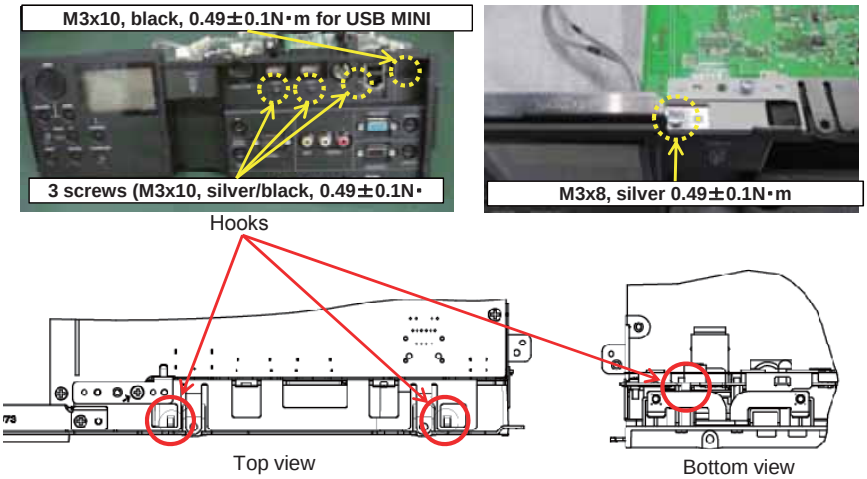
Wiring

Refer to page between 64 and 70 for wiring.

● **I/O Panel**

Disassembling

1) Remove 5 screws. (4 on the rear side and 1 on the top side)
2) Unhook the I/O panel at 3 points to remove the I/O panel covering the I/O METAL.



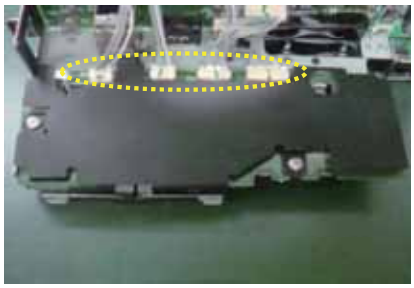
Assembling

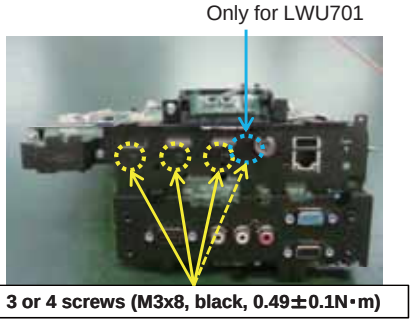
1) Set the I/O Panel. (Confirm hooks are firmly stuck in 3 locations.)
2) Tighten 5 screws.

● Main PCB

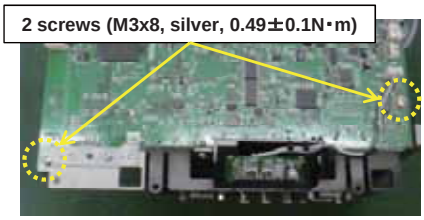
Disassembling

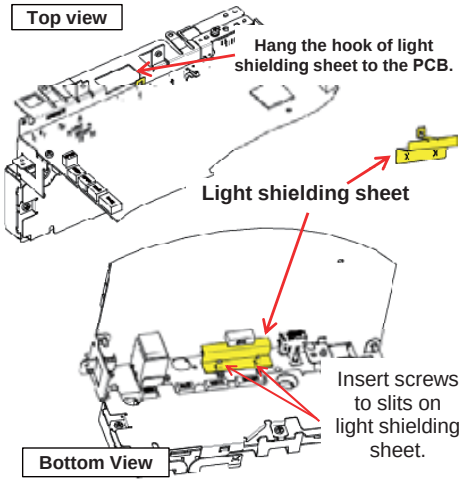
1) Disconnect four connectors on the INPUT PCB.
2) Remove four (for LWU701i) or three (for the other models) screws on I/O METAL.





3) Remove 2 screws on MAIN PCB.
4) Remove the light shielding sheet.





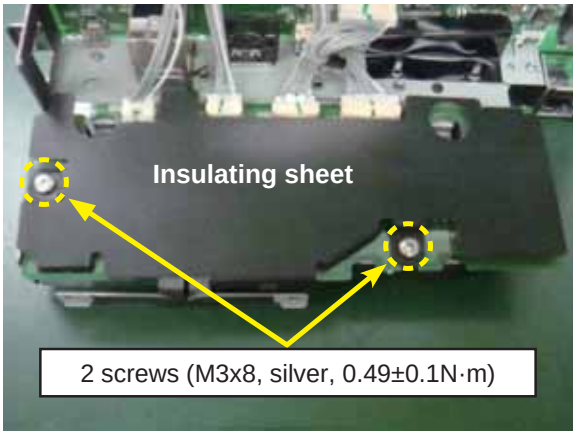
Assembling

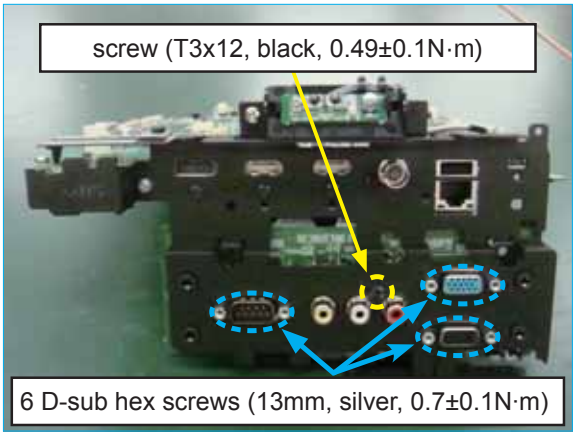
1) Set the light shielding sheet to the PCB.
2) Tighten 2 screws on MAIN PCB.
3) Tighten 4 screws (for LWU701i) or 3 screws. (for other models)
4) Insert screws to slits on light shielding sheet.
5) Connect 4 connectors.

● INPUT PCB

Disassembling

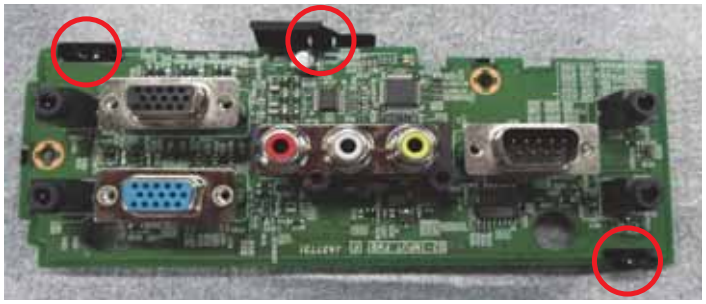
1) Disconnect 4 connectors on the INPUT PCB.
2) Remove two screws on INPUT PCB to separate the insulating sheet.
3) Remove a screw and six hexagonal screws for D-sub connectors from the I/O METAL.





Assembling

1) Set the insulating sheet. Confirm 3 hooks are firmly fixed.
2) Tighten 2 screws to fix the insulating sheet.
3) Connect the 4 connectors to INPUT PCB.
4) Set I/O METAL and tighten a screw and 6 D-sub hex screws.



Wiring

Refer to page 59 for wiring.

■ KEYPAD PCB block (REMOTE-R / KEYPAD PCB, CONTROL BUTTON, STATUS MONITOR)

● KEYPAD PCB (PWB ASS'Y KEYPAD)

Disassembling

1) Remove three screws to separate the KEYPAD PCB from the CONTROL BUTTON.
2) Take out black tape and disconnect the connector.
3) Remove 2 screws.
4) Unlock 2 hooks.

Assembling

1) Set PCB and lock 2 hooks.
2) Tighten 2 screws.
3) Connect the cable and paste it using black tape.
4) Tighten 3 flanged screws.

Wiring

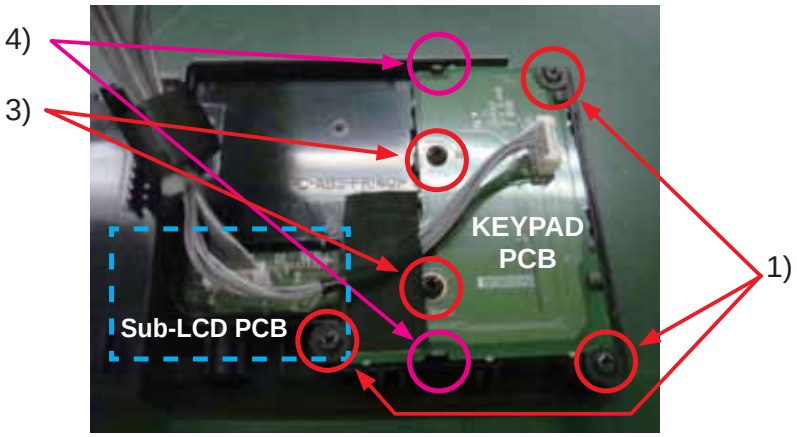
Refer to page 61 for wiring.

T3x8 screw (black, 0.49±0.1N·m) for the KEYPAD PCB
Pay attention not to use wrong screws such as T3x12 used for fastening inner parts to the BOTTOM CASE.

● Sub-LCD PCB

Disassembling

Flip the stopper of ER50 (FPC connector) to release the FPC cable of the STATUS MONITOR, disconnect cable (CNLCD) and release the Sub-LCD PCB from the hook of CONTROL BUTTON.



Assembling

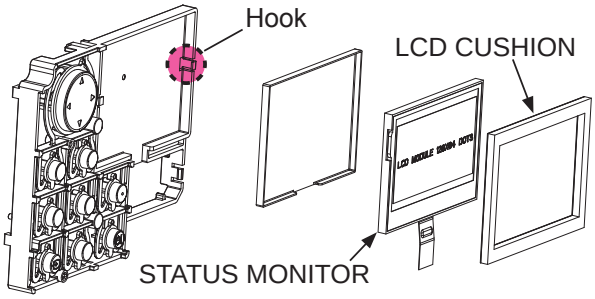
Set Sub-LCD PCB , connect a cable (CNLCD) and connect the FPC cable as shown in next page in detail.

● STATUS MONITOR

Disassembling

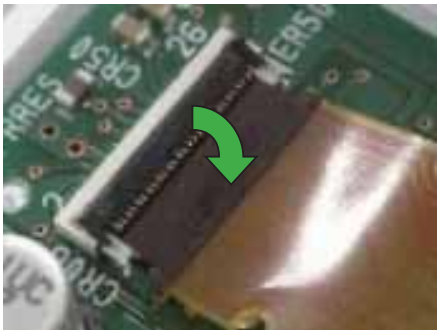
1) Confirm the STATUS MONITOR is locked by the claw of CONTROL BUTTON firmly.
2) Flip the stopper of ER50 (FPC connector) of the REMOTE-R PCB to release the FPC cable.

3) Take the LCD CUSHION off.
4) Release the STATUS MONITOR from the hook.



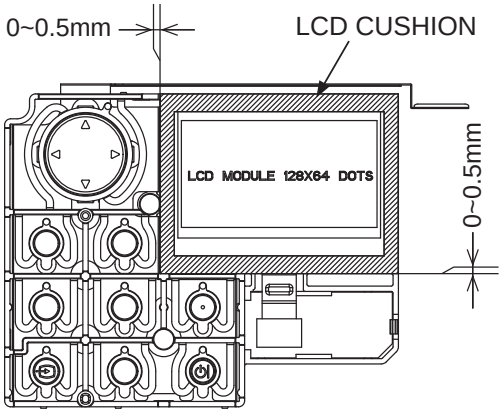
Assembling

1) Attach the STATUS MONITOR to the CONTROL BUTTON with the hook firmly.
2) Turn the stopper of ER50 of the REMOTE-R PCB to fasten the FPC.



3) Make sure to attach the LCD CUSHION when you replace the STATUS MONITOR. Attach the cushion to the edge of the STATUS MONITOR.

NOTE:
Align the cushion to the frame of CONTROL BUTTON as shown in the drawing.



● REMC-Rear PCB (PWB Assy REAR-RC)

Disassembling

1) Bend 2 tabs to take out PCB.
2) Disconnect the cable.

Assembling

1) Connect the cable to PCB.
2) Set the PCB between tabs.

Wiring

Refer to page 61 for wiring.

■ POWER SUPPLY BOX and peripherals

⚠ CAUTION

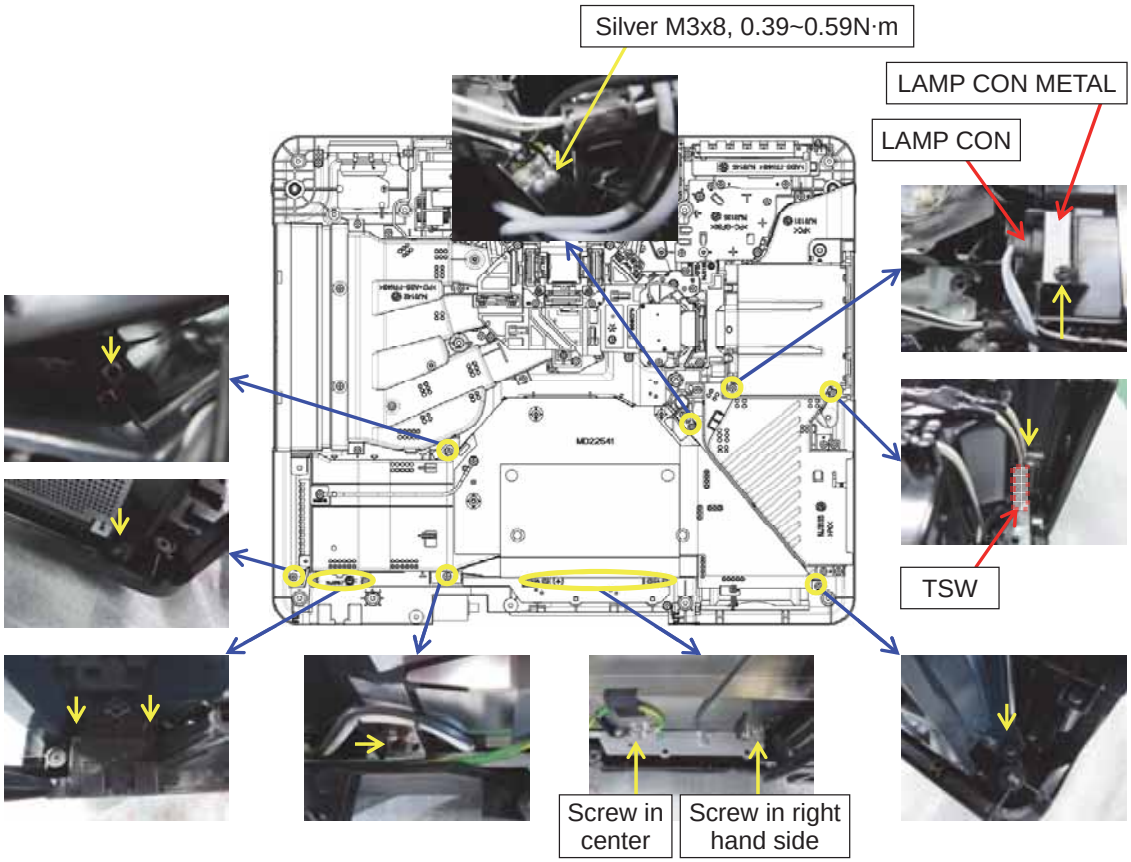
Pay attention not to cut your hand, finger or wire with sharp edges. Wear glove as necessary to protect your hand and finger during the work.

NOTE:

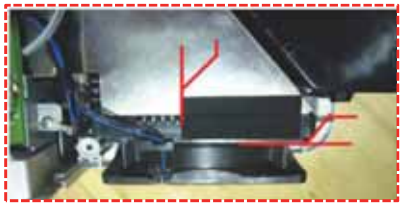
The location of screws fastening each part is shown below. The screw type is all T3x12, black, tightening torque: 0.69~0.88N·m except 3 screws described in the figure below.

Disassembling

1) Remove a screw to remove lamp door.
2) Remove 3 screws to remove lamp.
3) Remove 11 screws.
4) Remove LAMP CON METAL and LAMP CON.

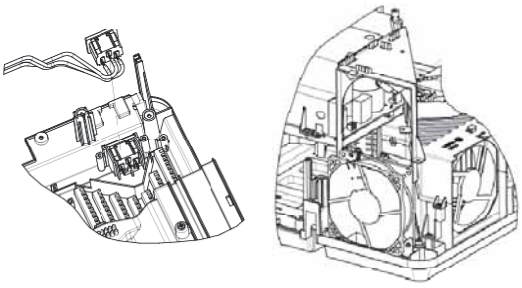


Silver M3x8, 0.39~0.59N·m for both screws



5) Remove a temperature sensor (TSW).
6) Release fan cable from rib and remove black tape.
7) Lift up POWER SUPPLY BOX to remove. Pull out AC INLET also upward to remove.

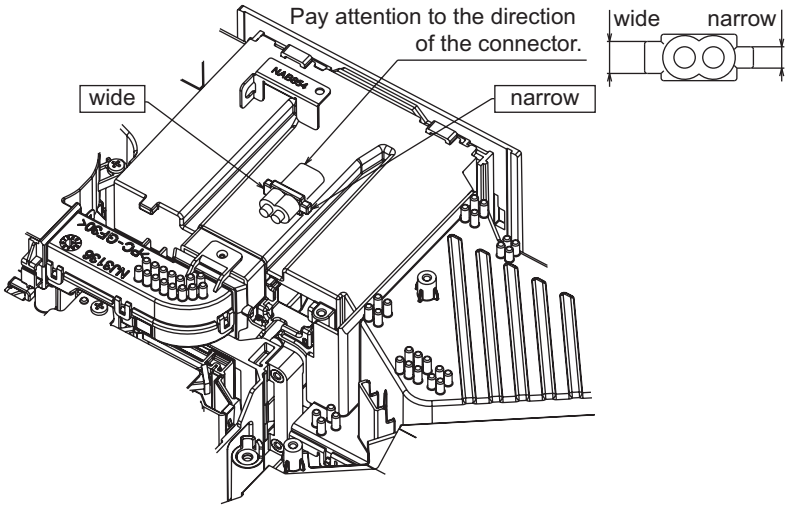
Assembling



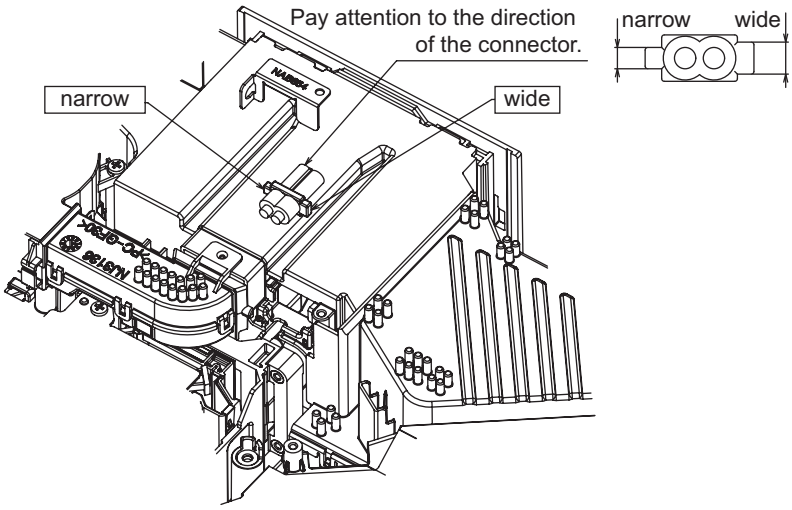
1) Set AC INLET to the bottom case in the direction as shown in the figure. Put the harness and core inside the rib for sure. Do not pinch the harness.
2) Fit the rib surface to the back side of fan to drop POWER UNIT ASSY straight.
3) Insert temperature sensor (TSW).
4) Insert LAMP CON and attach LAMP CON METAL.

NOTE:
Make sure that the LAMP SOCKET connector is fixed correctly as follows.

[LWU601i / LW651i]



[LWU701i / LW751i / LX801i]



5) Tighten 11 screws.
6) Insert lamp and tighten 3 screws.
7) Close lamp door and tighten 1 screw.

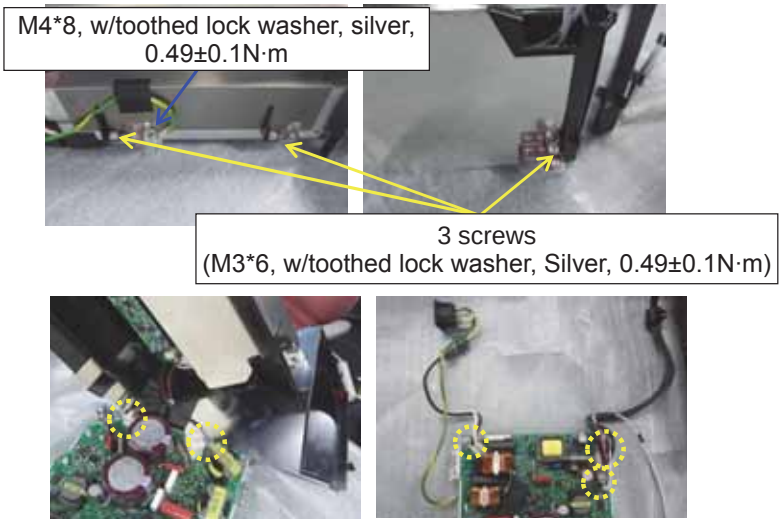
Wiring

Refer to page 62 and 63 for wiring.

● POWER UNIT

Disassembling

1) Remove 4 screws with toothed lock washers to open POWER SUPPLY BOX.
2) Disconnect 5 connectors to devide POWER UNIT and AC INLET.



Assembling

1) Connect 5 connectors to POWER UNIT.
2) Cover POWER SUPPLY BOX to POWER UNIT and tighten 4 screws with toothed lock washers.

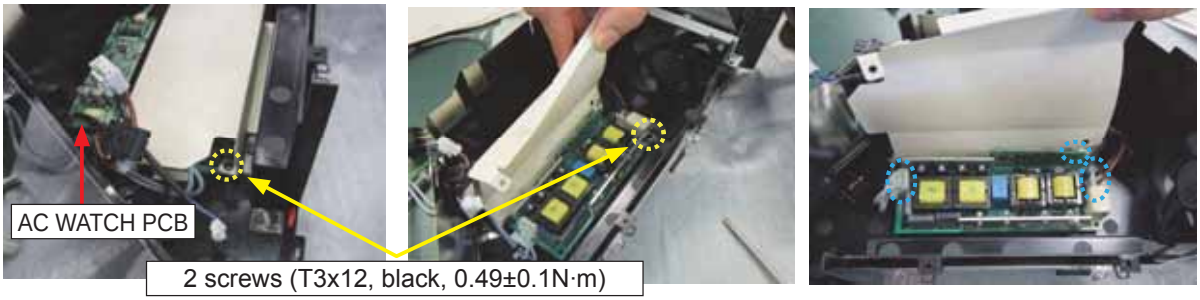
Wiring

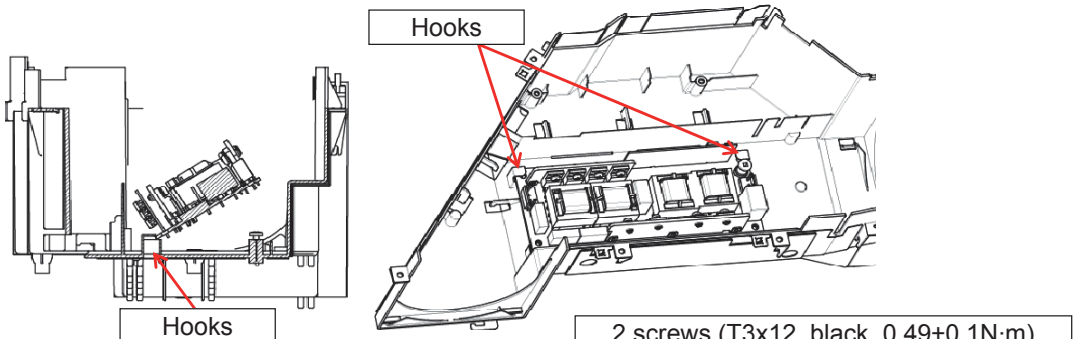
Refer to page 52 and 53 for wiring.

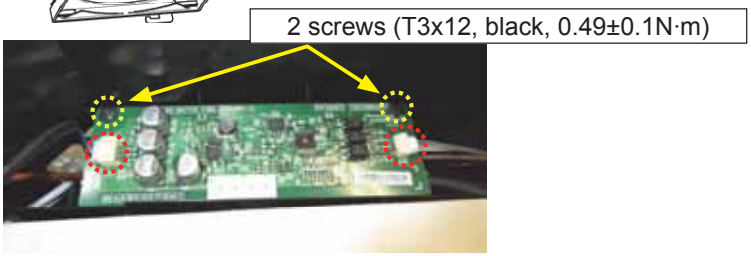
● BALLAST UNIT and AC WATCH

Disassembling

1) Remove a screw and flip the sheet.
2) Remove one more screw while the sheet is filpped up.
3) Disconnect 3 connectors.
4) Slide Ballast PCB to remove from hooks.
5) Remove 2 screws.
6) Disconnect 2 connectors.
7) Remove AC WATCH PCB.
8) Remove 3 harnesses from rib.
9) Remove sheet.

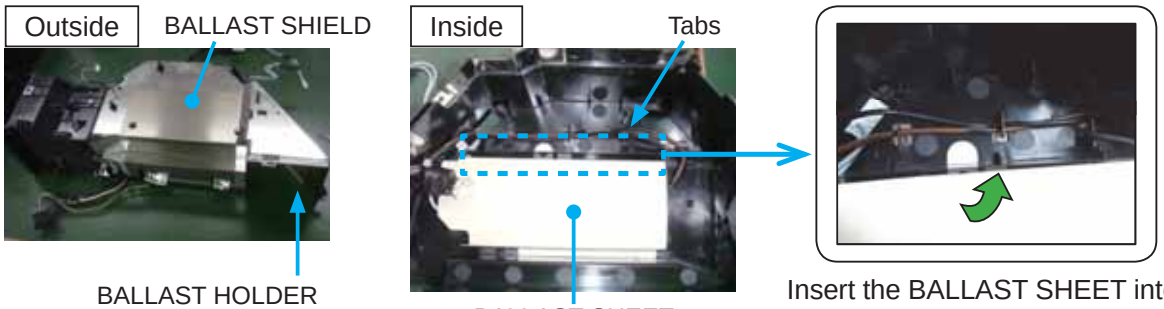






Assembling

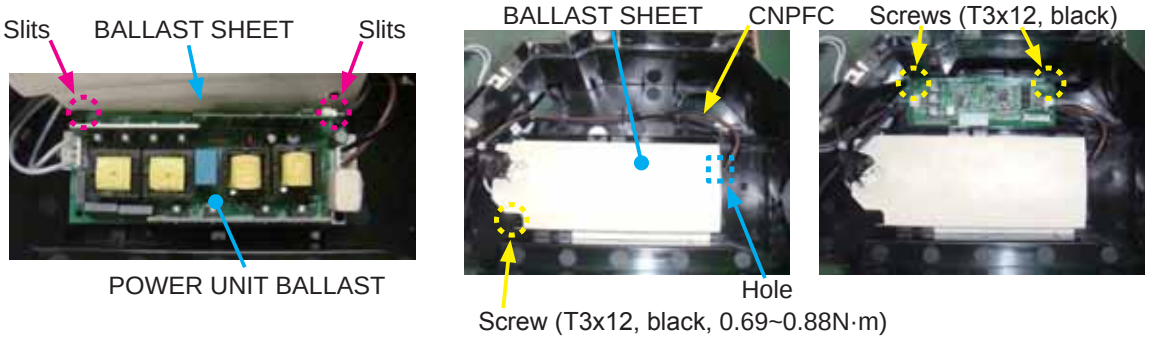
1. Preparation
   1) Confirm that the BALLAST SHIELD (metallic cover) is properly attached to the BALLAST HOLDER (plastic mold).
   2) Confirm that two tabs of the BALLAST SHEET are properly inserted into the slits of the BALLAST HOLDER.



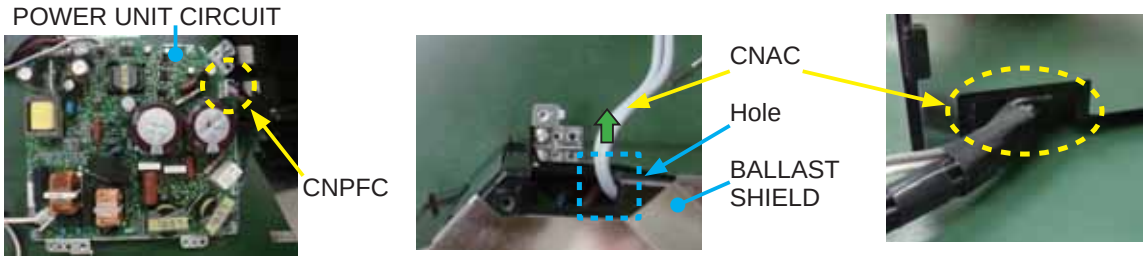
Insert the BALLAST SHEET into the slits as shown this picture to make the work easier.

(Continued on next page)

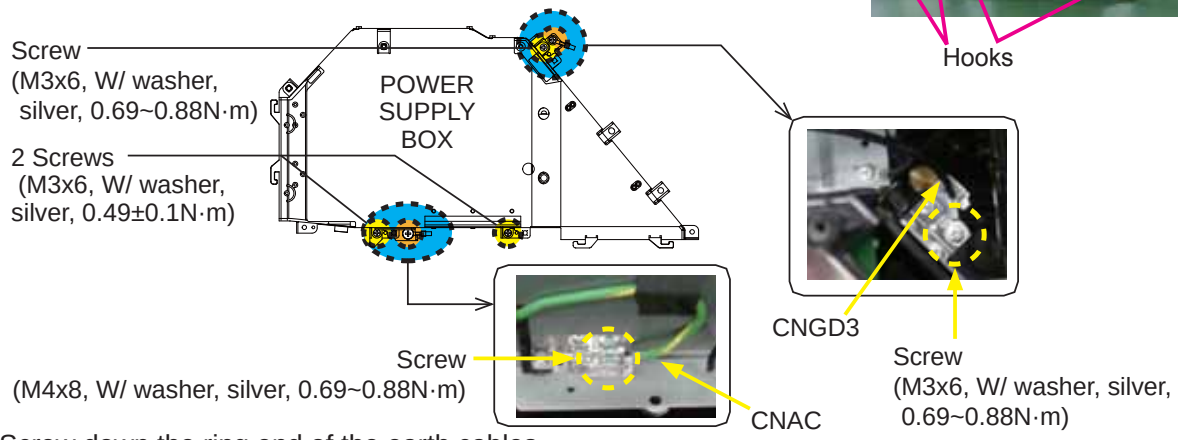
2. Attach the POWER UNIT BALLAST and AC WATCH PCB.
   1) Turn over the BALLAST SHEET, and then slide the BALLAST unit to insert its two corners into the slits of the BALLAST HOLDER.
   2) Turn the BALLAST unit and insert another corner of it into the slit of the BALLAST HOLDER.
   3) Close the BALLAST SHEET to set in place, and screw it down with the BALLAST unit. Pass the cable to connect with the POWER UNIT CIRCUIT (CNPFC) through the hole of sheet.
   4) Attach the AC WATCH PCB in place, and fasten it with 2 screws.



3. Connect the CNPFC from the POWER UNIT BALLAST to the POWER UNIT CIRCUIT until it clicks firmly.
4. Connect the AC power cable (CNAC) from the AC INLET.
   1) Slide up the BALLAST SHIELD a little to align the holes of BALLAST HOLDER and BALLAST SHIELD. And then, insert the connector housing of CNAC into the hole.
   2) Connect the CNAC to the POWER UNIT CIRCUIT as shown in the picture.



5. Confirm that the edges of the BALLAST SHIELD are in the hooks of the BALLAST HOLDER before tightening screws.
6. Set the BALLAST HOLDER and the BALLAST SHIELD onto the POWER UNIT CIRCUIT, and then fasten them with three screws.



7. Screw down the ring end of the earth cables.
   1) Fasten the ring end of CNAC by the detent with a screw.
   2) Fasten the earth cable CNGD3 by the detent with a screw.

Wiring

Refer to page between 50 and 52 for wiring.

■ OPTICAL UNIT and peripherals

⚠ CAUTION

Handle the LCD Prism Shift mech. assembly with care in order not to make the convergence worse.

Disassembling

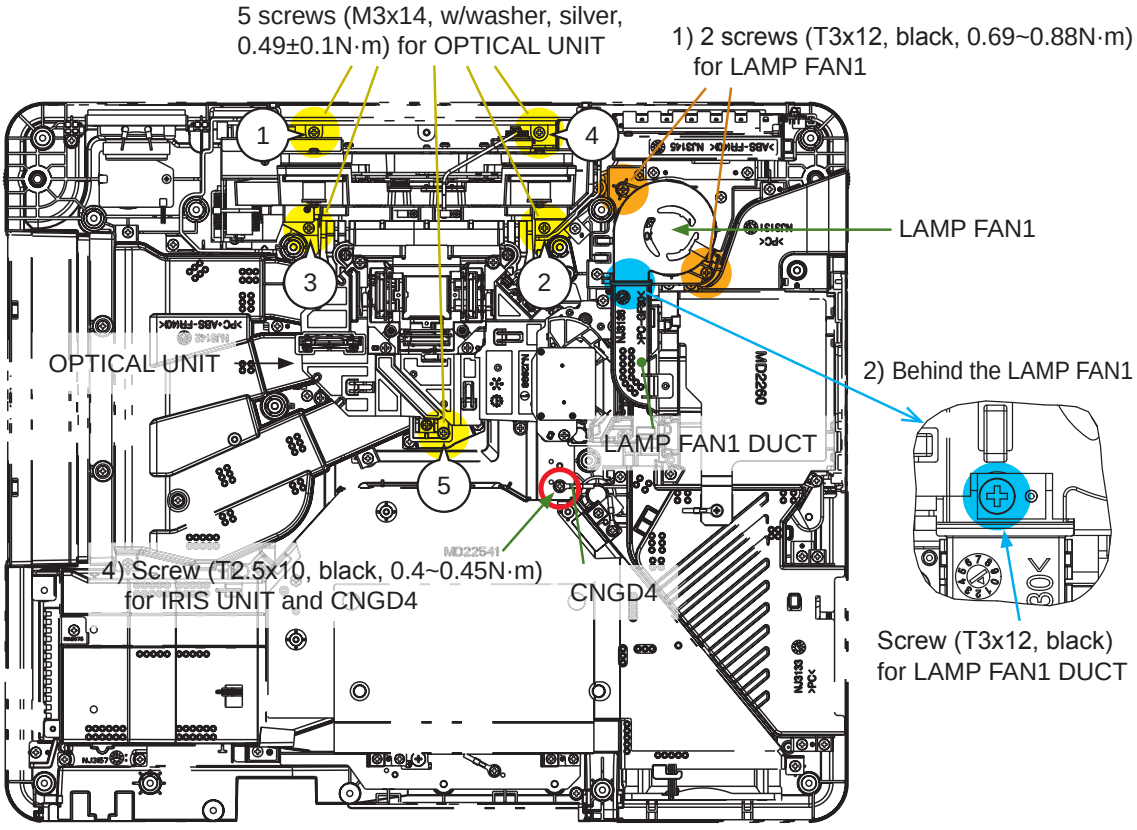
ATTENTION

Be sure to remove the LAMP UNIT prior to the OPTICAL UNIT.

1) Remove two screws to detach the LAMP FAN1.
2) Remove a screw to detach the LAMP FAN1 DUCT.
3) Remove five screws to detach the OPTICAL UNIT and the earth cable (CNGD2).
4) Remove a screw on the IRIS UNIT (OPTICAL UNIT) to detach the earth cable (CNGD4).

Assembling

1) Place the OPTICAL UNIT to the projector and fasten it with five screws in numeric order shown in the drawing. Tightening these screws in wrong order can make the convergence worse.
2) Attach and screw down the LAMP FAN1 DUCT.
3) Attach and screw down the LAMP FAN1.
4) Fasten the earth cable CNGD4 with a screw to the IRIS UNIT.



Pay attention to the type of screws and screw fastening torque when replacing the OPTICAL UNIT.
Screws may run idle if fastened with torque more than specified value.

● LCD Prism Shift mech. assembly (LCD/PRISM ASS'Y), DICHROIC OPTICS UNIT

⚠ CAUTION

Put the optical unit separated from the projector on a flat and stable place, and do this work.
Pay attention not to touch the optical components such as the lens and the optical filters.

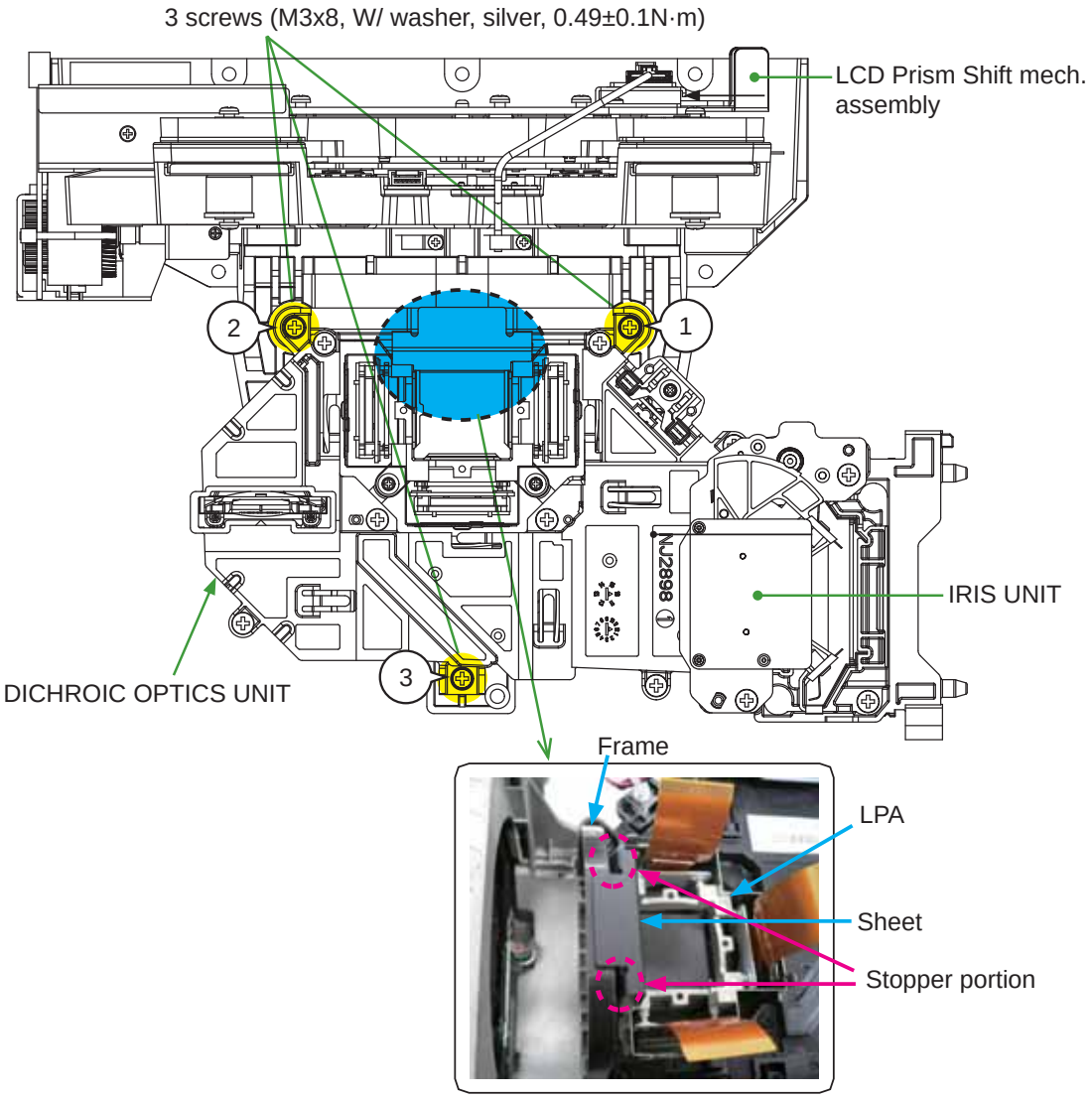
Disassembling

1) Remove three screws illustrated in the drawing.
2) Hold the DICHROIC OPTICS UNIT, and move it up to separate from the LCD Prism Shift mech. assembly. Take care not to hold the movable parts of IRIS UNIT.

Assembling

1) Set the DICHROIC OPTICS UNIT onto the LCD Prism Shift mech. assembly.
2) Fasten the OPTICAL UNIT with 3 screws in numerical order shown in the drawing below. Tightening these screws in wrong order can make the convergence worse.
3) Make sure the wide tab of the sheet attached to LPA is over the frame and the both stopper portion are on the prism side of the frame.

NOTE:
Detach/attach the IRIS UNIT according to the section "**IRIS UNIT**". The IRIS UNIT can be detached /attached even when the DICHROIC OPTICS UNIT has not been separated.

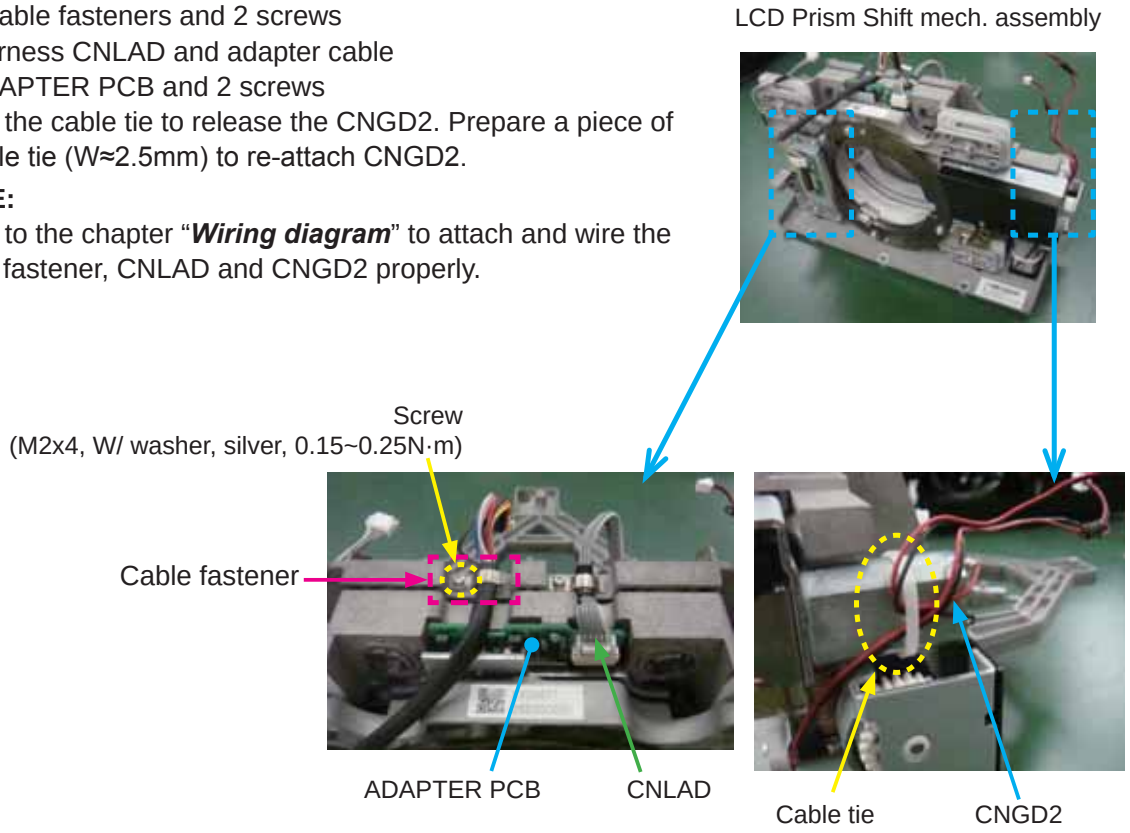


● Replacement of LCD Prism Shift mech. assembly (LCD/PRISM ASS'Y)

Remove the following parts from the LCD Prism Shift mech. assembly before replacement, and re-use them with the replaced one.

1) 2 cable fasteners and 2 screws
2) Harness CNLAD and adapter cable
3) ADAPTER PCB and 2 screws
   Cut the cable tie to release the CNGD2. Prepare a piece of cable tie (W≈2.5mm) to re-attach CNGD2.

NOTE:
Refer to the chapter "***Wiring diagram***" to attach and wire the cable fastener, CNLAD and CNGD2 properly.



● IRIS UNIT

⚠ CAUTION

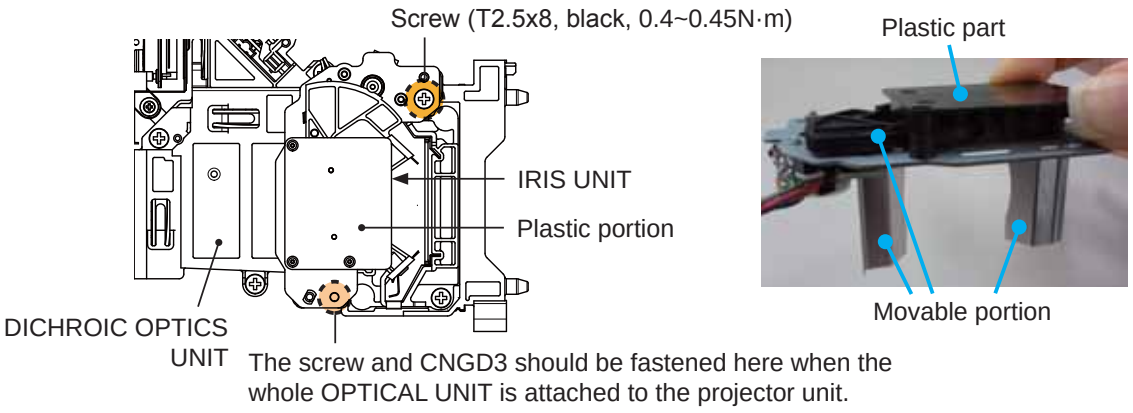
Never hold the movable portion of the IRIS UNIT to avoid deformation when you handle the unit.

Disassembling

3) Remove the rest one screw.
4) Holding the plastic part of the IRIS UNIT, and lift it up straight so that the movable portion of the IRIS UNIT will not scratch other optical parts.

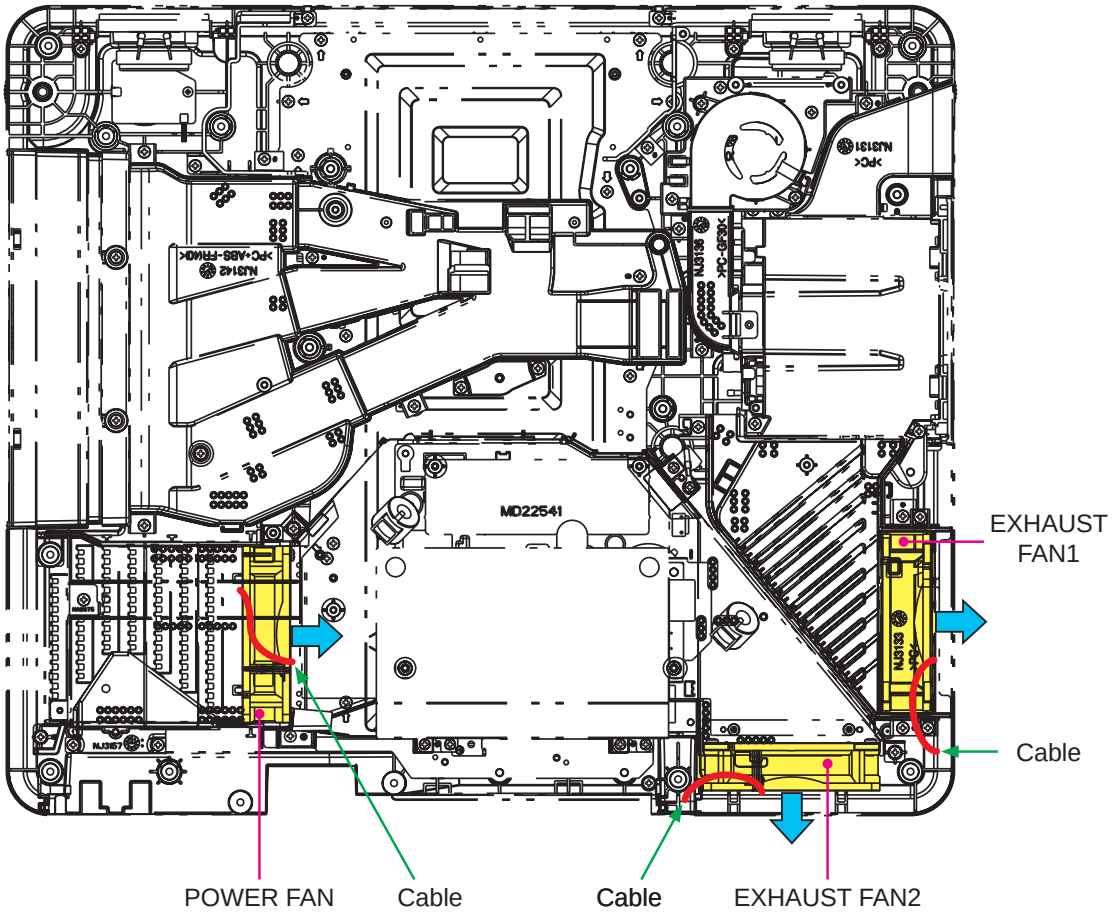
Assembling

1) Holding the plastic part of the IRIS UNIT, attach it to the DICHROIC OPTICS UNIT. Make sure not to set the unit in wrong direction.
2) Screw it down.



■ EXHAUST FAN1, EXHAUST FAN2, POWER FAN

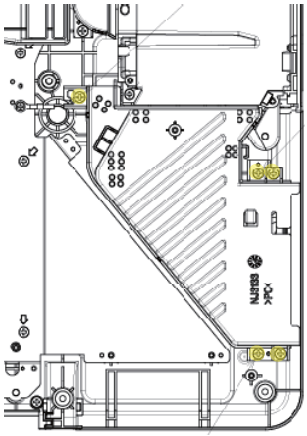
Put each fan to the BOTTOM CASE as shown in the drawing below. Be aware of facing of the labeled side (air flow exit side) and direction of drawing out cable. The arrows in the drawing shows the directions of air flow.



● Replacement of EXHAUST FAN 1 (DC FAN 9GA09P-PWM-Z4L171)

Replacing the exhaust FAN1

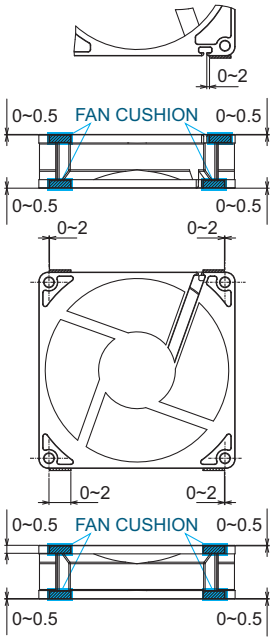
1. Release the harness from the clips.
2. Release the fan harnes from the ferrite core.
3. Remove the five screws securing the lamp exhaust duct.



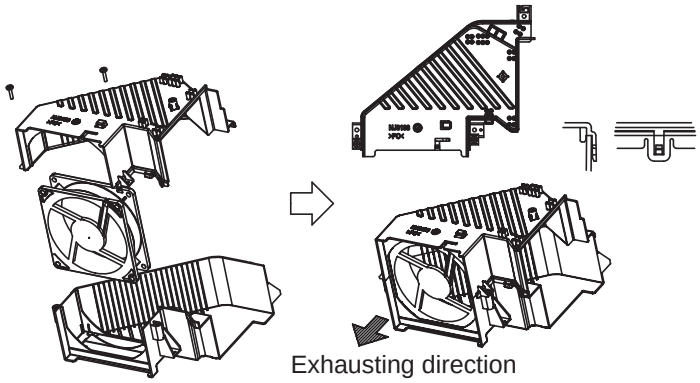
4. Release the three lock tabs to open the lamp exhaust duct.
5. Remove the fan.
6. To reinstall the fan, perform the above steps in reverse.

Regarding the assembling, pay attention as follows.

1) Attach the FAN CUSHION.
When you replace the EXHAUST FAN 1, please prepare also eight pieces of FAN CUSHION. Make sure to stick the cushions to a new fan properly as illustrated on the right. Refer to the chapter "***Replacement Parts list***" for the FAN CUSHION.



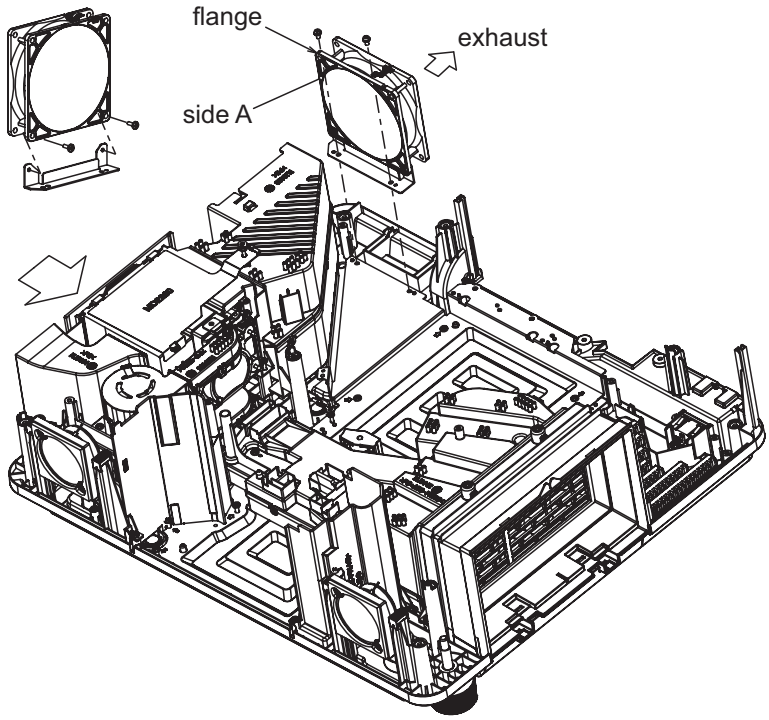
2) Arrange the fan cable.
Fold and secure the cable with a tape (NITTO tape No.5, W=9mm is recommended). Refer to the chapter "***Wiring diagram***" for the detail of arrangement.



● **Replacing the EXHAUST FAN2 (DC FAN T92T13PWM-Z4-L191)**

1. Remove the intake duct housing assembly.
2. Remove the two screws securing the bracket to the projector.
3. To remove the bracket from the fan, remove the two screws.
4. To reinstall the fan, perform the above steps in reverse.

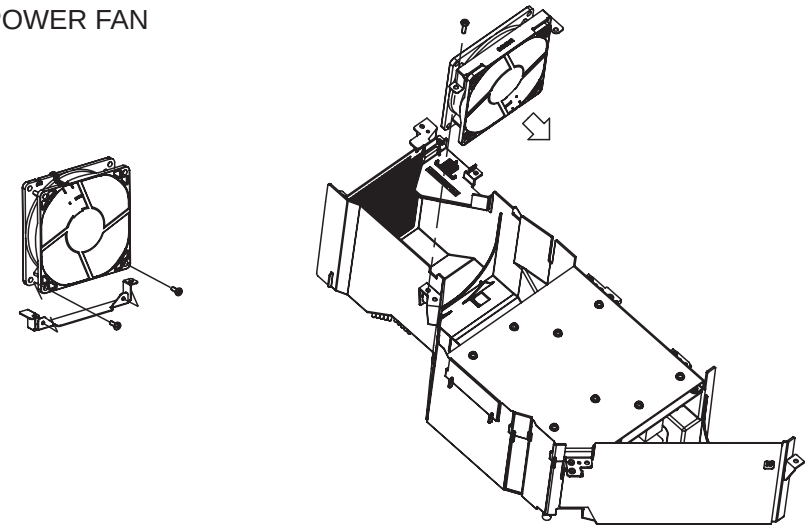
EXHAUST FAN2



● **Replacing the intake POWER FAN (DC FAN T92T13PWM-Z4-L191)**

1. Remove the intake duct housing assembly.
2. Release power fan harness from choke.
3. Remove the screw retaining the fan bracket.
4. Remove the fan assembly.
5. To remove the fan bracket, remove the two screws.
6. To reinstall the fan, perform the above steps in reverse.

POWER FAN



● UPPER COOLING FAN (DC FAN CY6023RPWM-G4L251) and peripheral

Disassembling

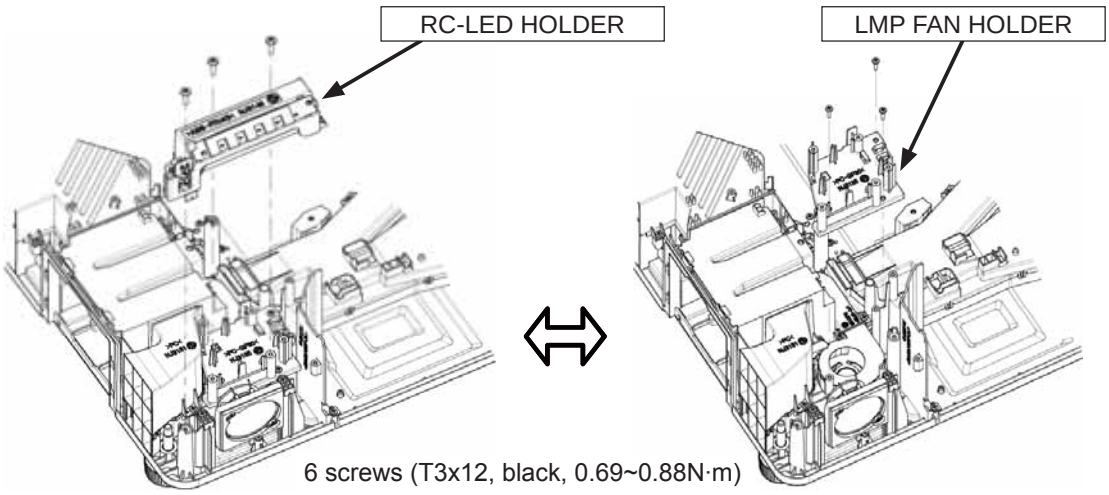
1) Release harness from LMP FAN HOLDER hook.
2) Remove 3 screws to remove RC-LED HOLDER.
3) Remove 3 screws to remove LMP FAN HOLDER.

Aassembling

To reinstall, perform above steps in reverse.

Wiring

Refer to page 67 for wiring.



● REMC-Front PCB (PWB Assy FRONT-RC) and LED PWB

Disassembling

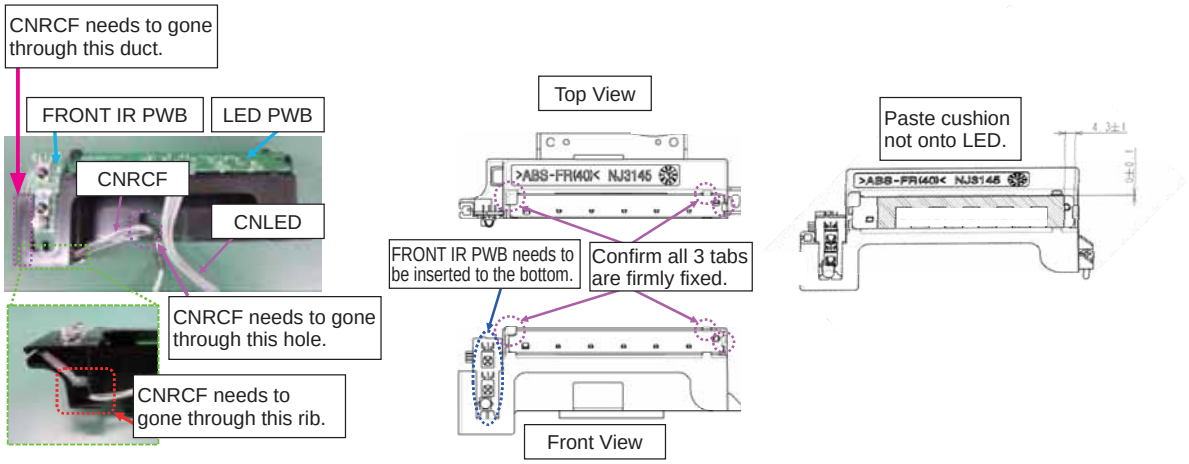
1) Bend 2 tabs to remove LED PCB and disconnect the connector.
2) Disconnect the connector from REM REMC-Front PCB and pull out the PCB upward.

Aassembling

1) Insert REM FRONT PCB to the slit to connect.
2) After connecting the cable to LED PCB, slide the LED PCB under the left hook to set. Confirm all 3 hooks are fixed properly.

Wiring

Refer to page 60 for wiring.



● SIDE GUARD, SPEAKER and BATTERY PWB

Disassembling

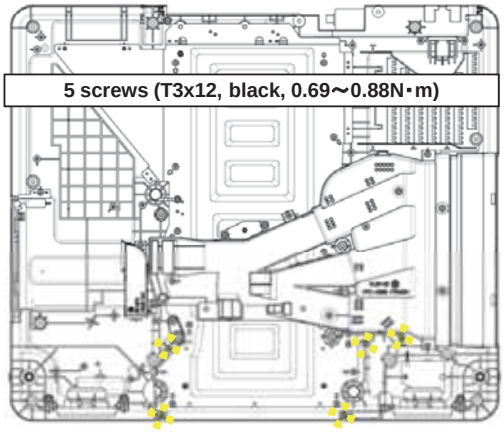
1) Remove 2 screws to remove SIDE GUARD L.
2) Remove 3 screws to remove SIDE GUARD R.
3) Remove 2 screws and stoppers to pull out Speaker L upward.
4) Remove 2 screws and stoppers to pull out Speaker R upward.
5) Remove a screw to remove BATTERY PWB.

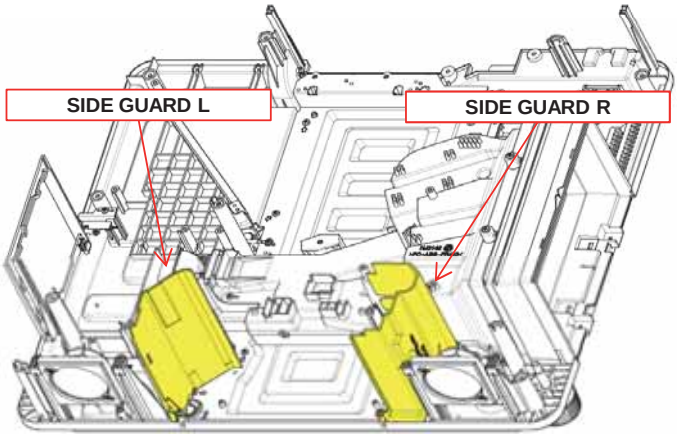
Aassembling

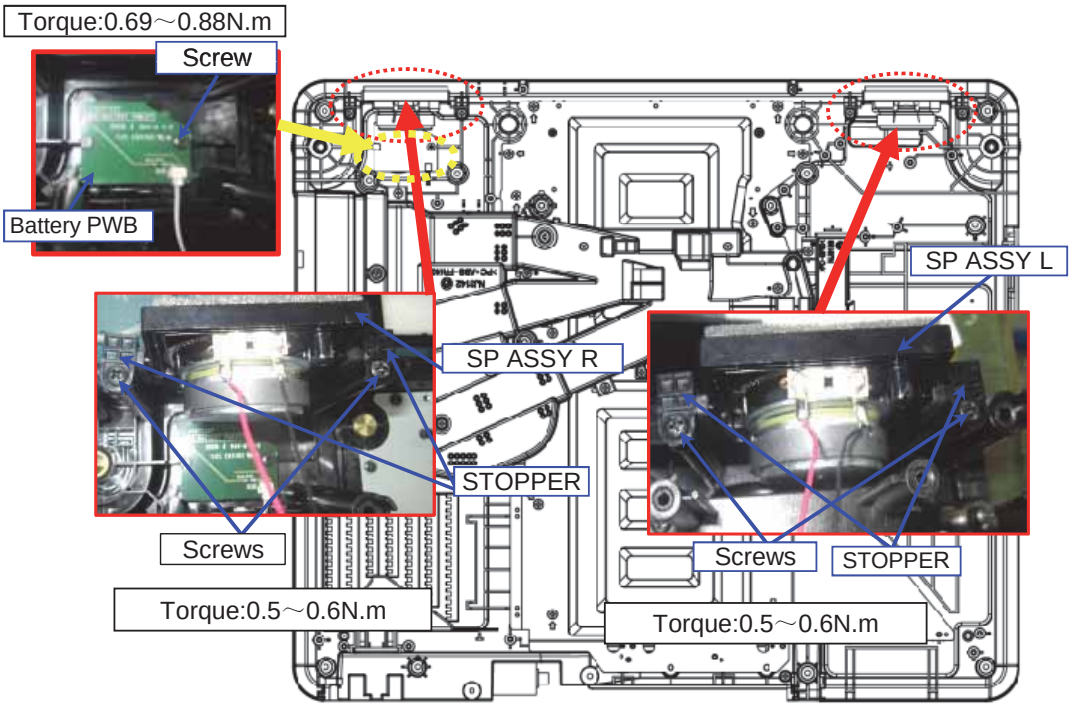
To reinstall, perform above steps in reverse.

Wiring

Refer to (5) in page 61 and (5)-1/(5)-2 in page 67 for wiring.







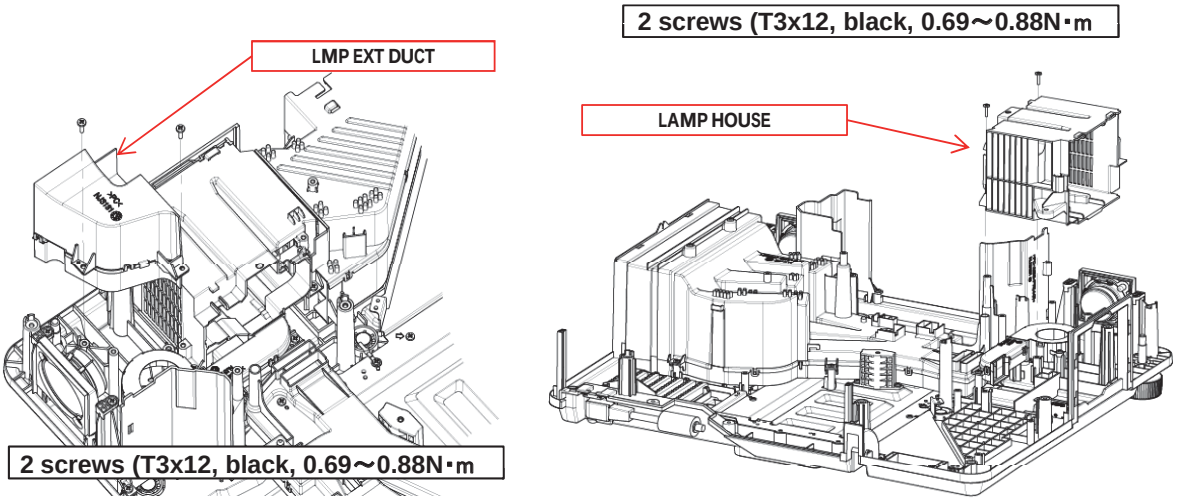
● LMP EXT DUCT, LAMP HOUSE and BTM COOLING FAN (DC FAN CY6023LPWM-Z5L221)

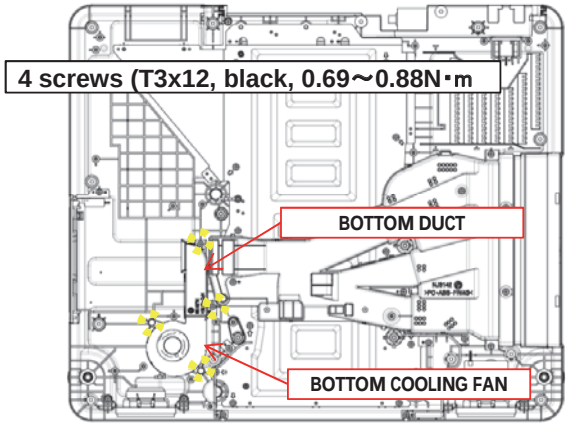
Disassembling

1) Remove 2 screws to remove LMP EXT DUCT.
2) Remove 2 screws to remove LAMP HOUSE.
3) Remove 2 screws to remove BOTTOM DUCT.
4) Remove 2 screws to remove BOTTOM COOLING FAN.

Aassembling

To reinstall, perform above steps in reverse.





■ PANEL DUCT block

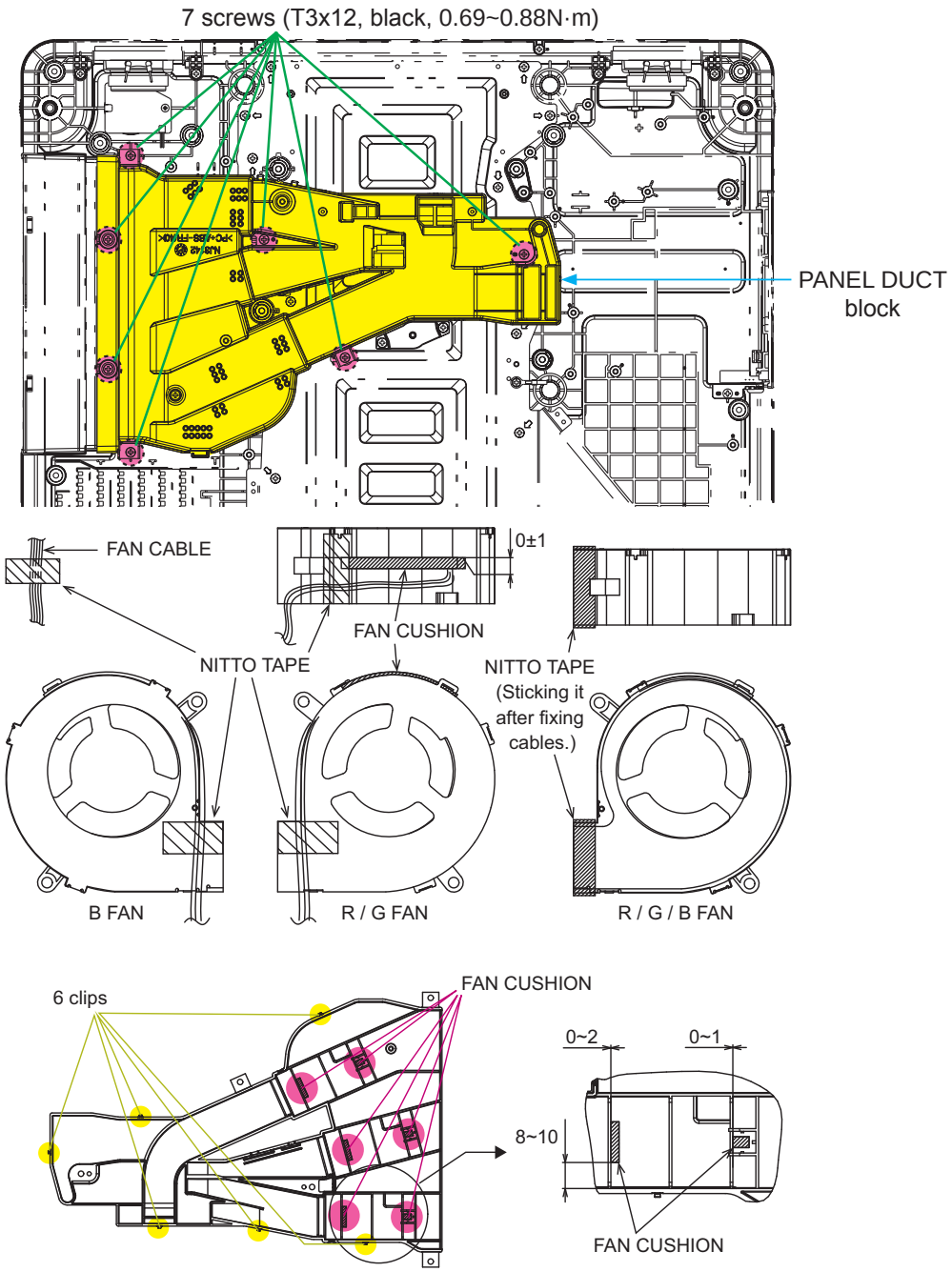
Disassembling

1) Remove seven screws illustrated in the drawing and detach the PANEL DUCT block from the BOTTOM CASE.
2) Take out cable between speaker and battery PCB.
3) Remove a screw and release six clips to open the PANEL DUCT.

Assembling

1) Set the PANEL FAN, PBS FAN and SENSOR-A/B PCBs.
2) Close and fasten the PANEL DUCT with its clips, then screw it up.
3) Put the PANEL DUCT block on the BOTTOM CASE and screw it down.

NOTE:
When the LAMP FAN2 DUCT has already been attached, slide the lamp-side end of the PANEL DUCT block into the place.



As for disassembling of the PANEL DUCT block, refer also to the next page.

● **Replacement of PANEL FAN (DC FAN G10D13BPWM-P4L301) & Sensor A/B PCB**

When you replace the PANEL FAN, please prepare also a piece of FAN CUSHION*.
Make sure to stick the cushion to new PANEL FAN properly as illustrated on the right.
Refer to the chapter "***Replacement Parts list***" for the FAN CUSHION*.

NOTE:
FAN CUSHION is not necessary for PBS FAN

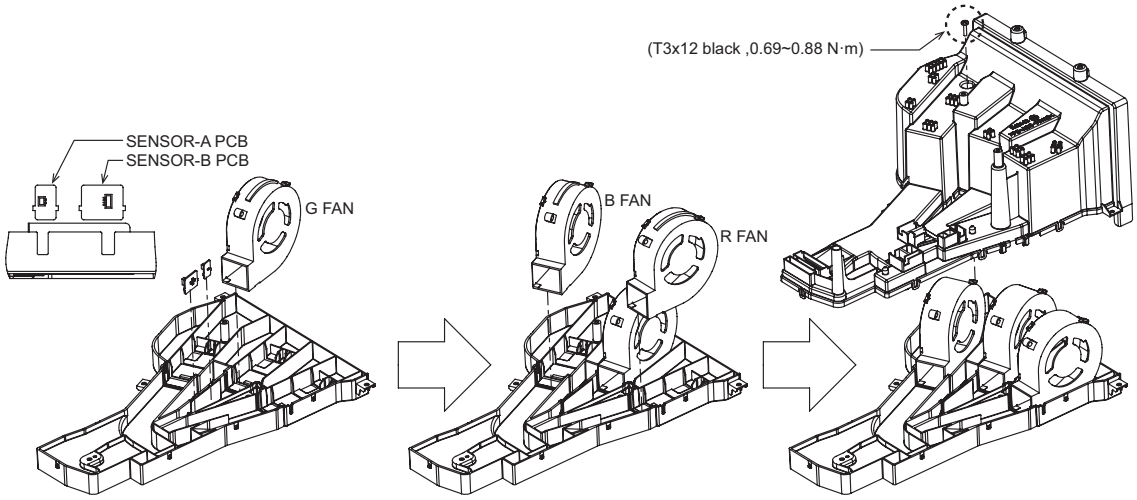
* FAN CUSHION: Parts list SYMBOL No.23

Disassembling

1) Remove 1 screw.
2) Take out cables.
3) Release 6 hooks.
4) Take out fans.
5) Take out sensors.
6) To reinstall, perform above steps in reverse.

Wiring

Refer to page 56 and 57 for wiring.



■ **IO COVER (IO COVER ASS'Y)**

● **Replacement of IO COVER**

When you replace the IO COVER, please prepare also a piece of LCD DISPLAY WINDOW (transparent acrylic plate). Make sure to stick the window to the rear panel of new IO COVER properly as the picture on the right.
Refer to the chapter "***Replacement Parts list***" for the LCD DISPLAY WINDOW.

● BOTTOM CASE

Disassembling

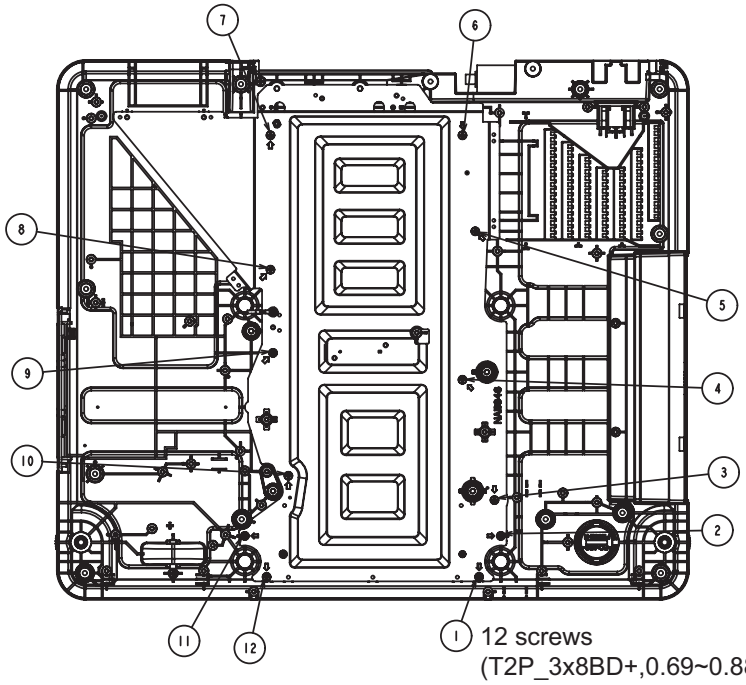
Remove 12 screws and detach the bottom metal.

NOTE:
Remember to detach the bottom metal and re-use them with new BOTTOM CASE.
The service parts do not include the metal.

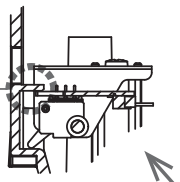
Assembling

Put the bottom metal on the BOTTOM CASE and fix them with 12 screws in numerical order shown in the drawing.

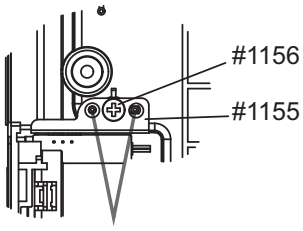
NOTE:
There is a risk of breakage if the screws are not fastened with a specified torque.



1 12 screws
(T2P_3x8BD+,0.69~0.88N·m)



Fix the LIMIT SW PCB so that it can be under the rib.
It is not allowed that it is hooked by the rib or it rides over the rib.



When fixing (#1155), be sure to pass these pins through the two holes of (#1155) and fasten the screw (#1156) with pressing the screw fastening surface.
Riding over the pin is not allowed.
Execute the visual confirmation shown in figure A to prevent malfunction of the LIMIT SW after fastening the screw.

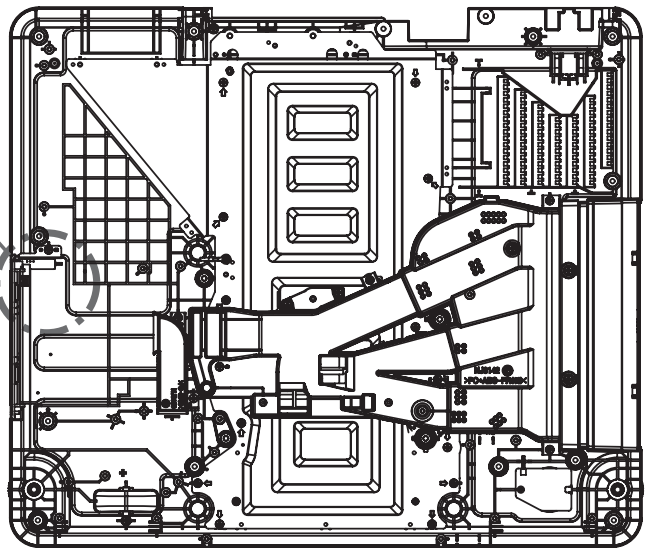
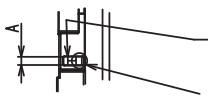


Figure A Confirmation method of the LIMIT SW



View of the LIMIT SW from the bottom of the set.

Make sure that the entire tip of the LIMIT SW (white) can be seen through the hole.
It is not allowed that only a part of the tip can be seen.

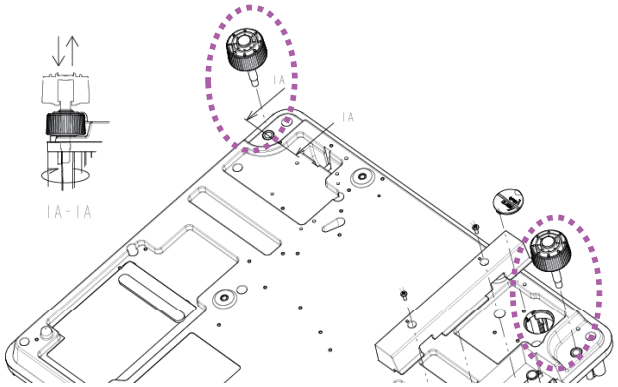
● ADJUST FOOT (ADJUST FOOT ASS'Y DD1)

Disassembling

1) Rotate the ADJUST FOOT counterclockwise to remove from the BOTTOM CASE.

Aassembling

1) Insert the ADJUST FOOT to the BOTTOM CASE and rotate clockwise. (0.29±0.1N·m)
2) Rotate the ADJUST FOOT to the bottom and confirm there is no lift up.



9. Replacement Parts list

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LWU701i (121-034119-01): Black model]

SYMBOL No.		PARTS No.	DESCRIPTION	SYMBOL No.		PARTS No.	DESCRIPTION
	1	QD80242	UPPER CASE ASS'Y D2		34	JP86183	PWB ASS'Y KEYPAD D2
*1	2	QD79324	BOTTOM CASE ASS'Y D2		35	JP86185	PWB ASS'Y FRONT-RC D2
	3	PC08804	CONTROL BUTTON D2		36	JP86184	PWB ASS'Y REAR-RC D2
	4	QD79362	LAMP DOOR ASS'Y D2		37	JP86182	PWB ASS'Y INPUT D2
*4	5	QD79442	IO COVER ASS'Y D2	*3	38	JP86186	PWB ASS'Y LED D2
	6	QJ07071	ADJUST FOOT ASS'Y DD1		39	JP86823	PWB ASS'Y SWITCH D2
	7	QD79412	FRONT COVER UPPER ASS'Y D2	*1	40	JP86821	PWB ASS'Y SENSOR-A D2
	8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1	41	JP86822	PWB ASS'Y SENSOR-B D2
	9	PH51922	USB MINI COVER D2		42	JP86187	PWB ASS'Y ADAPTER D2
*3	10	MU07432	LED CUSHION D1		43	JP86188	PWB ASS'Y SUB LCD D2
*4	11	PH50644	LCD DISPLAY WINDOW D1	*2	44	JP75125	PWB ASS'Y ADAPTER FL-701
	12	MJ02872	D-SUB SCREW	*2	45	JP75121	PWB ASS'Y ADAPTER SL-702
*5	13	MS03172	HIMERON TAPE 8X107-0.35	*2	46	JP75122	PWB ASS'Y ADAPTER ML-703
*5	14	MU06394	NANNEX CUSHION D2	*2	47	JP75123	PWB ASS'Y ADAPTER LL-704
*6	15	MU06871	FAN CUSHION S	*2	48	JP75124	PWB ASS'Y ADAPTER UL-705
	16	QD79342	FILTER COVER D2		49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠	17	GS02291	DC FAN CY8028PWM-Z4-L301		50	GK02014	SPEAKER
⚠	18	GS01962	DC FAN CY6023RPWM-G4L251	⚠	51	FH00711	THERMAL SWITCH ASS'Y D2
⚠	19	GS01972	DC FAN CY6023LPWM-Z5L221		52	DB01721	STATUS MONITOR
⚠	20	GS01951	DC FAN T92T13PWM-Z4-L191		53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠	21	GS02301	DC FAN 9GA09P-PWM-Z4L171			NX05742	COTTON STICK L70
	22	UX40921	LCD/LENS PRISM ASS'Y D2WU70			NX32451	COTTON STICK BB-014
	23	UX40911	DICHROIC OPTICS UNIT D2WU70		A	HL02805	REMOTE CONTROL UNIT D2
	24	UX38101	IRIS ASS'Y D1		B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
	25	DT01885	LAMP UNIT ASS'Y		B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
	26	UX40821	AIR FILTER ASS'Y D2		B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠	27	HA03771	POWER UNIT(BALLAST) D2		C	EW08913	COE-RGB CABLE
⚠	28	HA03784	POWER UNIT (CIRCUIT) D2		D	QT57201	INSTRUCTION MANUAL ASS'Y
	29	EA06941R	CPC84 CONNECTOR		E	QD77341	USB ADAPTER COVER ASS'Y DD1
	30	CK57661R	IC THS7327PHPR		F	QD79534	TERMINAL COVER D2
	31	CK34401R	IC SN74LV14APWR		G	UX40861	HDMI BKT ASS'Y D2
	32	CK39802R	IC EL8302IUZ-T7		H	EW09741	HDMI-DVI CABLE
*1	33	JP87271	PWB ASS'Y MAIN LWU701I				

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LWU701i (121-034108-01): White model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80241	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79323	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08803	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79361	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79441	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07072	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79411	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79421	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51921	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50642	LCD DISPLAY WINDOW	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79341	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40921	LCD/LENS PRISM ASS'Y D2WU70		NX32451	COTTON STICK BB-014
23	UX40911	DICHROIC OPTICS UNIT D2WU70	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01885	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77342	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79533	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87271	PWB ASS'Y MAIN LWU701I			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LWU701i (121-034120-01): China model (Black)]

SYMBOL No.		PARTS No.	DESCRIPTION	SYMBOL No.		PARTS No.	DESCRIPTION
	1	QD80242	UPPER CASE ASS'Y D2		34	JP86183	PWB ASS'Y KEYPAD D2
*1	2	QD79324	BOTTOM CASE ASS'Y D2		35	JP86185	PWB ASS'Y FRONT-RC D2
	3	PC08804	CONTROL BUTTON D2		36	JP86184	PWB ASS'Y REAR-RC D2
	4	QD79362	LAMP DOOR ASS'Y D2		37	JP86182	PWB ASS'Y INPUT D2
*4	5	QD79442	IO COVER ASS'Y D2	*3	38	JP86186	PWB ASS'Y LED D2
	6	QJ07071	ADJUST FOOT ASS'Y DD1		39	JP86823	PWB ASS'Y SWITCH D2
	7	QD79412	FRONT COVER UPPER ASS'Y D2	*1	40	JP86821	PWB ASS'Y SENSOR-A D2
	8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1	41	JP86822	PWB ASS'Y SENSOR-B D2
	9	PH51922	USB MINI COVER D2		42	JP86187	PWB ASS'Y ADAPTER D2
*3	10	MU07432	LED CUSHION D1		43	JP86188	PWB ASS'Y SUB LCD D2
*4	11	PH50644	LCD DISPLAY WINDOW D1	*2	44	JP75125	PWB ASS'Y ADAPTER FL-701
	12	MJ02872	D-SUB SCREW	*2	45	JP75121	PWB ASS'Y ADAPTER SL-702
*5	13	MS03172	HIMERON TAPE 8X107-0.35	*2	46	JP75122	PWB ASS'Y ADAPTER ML-703
*5	14	MU06394	NANNEX CUSHION D2	*2	47	JP75123	PWB ASS'Y ADAPTER LL-704
*6	15	MU06871	FAN CUSHION S	*2	48	JP75124	PWB ASS'Y ADAPTER UL-705
	16	QD79342	FILTER COVER D2		49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠	17	GS02291	DC FAN CY8028PWM-Z4-L301		50	GK02014	SPEAKER
⚠	18	GS01962	DC FAN CY6023RPWM-G4L251	⚠	51	FH00711	THERMAL SWITCH ASS'Y D2
⚠	19	GS01972	DC FAN CY6023LPWM-Z5L221		52	DB01721	STATUS MONITOR
⚠	20	GS01951	DC FAN T92T13PWM-Z4-L191		53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠	21	GS02301	DC FAN 9GA09P-PWM-Z4L171			NX05742	COTTON STICK L70
	22	UX40921	LCD/LENS PRISM ASS'Y D2WU70			NX32451	COTTON STICK BB-014
	23	UX40911	DICHROIC OPTICS UNIT D2WU70		A	HL02805	REMOTE CONTROL UNIT D2
	24	UX38101	IRIS ASS'Y D1		B	EV02206	POWER SUPPLY CORD CN
	25	DT01885	LAMP UNIT ASS'Y		C	EW08913	COE-RGB CABLE
	26	UX40821	AIR FILTER ASS'Y D2		D	QT57201	INSTRUCTION MANUAL ASS'Y
⚠	27	HA03771	POWER UNIT(BALLAST) D2		E	QD77341	USB ADAPTER COVER ASS'Y DD1
⚠	28	HA03784	POWER UNIT (CIRCUIT) D2		F	QD79534	TERMINAL COVER D2
	29	EA06941R	CPC84 CONNECTOR		G	UX40861	HDMI BKT ASS'Y D2
	30	CK57661R	IC THS7327PHPR		H	EW09741	HDMI-DVI CABLE
	31	CK34401R	IC SN74LV14APWR				
	32	CK39802R	IC EL8302IUZ-T7				
*1	33	JP87271	PWB ASS'Y MAIN LWU701I				

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LWU601i (121-036100-01): White model]

SYMBOL No.		PARTS No.	DESCRIPTION	SYMBOL No.		PARTS No.	DESCRIPTION
	1	QD80241	UPPER CASE ASS'Y D2		34	JP86183	PWB ASS'Y KEYPAD D2
*1	2	QD79323	BOTTOM CASE ASS'Y D2		35	JP86185	PWB ASS'Y FRONT-RC D2
	3	PC08803	CONTROL BUTTON D2		36	JP86184	PWB ASS'Y REAR-RC D2
	4	QD79361	LAMP DOOR ASS'Y D2		37	JP86182	PWB ASS'Y INPUT D2
*4	5	QD79443	IO COVER ASS'Y D2	*3	38	JP86186	PWB ASS'Y LED D2
	6	QJ07072	ADJUST FOOT ASS'Y DD1		39	JP86823	PWB ASS'Y SWITCH D2
	7	QD79411	FRONT COVER UPPER ASS'Y D2	*1	40	JP86821	PWB ASS'Y SENSOR-A D2
	8	QD79421	FRONT COVER BOTTOM ASS'Y D2	*1	41	JP86822	PWB ASS'Y SENSOR-B D2
	9	PH51921	USB MINI COVER D2		42	JP86187	PWB ASS'Y ADAPTER D2
*3	10	MU07432	LED CUSHION D1		43	JP86188	PWB ASS'Y SUB LCD D2
*4	11	PH50642	LCD DISPLAY WINDOW	*2	44	JP75125	PWB ASS'Y ADAPTER FL-701
	12	MJ02872	D-SUB SCREW	*2	45	JP75121	PWB ASS'Y ADAPTER SL-702
*5	13	MS03172	HIMERON TAPE 8X107-0.35	*2	46	JP75122	PWB ASS'Y ADAPTER ML-703
*5	14	MU06394	NANNEX CUSHION D2	*2	47	JP75123	PWB ASS'Y ADAPTER LL-704
*6	15	MU06871	FAN CUSHION S	*2	48	JP75124	PWB ASS'Y ADAPTER UL-705
	16	QD79341	FILTER COVER D2		49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠	17	GS02291	DC FAN CY8028PWM-Z4-L301		50	GK02014	SPEAKER
⚠	18	GS01962	DC FAN CY6023RPWM-G4L251	⚠	51	FH00711	THERMAL SWITCH ASS'Y D2
⚠	19	GS01972	DC FAN CY6023LPWM-Z5L221		52	DB01721	STATUS MONITOR
⚠	20	GS01951	DC FAN T92T13PWM-Z4-L191		53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠	21	GS02301	DC FAN 9GA09P-PWM-Z4L171			NX05742	COTTON STICK L70
	22	UX40921	LCD/LENS PRISM ASS'Y D2WU70			NX32451	COTTON STICK BB-014
	23	UX40912	DICHROIC OPTICS UNIT D2WU60		A	HL02805	REMOTE CONTROL UNIT D2
	24	UX38101	IRIS ASS'Y D1		B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
	25	DT01875	LAMP UNIT ASS'Y		B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
	26	UX40821	AIR FILTER ASS'Y D2		B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠	27	HA03761	POWER UNIT(BALLAST) D2		C	EW08913	COE-RGB CABLE
⚠	28	HA03784	POWER UNIT (CIRCUIT) D2		D	QT57201	INSTRUCTION MANUAL ASS'Y
	29	EA06941R	CPC84 CONNECTOR		E	QD77342	USB ADAPTER COVER ASS'Y DD1
	30	CK57661R	IC THS7327PHPR		F	QD79533	TERMINAL COVER D2
	31	CK34401R	IC SN74LV14APWR		G	UX40861	HDMI BKT ASS'Y D2
	32	CK39802R	IC EL8302IUZ-T7		H	EW09741	HDMI-DVI CABLE
*1	33	JP87281	PWB ASS'Y MAIN LWU601i				

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LWU601i (121-036111-01): China model (Black)]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80242	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79324	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08804	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79362	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79444	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07071	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79412	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51922	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50644	LCD DISPLAY WINDOW D1	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79342	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40921	LCD/LENS PRISM ASS'Y D2WU70		NX32451	COTTON STICK BB-014
23	UX40912	DICHROIC OPTICS UNIT D2WU60	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02206	POWER SUPPLY CORD CN
25	DT01875	LAMP UNIT ASS'Y	C	EW08913	COE-RGB CABLE
26	UX40821	AIR FILTER ASS'Y D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
⚠ 27	HA03761	POWER UNIT(BALLAST) D2	E	QD77341	USB ADAPTER COVER ASS'Y DD1
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	F	QD79534	TERMINAL COVER D2
29	EA06941R	CPC84 CONNECTOR	G	UX40861	HDMI BKT ASS'Y D2
30	CK57661R	IC THS7327PHPR	H	EW09741	HDMI-DVI CABLE
31	CK34401R	IC SN74LV14APWR			
32	CK39802R	IC EL8302IUZ-T7			
*1 33	JP87281	PWB ASS'Y MAIN LWU601i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LW751i (121-033118-01): Black model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80242	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79324	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08804	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79362	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79444	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07071	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79412	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51922	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50644	LCD DISPLAY WINDOW D1	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79342	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40923	LCD/LENS PRISM ASS'Y D2WX75		NX32451	COTTON STICK BB-014
23	UX40913	DICHROIC OPTICS UNIT D2WX75	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01885	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77341	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79534	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87291	PWB ASS'Y MAIN LW751i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LW751i (121-033107-01): White model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80241	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79323	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08803	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79361	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79443	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07072	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79411	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79421	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51921	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50642	LCD DISPLAY WINDOW	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79341	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40923	LCD/LENS PRISM ASS'Y D2WX75		NX32451	COTTON STICK BB-014
23	UX40913	DICHROIC OPTICS UNIT D2WX75	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01885	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77342	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79533	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87291	PWB ASS'Y MAIN LW751i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LW751i (121-033129-01): China model (Black)]

SYMBOL No.		PARTS No.	DESCRIPTION	SYMBOL No.		PARTS No.	DESCRIPTION
	1	QD80242	UPPER CASE ASS'Y D2		34	JP86183	PWB ASS'Y KEYPAD D2
*1	2	QD79324	BOTTOM CASE ASS'Y D2		35	JP86185	PWB ASS'Y FRONT-RC D2
	3	PC08804	CONTROL BUTTON D2		36	JP86184	PWB ASS'Y REAR-RC D2
	4	QD79362	LAMP DOOR ASS'Y D2		37	JP86182	PWB ASS'Y INPUT D2
*4	5	QD79444	IO COVER ASS'Y D2	*3	38	JP86186	PWB ASS'Y LED D2
	6	QJ07071	ADJUST FOOT ASS'Y DD1		39	JP86823	PWB ASS'Y SWITCH D2
	7	QD79412	FRONT COVER UPPER ASS'Y D2	*1	40	JP86821	PWB ASS'Y SENSOR-A D2
	8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1	41	JP86822	PWB ASS'Y SENSOR-B D2
	9	PH51922	USB MINI COVER D2		42	JP86187	PWB ASS'Y ADAPTER D2
*3	10	MU07432	LED CUSHION D1		43	JP86188	PWB ASS'Y SUB LCD D2
*4	11	PH50644	LCD DISPLAY WINDOW D1	*2	44	JP75125	PWB ASS'Y ADAPTER FL-701
	12	MJ02872	D-SUB SCREW	*2	45	JP75121	PWB ASS'Y ADAPTER SL-702
*5	13	MS03172	HIMERON TAPE 8X107-0.35	*2	46	JP75122	PWB ASS'Y ADAPTER ML-703
*5	14	MU06394	NANNEX CUSHION D2	*2	47	JP75123	PWB ASS'Y ADAPTER LL-704
*6	15	MU06871	FAN CUSHION S	*2	48	JP75124	PWB ASS'Y ADAPTER UL-705
	16	QD79342	FILTER COVER D2		49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠	17	GS02291	DC FAN CY8028PWM-Z4-L301		50	GK02014	SPEAKER
⚠	18	GS01962	DC FAN CY6023RPWM-G4L251	⚠	51	FH00711	THERMAL SWITCH ASS'Y D2
⚠	19	GS01972	DC FAN CY6023LPWM-Z5L221		52	DB01721	STATUS MONITOR
⚠	20	GS01951	DC FAN T92T13PWM-Z4-L191		53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠	21	GS02301	DC FAN 9GA09P-PWM-Z4L171			NX05742	COTTON STICK L70
	22	UX40923	LCD/LENS PRISM ASS'Y D2WX75			NX32451	COTTON STICK BB-014
	23	UX40913	DICHROIC OPTICS UNIT D2WX75		A	HL02805	REMOTE CONTROL UNIT D2
	24	UX38101	IRIS ASS'Y D1		B	EV02206	POWER SUPPLY CORD CN
	25	DT01885	LAMP UNIT ASS'Y		C	EW08913	COE-RGB CABLE
	26	UX40821	AIR FILTER ASS'Y D2		D	QT57201	INSTRUCTION MANUAL ASS'Y
⚠	27	HA03771	POWER UNIT(BALLAST) D2		E	QD77341	USB ADAPTER COVER ASS'Y DD1
⚠	28	HA03784	POWER UNIT (CIRCUIT) D2		F	QD79534	TERMINAL COVER D2
	29	EA06941R	CPC84 CONNECTOR		G	UX40861	HDMI BKT ASS'Y D2
	30	CK57661R	IC THS7327PHPR		H	EW09741	HDMI-DVI CABLE
	31	CK34401R	IC SN74LV14APWR				
	32	CK39802R	IC EL8302IUZ-T7				
*1	33	JP87291	PWB ASS'Y MAIN LW751i				

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LW651i (121-035109-01): White model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80241	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79323	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08803	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79361	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79443	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07072	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79411	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79421	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51921	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50642	LCD DISPLAY WINDOW	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79341	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40923	LCD/LENS PRISM ASS'Y D2WX75		NX32451	COTTON STICK BB-014
23	UX40914	DICHROIC OPTICS UNIT D2WX65	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01875	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03761	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77342	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79533	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87292	PWB ASS'Y MAIN LW651i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LW651i (121-035110-01): China model (Black)]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80242	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79324	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08804	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79362	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79444	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07071	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79412	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51922	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50644	LCD DISPLAY WINDOW D1	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79342	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40923	LCD/LENS PRISM ASS'Y D2WX75		NX32451	COTTON STICK BB-014
23	UX40914	DICHROIC OPTICS UNIT D2WX65	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02206	POWER SUPPLY CORD CN
25	DT01875	LAMP UNIT ASS'Y	C	EW08913	COE-RGB CABLE
26	UX40821	AIR FILTER ASS'Y D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
⚠ 27	HA03761	POWER UNIT(BALLAST) D2	E	QD77341	USB ADAPTER COVER ASS'Y DD1
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	F	QD79534	TERMINAL COVER D2
29	EA06941R	CPC84 CONNECTOR	G	UX40861	HDMI BKT ASS'Y D2
30	CK57661R	IC THS7327PHPR	H	EW09741	HDMI-DVI CABLE
31	CK34401R	IC SN74LV14APWR			
32	CK39802R	IC EL8302IUZ-T7			
*1 33	JP87292	PWB ASS'Y MAIN LW651i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LX801i (121-032117-01): Black model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80242	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79324	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08804	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79362	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79444	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07071	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79412	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51922	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50644	LCD DISPLAY WINDOW D1	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79342	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40925	LCD/LENS PRISM ASS'Y D2X80		NX32451	COTTON STICK BB-014
23	UX40915	DICHROIC OPTICS UNIT D2X80	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01885	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77341	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79534	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87301	PWB ASS'Y MAIN LX801i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LX801i (121-032106-01): White model]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80241	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79323	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08803	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79361	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79443	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07072	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79411	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79421	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51921	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50642	LCD DISPLAY WINDOW	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79341	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40925	LCD/LENS PRISM ASS'Y D2X80		NX32451	COTTON STICK BB-014
23	UX40915	DICHROIC OPTICS UNIT D2X80	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
25	DT01885	LAMP UNIT ASS'Y	B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
26	UX40821	AIR FILTER ASS'Y D2	B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	C	EW08913	COE-RGB CABLE
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
29	EA06941R	CPC84 CONNECTOR	E	QD77342	USB ADAPTER COVER ASS'Y DD1
30	CK57661R	IC THS7327PHPR	F	QD79533	TERMINAL COVER D2
31	CK34401R	IC SN74LV14APWR	G	UX40861	HDMI BKT ASS'Y D2
32	CK39802R	IC EL8302IUZ-T7	H	EW09741	HDMI-DVI CABLE
*1 33	JP87301	PWB ASS'Y MAIN LX801i			

*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.
Refer to the section **Accessories** about replacement of accessories.
The figures in the "SYMBOL No." column correspond to those in the drawings of the chapter ***Disassembly diagram***.

[LX801i (121-032128-01): China model (Black)]

SYMBOL No.	PARTS No.	DESCRIPTION	SYMBOL No.	PARTS No.	DESCRIPTION
1	QD80242	UPPER CASE ASS'Y D2	34	JP86183	PWB ASS'Y KEYPAD D2
*1 2	QD79324	BOTTOM CASE ASS'Y D2	35	JP86185	PWB ASS'Y FRONT-RC D2
3	PC08804	CONTROL BUTTON D2	36	JP86184	PWB ASS'Y REAR-RC D2
4	QD79362	LAMP DOOR ASS'Y D2	37	JP86182	PWB ASS'Y INPUT D2
*4 5	QD79444	IO COVER ASS'Y D2	*3 38	JP86186	PWB ASS'Y LED D2
6	QJ07071	ADJUST FOOT ASS'Y DD1	39	JP86823	PWB ASS'Y SWITCH D2
7	QD79412	FRONT COVER UPPER ASS'Y D2	*1 40	JP86821	PWB ASS'Y SENSOR-A D2
8	QD79422	FRONT COVER BOTTOM ASS'Y D2	*1 41	JP86822	PWB ASS'Y SENSOR-B D2
9	PH51922	USB MINI COVER D2	42	JP86187	PWB ASS'Y ADAPTER D2
*3 10	MU07432	LED CUSHION D1	43	JP86188	PWB ASS'Y SUB LCD D2
*4 11	PH50644	LCD DISPLAY WINDOW D1	*2 44	JP75125	PWB ASS'Y ADAPTER FL-701
12	MJ02872	D-SUB SCREW	*2 45	JP75121	PWB ASS'Y ADAPTER SL-702
*5 13	MS03172	HIMERON TAPE 8X107-0.35	*2 46	JP75122	PWB ASS'Y ADAPTER ML-703
*5 14	MU06394	NANNEX CUSHION D2	*2 47	JP75123	PWB ASS'Y ADAPTER LL-704
*6 15	MU06871	FAN CUSHION S	*2 48	JP75124	PWB ASS'Y ADAPTER UL-705
16	QD79342	FILTER COVER D2	49	JP75781	PWB ASS'Y AC WATCH D1
*5 ⚠ 17	GS02291	DC FAN CY8028PWM-Z4-L301	50	GK02014	SPEAKER
⚠ 18	GS01962	DC FAN CY6023RPWM-G4L251	⚠ 51	FH00711	THERMAL SWITCH ASS'Y D2
⚠ 19	GS01972	DC FAN CY6023LPWM-Z5L221	52	DB01721	STATUS MONITOR
⚠ 20	GS01951	DC FAN T92T13PWM-Z4-L191	53	JP86189	PWB ASS'Y BATTERY D2
*6 ⚠ 21	GS02301	DC FAN 9GA09P-PWM-Z4L171		NX05742	COTTON STICK L70
22	UX40925	LCD/LENS PRISM ASS'Y D2X80		NX32451	COTTON STICK BB-014
23	UX40915	DICHROIC OPTICS UNIT D2X80	A	HL02805	REMOTE CONTROL UNIT D2
24	UX38101	IRIS ASS'Y D1	B	EV02206	POWER SUPPLY CORD CN
25	DT01885	LAMP UNIT ASS'Y	C	EW08913	COE-RGB CABLE
26	UX40821	AIR FILTER ASS'Y D2	D	QT57201	INSTRUCTION MANUAL ASS'Y
⚠ 27	HA03771	POWER UNIT(BALLAST) D2	E	QD77341	USB ADAPTER COVER ASS'Y DD1
⚠ 28	HA03784	POWER UNIT (CIRCUIT) D2	F	QD79534	TERMINAL COVER D2
29	EA06941R	CPC84 CONNECTOR	G	UX40861	HDMI BKT ASS'Y D2
30	CK57661R	IC THS7327PHPR	H	EW09741	HDMI-DVI CABLE
31	CK34401R	IC SN74LV14APWR			
32	CK39802R	IC EL8302IUZ-T7			
*1 33	JP87301	PWB ASS'Y MAIN LX801i			

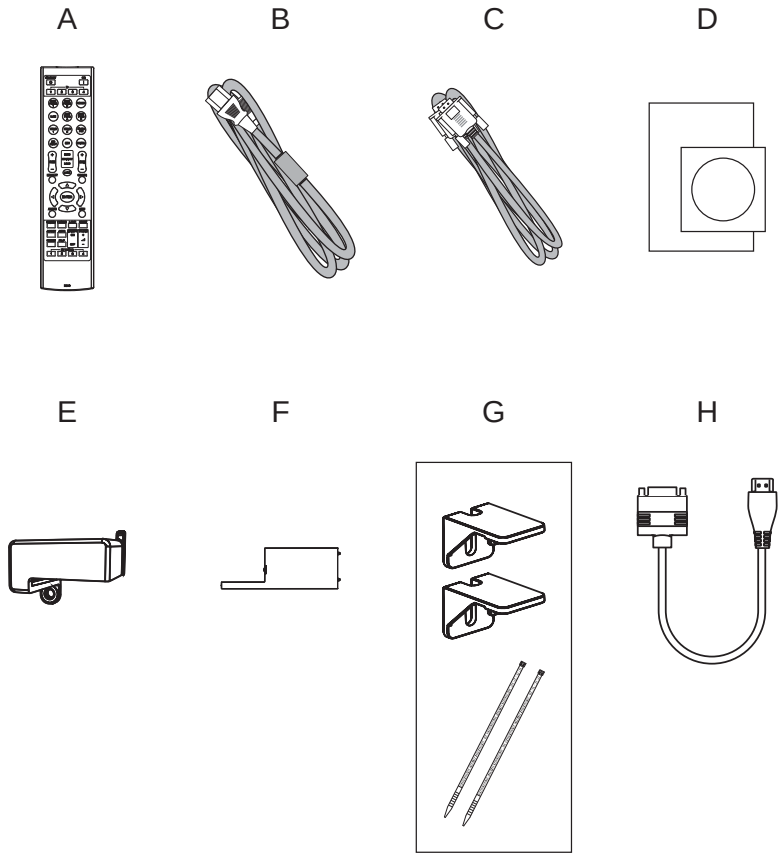
*1 Be sure to perform the AIR SENSOR adjustment in accordance with the chapter 4-2.
*2 Prepare a proper type of LENS ADAPTER PCB, depending on the type of lens used with the projector.
*3 Prepare 1pc of the LED CUSHION D1 when you replace 1pc of the PWB ASS'Y LED D2.
*4 Prepare 1pc of the LCD DISPLAY WINDOW D1 when you replace 1pc of the IO COVER ASS'Y D2.
*5 Prepare 1pc of the HIMERON TAPE 8X107-0.35 and NANNEX CUSHION D2 when you replace 1pc of the DC FAN CY8028PWM-Z4-L301.
*6 Prepare 8pcs of the FAN CUSHION S when you replace 1pc of the DC FAN 9GA09P-PWM-Z4L171.

PRODUCT SAFETY NOTE:
Components marked with a ⚠ have special characteristics important to safety. Don't degrade the safety of the projector through improper servicing.

● Accessories

Refer the subjacent illustrations for appearance of the parts.

SYMBOL No.	PARTS No.	DESCRIPTION
A	HL02805	REMOTE CONTROL UNIT D2
⚠ B	EV02174	POWER SUPPLY CORD(USA TYPE) W/CORE
⚠ B	EV02196	POWER SUPPLY CORD(EUROPE TYPE) W/CORE
⚠ B	EV02186	POWER SUPPLY CORD(UK TYPE) W/CORE
⚠ B	EV02206	POWER SUPPLY CORD CN
C	EW08913	COE-RGB CABLE
D	QT57201	INSTRUCTION MANUAL ASS'Y
E	QD77341 QD77342	USB ADAPTER COVER ASS'Y DD1
F	QD79533 QD79534	TERMINAL COVER D2
G	UX40861	HDMI BKT ASS'Y D2
H	EW09741	HDMI-DVI CABLE

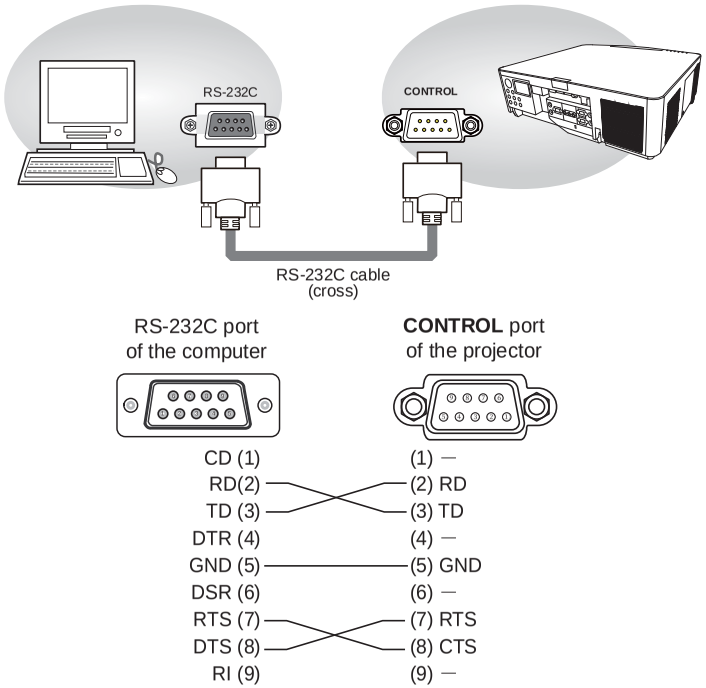


RS-232C Communication

When the projector connects to the computer by RS-232C communication, the projector can be controlled with RS-232C commands from the computer.
For details of RS-232C commands, refer to RS-232C Communication / Network command table.

Connection

1. Turn off the projector and the computer.
2. Connect the projector's **CONTROL** port and the computer's RS-232C port with a RS-232C cable (cross). Use the cable that fulfills the specification shown in figure.
3. Turn the computer on, and after the computer has started up turn the projector on.
4. Set the COMMUNICATION TYPE to OFF in the COMMUNICATION menu of the OPTION - SERVICE menu.



Communication settings

1. Protocol

19200bps, 8N1

2. Command format ("h" shows hexadecimal)

Byte Number	0	1	2	3	4	5	6	7	8	9	10	11	12
Command / Action	Header							Data					
	Header code		Packet	Data size		CRC flag		Action		Type		Setting code	
	L	H		L	H	L	H	L	H	L	H	L	H
<SET>Change setting to desired value [(cL)(cH)] by [(bL)(bH)].	BEh	EFh	03h	06h	00h	(aL)	(aH)	01h	00h	(bL)	(bH)	(cL)	(cH)
<GET>Read projector internal setup value [(bL)(bH)] .						(aL)	(aH)	02h	00h	(bL)	(bH)	00h	00h
<INCREMENT> Increment setup value [(bL)(bH)] by 1.						(aL)	(aH)	04h	00h	(bL)	(bH)	00h	00h
<DECREMENT> Decrement setup value [(bL)(bH)] by 1.						(aL)	(aH)	05h	00h	(bL)	(bH)	00h	00h
<EXECUTE> Run a command [(bL)(bH)].						(aL)	(aH)	06h	00h	(bL)	(bH)	00h	00h

[Header code] [Packet] [Data size]
Set [BEh, EFh, 03h, 06h, 00h] to byte number 0 to 4.

[CRC flag]
For byte number 5, 6, refer to RS-232C Communication / Network command table.

[Action]
Set functional code to byte number 7, 8.
<SET> = [01h, 00h], <GET> = [02h, 00h], <INCREMENT> = [04h, 00h]
<DECREMENT> = [05h, 00h], <EXECUTE> = [06h, 00h]
Refer to the Communication command table.

[Type] [Setting code]
For byte number 9 to 12, refer to RS-232C Communication / Network command table.

3. Response code / Error code ("h" shows hexadecimal)

(1) ACK reply: 06h
When the projector receives the Set, Increment, Decrement or Execute command correctly, the projector changes the setting data for the specified item by [Type], and it returns the code.

(2) NAK reply: 15h
When the projector cannot understand the received command, the projector returns the error code.
In such a case, check the sending code and send the same command again.

(3) Error reply: 1Ch + 0000h
When the projector cannot execute the received command for any reasons, the projector returns the error code.
In such a case, check the sending code and the setting status of the projector.

(4) Data reply: 1Dh + xxxxh
When the projector receives the GET command correctly, the projector returns the response code and 2 bytes of data.

NOTE • For connecting the projector to your devices, read the manual for each devices, and connect them correctly with suitable cables.
• Operation cannot be guaranteed when the projector receives an undefined command or data.
• Provide an interval of at least 40ms between the response code and any other code.
• The projector outputs test data when the power supply is switched ON, and when the lamp is lit. Ignore this data.
• Commands are not accepted during warm-up.
• When the data length is greater than indicated by the data length code, the projector ignore the excess data code. Conversely when the data length is shorter than indicated by the data length code, the projector returns the error code to the computer.

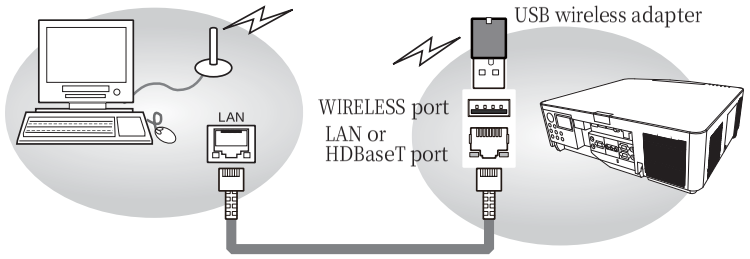
Command Control via the Network

When the projector connects network, the projector can be controlled with RS-232C commands from the computer with web browser.
For details of RS-232C commands, refer to RS-232C Communication / Network command table.

NOTE • If data is transferred using wireless and wired LAN at the same time, the projector may not be able to process the data correctly.

Connection

1. Turn off the projector and the computer.
2. If you use wired LAN, connect the projector's **LAN** or **HDBaseT**™ port to the computer's LAN or **HDBaseT** port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the **WIRELESS** port of the projector.
3. Turn the computer on, and after the computer has started up turn the projector on.



• LAN cable (CAT-5e or greater)
or
• For HDBaseT connection
- CAT-5e or greater
- shielded type (connectors included)
- straight cable
- single cable

Communication Port

The following two ports are assigned for the command control.

TCP #23
TCP #9715

Configure the following items from a web browser when command control is used.

Port Settings			
	Network Control Port1 (Port: 23)	Port open	Click the **[Enable]** checkbox to open **[Network Control Port1 (Port: 23)]** to use TCP #23. Default setting is Enable.
		Authentication	Click the **[Enable]** check box for the **[Authentication]** setting when authentication is required. Default setting is Disable.
	Network Control Port2 (Port: 9715)	Port open	Click the **[Enable]** check box to open **[Network Control Port2 (Port: 9715)]** to use TCP #9715. Default setting is Enable.
		Authentication	Click the **[Enable]** check box for the **[Authentication]** setting when authentication is required. Default setting is Enable.

When the authentication setting is enabled, the following settings are required.

Security Settings			
	Network Control	Authentication Password	Enter the required authentication password. Confirm this setting is the same for **[Network Control Port1 (Port: 23)]** and **[Network Control Port2 (Port: 9715)]**. Default setting is blank.
		Re-enter Authentication Password	

Command control settings

[TCP #23]

1. Command format

Same as RS-232C communication, refer to RS-232C Communication command format.

2. Response code / Error code ("h" shows hexadecimal)

Four of the response / error code used for TCP#23 are the same as RS-232C Communication (1)~(4). One authentication error reply (5) is added.

(1) **ACK reply : 06h**
Refer to RS-232C communication.

(2) **NAK reply : 15h**
Refer to RS-232C communication.

(3) **Error reply : 1Ch + 0000h**
Refer to RS-232C communication.

(4) **Data reply : 1Dh + xxxxh**
Refer to RS-232C communication.

(5) **Authentication error reply : 1Fh + 0400h**
When authentication error occurred, the projector returns the error code.

[TCP #9715]

1. Command format

The commands some datum are added to the head and the end of the ones of TCP#9715 are used.

Header	Data length	RS-232C command	Check sum	Connection ID
0×02	0×0D	13 bytes	1 byte	1 byte

[Header]
02, Fixed

[Data Length]
RS-232C commands byte length (0×0D, Fixed)

[RS-232C commands]
Refer to RS-232C Communication command format.

[Check Sum]
This is the value to make zero on the addition of the lower 8 bits from the header to the checksum.

[Connection ID]
Random value from 0 to 255 (This value is attached to the reply data).

NOTE • Operation cannot be guaranteed when the projector receives an undefined command or data.
• Provide an interval of at least 40ms between the response code and any other code.
• Commands are not accepted during warm-up.

2. Response code / Error code ("h" shows hexadecimal)

The connection ID is attached for the TCP#23's response / error codes are used. The connection ID is same as the sending command format.

(1) **ACK reply: 06h + ××h** (××h : connection ID)
(2) **NAK reply: 15h + ××h**
(3) **Error reply: 1Ch + 0000h + ××h**
(4) **Data reply: 1Dh + xxxxh + ××h**
(5) **Authentication error reply: 1Fh + 0400h + ××h**
(6) **Projector busy reply: 1Fh + ××××h + ××h**
When the projector is too busy to receive the command, the projector returns the error code.
In such a case, check the sending code and send the same command again.

Automatic Connection Break

The TCP connection is automatically disconnected after there is no communication for 30 seconds after being established.

Authentication

The projector does not accept commands without authentication success when authentication is enabled. The projector uses a challenge response type authentication with an MD5 (Message Digest 5) algorithm.
When the projector is connected to a LAN, a random 8 bytes is returned if authentication is enabled. Bind this received 8 bytes and the authentication password, and digest the data with the MD5 algorithm, and add it in front of the commands to send.
The following is a sample of authentication process.
Authentication password: **password** (example)
Random 8 bytes: **a572f60c** (example)

1) Select a projector and receive the random 8 bytes from the projector.
➔ "a572f60c"
2) Bind the random 8 bytes and the authentication password.
➔ "a572f60cpassword"
3) Digest this bound with MD5 algorithm.
➔ "e3d97429adffa11bce1f7275813d4bde"
4) Add this code in front of the commands and send the data.
➔ "e3d97429adffa11bce1f7275813d4bde" + [command].
5) When the sent data is correct, the command is performed and the reply data is returned. Otherwise, an authentication error is returned.

NOTE • As for the transmission of the second or subsequent commands, the authentication data can be omitted for the same connection.

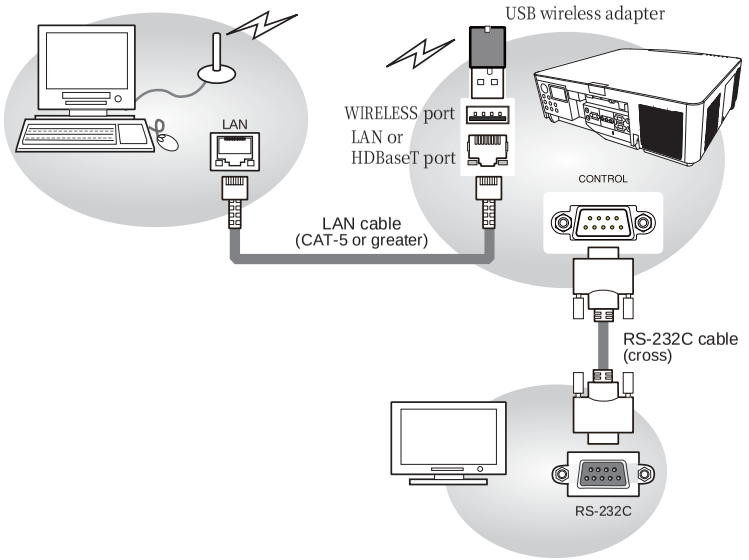
Network Bridge Communication

This projector is equipped with NETWORK BRIDGE function.
When the projector connects to the computer by wired or wireles LAN communication, an external device connected with this projector by RS-232C communication can be controlled from the computer as a network terminal.
For details, see the **7. Network Bridge** function in the **Network Guide**.

NOTE • If data is transferred using wireless and wired LAN at the same time, the projector may not be able to process the data correctly.

Connection

1. If you use wired LAN, connect the computer's LAN port and the projector's **LAN** port with a LAN cable. Use the cable that fulfills the specification shown in figure. If you use wireless LAN, insert the USB wireless adapter into the projector's **LAN** port.
2. Connect the projector's **CONTROL** port and the RS-232C port of the devices that you want to control with a RS-232C cable.
3. Turn the computer on, and after the computer has started up turn the projector on.
4. Set the COMMUNICATION TYPE to NETWORK BRIDGE in the COMMUNICATION menu of the OPTION - SERVICE menu.



Communication settings

For communication setting, use the COMMUNICATION menu in the OPTION - SERVICE menu

Item	Condition
BAUD RATE	4800bps / 9600bps / 19200bps / 38400bps
Data length	8 bit (fixed)
PARITY	NONE/ODD/EVEN
Start bit	1 bit (fixed)
Stop bit	1 bit (fixed)
Transmission method	HALF-DUPLEX/FULL-DUPLEX

NOTE • For connecting the projector to your devices, read the manual for each devices, and connect them correctly with suitable cables.
• Turn off the power and unplug both the projector and other devices before connecting them.
• For details of Transmission method, refer to **7.4 Transmission method** in the **Network Guide**.

RS-232C Communication / Network command table

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
Power	Set	Turn off	BE EF	03	06 00	2A D3	01 00	00 60	00 00
		Turn on	BE EF	03	06 00	BA D2	01 00	00 60	01 00
	Get		BE EF	03	06 00	19 D3	02 00	00 60	00 00
	[Example return] 00 00 [Off] 01 00 [On] 02 00 [Cool down]								
Input Source	Set	COMPUTER IN	BE EF	03	06 00	FE D2	01 00	00 20	00 00
		LAN	BE EF	03	06 00	CE D5	01 00	00 20	0B 00
		HDMI 1	BE EF	03	06 00	0E D2	01 00	00 20	03 00
		HDMI 2	BE EF	03	06 00	6E D6	01 00	00 20	0D 00
		HDBaseT	BE EF	03	06 00	AE DE	01 00	00 20	11 00
		VIDEO	BE EF	03	06 00	6E D3	01 00	00 20	01 00
		SDI*	BE EF	03	06 00	5E DE	01 00	00 20	12 00
		DisplayPort	BE EF	03	06 00	CE DF	01 00	00 20	13 00
	Get		BE EF	03	06 00	CD D2	02 00	00 20	00 00
Error Status	Get		BE EF	03	06 00	D9 D8	02 00	20 60	00 00
	[Example return] 00 00 [Normal] 01 00 [Cover error] 02 00 [Fan error] 03 00 [Lamp error] 04 00 [Temp error] 05 00 [Air flow error] 07 00 [Cold error] 08 00 [Filter error] 0F 00 [Shutter error] 10 00 [Lens Shift error] 60 00 [AC blackout error]								
FOCUS	Increment		BE EF	03	06 00	6A 93	04 00	00 24	00 00
	Decrement		BE EF	03	06 00	BB 92	05 00	00 24	00 00
ZOOM	Increment		BE EF	03	06 00	96 92	04 00	01 24	00 00
	Decrement		BE EF	03	06 00	47 93	05 00	01 24	00 00
LENS SHIFT - V	Increment		BE EF	03	06 00	D2 92	04 00	02 24	00 00
	Decrement		BE EF	03	06 00	03 93	05 00	02 24	00 00
LENS SHIFT - H	Increment		BE EF	03	06 00	2E 93	04 00	03 24	00 00
	Decrement		BE EF	03	06 00	FF 92	05 00	03 24	00 00
LENS SHIFT CENTERING	Execute		BE EF	03	06 00	B8 93	06 00	04 24	00 00
LENS MEMORY INDEX	Set	1	BE EF	03	06 00	4B 92	01 00	07 24	00 00
		2	BE EF	03	06 00	DB 93	01 00	07 24	01 00
		3	BE EF	03	06 00	2B 93	01 00	07 24	02 00
	Get		BE EF	03	06 00	78 92	02 00	07 24	00 00
LENS MEMORY LOAD	Execute		BE EF	03	06 00	E8 90	06 00	08 24	00 00
LENS MEMORY SAVE	Execute		BE EF	03	06 00	14 91	06 00	09 24	00 00
LENS MEMORY CLEAR	Execute		BE EF	03	06 00	50 91	06 00	0A 24	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
PIP POSITION	Set	TOP LEFT	BE EF	03	06 00	02 23	01 00	01 23	00 00
		TOP RIGHT	BE EF	03	06 00	92 22	01 00	01 23	01 00
		BOTTOM LEFT	BE EF	03	06 00	62 22	01 00	01 23	02 00
		BOTTOM RIGHT	BE EF	03	06 00	F2 23	01 00	01 23	03 00
	Get		BE EF	03	06 00	31 23	02 00	01 23	00 00
PIP MAIN AREA	Set	PRIMARY	BE EF	03	06 00	32 22	01 00	05 23	00 00
		SECONDARY	BE EF	03	06 00	A2 23	01 00	05 23	01 00
	Get		BE EF	03	06 00	01 22	02 00	05 23	00 00
PIP PRIMARY SOURCE	Set	COMPUTER IN	BE EF	03	06 00	CE 23	01 00	04 23	00 00
		HDMI 1	BE EF	03	06 00	3E 23	01 00	04 23	03 00
		HDMI 2	BE EF	03	06 00	5E 27	01 00	04 23	0D 00
		HDBaseT	BE EF	03	06 00	9E 2F	01 00	04 23	11 00
		VIDEO	BE EF	03	06 00	5E 22	01 00	04 23	01 00
		SDI*	BE EF	03	06 00	6E 2F	01 00	04 23	12 00
		DisplayPort	BE EF	03	06 00	FE 2E	01 00	04 23	13 00
	Get		BE EF	03	06 00	FD 23	02 00	04 23	00 00
PIP SECONDARY SOURCE	Set	COMPUTER IN	BE EF	03	06 00	46 23	01 00	02 23	00 00
		HDMI 1	BE EF	03	06 00	B6 23	01 00	02 23	03 00
		HDMI 2	BE EF	03	06 00	D6 27	01 00	02 23	0D 00
		HDBaseT	BE EF	03	06 00	16 2F	01 00	02 23	11 00
		VIDEO	BE EF	03	06 00	D6 22	01 00	02 23	01 00
		SDI*	BE EF	03	06 00	E6 2F	01 00	02 23	12 00
		DisplayPort	BE EF	03	06 00	76 2E	01 00	02 23	13 00
	Get		BE EF	03	06 00	75 23	02 00	02 23	00 00
PbyP/PIP SWAP	Execute		BE EF	03	06 00	01 27	06 00	16 23	00 00
PbyP / PIP FRAME LOCK	Set	LEFT / PRIMARY	BE EF	03	06 00	4A 27	01 00	17 23	00 00
		RIGHT / SECONDARY	BE EF	03	06 00	DA 26	01 00	17 23	01 00
	Get		BE EF	03	06 00	79 27	02 00	17 23	00 00
PICTURE MODE	Set	STANDARD	BE EF	03	06 00	83 F5	01 00	BA 30	06 00
		NATURAL	BE EF	03	06 00	23 F6	01 00	BA 30	00 00
		CINEMA	BE EF	03	06 00	B3 F7	01 00	BA 30	01 00
		DYNAMIC	BE EF	03	06 00	E3 F4	01 00	BA 30	04 00
		BOARD(BLACK)	BE EF	03	06 00	E3 EF	01 00	BA 30	20 00
		BOARD(GREEN)	BE EF	03	06 00	73 EE	01 00	BA 30	21 00
		WHITEBOARD	BE EF	03	06 00	83 EE	01 00	BA 30	22 00
		DAYTIME	BE EF	03	06 00	E3 C7	01 00	BA 30	40 00
		DICOM SIM.	BE EF	03	06 00	73 C6	01 00	BA 30	41 00
		USER-1	BE EF	03	06 00	E3 FB	01 00	BA 30	10 00
		USER-2	BE EF	03	06 00	73 FA	01 00	BA 30	11 00
		USER-3	BE EF	03	06 00	83 FA	01 00	BA 30	12 00
	Get		BE EF	03	06 00	10 F6	02 00	BA 30	00 00
	Get		[Example return] 00 00 [NORMAL] 01 00 [CINEMA] 04 00 [DYNAMIC] 20 00 [BOARD(BLACK)] 21 00 [BOARD(GREEN)] 22 00 [WHITEBOARD] 40 00 [DAY TIME] 41 00 [DICOM SIM.] 10 00 [Custom]						

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
LENS MEMORY LENS SHIFT - V	Get		BE EF	03	06 00	A0 91	02 00	0D 24	00 00
LENS MEMORY LENS SHIFT - H	Get		BE EF	03	06 00	E4 91	02 00	0E 24	00 00
LENS MEMORY LENS TYPE	Get		BE EF	03	06 00	18 90	02 00	0F 24	00 00
MAGNIFY	Get		BE EF	03	06 00	7C D2	02 00	07 30	00 00
	Increment		BE EF	03	06 00	1A D2	04 00	07 30	00 00
	Decrement		BE EF	03	06 00	CB D3	05 00	07 30	00 00
MAGNIFY Position H	Get		BE EF	03	06 00	C8 D7	02 00	10 30	00 00
	Increment		BE EF	03	06 00	AE D7	04 00	10 30	00 00
	Decrement		BE EF	03	06 00	7F D6	05 00	10 30	00 00
MAGNIFY Position V	Get		BE EF	03	06 00	34 D6	02 00	11 30	00 00
	Increment		BE EF	03	06 00	52 D6	04 00	11 30	00 00
	Decrement		BE EF	03	06 00	83 D7	05 00	11 30	00 00
FREEZE	Set	NORMAL	BE EF	03	06 00	83 D2	01 00	02 30	00 00
		FREEZE	BE EF	03	06 00	13 D3	01 00	02 30	01 00
	Get		BE EF	03	06 00	B0 D2	02 00	02 30	00 00
SHUTTER	Set	OFF	BE EF	03	06 00	F3 93	01 00	05 24	00 00
		ON	BE EF	03	06 00	63 92	01 00	05 24	01 00
	Get		BE EF	03	06 00	C0 93	02 00	05 24	00 00
PbyP/PIP	Set	OFF	BE EF	03	06 00	3E 26	01 00	10 23	00 00
		PbyP	BE EF	03	06 00	AE 27	01 00	10 23	01 00
		PIP	BE EF	03	06 00	5E 27	01 00	10 23	02 00
	Get		BE EF	03	06 00	0D 26	02 00	10 23	00 00
PbyP MAIN SIZE	Set	SMALL	BE EF	03	06 00	F2 07	01 00	11 23	7F 00
		MIDDLE	BE EF	03	06 00	02 46	01 00	11 23	80 00
		LARGE	BE EF	03	06 00	92 47	01 00	11 23	81 00
	Get		BE EF	03	06 00	F1 27	02 00	11 23	00 00
PbyP RIGHT SOURCE	Set	COMPUTER IN	BE EF	03	06 00	86 27	01 00	12 23	00 00
		HDMI 1	BE EF	03	06 00	76 27	01 00	12 23	03 00
		HDMI 2	BE EF	03	06 00	16 23	01 00	12 23	0D 00
		HDBaseT	BE EF	03	06 00	D6 2B	01 00	12 23	11 00
		VIDEO	BE EF	03	06 00	16 26	01 00	12 23	01 00
		SDI*	BE EF	03	06 00	26 2B	01 00	12 23	12 00
		DisplayPort	BE EF	03	06 00	B6 2A	01 00	12 23	13 00
	Get		BE EF	03	06 00	B5 27	02 00	12 23	00 00
PbyP MAIN AREA	Set	LEFT	BE EF	03	06 00	7A 26	01 00	13 23	00 00
		RIGHT	BE EF	03	06 00	EA 27	01 00	13 23	01 00
	Get		BE EF	03	06 00	49 26	02 00	13 23	00 00
PbyP LEFT SOURCE	Set	COMPUTER IN	BE EF	03	06 00	F2 26	01 00	15 23	00 00
		HDMI 1	BE EF	03	06 00	02 26	01 00	15 23	03 00
		HDMI 2	BE EF	03	06 00	62 22	01 00	15 23	0D 00
		HDBaseT	BE EF	03	06 00	A2 2A	01 00	15 23	11 00
		VIDEO	BE EF	03	06 00	62 27	01 00	15 23	01 00
		SDI*	BE EF	03	06 00	52 2A	01 00	15 23	12 00
		DisplayPort	BE EF	03	06 00	C2 2B	01 00	15 23	13 00
	Get		BE EF	03	06 00	C1 26	02 00	15 23	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
BRIGHTNESS	Get		BE EF	03	06 00	89 D2	02 00	03 20	00 00
	Increment		BE EF	03	06 00	EF D2	04 00	03 20	00 00
	Decrement		BE EF	03	06 00	3E D3	05 00	03 20	00 00
BRIGHTNESS Reset	Execute		BE EF	03	06 00	58 D3	06 00	00 70	00 00
CONTRAST	Get		BE EF	03	06 00	FD D3	02 00	04 20	00 00
	Increment		BE EF	03	06 00	9B D3	04 00	04 20	00 00
	Decrement		BE EF	03	06 00	4A D2	05 00	04 20	00 00
CONTRAST Reset	Execute		BE EF	03	06 00	A4 D2	06 00	01 70	00 00
GAMMA	Set	1 DEFAULT	BE EF	03	06 00	07 E9	01 00	A1 30	20 00
		1 CUSTOM	BE EF	03	06 00	07 FD	01 00	A1 30	10 00
		2 DEFAULT	BE EF	03	06 00	97 E8	01 00	A1 30	21 00
		2 CUSTOM	BE EF	03	06 00	97 FC	01 00	A1 30	11 00
		3 DEFAULT	BE EF	03	06 00	67 E8	01 00	A1 30	22 00
		3 CUSTOM	BE EF	03	06 00	67 FC	01 00	A1 30	12 00
		4 DEFAULT	BE EF	03	06 00	F7 E9	01 00	A1 30	23 00
		4 CUSTOM	BE EF	03	06 00	F7 FD	01 00	A1 30	13 00
		5 DEFAULT	BE EF	03	06 00	C7 EB	01 00	A1 30	24 00
		5 CUSTOM	BE EF	03	06 00	C7 FF	01 00	A1 30	14 00
		6 DEFAULT	BE EF	03	06 00	57 EA	01 00	A1 30	25 00
		6 CUSTOM	BE EF	03	06 00	57 FE	01 00	A1 30	15 00
		7 DEFAULT	BE EF	03	06 00	A7 EA	01 00	A1 30	26 00
		7 CUSTOM	BE EF	03	06 00	A7 FE	01 00	A1 30	16 00
		8 DEFAULT	BE EF	03	06 00	37 EB	01 00	A1 30	27 00
		8 CUSTOM	BE EF	03	06 00	37 FF	01 00	A1 30	17 00
	Get		BE EF	03	06 00	F4 F0	02 00	A1 30	00 00
User GAMMA Point 1	Get		BE EF	03	06 00	08 FE	02 00	90 30	00 00
	Increment		BE EF	03	06 00	6E FE	04 00	90 30	00 00
	Decrement		BE EF	03	06 00	BF FF	05 00	90 30	00 00
User GAMMA Point 1 Reset	Execute		BE EF	03	06 00	58 C2	06 00	50 70	00 00
User GAMMA Point 2	Get		BE EF	03	06 00	F4 FF	02 00	91 30	00 00
	Increment		BE EF	03	06 00	92 FF	04 00	91 30	00 00
	Decrement		BE EF	03	06 00	43 FE	05 00	91 30	00 00
User GAMMA Point 2 Reset	Execute		BE EF	03	06 00	A4 C3	06 00	51 70	00 00
User GAMMA Point 3	Get		BE EF	03	06 00	B0 FF	02 00	92 30	00 00
	Increment		BE EF	03	06 00	D6 FF	04 00	92 30	00 00
	Decrement		BE EF	03	06 00	07 FE	05 00	92 30	00 00
User GAMMA Point 3 Reset	Execute		BE EF	03	06 00	E0 C3	06 00	52 70	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
User GAMMA Point 4	Get		BE EF	03	06 00	4C FE	02 00	93 30	00 00
	Increment		BE EF	03	06 00	2A FE	04 00	93 30	00 00
	Decrement		BE EF	03	06 00	FB FF	05 00	93 30	00 00
User GAMMA Point 4 Reset	Execute		BE EF	03	06 00	1C C2	06 00	53 70	00 00
User GAMMA Point 5	Get		BE EF	03	06 00	38 FF	02 00	94 30	00 00
	Increment		BE EF	03	06 00	5E FF	04 00	94 30	00 00
	Decrement		BE EF	03	06 00	8F FE	05 00	94 30	00 00
User GAMMA Point 5 Reset	Execute		BE EF	03	06 00	68 C3	06 00	54 70	00 00
User GAMMA Point 6	Get		BE EF	03	06 00	C4 FE	02 00	95 30	00 00
	Increment		BE EF	03	06 00	A2 FE	04 00	95 30	00 00
	Decrement		BE EF	03	06 00	73 FF	05 00	95 30	00 00
User GAMMA Point 6 Reset	Execute		BE EF	03	06 00	94 C2	06 00	55 70	00 00
User GAMMA Point 7	Get		BE EF	03	06 00	80 FE	02 00	96 30	00 00
	Increment		BE EF	03	06 00	E6 FE	04 00	96 30	00 00
	Decrement		BE EF	03	06 00	37 FF	05 00	96 30	00 00
User GAMMA Point 7 Reset	Execute		BE EF	03	06 00	D0 C2	06 00	56 70	00 00
User GAMMA Point 8	Get		BE EF	03	06 00	7C FF	02 00	97 30	00 00
	Increment		BE EF	03	06 00	1A FF	04 00	97 30	00 00
	Decrement		BE EF	03	06 00	CB FE	05 00	97 30	00 00
User GAMMA Point 8 Reset	Execute		BE EF	03	06 00	2C C3	06 00	57 70	00 00
COLOR TEMP	Set	1 HIGH	BE EF	03	06 00	0B F5	01 00	B0 30	03 00
		1 CUSTOM(HIGH)	BE EF	03	06 00	CB F8	01 00	B0 30	13 00
		2 MID-1	BE EF	03	06 00	9B F4	01 00	B0 30	02 00
		2 CUSTOM(MID-1)	BE EF	03	06 00	5B F9	01 00	B0 30	12 00
		3 MID-2	BE EF	03	06 00	3B F7	01 00	B0 30	04 00
		3 CUSTOM (MID-2)	BE EF	03	06 00	FB FA	01 00	B0 30	14 00
		3 LOW	BE EF	03	06 00	6B F4	01 00	B0 30	01 00
		4 CUSTOM(LOW)	BE EF	03	06 00	AB F9	01 00	B0 30	11 00
		4 Hi-BRIGHT-1	BE EF	03	06 00	3B F2	01 00	B0 30	08 00
		5 CUSTOM	BE EF	03	06 00	FB FF	01 00	B0 30	18 00
		5 Hi-BRIGHT-2	BE EF	03	06 00	AB F3	01 00	B0 30	09 00
		6 CUSTOM	BE EF	03	06 00	6B FE	01 00	B0 30	19 00
		6 Hi-BRIGHT-3	BE EF	03	06 00	5B F3	01 00	B0 30	0A 00
		7 CUSTOM	BE EF	03	06 00	9B FE	01 00	B0 30	1A 00
	Get		BE EF	03	06 00	C8 F5	02 00	B0 30	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header			CRC	Command Data		
						Action	Type	Setting code
COLOR TEMP GAIN R	Get	BE EF	03	06 00	34 F4	02 00	B1 30	00 00
	Increment	BE EF	03	06 00	52 F4	04 00	B1 30	00 00
	Decrement	BE EF	03	06 00	83 F5	05 00	B1 30	00 00
COLOR TEMP GAIN R Reset	Execute	BE EF	03	06 00	10 C6	06 00	46 70	00 00
COLOR TEMP GAIN G	Get	BE EF	03	06 00	70 F4	02 00	B2 30	00 00
	Increment	BE EF	03	06 00	16 F4	04 00	B2 30	00 00
	Decrement	BE EF	03	06 00	C7 F5	05 00	B2 30	00 00
COLOR TEMP GAIN G Reset	Execute	BE EF	03	06 00	EC C7	06 00	47 70	00 00
COLOR TEMP GAIN B	Get	BE EF	03	06 00	8C F5	02 00	B3 30	00 00
	Increment	BE EF	03	06 00	EA F5	04 00	B3 30	00 00
	Decrement	BE EF	03	06 00	3B F4	05 00	B3 30	00 00
COLOR TEMP GAIN B Reset	Execute	BE EF	03	06 00	F8 C4	06 00	48 70	00 00
COLOR TEMP OFFSET R	Get	BE EF	03	06 00	04 F5	02 00	B5 30	00 00
	Increment	BE EF	03	06 00	62 F5	04 00	B5 30	00 00
	Decrement	BE EF	03	06 00	B3 F4	05 00	B5 30	00 00
COLOR TEMP OFFSET R Reset	Execute	BE EF	03	06 00	40 C5	06 00	4A 70	00 00
COLOR TEMP OFFSET G	Get	BE EF	03	06 00	40 F5	02 00	B6 30	00 00
	Increment	BE EF	03	06 00	26 F5	04 00	B6 30	00 00
	Decrement	BE EF	03	06 00	F7 F4	05 00	B6 30	00 00
COLOR TEMP OFFSET G Reset	Execute	BE EF	03	06 00	BC C4	06 00	4B 70	00 00
COLOR TEMP OFFSET B	Get	BE EF	03	06 00	BC F4	02 00	B7 30	00 00
	Increment	BE EF	03	06 00	DA F4	04 00	B7 30	00 00
	Decrement	BE EF	03	06 00	0B F5	05 00	B7 30	00 00
COLOR TEMP OFFSET B Reset	Execute	BE EF	03	06 00	C8 C5	06 00	4C 70	00 00
COLOR	Get	BE EF	03	06 00	B5 72	02 00	02 22	00 00
	Increment	BE EF	03	06 00	D3 72	04 00	02 22	00 00
	Decrement	BE EF	03	06 00	02 73	05 00	02 22	00 00
COLOR Reset	Execute	BE EF	03	06 00	80 D0	06 00	0A 70	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
TINT	Get		BE EF	03	06 00	49 73	02 00	03 22	00 00
	Increment		BE EF	03	06 00	2F 73	04 00	03 22	00 00
	Decrement		BE EF	03	06 00	FE 72	05 00	03 22	00 00
TINT Reset	Execute		BE EF	03	06 00	7C D1	06 00	0B 70	00 00
SHARPNESS	Get		BE EF	03	06 00	F1 72	02 00	01 22	00 00
	Increment		BE EF	03	06 00	97 72	04 00	01 22	00 00
	Decrement		BE EF	03	06 00	46 73	05 00	01 22	00 00
SHARPNESS Reset	Execute		BE EF	03	06 00	C4 D0	06 00	09 70	00 00
eClarity	Get		BE EF	03	06 00	5D 70	02 00	0C 22	00 00
	Increment		BE EF	03	06 00	3B 70	04 00	0C 22	00 00
	Decrement		BE EF	03	06 00	EA 71	05 00	0C 22	00 00
eClarity Reset	Execute		BE EF	03	06 00	C8 DB	06 00	2C 70	00 00
HDCR	Get		BE EF	03	06 00	A1 71	02 00	0D 22	00 00
	Increment		BE EF	03	06 00	C7 71	04 00	0D 22	00 00
	Decrement		BE EF	03	06 00	16 70	05 00	0D 22	00 00
HDCR Reset	Execute		BE EF	03	06 00	34 DA	06 00	2D 70	00 00
DYNAMIC IRIS	Set	OFF	BE EF	03	06 00	0B 22	01 00	04 33	00 00
		THEATER	BE EF	03	06 00	CB 2F	01 00	04 33	10 00
		PRESENTATION	BE EF	03	06 00	5B 2E	01 00	04 33	11 00
	Get		BE EF	03	06 00	38 22	02 00	04 33	00 00
MY MEMORY Load	Set	1	BE EF	03	06 00	0E D7	01 00	14 20	00 00
		2	BE EF	03	06 00	9E D6	01 00	14 20	01 00
		3	BE EF	03	06 00	6E D6	01 00	14 20	02 00
		4	BE EF	03	06 00	FE D7	01 00	14 20	03 00
MY MEMORY Save	Set	1	BE EF	03	06 00	F2 D6	01 00	15 20	00 00
		2	BE EF	03	06 00	62 D7	01 00	15 20	01 00
		3	BE EF	03	06 00	92 D7	01 00	15 20	02 00
		4	BE EF	03	06 00	02 D6	01 00	15 20	03 00
ASPECT	Set	NORMAL	BE EF	03	06 00	5E DD	01 00	08 20	10 00
		4:3	BE EF	03	06 00	9E D0	01 00	08 20	00 00
		16:9	BE EF	03	06 00	0E D1	01 00	08 20	01 00
		16:10	BE EF	03	06 00	3E D6	01 00	08 20	0A 00
		14:9	BE EF	03	06 00	CE D6	01 00	08 20	09 00
		NATIVE *	BE EF	03	06 00	5E D7	01 00	08 20	08 00
	Get		BE EF	03	06 00	AD D0	02 00	08 20	00 00
OVER SCAN	Get		BE EF	03	06 00	91 70	02 00	09 22	00 00
	Increment		BE EF	03	06 00	F7 70	04 00	09 22	00 00
	Decrement		BE EF	03	06 00	26 71	05 00	09 22	00 00
OVER SCAN Reset	Execute		BE EF	03	06 00	EC D9	06 00	27 70	00 00
V POSITION	Get		BE EF	03	06 00	0D 83	02 00	00 21	00 00
	Increment		BE EF	03	06 00	6B 83	04 00	00 21	00 00
	Decrement		BE EF	03	06 00	BA 82	05 00	00 21	00 00
V POSITION Reset	Execute		BE EF	03	06 00	E0 D2	06 00	02 70	00 00

(*) only for LWU601i/LWX651i/LWU701i/LWX751i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
HDBaseT FORMAT	Set	AUTO	BE EF	03	06 00	7A EA	01 00	D3 20	00 00
		VIDEO	BE EF	03	06 00	EA EB	01 00	D3 20	01 00
		COMPUTER	BE EF	03	06 00	1A EB	01 00	D3 20	02 00
	Get		BE EF	03	06 00	49 EA	02 00	D3 20	00 00
DisplayPort FORMAT	Set	AUTO	BE EF	03	06 00	BA E1	01 00	F3 20	00 00
		VIDEO	BE EF	03	06 00	2A E0	01 00	F3 20	01 00
		COMPUTER	BE EF	03	06 00	DA E0	01 00	F3 20	02 00
	Get		BE EF	03	06 00	89 E1	02 00	F3 20	00 00
HDMI 1 RANGE	Set	AUTO	BE EF	03	06 00	86 D8	01 00	22 20	00 00
		NORMAL	BE EF	03	06 00	16 D9	01 00	22 20	01 00
		ENHANCED	BE EF	03	06 00	E6 D9	01 00	22 20	02 00
	Get		BE EF	03	06 00	B5 D8	02 00	22 20	00 00
HDMI 2 RANGE	Set	AUTO	BE EF	03	06 00	7A D9	01 00	23 20	00 00
		NORMAL	BE EF	03	06 00	EA D8	01 00	23 20	01 00
		ENHANCED	BE EF	03	06 00	1A D8	01 00	23 20	02 00
	Get		BE EF	03	06 00	49 D9	02 00	23 20	00 00
HDBaseT RANGE	Set	AUTO	BE EF	03	06 00	86 EB	01 00	D2 20	00 00
		NORMAL	BE EF	03	06 00	16 EA	01 00	D2 20	01 00
		ENHANCED	BE EF	03	06 00	E6 EA	01 00	D2 20	02 00
	Get		BE EF	03	06 00	B5 EB	02 00	D2 20	00 00
SDI RANGE*	Set	NORMAL	BE EF	03	06 00	16 E5	01 00	E2 20	01 00
		ENHANCED	BE EF	03	06 00	E6 E5	01 00	E2 20	02 00
	Get		BE EF	03	06 00	B5 E4	02 00	E2 20	00 00
DisplayPort RANGE	Set	AUTO	BE EF	03	06 00	46 E0	01 00	F2 20	00 00
		NORMAL	BE EF	03	06 00	D6 E1	01 00	F2 20	01 00
		ENHANCED	BE EF	03	06 00	26 E1	01 00	F2 20	02 00
	Get		BE EF	03	06 00	75 E0	02 00	F2 20	00 00
COMPUTER IN	Set	AUTO	BE EF	03	06 00	CE D6	01 00	10 20	03 00
		SYNC ON G OFF	BE EF	03	06 00	5E D7	01 00	10 20	02 00
	Get		BE EF	03	06 00	0D D6	02 00	10 20	00 00
FRAME LOCK - COMPUTER IN	Set	OFF	BE EF	03	06 00	3B C2	01 00	50 30	00 00
		ON	BE EF	03	06 00	AB C3	01 00	50 30	01 00
	Get		BE EF	03	06 00	08 C2	02 00	50 30	00 00
FRAME LOCK - HDMI 1	Set	OFF	BE EF	03	06 00	7F C2	01 00	53 30	00 00
		ON	BE EF	03	06 00	EF C3	01 00	53 30	01 00
	Get		BE EF	03	06 00	4C C2	02 00	53 30	00 00
FRAME LOCK - HDMI 2	Set	OFF	BE EF	03	06 00	97 C0	01 00	5D 30	00 00
		ON	BE EF	03	06 00	07 C1	01 00	5D 30	01 00
	Get		BE EF	03	06 00	A4 C0	02 00	5D 30	00 00
FRAME LOCK - HDBaseT	Set	OFF	BE EF	03	06 00	C2 EB	01 00	D1 20	00 00
		ON	BE EF	03	06 00	52 EA	01 00	D1 20	01 00
	Get		BE EF	03	06 00	F1 EB	02 00	D1 20	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
H POSITION	Get		BE EF	03	06 00	F1 82	02 00	01 21	00 00
	Increment		BE EF	03	06 00	97 82	04 00	01 21	00 00
	Decrement		BE EF	03	06 00	46 83	05 00	01 21	00 00
H POSITION Reset	Execute		BE EF	03	06 00	1C D3	06 00	03 70	00 00
H PHASE	Get		BE EF	03	06 00	49 83	02 00	03 21	00 00
	Increment		BE EF	03	06 00	2F 83	04 00	03 21	00 00
	Decrement		BE EF	03	06 00	FE 82	05 00	03 21	00 00
H SIZE	Get		BE EF	03	06 00	B5 82	02 00	02 21	00 00
	Increment		BE EF	03	06 00	D3 82	04 00	02 21	00 00
	Decrement		BE EF	03	06 00	02 83	05 00	02 21	00 00
H SIZE Reset	Execute		BE EF	03	06 00	68 D2	06 00	04 70	00 00
AUTO IMAGE	Execute		BE EF	03	06 00	91 D0	06 00	0A 20	00 00
PROGRESSIVE	Set	OFF	BE EF	03	06 00	4A 72	01 00	07 22	00 00
		TV	BE EF	03	06 00	DA 73	01 00	07 22	01 00
		FILM	BE EF	03	06 00	2A 73	01 00	07 22	02 00
	Get		BE EF	03	06 00	79 72	02 00	07 22	00 00
VIDEO NR	Set	LOW	BE EF	03	06 00	26 72	01 00	06 22	01 00
		MID	BE EF	03	06 00	D6 72	01 00	06 22	02 00
		HIGH	BE EF	03	06 00	46 73	01 00	06 22	03 00
	Get		BE EF	03	06 00	85 73	02 00	06 22	00 00
COLOR SPACE	Set	AUTO	BE EF	03	06 00	0E 72	01 00	04 22	00 00
		RGB	BE EF	03	06 00	9E 73	01 00	04 22	01 00
		SMPTE240	BE EF	03	06 00	6E 73	01 00	04 22	02 00
		REC709	BE EF	03	06 00	FE 72	01 00	04 22	03 00
		REC601	BE EF	03	06 00	CE 70	01 00	04 22	04 00
	Get		BE EF	03	06 00	3D 72	02 00	04 22	00 00
C-VIDEO FORMAT	Set	AUTO	BE EF	03	06 00	A2 70	01 00	11 22	0A 00
		NTSC	BE EF	03	06 00	C2 74	01 00	11 22	04 00
		PAL	BE EF	03	06 00	52 75	01 00	11 22	05 00
		SECAM	BE EF	03	06 00	52 70	01 00	11 22	09 00
		NTSC4.43	BE EF	03	06 00	62 77	01 00	11 22	02 00
		M-PAL	BE EF	03	06 00	C2 71	01 00	11 22	08 00
		N-PAL	BE EF	03	06 00	32 74	01 00	11 22	07 00
	Get		BE EF	03	06 00	31 76	02 00	11 22	00 00
HDMI 1 FORMAT	Set	AUTO	BE EF	03	06 00	BA 77	01 00	13 22	00 00
		VIDEO	BE EF	03	06 00	2A 76	01 00	13 22	01 00
		COMPUTER	BE EF	03	06 00	DA 76	01 00	13 22	02 00
	Get		BE EF	03	06 00	89 77	02 00	13 22	00 00
HDMI 2 FORMAT	Set	AUTO	BE EF	03	06 00	52 75	01 00	1D 22	00 00
		VIDEO	BE EF	03	06 00	C2 74	01 00	1D 22	01 00
		COMPUTER	BE EF	03	06 00	32 74	01 00	1D 22	02 00
	Get		BE EF	03	06 00	61 75	02 00	1D 22	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
FRAME LOCK - SDI*	Set	OFF	BE EF	03	06 00	C2 E4	01 00	E1 20	00 00
		ON	BE EF	03	06 00	52 E5	01 00	E1 20	01 00
	Get		BE EF	03	06 00	F1 E4	02 00	E1 20	00 00
FRAME LOCK - DisplayPort	Set	OFF	BE EF	03	06 00	02 E0	01 00	F1 20	00 00
		ON	BE EF	03	06 00	92 E1	01 00	F1 20	01 00
	Get		BE EF	03	06 00	31 E0	02 00	F1 20	00 00
PICTURE POSITION V	Set	TOP	BE EF	03	06 00	02 D0	01 00	09 20	02 00
		MIDDLE	BE EF	03	06 00	62 D1	01 00	09 20	00 00
		BOTTOM	BE EF	03	06 00	F2 D0	01 00	09 20	01 00
	Get		BE EF	03	06 00	51 D1	02 00	09 20	00 00
PICTURE POSITION H	Set	RIGHT	BE EF	03	06 00	46 D5	01 00	1E 20	01 00
		MIDDLE	BE EF	03	06 00	D6 D4	01 00	1E 20	00 00
		LEFT	BE EF	03	06 00	B6 D5	01 00	1E 20	02 00
	Get		BE EF	03	06 00	E5 D4	02 00	1E 20	00 00
GEOMETRIC MODE	Set	KEYSTONE	BE EF	03	06 00	6B 8C	01 00	30 31	01 00
		3D KEYSTONE	BE EF	03	06 00	9B 8C	01 00	30 31	02 00
		WARPING	BE EF	03	06 00	3B 8F	01 00	30 31	04 00
	Get		BE EF	03	06 00	C8 8D	02 00	30 31	00 00
KEYSTONE V	Get		BE EF	03	06 00	B9 D3	02 00	07 20	00 00
	Increment		BE EF	03	06 00	DF D3	04 00	07 20	00 00
	Decrement		BE EF	03	06 00	0E D2	05 00	07 20	00 00
KEYSTONE V Reset	Execute		BE EF	03	06 00	08 D0	06 00	0C 70	00 00
KEYSTONE H	Get		BE EF	03	06 00	E9 D0	02 00	0B 20	00 00
	Increment		BE EF	03	06 00	8F D0	04 00	0B 20	00 00
	Decrement		BE EF	03	06 00	5E D1	05 00	0B 20	00 00
KEYSTONE H Reset	Execute		BE EF	03	06 00	98 D8	06 00	20 70	00 00
3D KEYSTONE Left Top - H	Get		BE EF	03	06 00	31 89	02 00	21 21	00 00
	Increment		BE EF	03	06 00	57 89	04 00	21 21	00 00
	Decrement		BE EF	03	06 00	86 88	05 00	21 21	00 00
3D KEYSTONE Left Top - V	Get		BE EF	03	06 00	75 89	02 00	22 21	00 00
	Increment		BE EF	03	06 00	13 89	04 00	22 21	00 00
	Decrement		BE EF	03	06 00	C2 88	05 00	22 21	00 00
3D KEYSTONE Right Top - H	Get		BE EF	03	06 00	89 88	02 00	23 21	00 00
	Increment		BE EF	03	06 00	EF 88	04 00	23 21	00 00
	Decrement		BE EF	03	06 00	3E 89	05 00	23 21	00 00
3D KEYSTONE Right Top - V	Get		BE EF	03	06 00	FD 89	02 00	24 21	00 00
	Increment		BE EF	03	06 00	9B 89	04 00	24 21	00 00
	Decrement		BE EF	03	06 00	4A 88	05 00	24 21	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header			CRC	Command Data		
						Action	Type	Setting code
3D KEYSTONE Left Bottom - H	Get	BE EF	03	06 00	01 88	02 00	25 21	00 00
	Increment	BE EF	03	06 00	67 88	04 00	25 21	00 00
	Decrement	BE EF	03	06 00	B6 89	05 00	25 21	00 00
3D KEYSTONE Left Bottom - V	Get	BE EF	03	06 00	45 88	02 00	26 21	00 00
	Increment	BE EF	03	06 00	23 88	04 00	26 21	00 00
	Decrement	BE EF	03	06 00	F2 89	05 00	26 21	00 00
3D KEYSTONE Right Bottom - H	Get	BE EF	03	06 00	B9 89	02 00	27 21	00 00
	Increment	BE EF	03	06 00	DF 89	04 00	27 21	00 00
	Decrement	BE EF	03	06 00	0E 88	05 00	27 21	00 00
3D KEYSTONE Right Bottom - V	Get	BE EF	03	06 00	AD 8A	02 00	28 21	00 00
	Increment	BE EF	03	06 00	CB 8A	04 00	28 21	00 00
	Decrement	BE EF	03	06 00	1A 8B	05 00	28 21	00 00
3D KEYSTONE All Corners Reset	Execute	BE EF	03	06 00	D5 8A	06 00	29 21	00 00
3D KEYSTONE Left Side Distortion	Get	BE EF	03	06 00	31 97	02 00	41 21	00 00
	Increment	BE EF	03	06 00	57 97	04 00	41 21	00 00
	Decrement	BE EF	03	06 00	86 96	05 00	41 21	00 00
3D KEYSTONE Right Side Distortion	Get	BE EF	03	06 00	75 97	02 00	42 21	00 00
	Increment	BE EF	03	06 00	13 97	04 00	42 21	00 00
	Decrement	BE EF	03	06 00	C2 96	05 00	42 21	00 00
3D KEYSTONE Top Side Distortion	Get	BE EF	03	06 00	FD 97	02 00	44 21	00 00
	Increment	BE EF	03	06 00	9B 97	04 00	44 21	00 00
	Decrement	BE EF	03	06 00	4A 96	05 00	44 21	00 00
3D KEYSTONE Bottom Side Distortion	Get	BE EF	03	06 00	01 96	02 00	45 21	00 00
	Increment	BE EF	03	06 00	67 96	04 00	45 21	00 00
	Decrement	BE EF	03	06 00	B6 97	05 00	45 21	00 00
3D KEYSTONE All Sides Reset	Execute	BE EF	03	06 00	3D 96	06 00	47 21	00 00
3D KEYSTONE Memory Save-1	Execute	BE EF	03	06 00	29 95	06 00	48 21	00 00
3D KEYSTONE Memory Save-2	Execute	BE EF	03	06 00	D5 94	06 00	49 21	00 00
3D KEYSTONE Memory Save-3	Execute	BE EF	03	06 00	91 94	06 00	4A 21	00 00
3D KEYSTONE Memory Load-1	Execute	BE EF	03	06 00	6D 95	06 00	4B 21	00 00
3D KEYSTONE Memory Load-2	Execute	BE EF	03	06 00	19 94	06 00	4C 21	00 00
3D KEYSTONE Memory Load-3	Execute	BE EF	03	06 00	E5 95	06 00	4D 21	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
CROPPING MODE	Set	OFF	BE EF	03	06 00	FB 93	01 00	50 31	00 00
		ON	BE EF	03	06 00	6B 92	01 00	50 31	01 00
	Get		BE EF	03	06 00	C8 93	02 00	50 31	00 00
CROPPING SETUP X	Get		BE EF	03	06 00	A8 91	02 00	58 31	00 00
	Increment		BE EF	03	06 00	CE 91	04 00	58 31	00 00
	Decrement		BE EF	03	06 00	1F 90	05 00	58 31	00 00
CROPPING SETUP Y	Get		BE EF	03	06 00	54 90	02 00	59 31	00 00
	Increment		BE EF	03	06 00	32 90	04 00	59 31	00 00
	Decrement		BE EF	03	06 00	E3 91	05 00	59 31	00 00
CROPPING SETUP W	Get		BE EF	03	06 00	10 90	02 00	5A 31	00 00
	Increment		BE EF	03	06 00	76 90	04 00	5A 31	00 00
	Decrement		BE EF	03	06 00	A7 91	05 00	5A 31	00 00
CROPPING SETUP H	Get		BE EF	03	06 00	EC 91	02 00	5B 31	00 00
	Increment		BE EF	03	06 00	8A 91	04 00	5B 31	00 00
	Decrement		BE EF	03	06 00	5B 90	05 00	5B 31	00 00
CROPPING Apply	Execute		BE EF	03	06 00	B0 93	06 00	51 31	00 00
CROPPING Reset	Execute		BE EF	03	06 00	F4 93	06 00	52 31	00 00
WARPING MODE	Set	OFF	BE EF	03	06 00	FB 9C	01 00	60 31	00 00
		MODE-1	BE EF	03	06 00	6B 9D	01 00	60 31	01 00
		MODE-2	BE EF	03	06 00	9B 9D	01 00	60 31	02 00
		MODE-3	BE EF	03	06 00	0B 9C	01 00	60 31	03 00
	Get		BE EF	03	06 00	C8 9C	02 00	60 31	00 00
Dimming Level	Get		BE EF	03	06 00	7C 22	02 00	07 33	00 00
	Increment		BE EF	03	06 00	1A 22	04 00	07 33	00 00
	Decrement		BE EF	03	06 00	CB 23	05 00	07 33	00 00
WHITE BALANCE OFFSET R	Get		BE EF	03	06 00	0C 72	02 00	50 27	00 00
	Increment		BE EF	03	06 00	6A 72	04 00	50 27	00 00
	Decrement		BE EF	03	06 00	BB 73	05 00	50 27	00 00
WHITE BALANCE OFFSET R Reset	Execute		BE EF	03	06 00	38 E2	06 00	F8 70	00 00
WHITE BALANCE OFFSET G	Get		BE EF	03	06 00	F0 73	02 00	51 27	00 00
	Increment		BE EF	03	06 00	96 73	04 00	51 27	00 00
	Decrement		BE EF	03	06 00	47 72	05 00	51 27	00 00
WHITE BALANCE OFFSET G REset	Execute		BE EF	03	06 00	C4 E3	06 00	F9 70	00 00
WHITE BALANCE OFFSET B	Get		BE EF	03	06 00	B4 73	02 00	52 27	00 00
	Increment		BE EF	03	06 00	D2 73	04 00	52 27	00 00
	Decrement		BE EF	03	06 00	03 72	05 00	52 27	00 00
WHITE BALANCE OFFSET B Reset	Execute		BE EF	03	06 00	80 E3	06 00	FA 70	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
EDGE BLENDING MODE	Set	OFF	BE EF	03	06 00	6B 94	01 00	4C 31	00 00
		MANUAL	BE EF	03	06 00	FB 95	01 00	4C 31	01 00
		CAMERA	BE EF	03	06 00	0B 95	01 00	4C 31	02 00
	Get		BE EF	03	06 00	58 94	02 00	4C 31	00 00
EDGE BLENDING REGION Reset	Execute		BE EF	03	06 00	8C 96	06 00	40 31	00 00
EDGE BLENDING LEVEL	Increment		BE EF	03	06 00	92 96	04 00	41 31	00 00
	Decrement		BE EF	03	06 00	43 97	05 00	41 31	00 00
	Get		BE EF	03	06 00	F4 96	02 00	41 31	00 00
EDGE BLENDING LEFT	Get		BE EF	03	06 00	68 95	02 00	48 31	00 00
	Increment		BE EF	03	06 00	0E 95	04 00	48 31	00 00
	Decrement		BE EF	03	06 00	DF 94	05 00	48 31	00 00
EDGE BLENDING RIGHT	Get		BE EF	03	06 00	94 94	02 00	49 31	00 00
	Increment		BE EF	03	06 00	F2 94	04 00	49 31	00 00
	Decrement		BE EF	03	06 00	23 95	05 00	49 31	00 00
EDGE BLENDING TOP	Get		BE EF	03	06 00	D0 94	02 00	4A 31	00 00
	Increment		BE EF	03	06 00	B6 94	04 00	4A 31	00 00
	Decrement		BE EF	03	06 00	67 95	05 00	4A 31	00 00
EDGE BLENDING BOTTOM	Get		BE EF	03	06 00	2C 95	02 00	4B 31	00 00
	Increment		BE EF	03	06 00	4A 95	04 00	4B 31	00 00
	Decrement		BE EF	03	06 00	9B 94	05 00	4B 31	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header			CRC	Command Data		
						Action	Type	Setting code
WHITE BALANCE GAIN R	Get	BE EF	03	06 00	3C 73	02 00	54 27	00 00
	Increment	BE EF	03	06 00	5A 73	04 00	54 27	00 00
	Decrement	BE EF	03	06 00	8B 72	05 00	54 27	00 00
WHITE BALANCE GAIN R Reset	Execute	BE EF	03	06 00	08 E3	06 00	FC 70	00 00
WHITE BALANCE GAIN G	Get	BE EF	03	06 00	C0 72	02 00	55 27	00 00
	Increment	BE EF	03	06 00	A6 72	04 00	55 27	00 00
	Decrement	BE EF	03	06 00	77 73	05 00	55 27	00 00
WHITE BALANCE GAIN G Reset	Execute	BE EF	03	06 00	F4 E2	06 00	FD 70	00 00
WHITE BALANCE GAIN B	Get	BE EF	03	06 00	84 72	02 00	56 27	00 00
	Increment	BE EF	03	06 00	E2 72	04 00	56 27	00 00
	Decrement	BE EF	03	06 00	33 73	05 00	56 27	00 00
WHITE BALANCE GAIN B Reset	Execute	BE EF	03	06 00	B0 E2	06 00	FE 70	00 00
BLACK LEVEL R	Get	BE EF	03	06 00	CC 76	02 00	40 27	00 00
	Increment	BE EF	03	06 00	AA 76	04 00	40 27	00 00
	Decrement	BE EF	03	06 00	7B 77	05 00	40 27	00 00
BLACK LEVEL R Reset	Execute	BE EF	03	06 00	68 E1	06 00	F4 70	00 00
BLACK LEVEL G	Get	BE EF	03	06 00	30 77	02 00	41 27	00 00
	Increment	BE EF	03	06 00	56 77	04 00	41 27	00 00
	Decrement	BE EF	03	06 00	87 76	05 00	41 27	00 00
BLACK LEVEL G Reset	Execute	BE EF	03	06 00	94 E0	06 00	F5 70	00 00
BLACK LEVEL B	Get	BE EF	03	06 00	74 77	02 00	42 27	00 00
	Increment	BE EF	03	06 00	12 77	04 00	42 27	00 00
	Decrement	BE EF	03	06 00	C3 76	05 00	42 27	00 00
BLACK LEVEL B Reset	Execute	BE EF	03	06 00	D0 E0	06 00	F6 70	00 00
BLACK LEVEL W	Get	BE EF	03	06 00	88 76	02 00	43 27	00 00
	Increment	BE EF	03	06 00	EE 76	04 00	43 27	00 00
	Decrement	BE EF	03	06 00	3F 77	05 00	43 27	00 00
BLACK LEVEL W Reset	Execute	BE EF	03	06 00	2C E1	06 00	F7 70	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
HDCR LiteLoc	Set	OFF	BE EF	03	06 00	D6 71	01 00	0E 22	00 00
		ON	BE EF	03	06 00	46 70	01 00	0E 22	01 00
	Get		BE EF	03	06 00	E5 71	02 00	0E 22	00 00
ECO MODE	Set	NORMAL	BE EF	03	06 00	3B 23	01 00	00 33	00 00
		ECO	BE EF	03	06 00	AB 22	01 00	00 33	01 00
	Get		BE EF	03	06 00	08 23	02 00	00 33	00 00
INSTALLATION	Set	FRONT / DESKTOP	BE EF	03	06 00	C7 D2	01 00	01 30	00 00
		REAR / DESKTOP	BE EF	03	06 00	57 D3	01 00	01 30	01 00
		REAR / CEILING	BE EF	03	06 00	A7 D3	01 00	01 30	02 00
		FRONT / CEILING	BE EF	03	06 00	37 D2	01 00	01 30	03 00
	Get		BE EF	03	06 00	F4 D2	02 00	01 30	00 00
STANDBY MODE	Set	NORMAL	BE EF	03	06 00	D6 D2	01 00	01 60	00 00
		POWER SAVE	BE EF	03	06 00	46 D3	01 00	01 60	01 00
	Get		BE EF	03	06 00	E5 D2	02 00	01 60	00 00
COLOR UNIFORMITY LEVEL	Set	1	BE EF	03	06 00	AF 6D	01 00	30 27	01 00
		2	BE EF	03	06 00	5F 6D	01 00	30 27	02 00
		3	BE EF	03	06 00	CF 6C	01 00	30 27	03 00
		4	BE EF	03	06 00	FF 6E	01 00	30 27	04 00
	Get		BE EF	03	06 00	0C 6C	02 00	30 27	00 00
COLOR UNIFORMITY AREA	Set	Top Left	BE EF	03	06 00	C3 6D	01 00	31 27	00 00
		Top	BE EF	03	06 00	53 6C	01 00	31 27	01 00
		Top Right	BE EF	03	06 00	A3 6C	01 00	31 27	02 00
		Left	BE EF	03	06 00	03 AC	01 00	31 27	00 01
		All	BE EF	03	06 00	93 AD	01 00	31 27	01 01
		Right	BE EF	03	06 00	63 AD	01 00	31 27	02 01
		Bottom Left	BE EF	03	06 00	02 EC	01 00	31 27	00 02
		Bottom	BE EF	03	06 00	92 ED	01 00	31 27	01 02
		Bottom Right	BE EF	03	06 00	62 ED	01 00	31 27	02 02
	Get		BE EF	03	06 00	F0 6D	02 00	31 27	00 00
COLOR UNIFORMITY R	Get		BE EF	03	06 00	B4 6D	02 00	32 27	00 00
	Increment		BE EF	03	06 00	D2 6D	04 00	32 27	00 00
	Decrement		BE EF	03	06 00	03 6C	05 00	32 27	00 00
COLOR UNIFORMITY R Reset	Execute		BE EF	03	06 00	58 E0	06 00	F0 70	00 00
COLOR UNIFORMITY G	Get		BE EF	03	06 00	48 6C	02 00	33 27	00 00
	Increment		BE EF	03	06 00	2E 6C	04 00	33 27	00 00
	Decrement		BE EF	03	06 00	FF 6D	05 00	33 27	00 00
COLOR UNIFORMITY G Reset	Execute		BE EF	03	06 00	A4 E1	06 00	F1 70	00 00
COLOR UNIFORMITY B	Get		BE EF	03	06 00	3C 6D	02 00	34 27	00 00
	Increment		BE EF	03	06 00	5A 6D	04 00	34 27	00 00
	Decrement		BE EF	03	06 00	8B 6C	05 00	34 27	00 00
COLOR UNIFORMITY B Reset	Execute		BE EF	03	06 00	E0 E1	06 00	F2 70	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
COLOR UNIFORMITY ALL Reset	Execute		BE EF	03	06 00	1C E0	06 00	F3 70	00 00
COLOR UNIFORMITY PATTERN	Set	OFF	BE EF	03	06 00	B7 6C	01 00	36 27	00 00
		ON	BE EF	03	06 00	27 6D	01 00	36 27	01 00
	Get		BE EF	03	06 00	84 6C	02 00	36 27	00 00
VOLUME - COMPUTER IN	Get		BE EF	03	06 00	CD CC	02 00	60 20	00 00
	Increment		BE EF	03	06 00	AB CC	04 00	60 20	00 00
	Decrement		BE EF	03	06 00	7A CD	05 00	60 20	00 00
VOLUME - LAN	Get		BE EF	03	06 00	E9 CE	02 00	6B 20	00 00
	Increment		BE EF	03	06 00	8F CE	04 00	6B 20	00 00
	Decrement		BE EF	03	06 00	5E CF	05 00	6B 20	00 00
VOLUME - HDMI 1	Get		BE EF	03	06 00	89 CC	02 00	63 20	00 00
	Increment		BE EF	03	06 00	EF CC	04 00	63 20	00 00
	Decrement		BE EF	03	06 00	3E CD	05 00	63 20	00 00
VOLUME - HDMI 2	Get		BE EF	03	06 00	61 CE	02 00	6D 20	00 00
	Increment		BE EF	03	06 00	07 CE	04 00	6D 20	00 00
	Decrement		BE EF	03	06 00	D6 CF	05 00	6D 20	00 00
VOLUME - HDBaseT	Get		BE EF	03	06 00	C1 EA	02 00	D5 20	00 00
	Increment		BE EF	03	06 00	A7 EA	04 00	D5 20	00 00
	Decrement		BE EF	03	06 00	76 EB	05 00	D5 20	00 00
VOLUME - VIDEO	Get		BE EF	03	06 00	31 CD	02 00	61 20	00 00
	Increment		BE EF	03	06 00	57 CD	04 00	61 20	00 00
	Decrement		BE EF	03	06 00	86 CC	05 00	61 20	00 00
VOLUME - SDI*	Get		BE EF	03	06 00	C1 E5	02 00	E5 20	00 00
	Increment		BE EF	03	06 00	A7 E5	04 00	E5 20	00 00
	Decrement		BE EF	03	06 00	76 E4	05 00	E5 20	00 00
VOLUME - DisplayPort	Get		BE EF	03	06 00	01 E1	02 00	F5 20	00 00
	Increment		BE EF	03	06 00	67 E1	04 00	F5 20	00 00
	Decrement		BE EF	03	06 00	B6 E0	05 00	F5 20	00 00
VOLUME - STANDBY	Get		BE EF	03	06 00	D9 CF	02 00	6F 20	00 00
	Increment		BE EF	03	06 00	BF CF	04 00	6F 20	00 00
	Decrement		BE EF	03	06 00	6E CE	05 00	6F 20	00 00
VOLUME - ALL	Get		BE EF	03	06 00	CD C3	02 00	50 20	00 00
	Increment		BE EF	03	06 00	AB C3	04 00	50 20	00 00
	Decrement		BE EF	03	06 00	7A C2	05 00	50 20	00 00
MUTE	Set	OFF	BE EF	03	06 00	46 D3	01 00	02 20	00 00
		ON	BE EF	03	06 00	D6 D2	01 00	02 20	01 00
	Get		BE EF	03	06 00	75 D3	02 00	02 20	00 00
AV MUTE	Set	OFF	BE EF	03	06 00	FE F0	01 00	A0 20	00 00
		ON	BE EF	03	06 00	6E F1	01 00	A0 20	01 00
	Get		BE EF	03	06 00	CD F0	02 00	A0 20	00 00
SPEAKER	Set	OFF	BE EF	03	06 00	6E D5	01 00	1C 20	00 00
		ON	BE EF	03	06 00	FE D4	01 00	1C 20	01 00
	Get		BE EF	03	06 00	5D D5	02 00	1C 20	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
AUDIO SOURCE - COMPUTER IN	Set	AUDIO IN1	BE EF	03	06 00	6E DC	01 00	30 20	01 00
		AUDIO IN2	BE EF	03	06 00	9E DC	01 00	30 20	02 00
		OFF	BE EF	03	06 00	FE DD	01 00	30 20	00 00
	Get		BE EF	03	06 00	CD DD	02 00	30 20	00 00
AUDIO SOURCE - LAN	Set	AUDIO IN1	BE EF	03	06 00	4A DE	01 00	3B 20	01 00
		AUDIO IN2	BE EF	03	06 00	BA DE	01 00	3B 20	02 00
		AUDIO LAN	BE EF	03	06 00	8A D3	01 00	3B 20	11 00
		OFF	BE EF	03	06 00	DA DF	01 00	3B 20	00 00
	Get		BE EF	03	06 00	E9 DF	02 00	3B 20	00 00
AUDIO SOURCE - HDMI 1	Set	AUDIO IN1	BE EF	03	06 00	2A DC	01 00	33 20	01 00
		AUDIO IN2	BE EF	03	06 00	DA DC	01 00	33 20	02 00
		AUDIO HDMI 1	BE EF	03	06 00	7A C4	01 00	33 20	20 00
		OFF	BE EF	03	06 00	BA DD	01 00	33 20	00 00
	Get		BE EF	03	06 00	89 DD	02 00	33 20	00 00
AUDIO SOURCE - HDMI 2	Set	AUDIO IN1	BE EF	03	06 00	C2 DE	01 00	3D 20	01 00
		AUDIO IN2	BE EF	03	06 00	32 DE	01 00	3D 20	02 00
		AUDIO HDMI 2	BE EF	03	06 00	02 C7	01 00	3D 20	21 00
		OFF	BE EF	03	06 00	52 DF	01 00	3D 20	00 00
	Get		BE EF	03	06 00	61 DF	02 00	3D 20	00 00
AUDIO SOURCE - HDBaseT	Set	AUDIO IN1	BE EF	03	06 00	9E EA	01 00	D4 20	01 00
		AUDIO IN2	BE EF	03	06 00	6E EA	01 00	D4 20	02 00
		AUDIO HDBaseT	BE EF	03	06 00	0E F0	01 00	D4 20	24 00
		OFF	BE EF	03	06 00	0E EB	01 00	D4 20	00 00
	Get		BE EF	03	06 00	3D EB	02 00	D4 20	00 00
AUDIO SOURCE - SDI*	Set	AUDIO IN1	BE EF	03	06 00	9E E5	01 00	E4 20	01 00
		AUDIO IN2	BE EF	03	06 00	6E E5	01 00	E4 20	02 00
		OFF	BE EF	03	06 00	0E E4	01 00	E4 20	00 00
	Get		BE EF	03	06 00	3D E4	02 00	E4 20	00 00
AUDIO SOURCE - DisplayPort	Set	AUDIO IN1	BE EF	03	06 00	5E E1	01 00	F4 20	01 00
		AUDIO IN2	BE EF	03	06 00	AE E1	01 00	F4 20	02 00
		AUDIO DisplayPort	BE EF	03	06 00	AE FA	01 00	F4 20	26 00
		OFF	BE EF	03	06 00	CE E0	01 00	F4 20	00 00
	Get		BE EF	03	06 00	FD E0	02 00	F4 20	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
MENU POSITION V	Get		BE EF	03	06 00	40 D7	02 00	16 30	00 00
	Increment		BE EF	03	06 00	26 D7	04 00	16 30	00 00
	Decrement		BE EF	03	06 00	F7 D6	05 00	16 30	00 00
MENU POSITION V Reset	Execute		BE EF	03	06 00	A8 C7	06 00	44 70	00 00
MENU POSITION H	Get		BE EF	03	06 00	04 D7	02 00	15 30	00 00
	Increment		BE EF	03	06 00	62 D7	04 00	15 30	00 00
	Decrement		BE EF	03	06 00	B3 D6	05 00	15 30	00 00
MENU POSITION H Reset	Execute		BE EF	03	06 00	DC C6	06 00	43 70	00 00
BLANK	Set	My Screen	BE EF	03	06 00	FB CA	01 00	00 30	20 00
		ORIGINAL	BE EF	03	06 00	FB E2	01 00	00 30	40 00
		BLUE	BE EF	03	06 00	CB D3	01 00	00 30	03 00
		WHITE	BE EF	03	06 00	6B D0	01 00	00 30	05 00
		BLACK	BE EF	03	06 00	9B D0	01 00	00 30	06 00
	Get		BE EF	03	06 00	08 D3	02 00	00 30	00 00
BLANK On/Off	Set	OFF	BE EF	03	06 00	FB D8	01 00	20 30	00 00
		ON	BE EF	03	06 00	6B D9	01 00	20 30	01 00
	Get		BE EF	03	06 00	C8 D8	02 00	20 30	00 00
AUTO BLANK	Set	BLUE	BE EF	03	06 00	67 D1	01 00	0D 30	03 00
		WHITE	BE EF	03	06 00	C7 D2	01 00	0D 30	05 00
		BLACK	BE EF	03	06 00	37 D2	01 00	0D 30	06 00
	Get		BE EF	03	06 00	A4 D1	02 00	0D 30	00 00
START UP	Set	My Screen	BE EF	03	06 00	CB CB	01 00	04 30	20 00
		ORIGINAL	BE EF	03	06 00	0B D2	01 00	04 30	00 00
		OFF	BE EF	03	06 00	9B D3	01 00	04 30	01 00
	Get		BE EF	03	06 00	38 D2	02 00	04 30	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
AUDIO SOURCE - VIDEO	Set	AUDIO IN1	BE EF	03	06 00	92 DD	01 00	31 20	01 00
		AUDIO IN2	BE EF	03	06 00	62 DD	01 00	31 20	02 00
		OFF	BE EF	03	06 00	02 DC	01 00	31 20	00 00
	Get		BE EF	03	06 00	31 DC	02 00	31 20	00 00
AUDIO SOURCE - AUDIO OUT STANDBY	Set	AUDIO IN1	BE EF	03	06 00	7A DF	01 00	3F 20	01 00
		AUDIO IN2	BE EF	03	06 00	8A DF	01 00	3F 20	02 00
		HDMI 1	BE EF	03	06 00	2A C7	01 00	3F 20	20 00
		HDMI 2	BE EF	03	06 00	BA C6	01 00	3F 20	21 00
		HDBaseT	BE EF	03	06 00	EA C5	01 00	3F 20	24 00
		DisplayPort	BE EF	03	06 00	8A C4	01 00	3F 20	26 00
		OFF	BE EF	03	06 00	EA DE	01 00	3F 20	00 00
	Get		BE EF	03	06 00	D9 DE	02 00	3F 20	00 00
LAN SOUND ENABLE	Set	Disable	BE EF	03	06 00	BA F0	01 00	A3 20	00 00
		Enable	BE EF	03	06 00	2A F1	01 00	A3 20	01 00
	Get		BE EF	03	06 00	89 F0	02 00	A3 20	00 00
LANGUAGE	Set	ENGLISH	BE EF	03	06 00	F7 D3	01 00	05 30	00 00
		FRANÇAIS	BE EF	03	06 00	67 D2	01 00	05 30	01 00
		DEUTSCH	BE EF	03	06 00	97 D2	01 00	05 30	02 00
		ESPAÑOL	BE EF	03	06 00	07 D3	01 00	05 30	03 00
		ITALIANO	BE EF	03	06 00	37 D1	01 00	05 30	04 00
		NORSK	BE EF	03	06 00	A7 D0	01 00	05 30	05 00
		NEDERLANDS	BE EF	03	06 00	57 D0	01 00	05 30	06 00
		PORTUGUÊS	BE EF	03	06 00	C7 D1	01 00	05 30	07 00
		日本語	BE EF	03	06 00	37 D4	01 00	05 30	08 00
		簡体中文	BE EF	03	06 00	A7 D5	01 00	05 30	09 00
		繁体中文	BE EF	03	06 00	37 DE	01 00	05 30	10 00
		한국어	BE EF	03	06 00	57 D5	01 00	05 30	0A 00
		SVENSKA	BE EF	03	06 00	C7 D4	01 00	05 30	0B 00
		РУССКИЙ	BE EF	03	06 00	F7 D6	01 00	05 30	0C 00
		SUOMI	BE EF	03	06 00	67 D7	01 00	05 30	0D 00
		POLSKI	BE EF	03	06 00	97 D7	01 00	05 30	0E 00
		TÜRKÇE	BE EF	03	06 00	07 D6	01 00	05 30	0F 00
	Get		BE EF	03	06 00	C4 D3	02 00	05 30	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
My Screen Lock	Set	OFF	BE EF	03	06 00	3B EF	01 00	C0 30	00 00
		ON	BE EF	03	06 00	AB EE	01 00	C0 30	01 00
	Get		BE EF	03	06 00	08 EF	02 00	C0 30	00 00
MESSAGE	Set	OFF	BE EF	03	06 00	8F D6	01 00	17 30	00 00
		ON	BE EF	03	06 00	1F D7	01 00	17 30	01 00
		HIDE	BE EF	03	06 00	EF D7	01 00	17 30	02 00
	Get		BE EF	03	06 00	BC D6	02 00	17 30	00 00
TEMPLATE	Set	TEST PATTERN	BE EF	03	06 00	43 D9	01 00	22 30	00 00
		DOT-LINE 1	BE EF	03	06 00	D3 D8	01 00	22 30	01 00
		DOT-LINE 2	BE EF	03	06 00	23 D8	01 00	22 30	02 00
		DOT-LINE 3	BE EF	03	06 00	B3 D9	01 00	22 30	03 00
		DOT-LINE 4	BE EF	03	06 00	83 DB	01 00	22 30	04 00
		CIRCLE 1	BE EF	03	06 00	13 DA	01 00	22 30	05 00
		CIRCLE 2	BE EF	03	06 00	E3 DA	01 00	22 30	06 00
		MAP 1	BE EF	03	06 00	83 D4	01 00	22 30	10 00
		MAP 2	BE EF	03	06 00	13 D5	01 00	22 30	11 00
		STACK	BE EF	03	06 00	83 C0	01 00	22 30	20 00
	Get		BE EF	03	06 00	70 D9	02 00	22 30	00 00
TEMPLATE On/Off	Set	OFF	BE EF	03	06 00	BF D8	01 00	23 30	00 00
		ON	BE EF	03	06 00	2F D9	01 00	23 30	01 00
	Get		BE EF	03	06 00	8C D8	02 00	23 30	00 00
Closed Caption C. C. - DISPLAY	Set	OFF	BE EF	03	06 00	FA 62	01 00	00 37	00 00
		ON	BE EF	03	06 00	6A 63	01 00	00 37	01 00
		AUTO	BE EF	03	06 00	9A 63	01 00	00 37	02 00
	Get		BE EF	03	06 00	C9 62	02 00	00 37	00 00
Closed Caption C. C. - MODE	Set	CAPTIONS	BE EF	03	06 00	06 63	01 00	01 37	00 00
		TEXT	BE EF	03	06 00	96 62	01 00	01 37	01 00
	Get		BE EF	03	06 00	35 63	02 00	01 37	00 00
Closed Caption C. C. - CHANNEL	Set	1	BE EF	03	06 00	D2 62	01 00	02 37	01 00
		2	BE EF	03	06 00	22 62	01 00	02 37	02 00
		3	BE EF	03	06 00	B2 63	01 00	02 37	03 00
		4	BE EF	03	06 00	82 61	01 00	02 37	04 00
	Get		BE EF	03	06 00	71 63	02 00	02 37	00 00
SOURCE SKIP - COMPUTER IN	Set	NORMAL	BE EF	03	06 00	FE 78	01 00	20 22	00 00
		SKIP	BE EF	03	06 00	6E 79	01 00	20 22	01 00
	Get		BE EF	03	06 00	CD 78	02 00	20 22	00 00
SOURCE SKIP - LAN	Set	NORMAL	BE EF	03	06 00	DA 7A	01 00	2B 22	00 00
		SKIP	BE EF	03	06 00	4A 7B	01 00	2B 22	01 00
	Get		BE EF	03	06 00	E9 7A	02 00	2B 22	00 00
SOURCE SKIP - HDMI 1	Set	NORMAL	BE EF	03	06 00	BA 78	01 00	23 22	00 00
		SKIP	BE EF	03	06 00	2A 79	01 00	23 22	01 00
	Get		BE EF	03	06 00	89 78	02 00	23 22	00 00
SOURCE SKIP - HDMI 2	Set	NORMAL	BE EF	03	06 00	52 7A	01 00	2D 22	00 00
		SKIP	BE EF	03	06 00	C2 7B	01 00	2D 22	01 00
	Get		BE EF	03	06 00	61 7A	02 00	2D 22	00 00
SOURCE SKIP - HDBaseT	Set	NORMAL	BE EF	03	06 00	B6 EA	01 00	D6 20	00 00
		SKIP	BE EF	03	06 00	26 EB	01 00	D6 20	01 00
	Get		BE EF	03	06 00	85 EA	02 00	D6 20	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
SOURCE SKIP - VIDEO	Set	NORMAL	BE EF	03	06 00	02 79	01 00	21 22	00 00
		SKIP	BE EF	03	06 00	92 78	01 00	21 22	01 00
	Get		BE EF	03	06 00	31 79	02 00	21 22	00 00
SOURCE SKIP SDI*	Set	NORMAL	BE EF	03	06 00	B6 E5	01 00	E6 20	00 00
		SKIP	BE EF	03	06 00	26 E4	01 00	E6 20	01 00
	Get		BE EF	03	06 00	85 E5	02 00	E6 20	00 00
SOURCE SKIP DisplayPort	Set	NORMAL	BE EF	03	06 00	76 E1	01 00	F6 20	00 00
		SKIP	BE EF	03	06 00	E6 E0	01 00	F6 20	01 00
	Get		BE EF	03	06 00	45 E1	02 00	F6 20	00 00
AUTO SEARCH	Set	OFF	BE EF	03	06 00	B6 D6	01 00	16 20	00 00
		ON	BE EF	03	06 00	26 D7	01 00	16 20	01 00
	Get		BE EF	03	06 00	85 D6	02 00	16 20	00 00
DIRECT POWER ON	Set	OFF	BE EF	03	06 00	3B 89	01 00	20 31	00 00
		ON	BE EF	03	06 00	AB 88	01 00	20 31	01 00
	Get		BE EF	03	06 00	08 89	02 00	20 31	00 00
AUTO POWER OFF	Get		BE EF	03	06 00	08 86	02 00	10 31	00 00
	Increment		BE EF	03	06 00	6E 86	04 00	10 31	00 00
	Decrement		BE EF	03	06 00	BF 87	05 00	10 31	00 00
SHUTTER TIMER	Set	1h	BE EF	03	06 00	27 92	01 00	06 24	01 00
		3h	BE EF	03	06 00	47 93	01 00	06 24	03 00
		6h	BE EF	03	06 00	17 90	01 00	06 24	06 00
	Get		BE EF	03	06 00	84 93	02 00	06 24	00 00
LAMP TIME Lower Bytes	Get		BE EF	03	06 00	C2 FF	02 00	90 10	00 00
LAMP TIME Higher Bytes	Get		BE EF	03	06 00	2A FD	02 00	9E 10	00 00
LAMP TIME Reset	Execute		BE EF	03	06 00	58 DC	06 00	30 70	00 00
FILTER TIME Lower Bytes	Get		BE EF	03	06 00	C2 F0	02 00	A0 10	00 00
FILTER TIME Higher Bytes	Get		BE EF	03	06 00	D6 FC	02 00	9F 10	00 00
FILTER TIME Reset	Execute		BE EF	03	06 00	98 C6	06 00	40 70	00 00

* Supported only for LWU701i

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				CRC	Command Data		
							Action	Type	Setting code
MY BUTTON-1	MY IMAGE	BE EF	03	06 00		5A 3D	01 00	00 36	16 00
	MESSENGER	BE EF	03	06 00		AA 29	01 00	00 36	25 00
	SHUTTER	BE EF	03	06 00		5A 26	01 00	00 36	32 00
	INFORMATION	BE EF	03	06 00		FA 3E	01 00	00 36	10 00
	MY MEMORY	BE EF	03	06 00		9A 3F	01 00	00 36	12 00
	DYNAMIC IRIS	BE EF	03	06 00		AA 3D	01 00	00 36	15 00
	PICTURE MODE	BE EF	03	06 00		0A 3E	01 00	00 36	13 00
	FILTER RESET	BE EF	03	06 00		3A 3C	01 00	00 36	14 00
	TEMPLATE	BE EF	03	06 00		CA 39	01 00	00 36	1B 00
	MUTE	BE EF	03	06 00		FA 20	01 00	00 36	38 00
	PbyP/PIP SWAP	BE EF	03	06 00		5A 38	01 00	00 36	1A 00
	PIP POSITION	BE EF	03	06 00		3A 22	01 00	00 36	3C 00
	BLANK	BE EF	03	06 00		FA 02	01 00	00 36	40 00
	RESOLUTION	BE EF	03	06 00		9A 3A	01 00	00 36	1E 00
	ECO MODE	BE EF	03	06 00		0A 25	01 00	00 36	37 00
	eClarity	BE EF	03	06 00		9A 21	01 00	00 36	3A 00
	HDCR	BE EF	03	06 00		5A 23	01 00	00 36	3E 00
	STATUS MONITOR	BE EF	03	06 00		0A 20	01 00	00 36	3B 00
	Get	BE EF	03	06 00		09 33	02 00	00 36	00 00
MY BUTTON-2	MY IMAGE	BE EF	03	06 00		A6 3C	01 00	01 36	16 00
	MESSENGER	BE EF	03	06 00		56 28	01 00	01 36	25 00
	SHUTTER	BE EF	03	06 00		A6 27	01 00	01 36	32 00
	INFORMATION	BE EF	03	06 00		06 3F	01 00	01 36	10 00
	MY MEMORY	BE EF	03	06 00		66 3E	01 00	01 36	12 00
	DYNAMIC IRIS	BE EF	03	06 00		56 3C	01 00	01 36	15 00
	PICTURE MODE	BE EF	03	06 00		F6 3F	01 00	01 36	13 00
	FILTER RESET	BE EF	03	06 00		C6 3D	01 00	01 36	14 00
	TEMPLATE	BE EF	03	06 00		36 38	01 00	01 36	1B 00
	MUTE	BE EF	03	06 00		06 21	01 00	01 36	38 00
	PbyP/PIP SWAP	BE EF	03	06 00		A6 39	01 00	01 36	1A 00
	PIP POSITION	BE EF	03	06 00		C6 23	01 00	01 36	3C 00
	BLANK	BE EF	03	06 00		06 03	01 00	01 36	40 00
	RESOLUTION	BE EF	03	06 00		66 3B	01 00	01 36	1E 00
	ECO MODE	BE EF	03	06 00		F6 24	01 00	01 36	37 00
	eClarity	BE EF	03	06 00		66 20	01 00	01 36	3A 00
	HDCR	BE EF	03	06 00		A6 22	01 00	01 36	3E 00
	STATUS MONITOR	BE EF	03	06 00		F6 21	01 00	01 36	3B 00
	Get	BE EF	03	06 00		F5 32	02 00	01 36	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type	Header				CRC	Command Data		
							Action	Type	Setting code
MY BUTTON-3	MY IMAGE	BE EF	03	06 00		E2 3C	01 00	02 36	16 00
	MESSENGER	BE EF	03	06 00		12 28	01 00	02 36	25 00
	SHUTTER	BE EF	03	06 00		E2 27	01 00	02 36	32 00
	INFORMATION	BE EF	03	06 00		42 3F	01 00	02 36	10 00
	MY MEMORY	BE EF	03	06 00		22 3E	01 00	02 36	12 00
	DYNAMIC IRIS	BE EF	03	06 00		12 3C	01 00	02 36	15 00
	PICTURE MODE	BE EF	03	06 00		B2 3F	01 00	02 36	13 00
	FILTER RESET	BE EF	03	06 00		82 3D	01 00	02 36	14 00
	TEMPLATE	BE EF	03	06 00		72 38	01 00	02 36	1B 00
	MUTE	BE EF	03	06 00		42 21	01 00	02 36	38 00
	PbyP/PIP SWAP	BE EF	03	06 00		E2 39	01 00	02 36	1A 00
	PIP POSITION	BE EF	03	06 00		82 23	01 00	02 36	3C 00
	BLANK	BE EF	03	06 00		42 03	01 00	02 36	40 00
	RESOLUTION	BE EF	03	06 00		22 3B	01 00	02 36	1E 00
	ECO MODE	BE EF	03	06 00		B2 24	01 00	02 36	37 00
	eClarity	BE EF	03	06 00		22 20	01 00	02 36	3A 00
	HDCR	BE EF	03	06 00		E2 22	01 00	02 36	3E 00
	STATUS MONITOR	BE EF	03	06 00		B2 21	01 00	02 36	3B 00
	Get	BE EF	03	06 00		B1 32	02 00	02 36	00 00
MY BUTTON-4	MY IMAGE	BE EF	03	06 00		1E 3D	01 00	03 36	16 00
	MESSENGER	BE EF	03	06 00		EE 29	01 00	03 36	25 00
	SHUTTER	BE EF	03	06 00		1E 26	01 00	03 36	32 00
	INFORMATION	BE EF	03	06 00		BE 3E	01 00	03 36	10 00
	MY MEMORY	BE EF	03	06 00		DE 3F	01 00	03 36	12 00
	DYNAMIC IRIS	BE EF	03	06 00		EE 3D	01 00	03 36	15 00
	PICTURE MODE	BE EF	03	06 00		4E 3E	01 00	03 36	13 00
	FILTER RESET	BE EF	03	06 00		7E 3C	01 00	03 36	14 00
	TEMPLATE	BE EF	03	06 00		8E 39	01 00	03 36	1B 00
	MUTE	BE EF	03	06 00		BE 20	01 00	03 36	38 00
	PbyP/PIP SWAP	BE EF	03	06 00		1E 38	01 00	03 36	1A 00
	PIP POSITION	BE EF	03	06 00		7E 22	01 00	03 36	3C 00
	BLANK	BE EF	03	06 00		BE 02	01 00	03 36	40 00
	RESOLUTION	BE EF	03	06 00		DE 3A	01 00	03 36	1E 00
	ECO MODE	BE EF	03	06 00		4E 25	01 00	03 36	37 00
	eClarity	BE EF	03	06 00		DE 21	01 00	03 36	3A 00
	HDCR	BE EF	03	06 00		1E 23	01 00	03 36	3E 00
	STATUS MONITOR	BE EF	03	06 00		4E 20	01 00	03 36	3B 00
	Get	BE EF	03	06 00		4D 33	02 00	03 36	00 00

RS-232C Communication / Network command table (continued)

Names	Operation Type		Header			CRC	Command Data		
							Action	Type	Setting code
REMOTE RECEIV. FRONT	Set	Off	BE EF	03	06 00	FF 32	01 00	00 26	00 00
		On	BE EF	03	06 00	6F 33	01 00	00 26	01 00
	Get		BE EF	03	06 00	CC 32	02 00	00 26	00 00
REMOTE RECEIV. REAR	Set	Off	BE EF	03	06 00	03 33	01 00	01 26	00 00
		On	BE EF	03	06 00	93 32	01 00	01 26	01 00
	Get		BE EF	03	06 00	30 33	02 00	01 26	00 00
REMOTE RECEIV.HDBaseT	Set	Off	BE EF	03	06 00	BB 32	01 00	03 26	00 00
		On	BE EF	03	06 00	2B 33	01 00	03 26	01 00
	Get		BE EF	03	06 00	88 32	02 00	03 26	00 00
REMOTE FREQ. NORMAL	Set	OFF	BE EF	03	06 00	FF 3D	01 00	30 26	00 00
		ON	BE EF	03	06 00	6F 3C	01 00	30 26	01 00
	Get		BE EF	03	06 00	CC 3D	02 00	30 26	00 00
REMOTE FREQ. HIGH	Set	OFF	BE EF	03	06 00	03 3C	01 00	31 26	00 00
		ON	BE EF	03	06 00	93 3D	01 00	31 26	01 00
	Get		BE EF	03	06 00	30 3C	02 00	31 26	00 00
REMOTE ID	Set	ALL	BE EF	03	06 00	9F 30	01 00	08 26	00 00
		1	BE EF	03	06 00	0F 31	01 00	08 26	01 00
		2	BE EF	03	06 00	FF 31	01 00	08 26	02 00
		3	BE EF	03	06 00	6F 30	01 00	08 26	03 00
		4	BE EF	03	06 00	5F 32	01 00	08 26	04 00
	Get		BE EF	03	06 00	AC 30	02 00	08 26	00 00
MY IMAGE	Set	OFF	BE EF	03	06 00	3A C3	01 00	00 35	00 00
		IMAGE-1	BE EF	03	06 00	AA C2	01 00	00 35	01 00
		IMAGE-2	BE EF	03	06 00	5A C2	01 00	00 35	02 00
		IMAGE-3	BE EF	03	06 00	CA C3	01 00	00 35	03 00
		IMAGE-4	BE EF	03	06 00	FA C1	01 00	00 35	04 00
	Get		BE EF	03	06 00	09 C3	02 00	00 35	00 00
MY IMAGE IMAGE-1 Delete	Execute		BE EF	03	06 00	71 C3	06 00	01 35	00 00
MY IMAGE IMAGE-2 Delete	Execute		BE EF	03	06 00	35 C3	06 00	02 35	00 00
MY IMAGE IMAGE-3 Delete	Execute		BE EF	03	06 00	C9 C2	06 00	03 35	00 00
MY IMAGE IMAGE-4 Delete	Execute		BE EF	03	06 00	BD C3	06 00	04 35	00 00
Advanced Color Adjustment HUE R	Get		BE EF	03	06 00	0C 63	02 00	00 27	00 00
	Increment		BE EF	03	06 00	6A 63	04 00	00 27	00 00
	Decrement		BE EF	03	06 00	BB 62	05 00	00 27	00 00
Advanced Color Adjustment HUE R Reset	Execute		BE EF	03	06 00	98 EB	06 00	D0 70	00 00
Advanced Color Adjustment HUE Y	Get		BE EF	03	06 00	F0 62	02 00	01 27	00 00
	Increment		BE EF	03	06 00	96 62	04 00	01 27	00 00
	Decrement		BE EF	03	06 00	47 63	05 00	01 27	00 00
Advanced Color Adjustment HUE Y Reset	Execute		BE EF	03	06 00	64 EA	06 00	D1 70	00 00

RS-232C Communication / Network command table (continued)

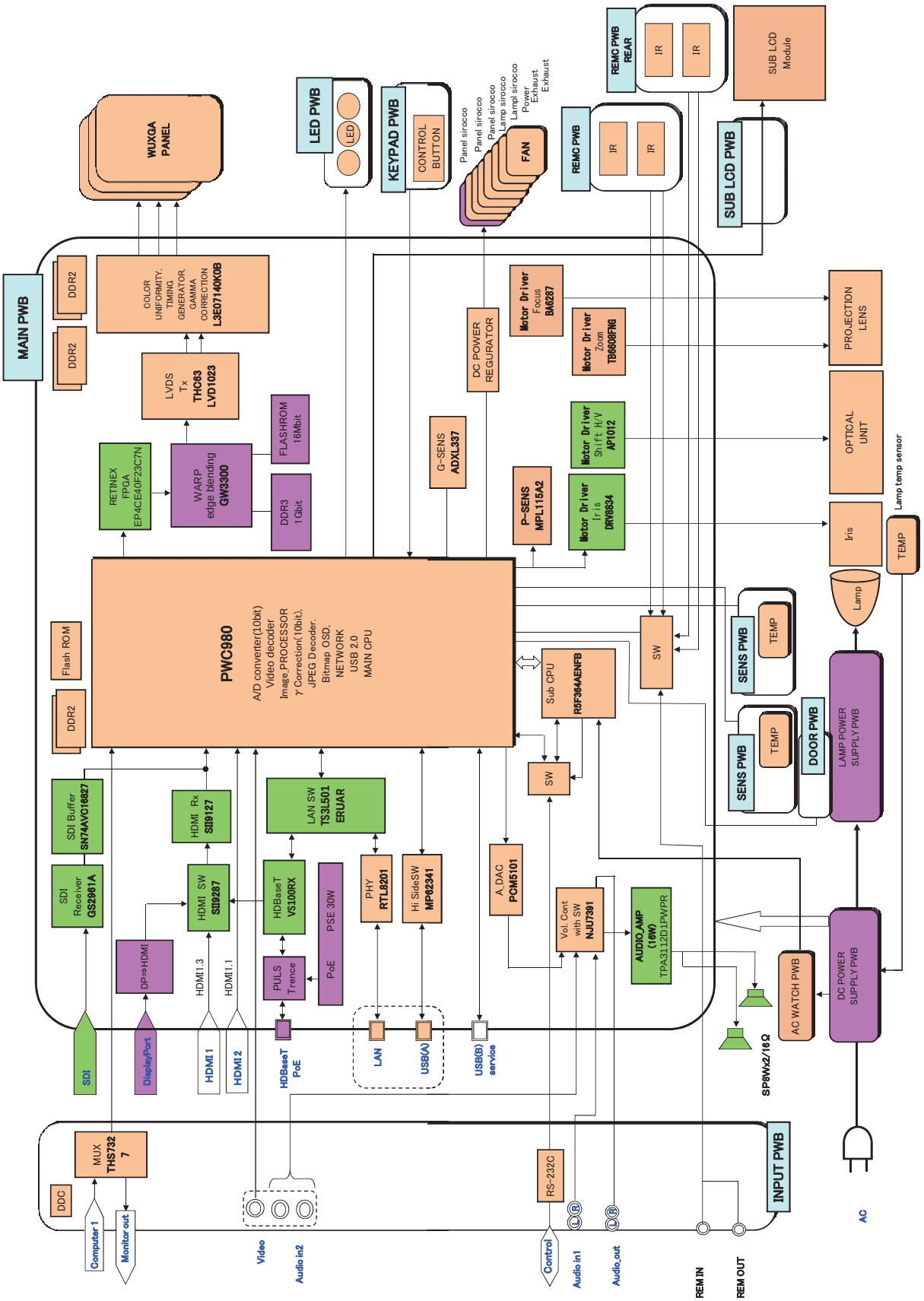
Names	Operation Type	Header			CRC	Command Data		
						Action	Type	Setting code
Advanced Color Adjustment HUE G	Get	BE EF	03	06 00	B4 62	02 00	02 27	00 00
	Increment	BE EF	03	06 00	D2 62	04 00	02 27	00 00
	Decrement	BE EF	03	06 00	03 63	05 00	02 27	00 00
Advanced Color Adjustment HUE G Reset	Execute	BE EF	03	06 00	20 EA	06 00	D2 70	00 00
Advanced Color Adjustment HUE C	Get	BE EF	03	06 00	48 63	02 00	03 27	00 00
	Increment	BE EF	03	06 00	2E 63	04 00	03 27	00 00
	Decrement	BE EF	03	06 00	FF 62	05 00	03 27	00 00
Advanced Color Adjustment HUE C Reset	Execute	BE EF	03	06 00	DC EB	06 00	D3 70	00 00
Advanced Color Adjustment HUE B	Get	BE EF	03	06 00	3C 62	02 00	04 27	00 00
	Increment	BE EF	03	06 00	5A 62	04 00	04 27	00 00
	Decrement	BE EF	03	06 00	8B 63	05 00	04 27	00 00
Advanced Color Adjustment HUE B Reset	Execute	BE EF	03	06 00	A8 EA	06 00	D4 70	00 00
Advanced Color Adjustment HUE M	Get	BE EF	03	06 00	C0 63	02 00	05 27	00 00
	Increment	BE EF	03	06 00	A6 63	04 00	05 27	00 00
	Decrement	BE EF	03	06 00	77 62	05 00	05 27	00 00
Advanced Color Adjustment HUE M Reset	Execute	BE EF	03	06 00	54 EB	06 00	D5 70	00 00
Advanced Color Adjustment SATURATION R	Get	BE EF	03	06 00	CC 67	02 00	10 27	00 00
	Increment	BE EF	03	06 00	AA 67	04 00	10 27	00 00
	Decrement	BE EF	03	06 00	7B 66	05 00	10 27	00 00
Advanced Color Adjustment SATURATION R Reset	Execute	BE EF	03	06 00	F8 E9	06 00	D8 70	00 00
Advanced Color Adjustment SATURATION Y	Get	BE EF	03	06 00	30 66	02 00	11 27	00 00
	Increment	BE EF	03	06 00	56 66	04 00	11 27	00 00
	Decrement	BE EF	03	06 00	87 67	05 00	11 27	00 00
Advanced Color Adjustment SATURATION Y Reset	Execute	BE EF	03	06 00	04 E8	06 00	D9 70	00 00
Advanced Color Adjustment SATURATION G	Get	BE EF	03	06 00	74 66	02 00	12 27	00 00
	Increment	BE EF	03	06 00	12 66	04 00	12 27	00 00
	Decrement	BE EF	03	06 00	C3 67	05 00	12 27	00 00
Advanced Color Adjustment SATURATION G Reset	Execute	BE EF	03	06 00	40 E8	06 00	DA 70	00 00
Advanced Color Adjustment SATURATION C	Get	BE EF	03	06 00	88 67	02 00	13 27	00 00
	Increment	BE EF	03	06 00	EE 67	04 00	13 27	00 00
	Decrement	BE EF	03	06 00	3F 66	05 00	13 27	00 00
Advanced Color Adjustment SATURATION C Reset	Execute	BE EF	03	06 00	BC E9	06 00	DB 70	00 00

RS-232C Communication / Network command table (continued)

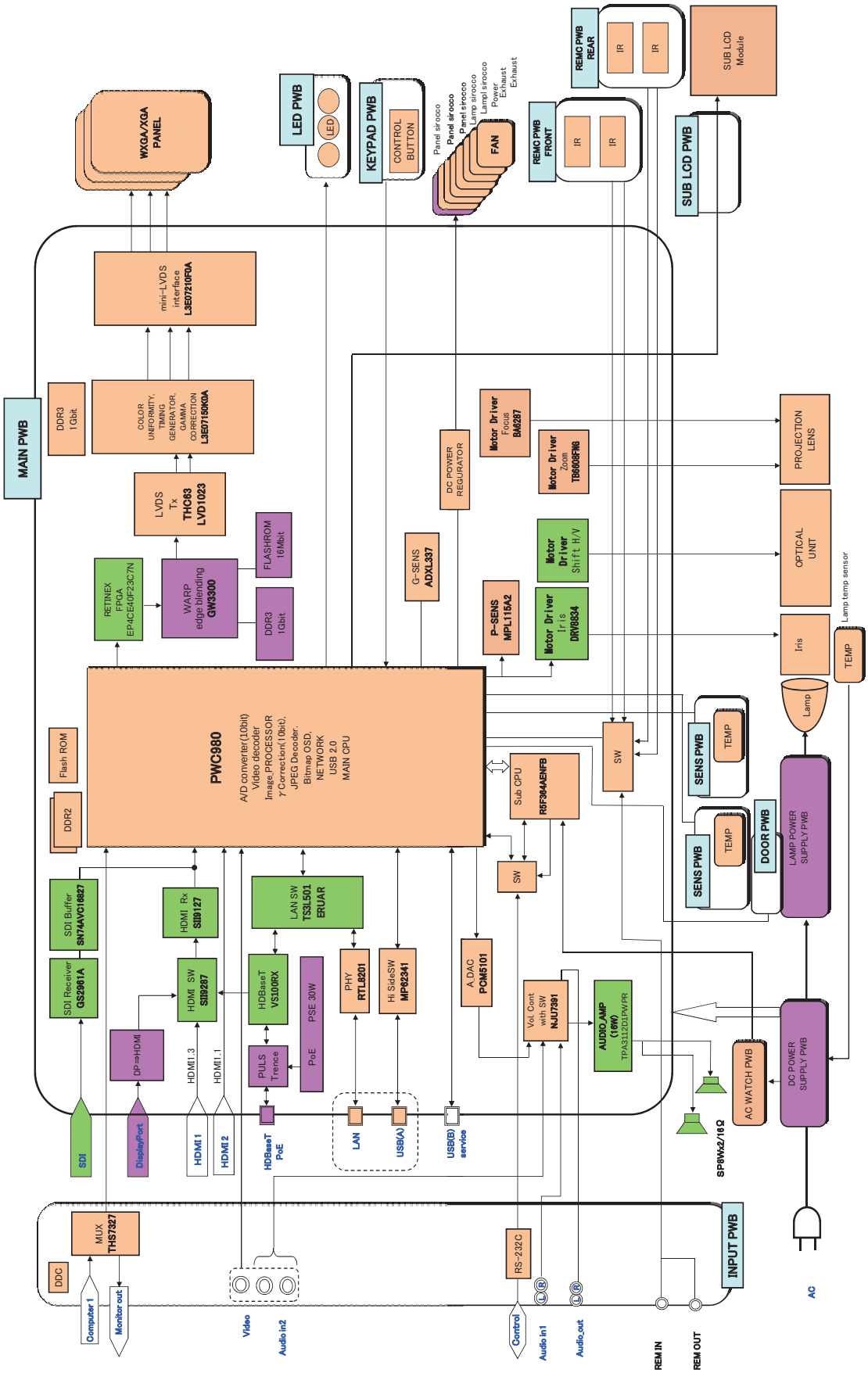
Names	Operation Type	Header				CRC	Command Data		
							Action	Type	Setting code
Advanced Color Adjustment SATURATION B	Get	BE EF	03	06 00		FC 66	02 00	14 27	00 00
	Increment	BE EF	03	06 00		9A 66	04 00	14 27	00 00
	Decrement	BE EF	03	06 00		4B 67	05 00	14 27	00 00
Advanced Color Adjustment SATURATION B Reset	Execute	BE EF	03	06 00		C8 E8	06 00	DC 70	00 00
Advanced Color Adjustment SATURATION M	Get	BE EF	03	06 00		00 67	02 00	15 27	00 00
	Increment	BE EF	03	06 00		66 67	04 00	15 27	00 00
	Decrement	BE EF	03	06 00		B7 66	05 00	15 27	00 00
Advanced Color Adjustment SATURATION M Reset	Execute	BE EF	03	06 00		34 E9	06 00	DD 70	00 00
Advanced Color Adjustment LUMINANCE R	Get	BE EF	03	06 00		CC 68	02 00	20 27	00 00
	Increment	BE EF	03	06 00		AA 68	04 00	20 27	00 00
	Decrement	BE EF	03	06 00		7B 69	05 00	20 27	00 00
Advanced Color Adjustment LUMINANCE R Reset	Execute	BE EF	03	06 00		98 E4	06 00	E0 70	00 00
Advanced Color Adjustment LUMINANCE Y	Get	BE EF	03	06 00		30 69	02 00	21 27	00 00
	Increment	BE EF	03	06 00		56 69	04 00	21 27	00 00
	Decrement	BE EF	03	06 00		87 68	05 00	21 27	00 00
Advanced Color Adjustment LUMINANCE Y Reset	Execute	BE EF	03	06 00		64 E5	06 00	E1 70	00 00
Advanced Color Adjustment LUMINANCE G	Get	BE EF	03	06 00		74 69	02 00	22 27	00 00
	Increment	BE EF	03	06 00		12 69	04 00	22 27	00 00
	Decrement	BE EF	03	06 00		C3 68	05 00	22 27	00 00
Advanced Color Adjustment LUMINANCE G Reset	Execute	BE EF	03	06 00		20 E5	06 00	E2 70	00 00
Advanced Color Adjustment LUMINANCE C	Get	BE EF	03	06 00		88 68	02 00	23 27	00 00
	Increment	BE EF	03	06 00		EE 68	04 00	23 27	00 00
	Decrement	BE EF	03	06 00		3F 69	05 00	23 27	00 00
Advanced Color Adjustment LUMINANCE C Reset	Execute	BE EF	03	06 00		DC E4	06 00	E3 70	00 00
Advanced Color Adjustment LUMINANCE B	Get	BE EF	03	06 00		FC 69	02 00	24 27	00 00
	Increment	BE EF	03	06 00		9A 69	04 00	24 27	00 00
	Decrement	BE EF	03	06 00		4B 68	05 00	24 27	00 00
Advanced Color Adjustment LUMINANCE B Reset	Execute	BE EF	03	06 00		A8 E5	06 00	E4 70	00 00
Advanced Color Adjustment LUMINANCE M	Get	BE EF	03	06 00		00 68	02 00	25 27	00 00
	Increment	BE EF	03	06 00		66 68	04 00	25 27	00 00
	Decrement	BE EF	03	06 00		B7 69	05 00	25 27	00 00
Advanced Color Adjustment LUMINANCE M Reset	Execute	BE EF	03	06 00		54 E4	06 00	E5 70	00 00

11. Block diagram

[LWU701i / LWU601i]

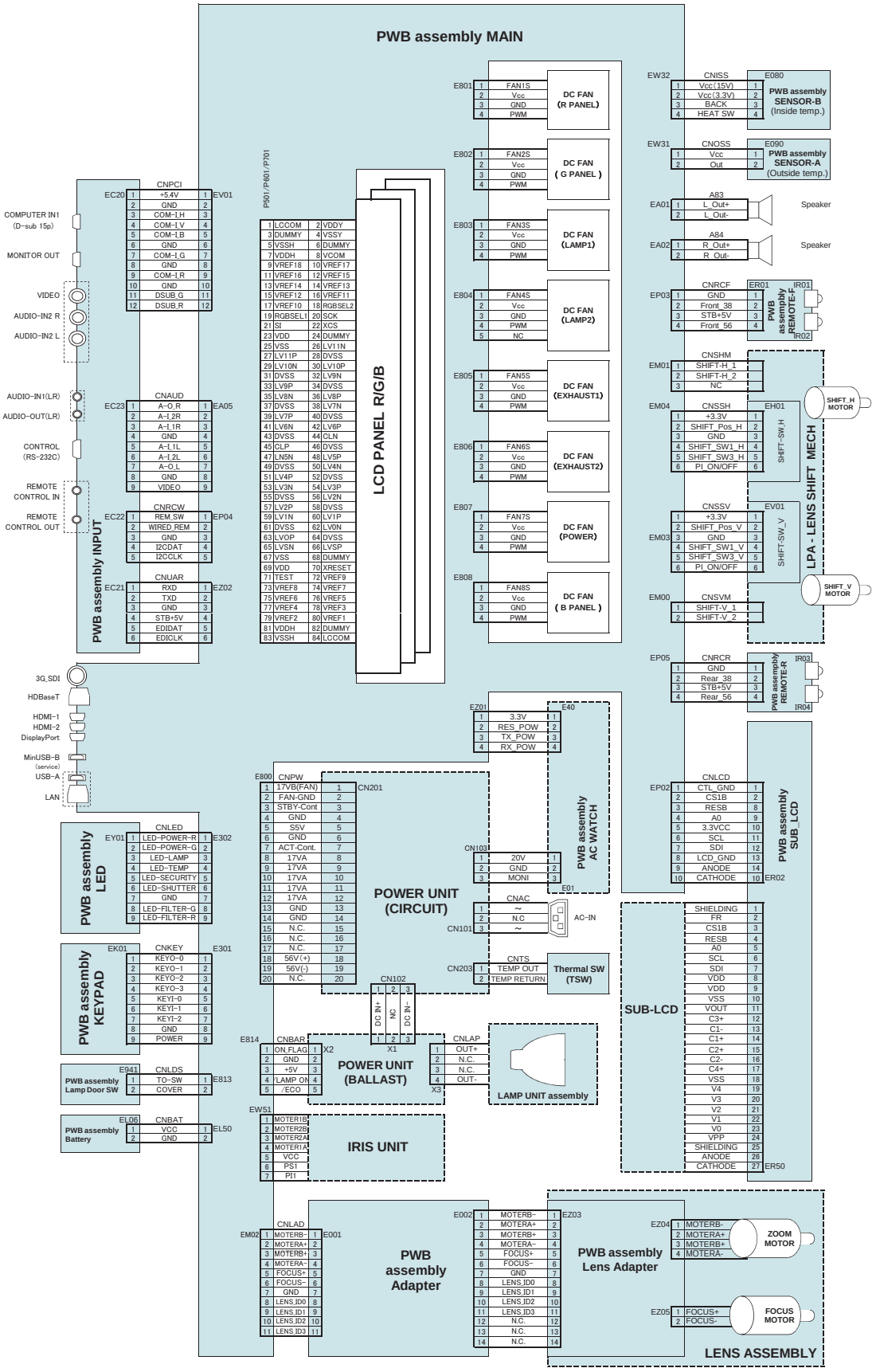


[LW751i / LW651i / LX801i]

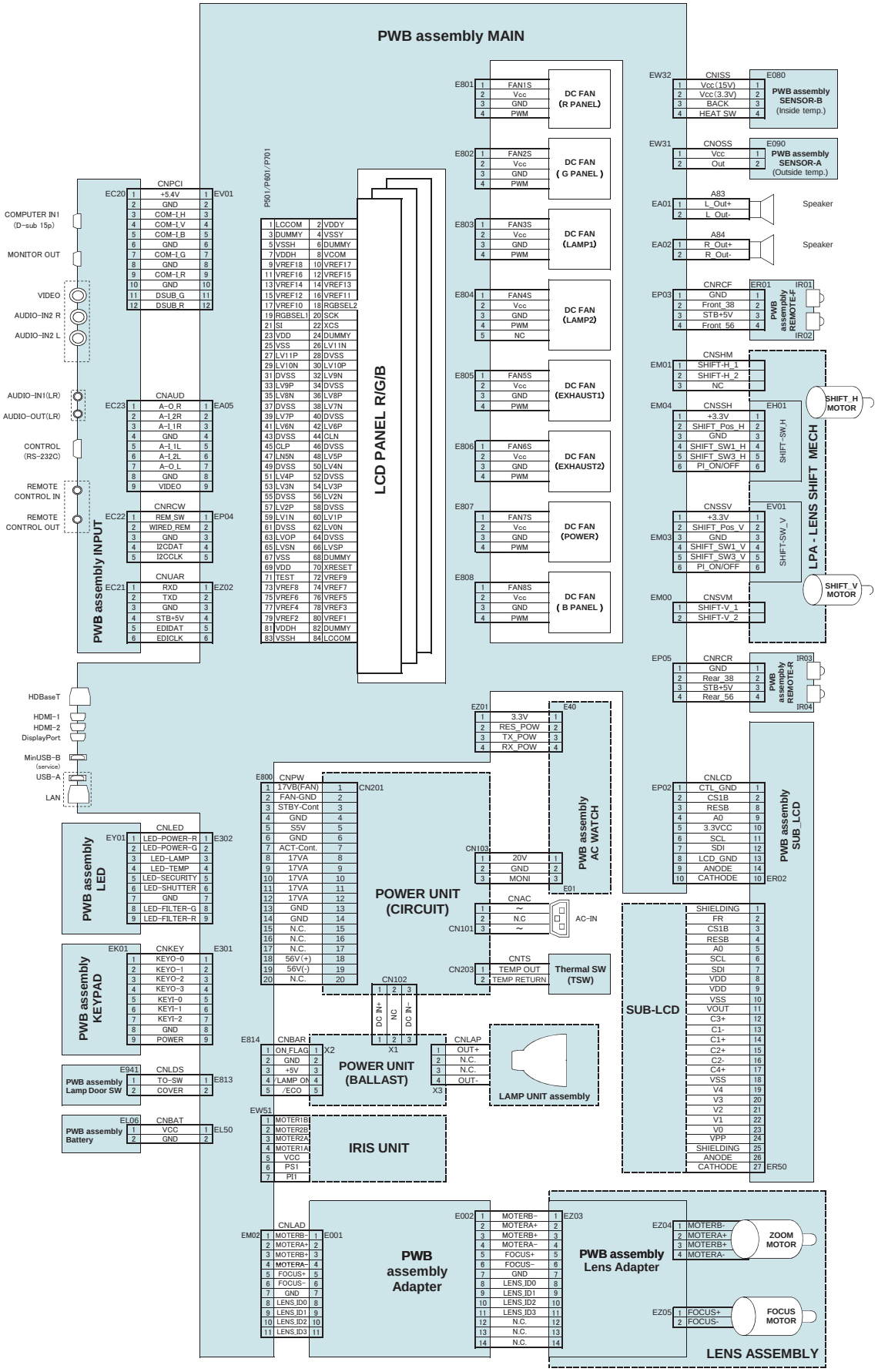


12. Connector connection diagram

[LWU701i]

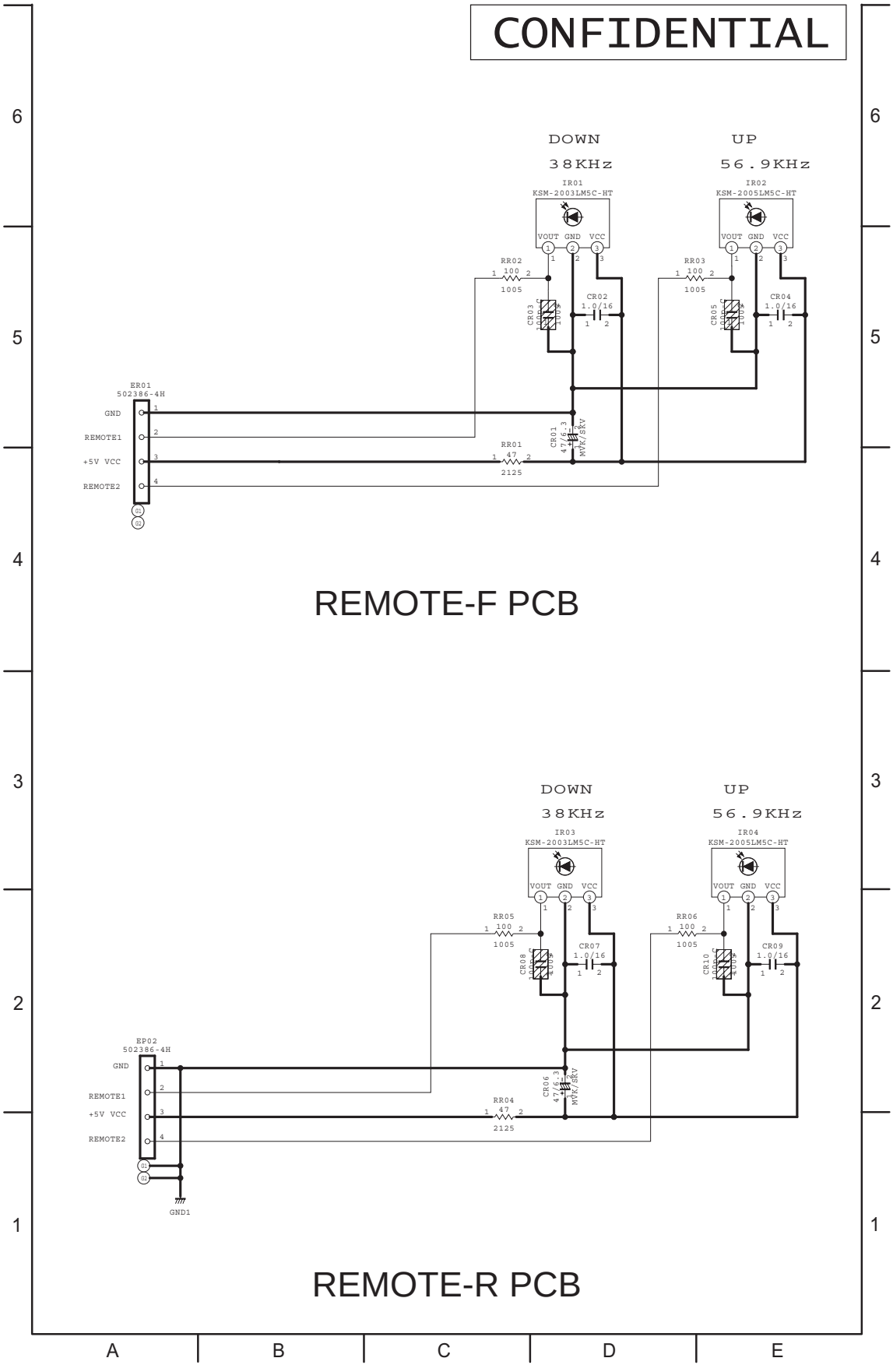


[LW601i / LW751i / LW651i / LX801i]

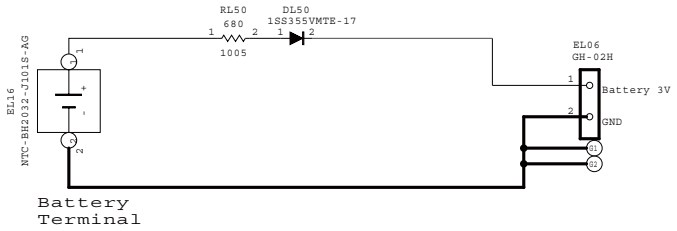


13. Basic circuit diagram

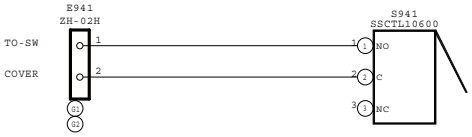
Parts with hatching are not mounted.



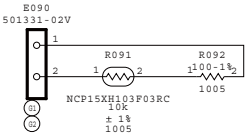
CONFIDENTIAL



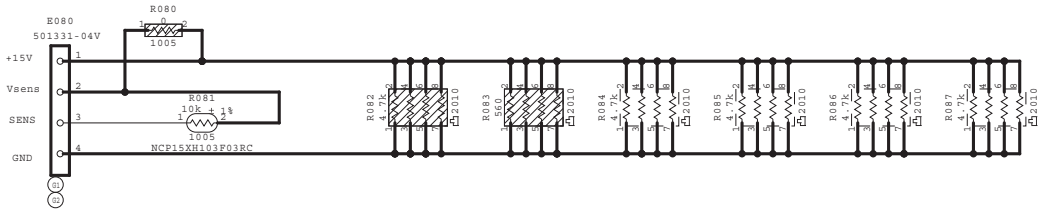
BATTERY PCB



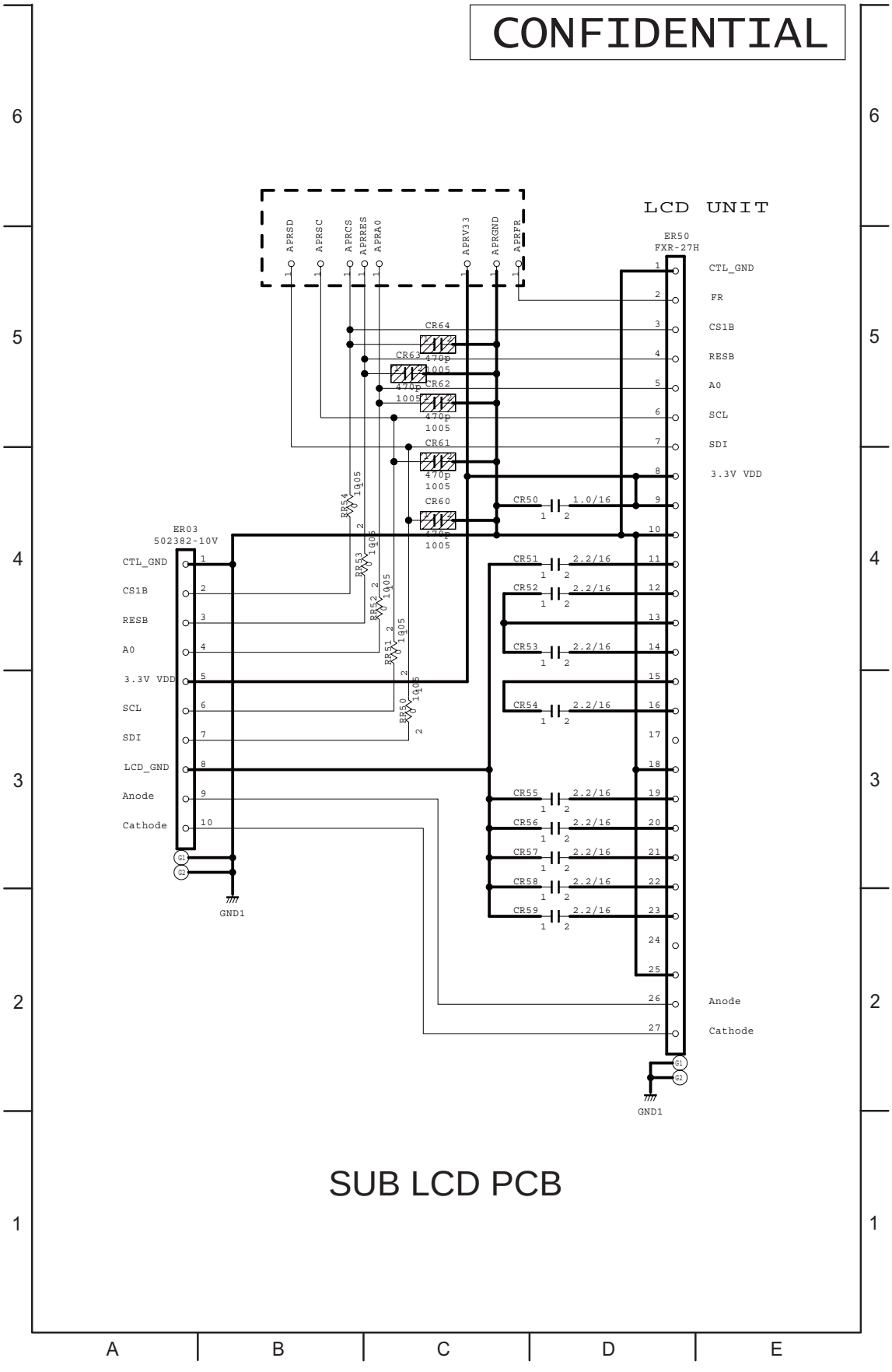
LAMP DOOR SW PCB

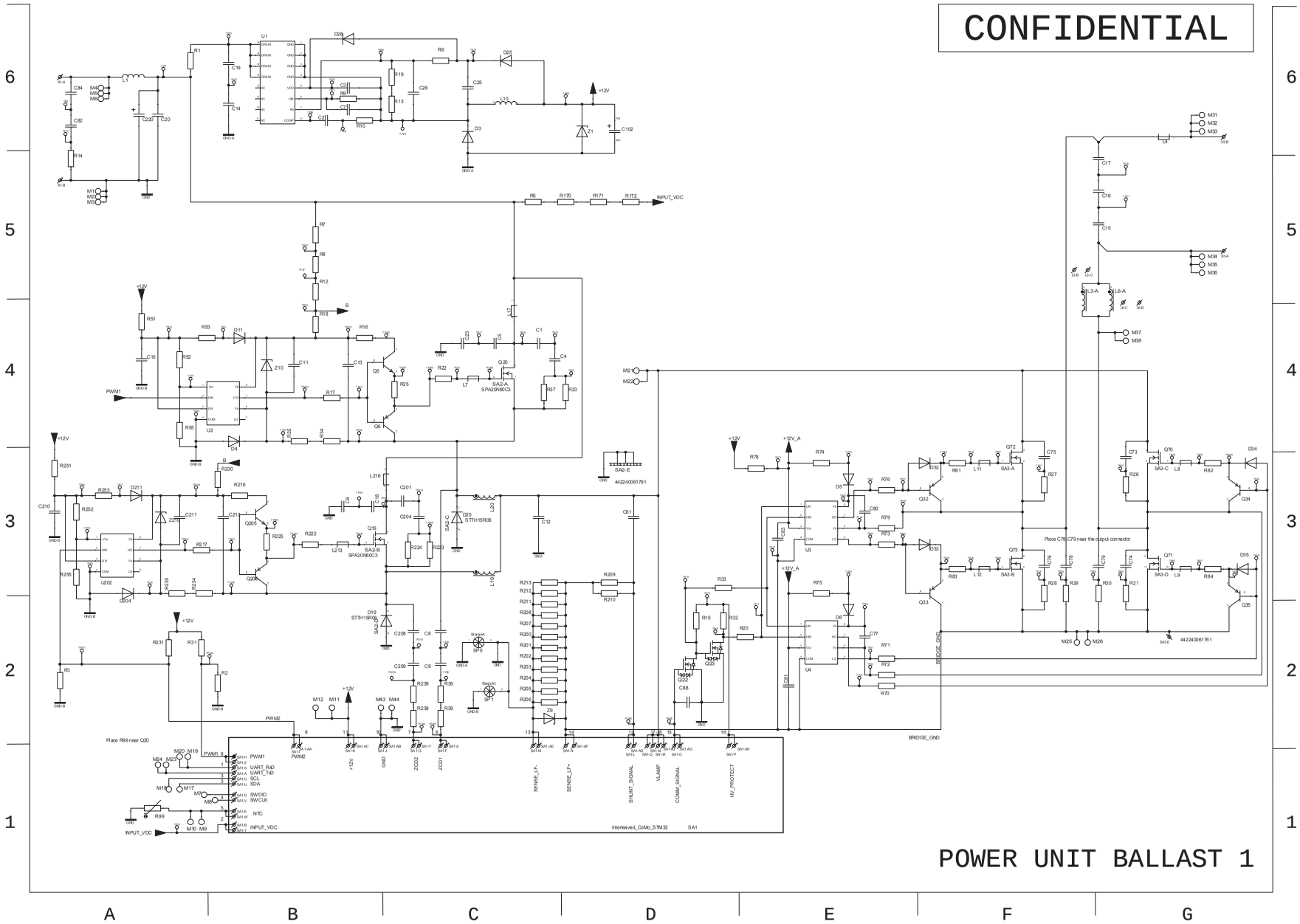


SENSOR-A PCB

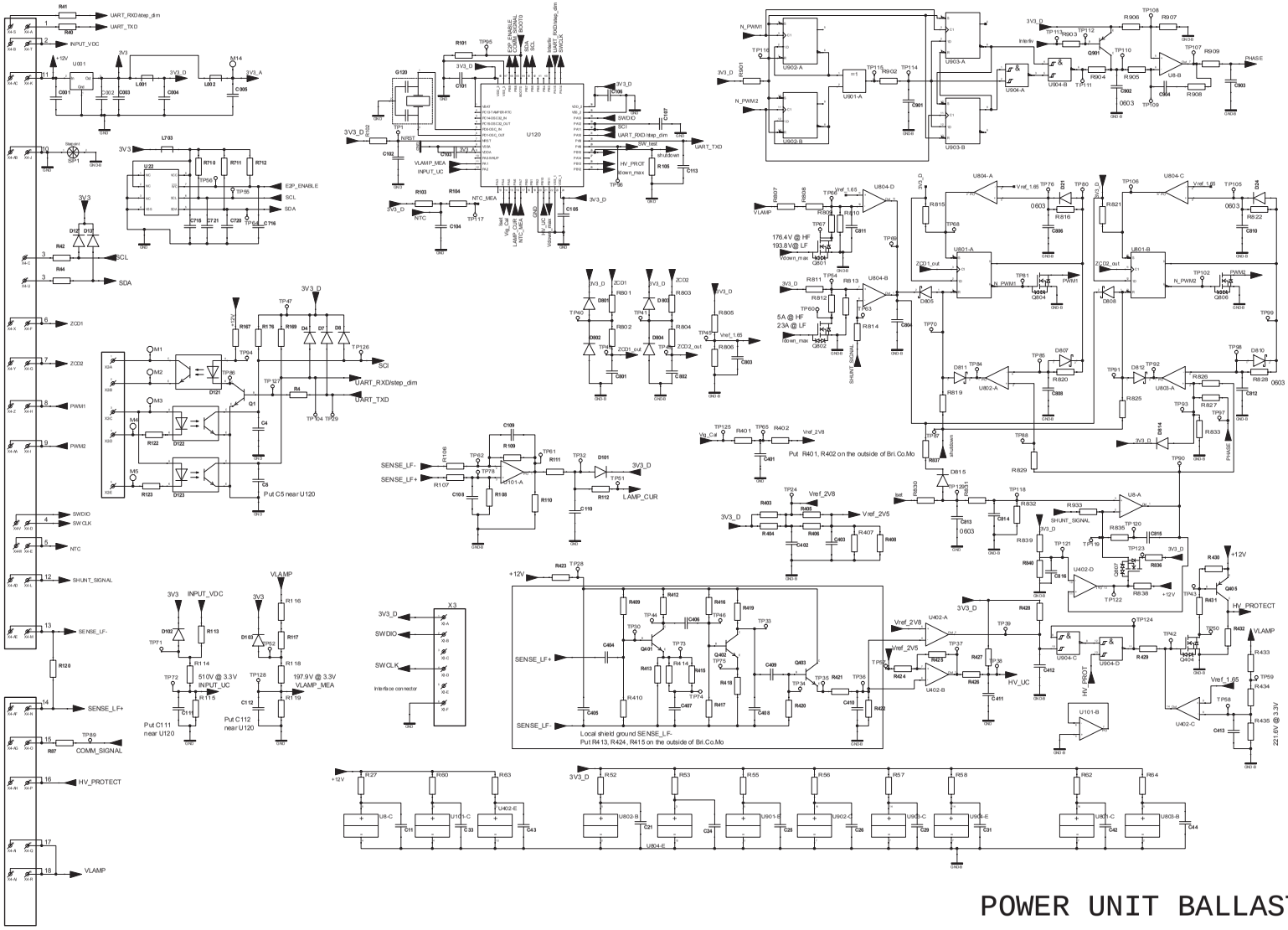


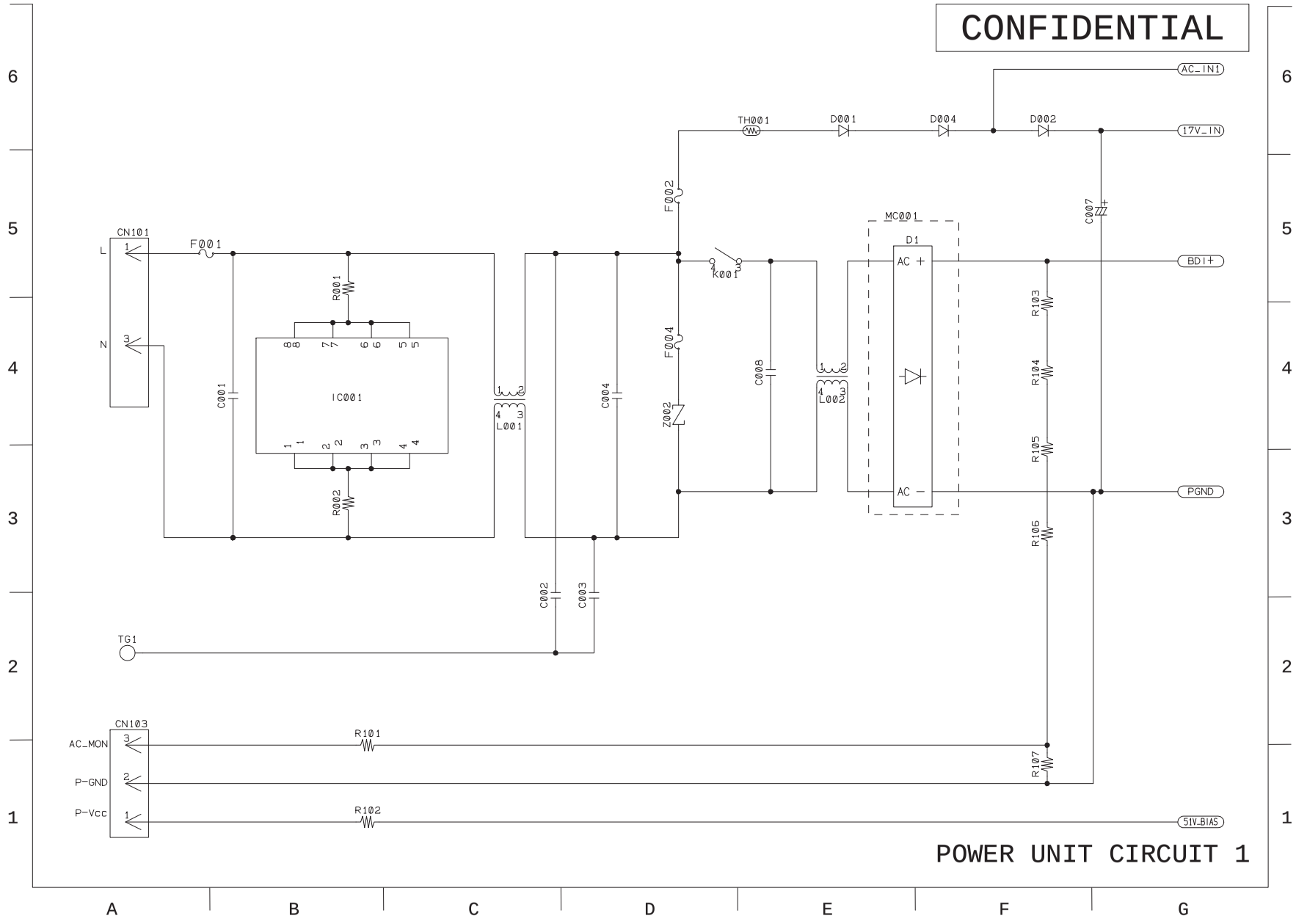
SENSOR-B PCB

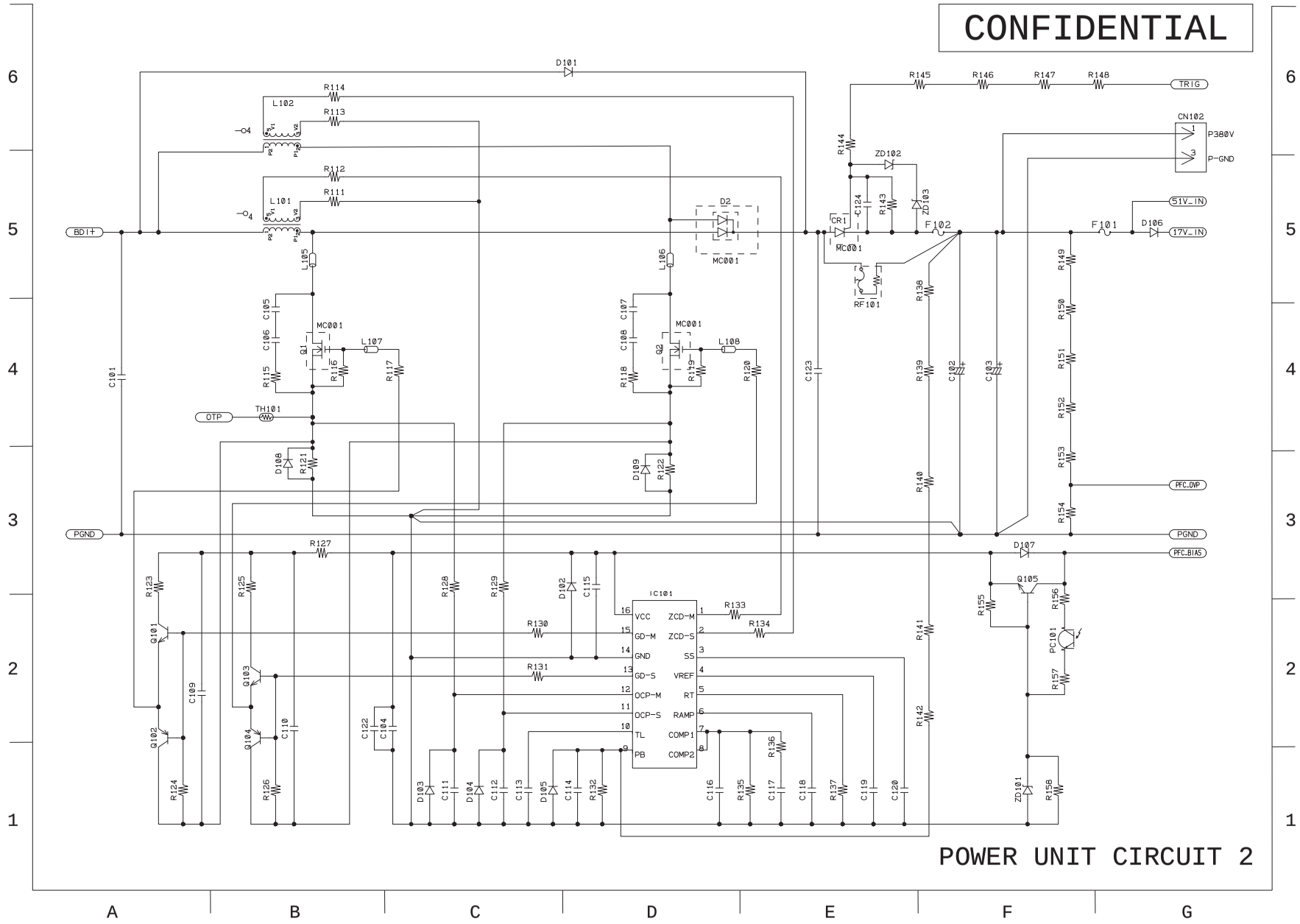

CONFIDENTIAL
LCD UNIT
APRSD
APRSC
APRCS
APRRES
APRA0
APRV33
APRGND
APRFR
ER50
FXR-27H
CTL_GND
FR
CS1B
RESB
A0
SCL
SDI
3.3V VDD
Anode
Cathode
CR64
CR63
CR62
CR61
CR60
470p
1005
CR50
1.0/16
CR51
CR52
CR53
CR54
CR55
CR56
CR57
CR58
CR59
2.2/16
RR54
RR53
RR52
RR51
RR50
0
1005
ER03
502382-10V
LCD_GND
GND1
SUB LCD PCB

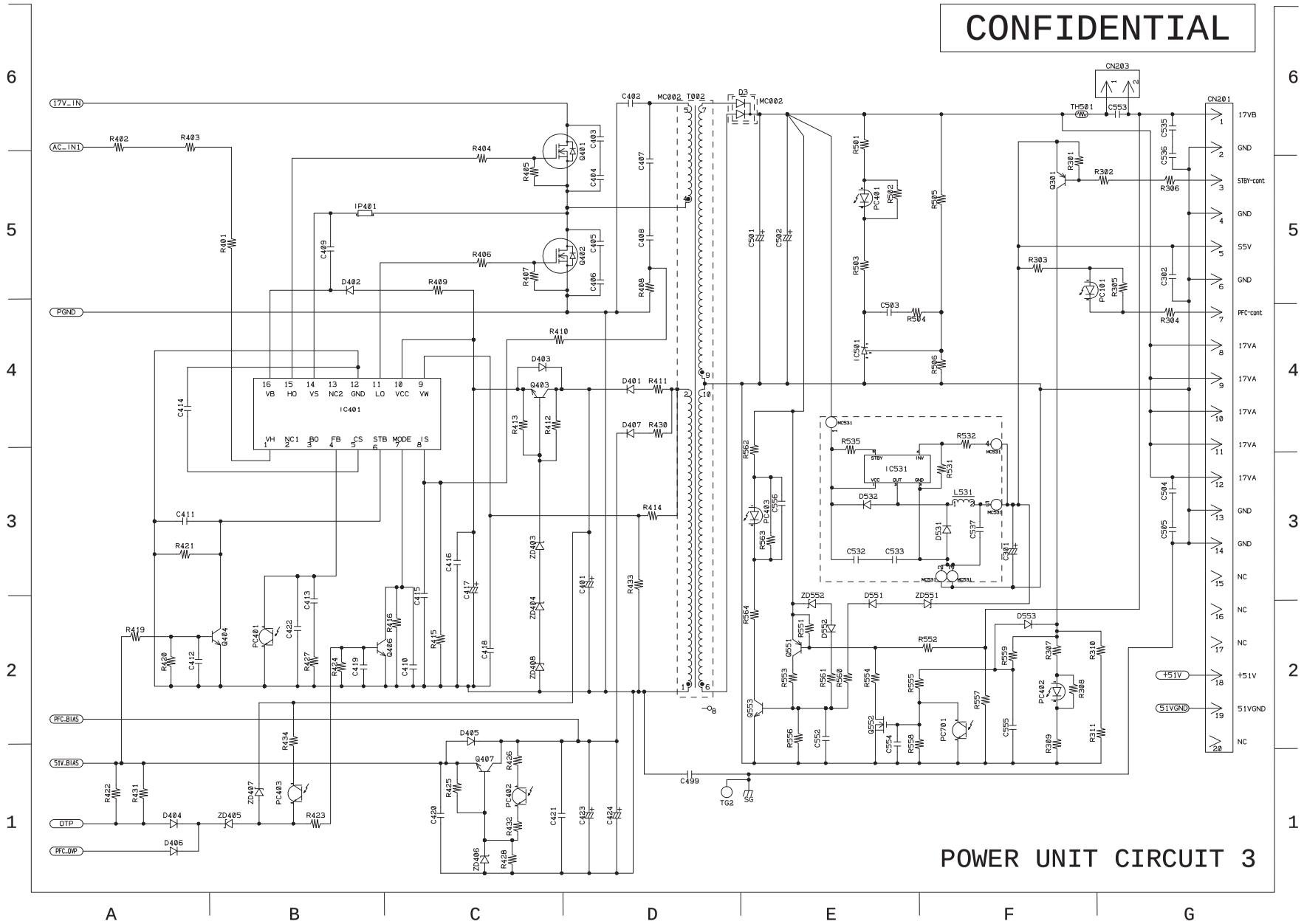

CONFIDENTIAL
POWER UNIT BALLAST 1
INPUT_VDC
PWM1
PWM2
+12V
+12V_A
BRIDGE_GND
SENSE_LF-
SENSE_LF+
SHUNT_SIGNAL
VLAMP
COMM_SIGNAL
HV_PROTECT
Interleaved_CoMo_STM32
Place R89 near Q20
Place C76,C79 near the output connector

CONFIDENTIAL

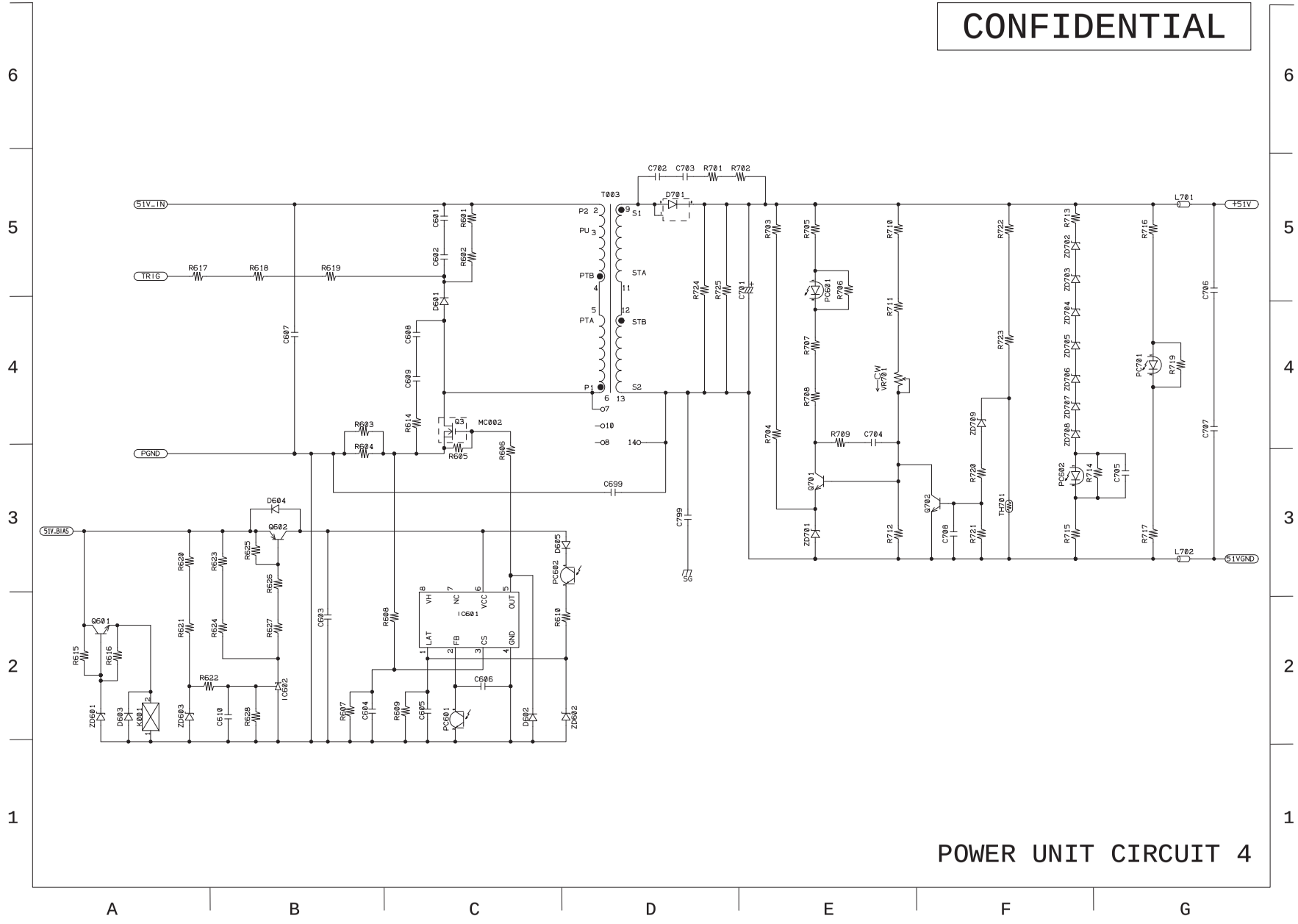



CONFIDENTIAL
AC_IN1
17V_IN
BD1+
PGND
51V_BIAS
CN101
L
N
F001
R001
R002
IC001
C001
C004
L001
TH001
D001
D004
D002
F002
F004
Z002
K001
C008
MC001
D1
AC +
AC −
L002
C007
R103
R104
R105
R106
R107
C002
C003
TG1
CN103
AC_MON
P-GND
P-Vcc
R101
R102
POWER UNIT CIRCUIT 1

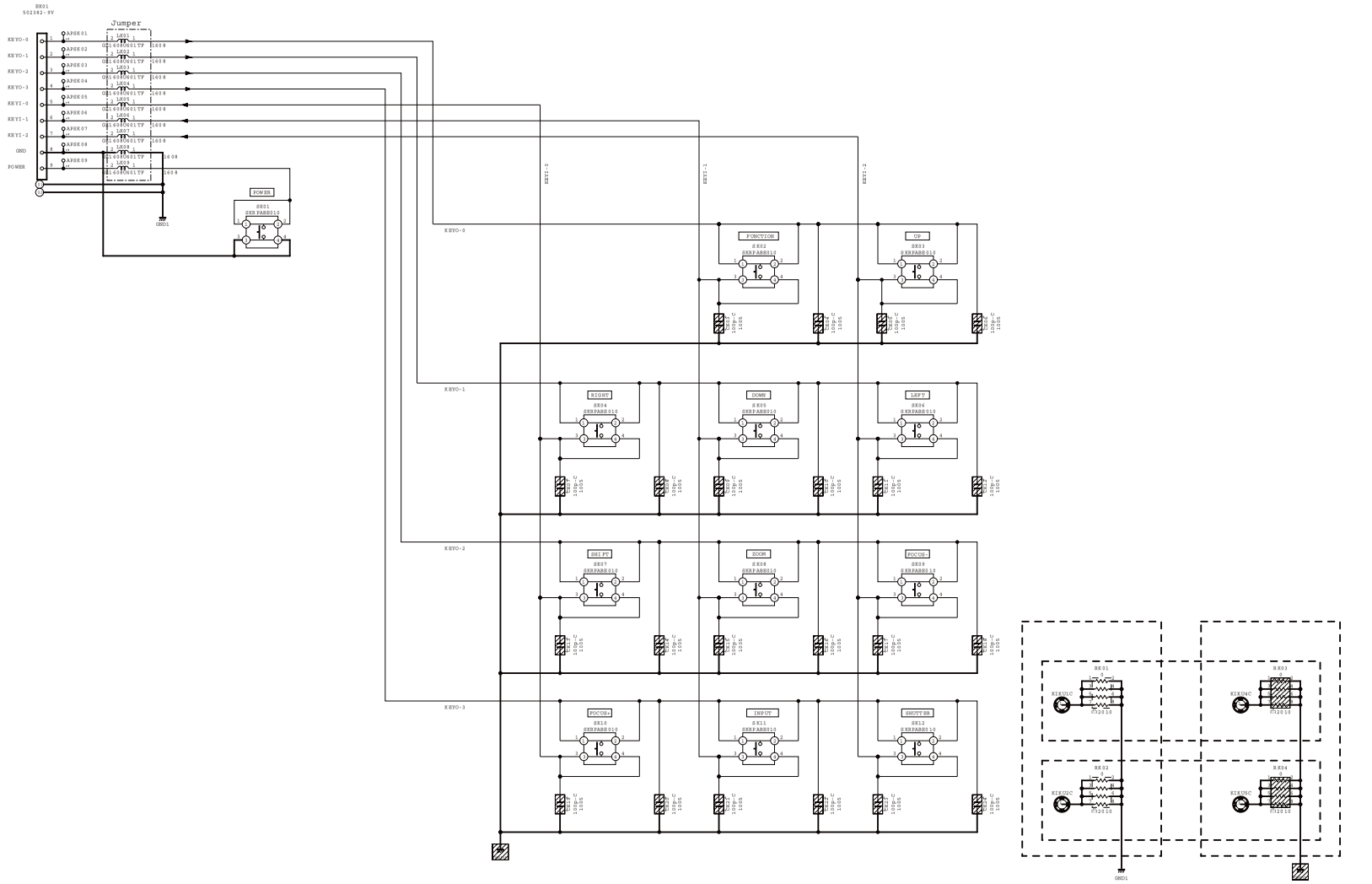

CONFIDENTIAL
POWER UNIT CIRCUIT 2
BD1+
PGND
OTP
TRIG
P380V
P-GND
51V_IN
17V_IN
PFC_OVP
PFC_BIAS
IC101
VCC
GD-M
GND
GD-S
OCP-M
OCP-S
TL
PB
ZCD-M
ZCD-S
SS
VREF
RT
RAMP
COMP1
COMP2

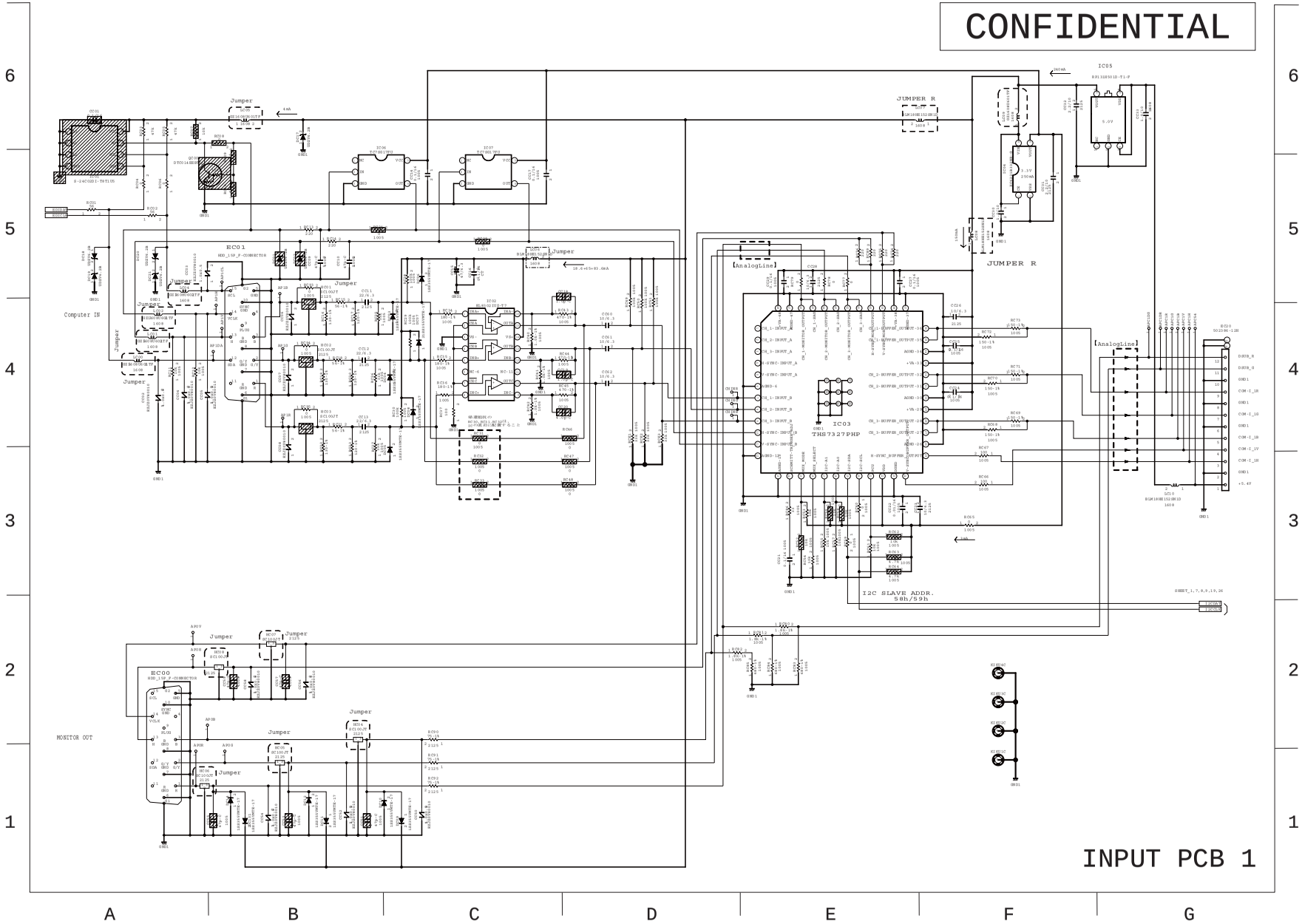

CONFIDENTIAL
POWER UNIT CIRCUIT 3
17V_IN
AC_IN1
PGND
PFC_BIAS
51V_BIAS
OTP
PFC_OVP
IC401
IC531
CN203
CN201
17VB
GND
STBY-cont
GND
5SV
GND
PFC-cont
17VA
17VA
17VA
17VA
17VA
GND
GND
NC
NC
NC
+51V
51VGND
NC
MC002
T002
D3
TH501
TG2
SG

CONFIDENTIAL

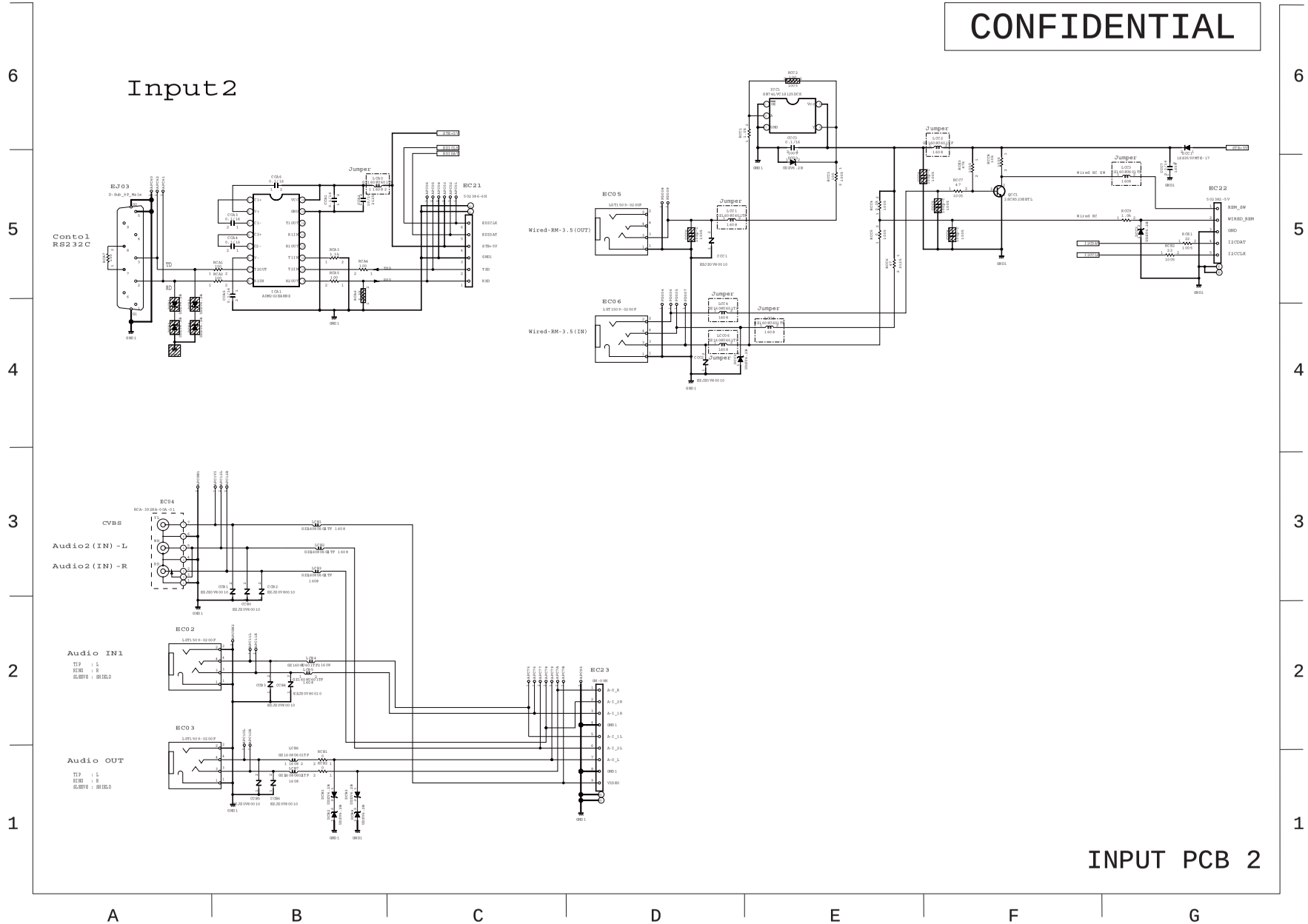


CONFIDENTIAL

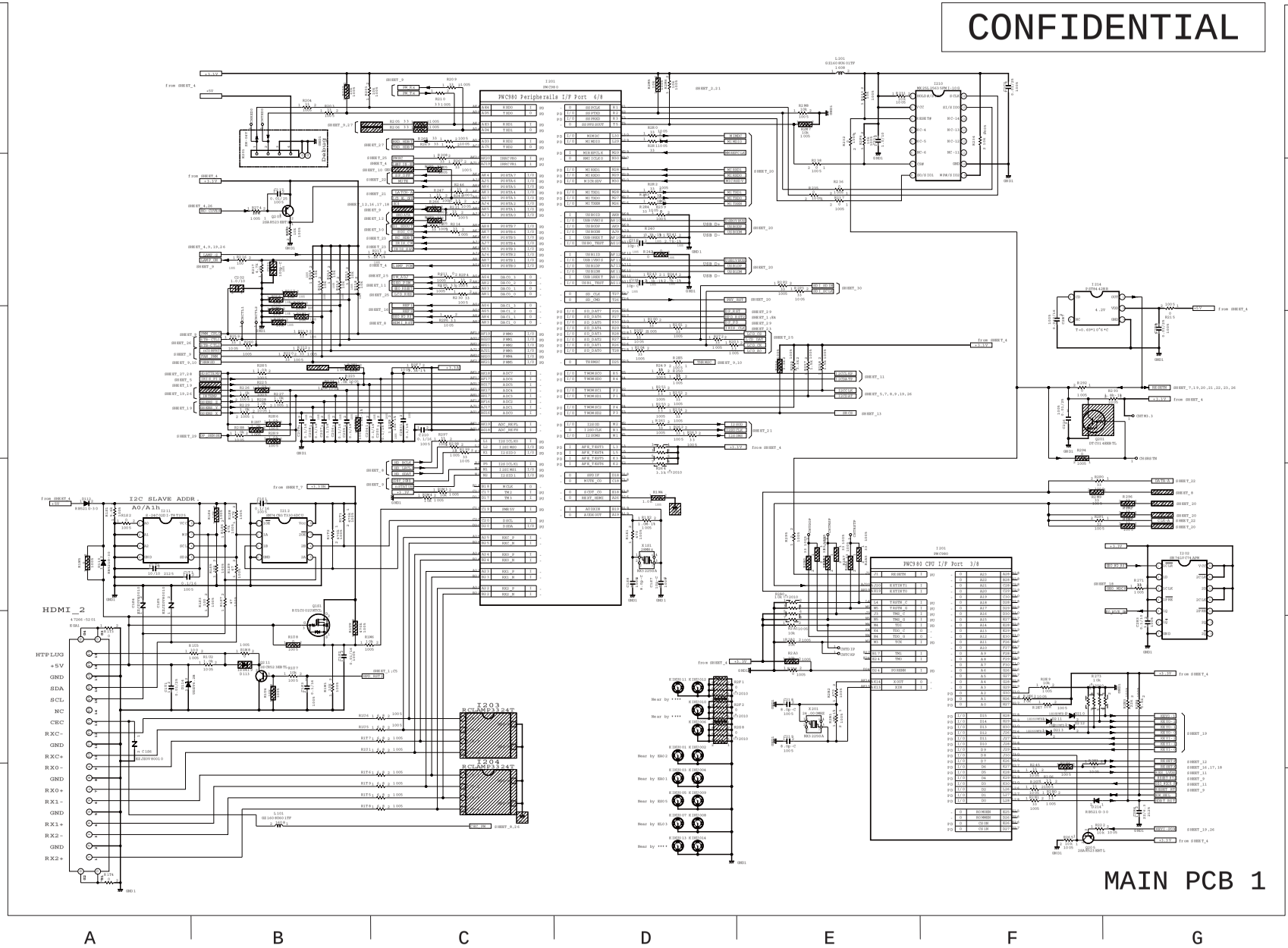



CONFIDENTIAL
INPUT PCB 1
Computer IN
MONITOR OUT
IC03
THS7327PHP
I2C SLAVE ADDR.
58h/59h
JUMPER R
【AnalogLine】
Jumper
6
5
4
3
2
1
A
B
C
D
E
F
G

CONFIDENTIAL



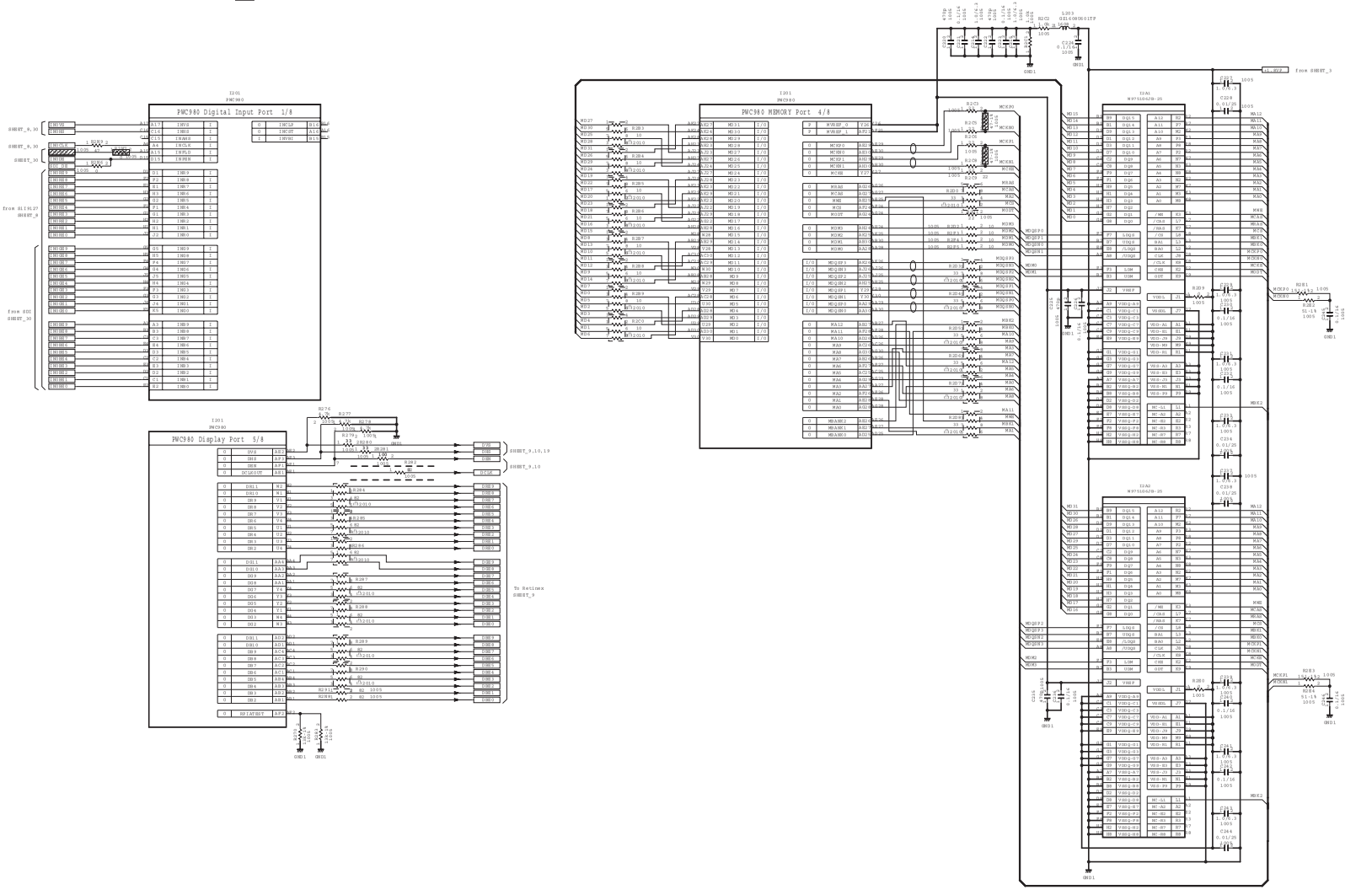
[LWU701i / LWU601i]



[LWU701i / LWU601i]

CONFIDENTIAL

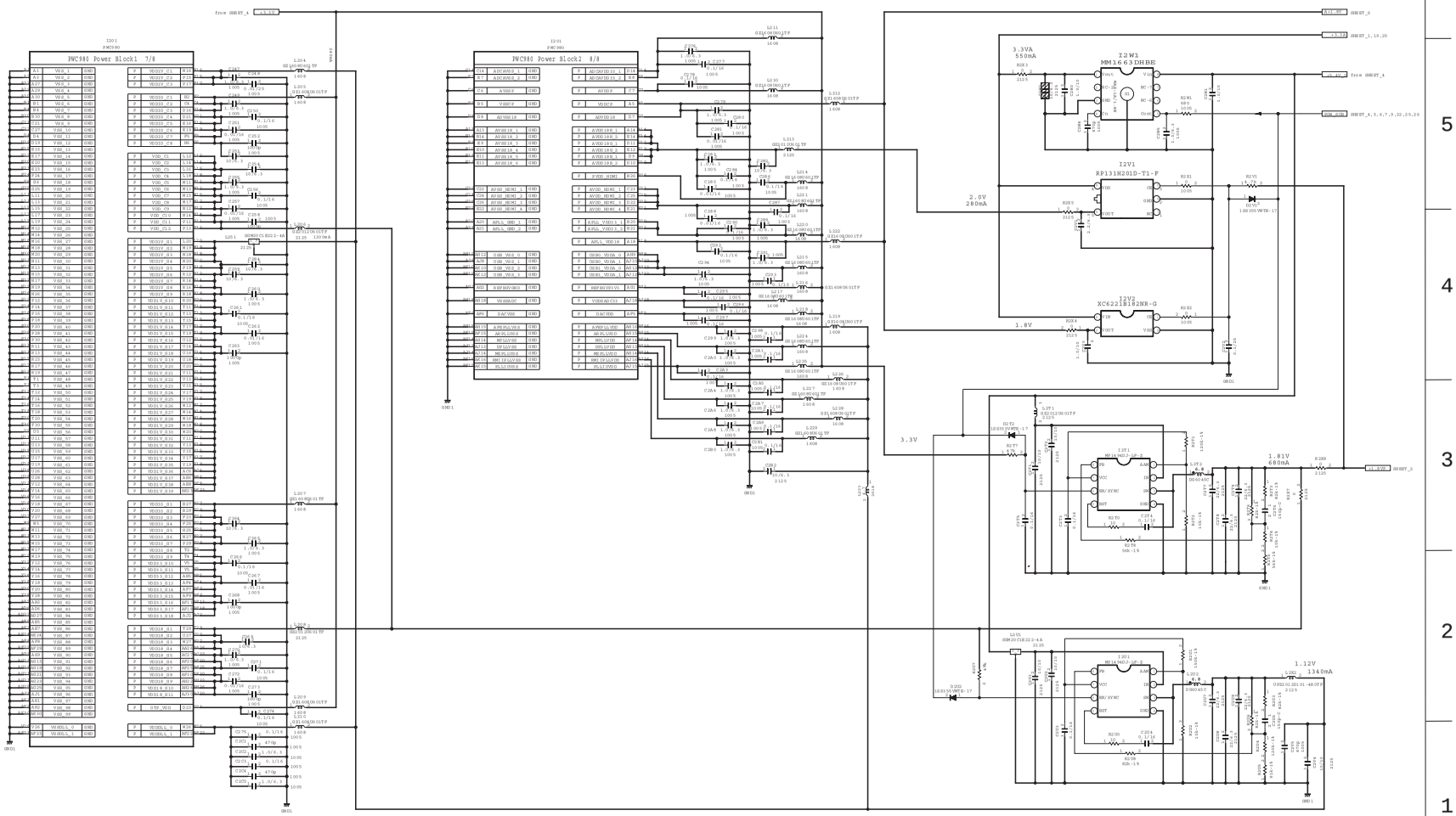
PWC980 DDR&D_PORT



[LWU701i / LWU601i]

CONFIDENTIAL

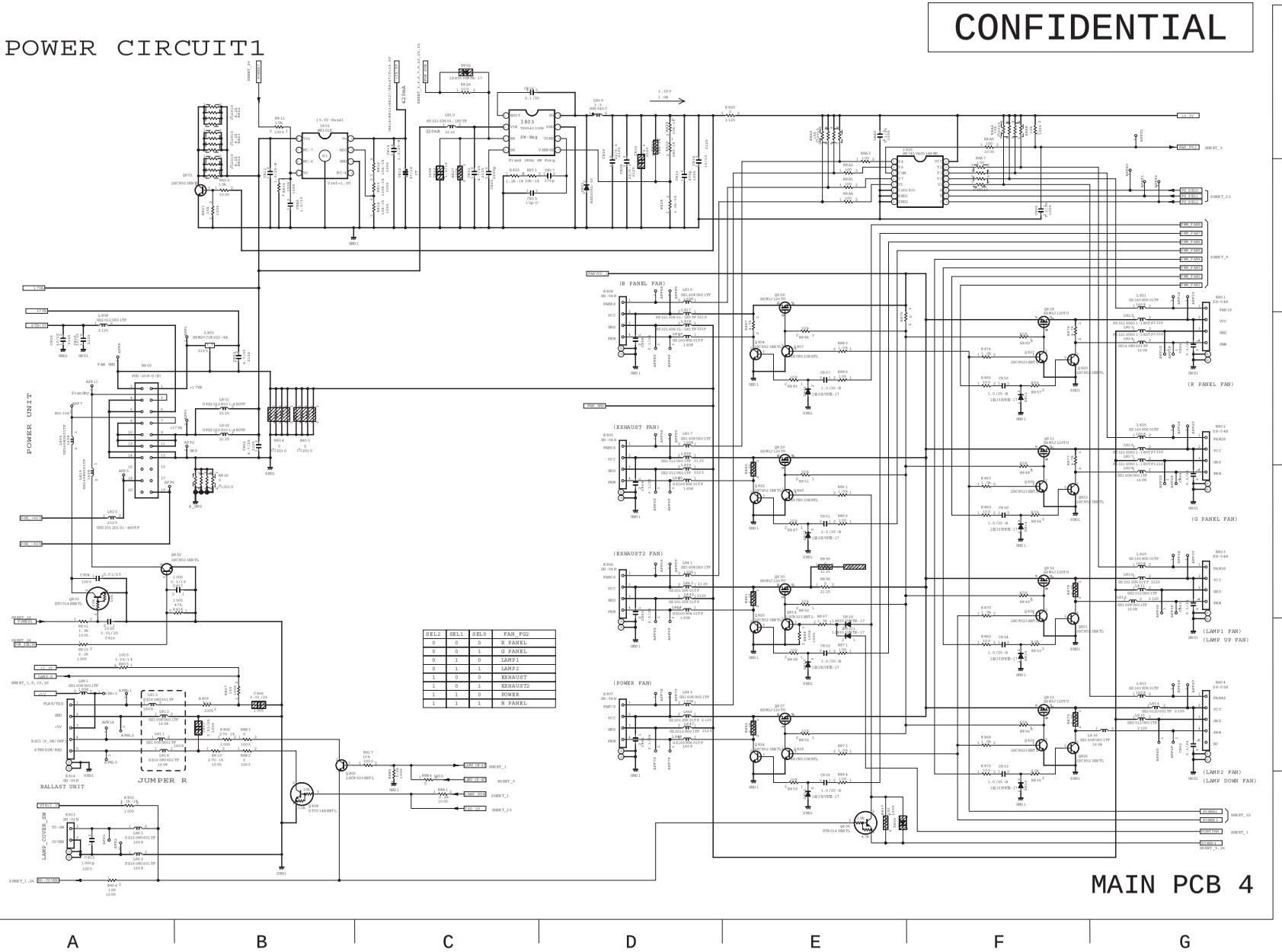
PWC980 POWER



[LWU701i / LWU601i]

CONFIDENTIAL

POWER CIRCUIT1

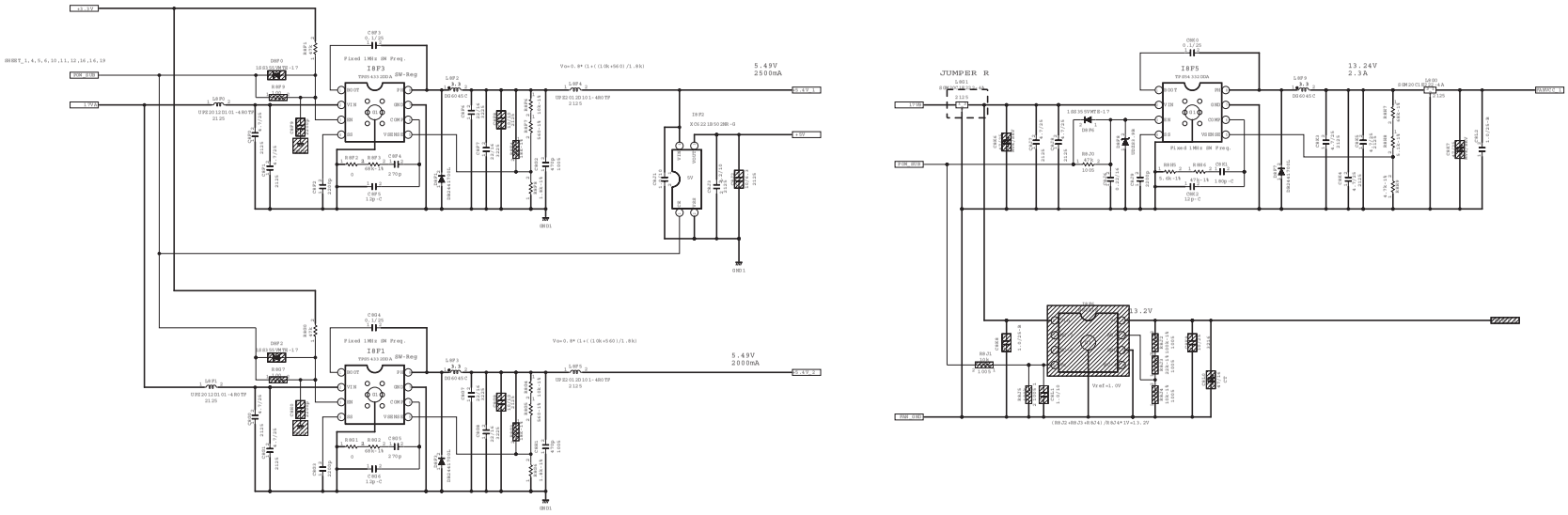


SEL2	SEL1	SEL0	FAN_FG2
0	0	0	R PANEL
0	0	1	G PANEL
0	1	0	LAMP1
0	1	1	LAMP2
1	0	0	EXHAUST
1	0	1	EXHAUST2
1	1	0	POWER
1	1	1	B PANEL

[LWU701i / LWU601i]

CONFIDENTIAL

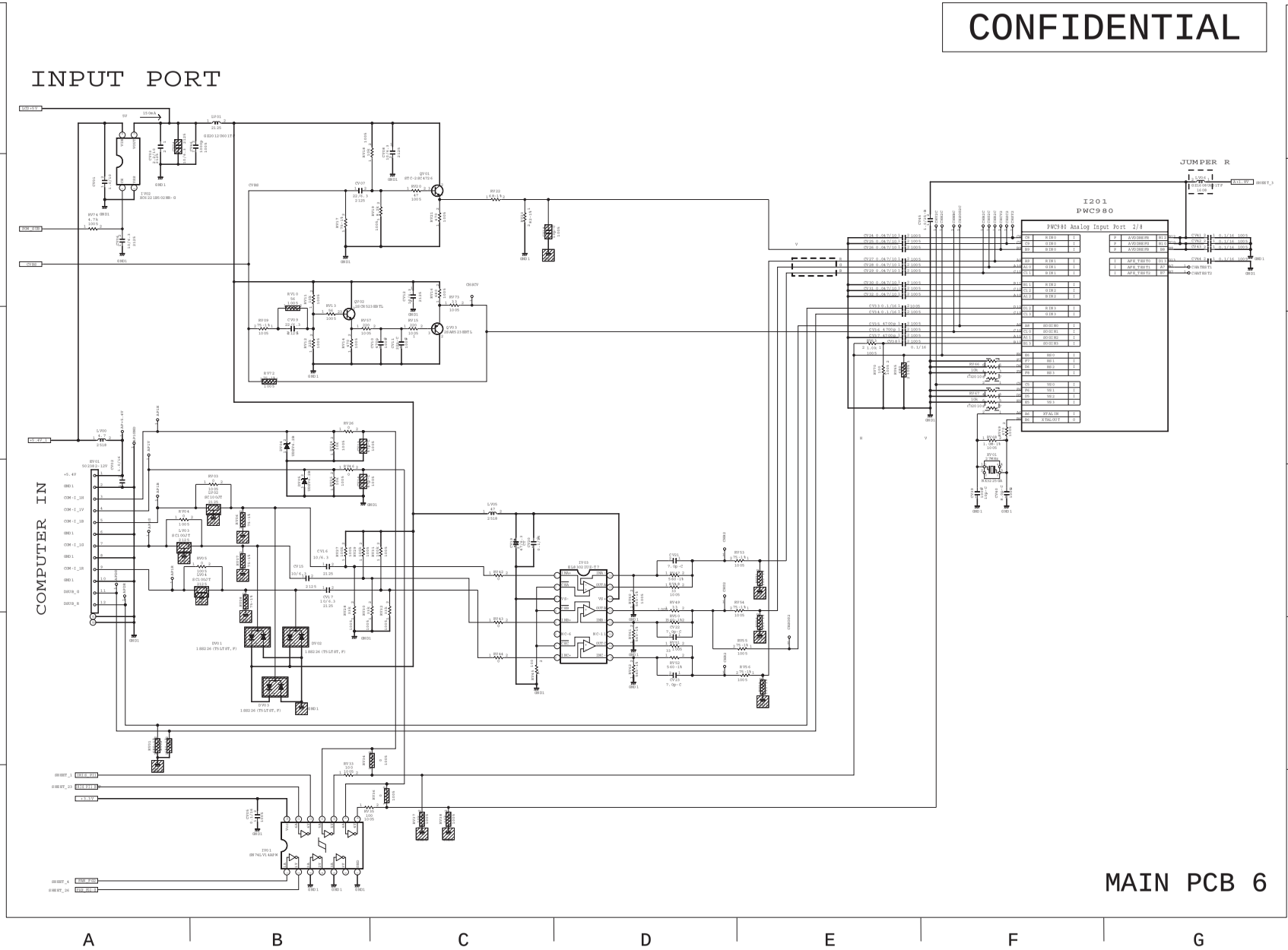
POWER CIRCUIT2



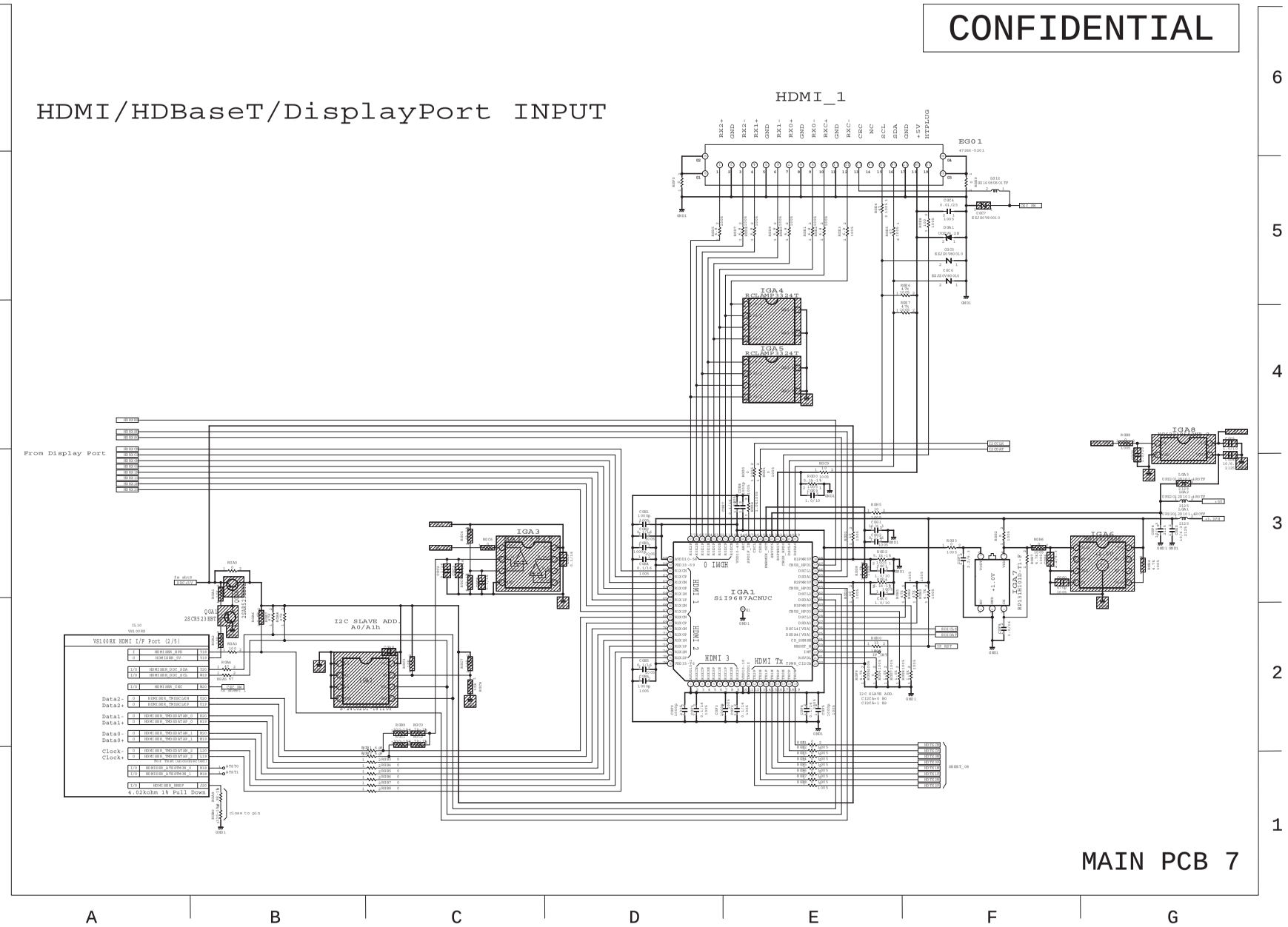
MAIN PCB 5

[LWU701i / LWU601i]

CONFIDENTIAL

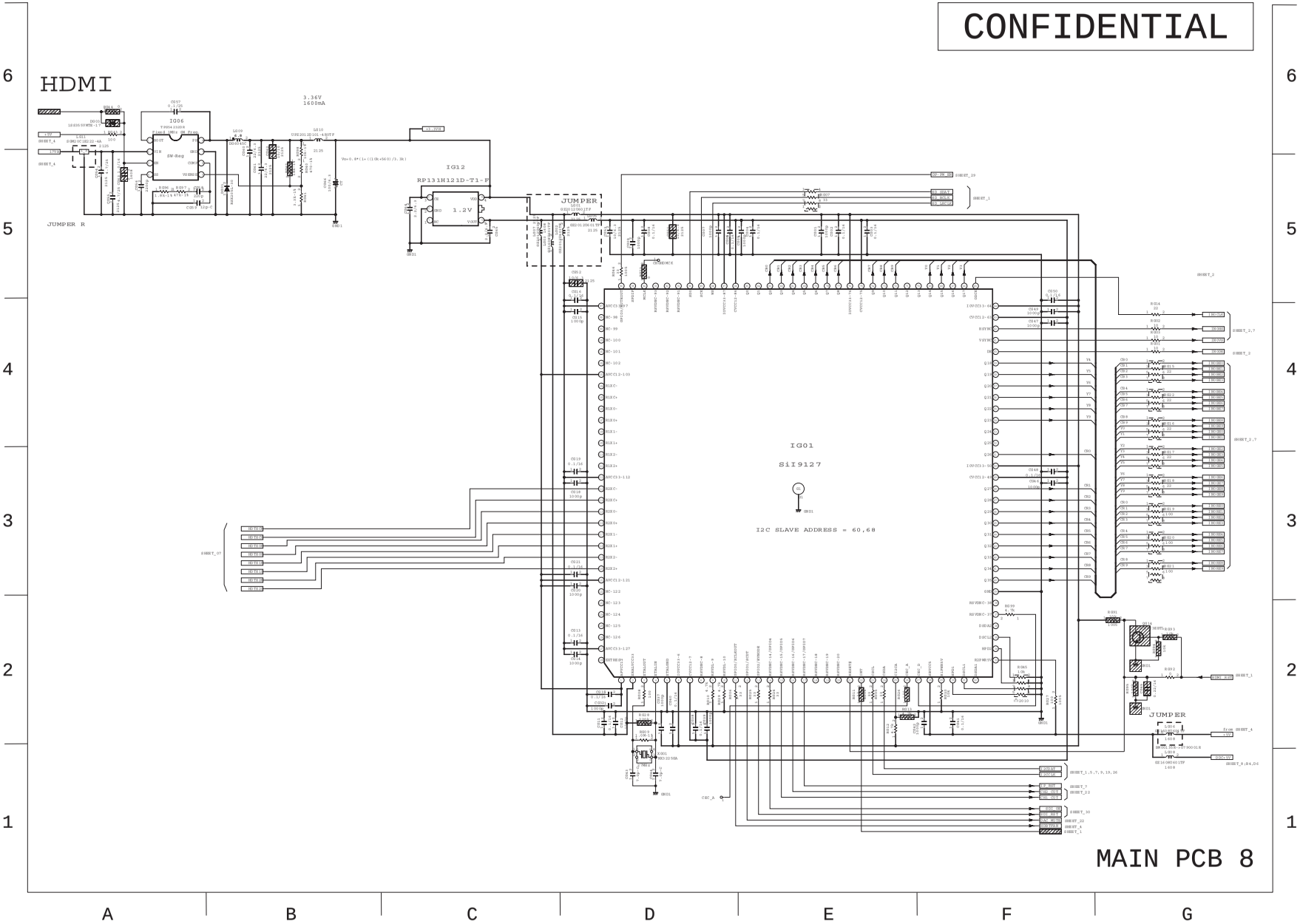


[LWU701i / LWU601i]



[LWU701i / LWU601i]

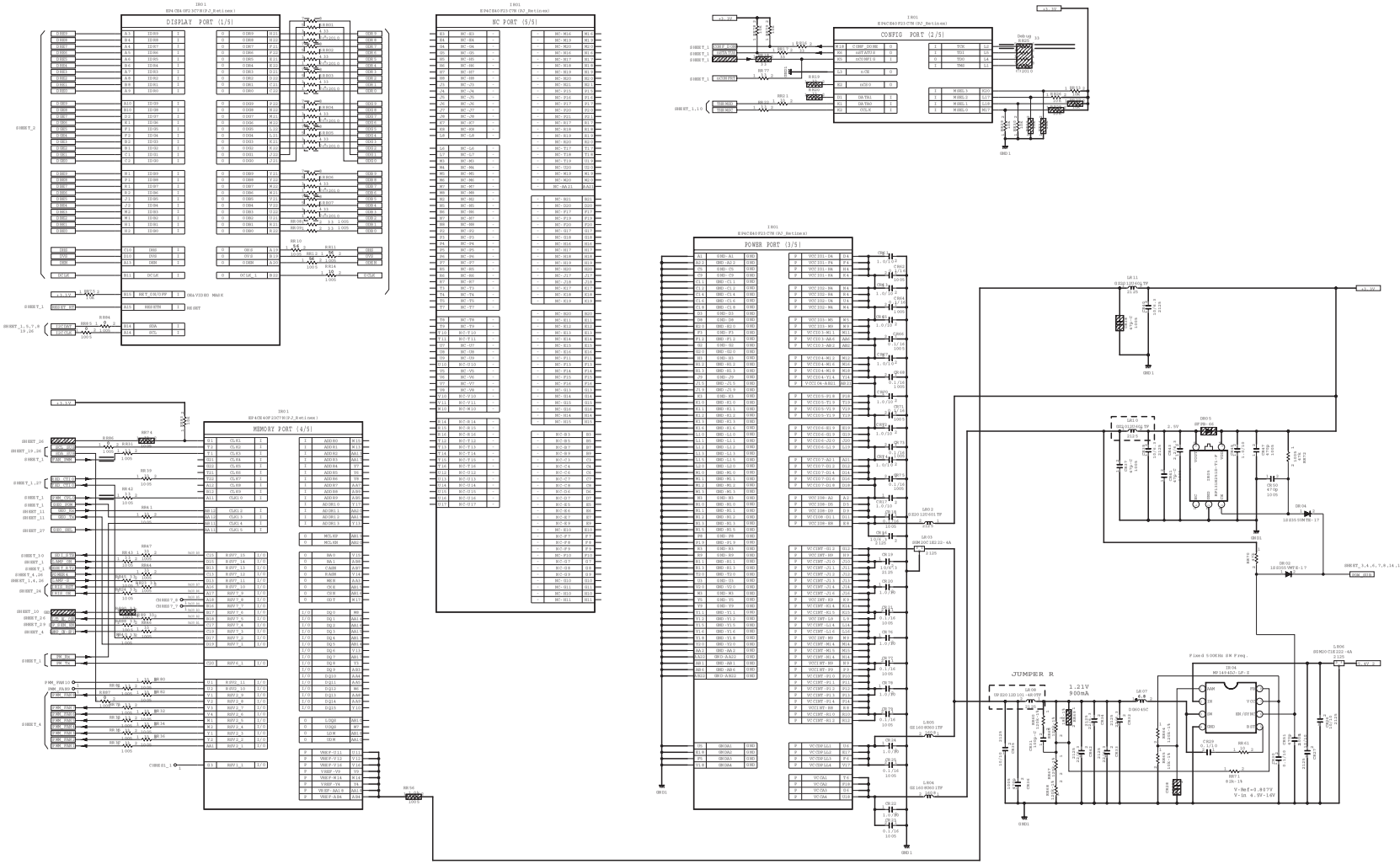
CONFIDENTIAL



[LWU701i / LWU601i]

CONFIDENTIAL

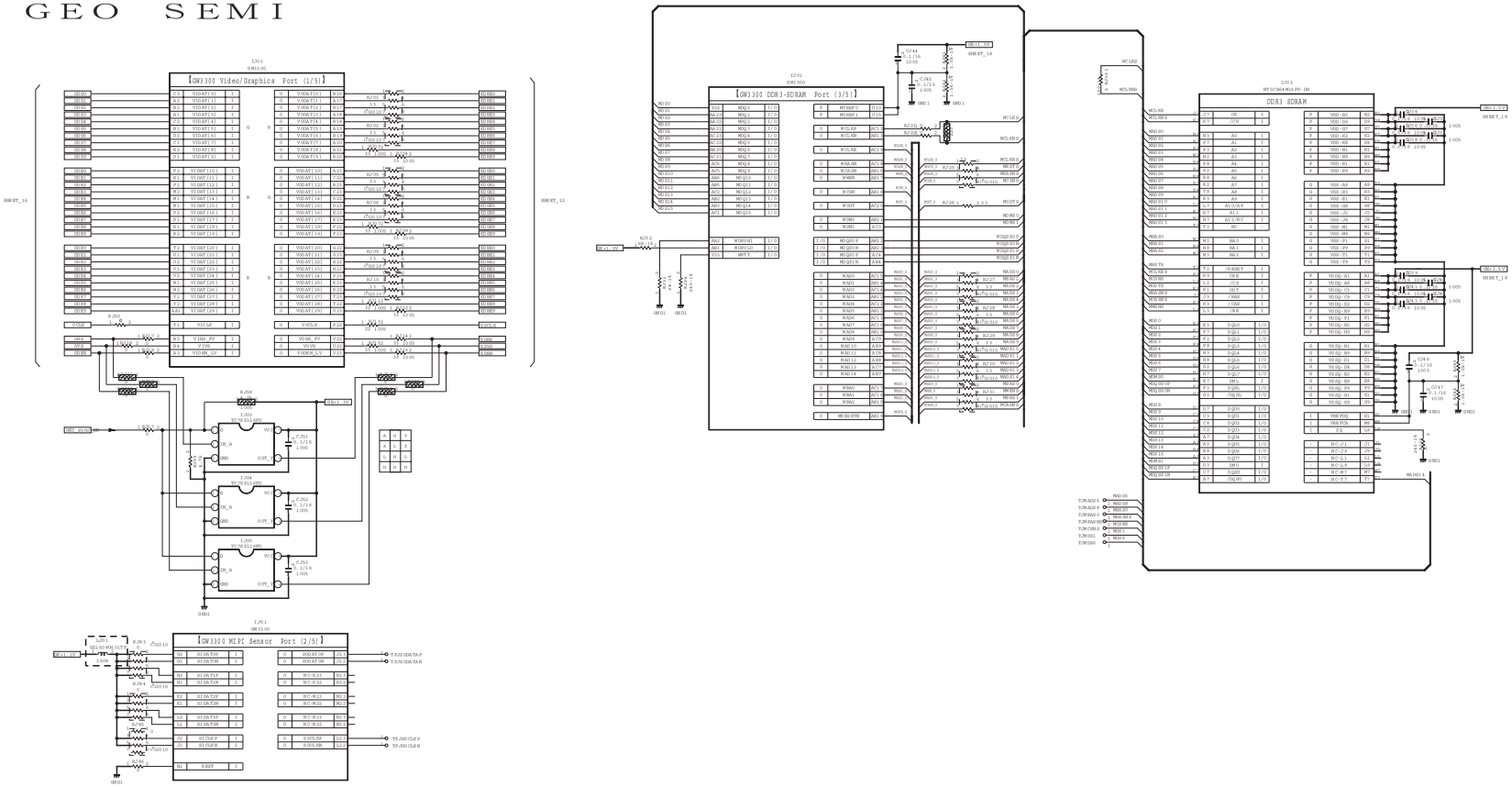
RETINEX/Color Management



[LWU701i / LWU601i]

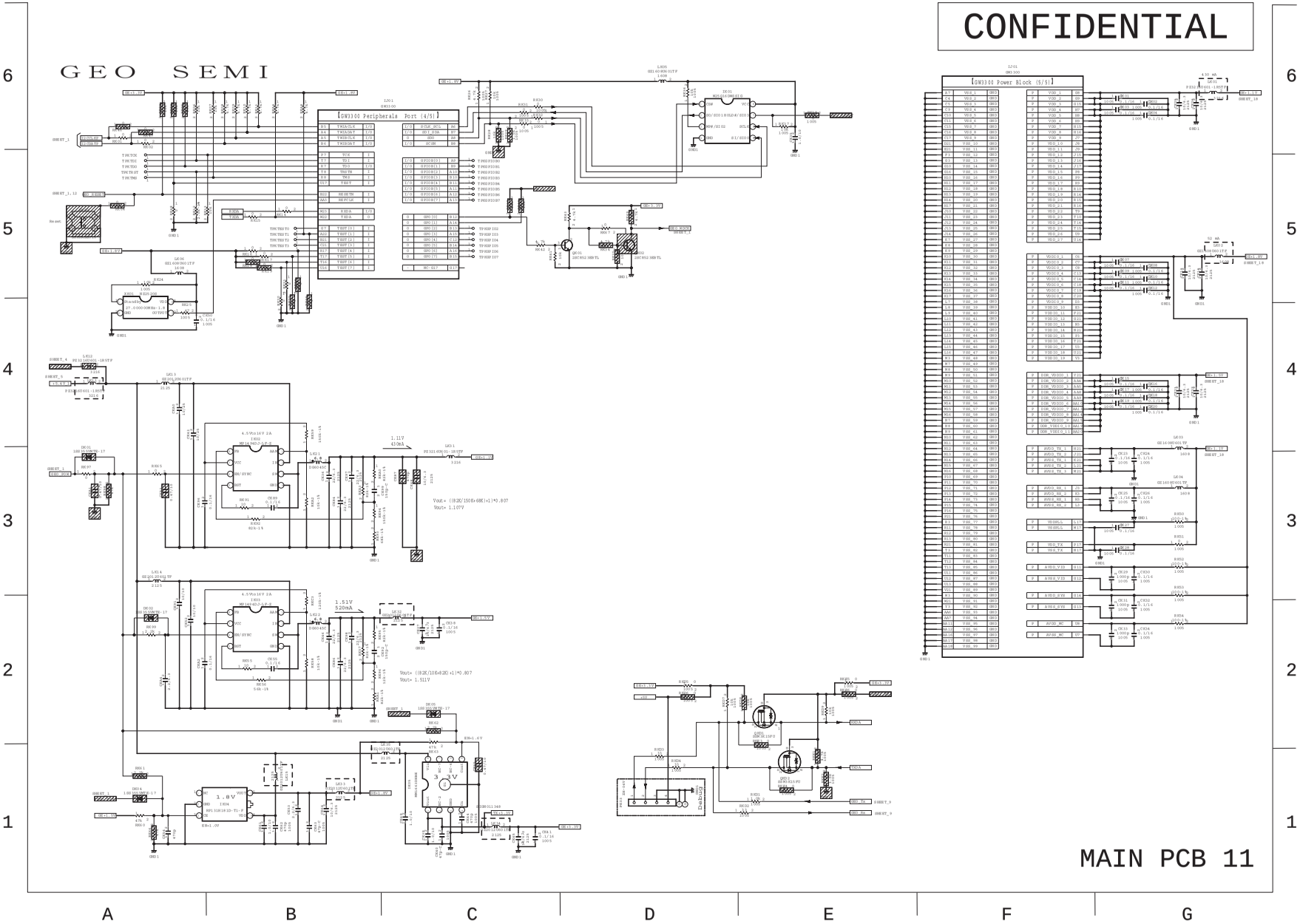
CONFIDENTIAL

GEO SEMI

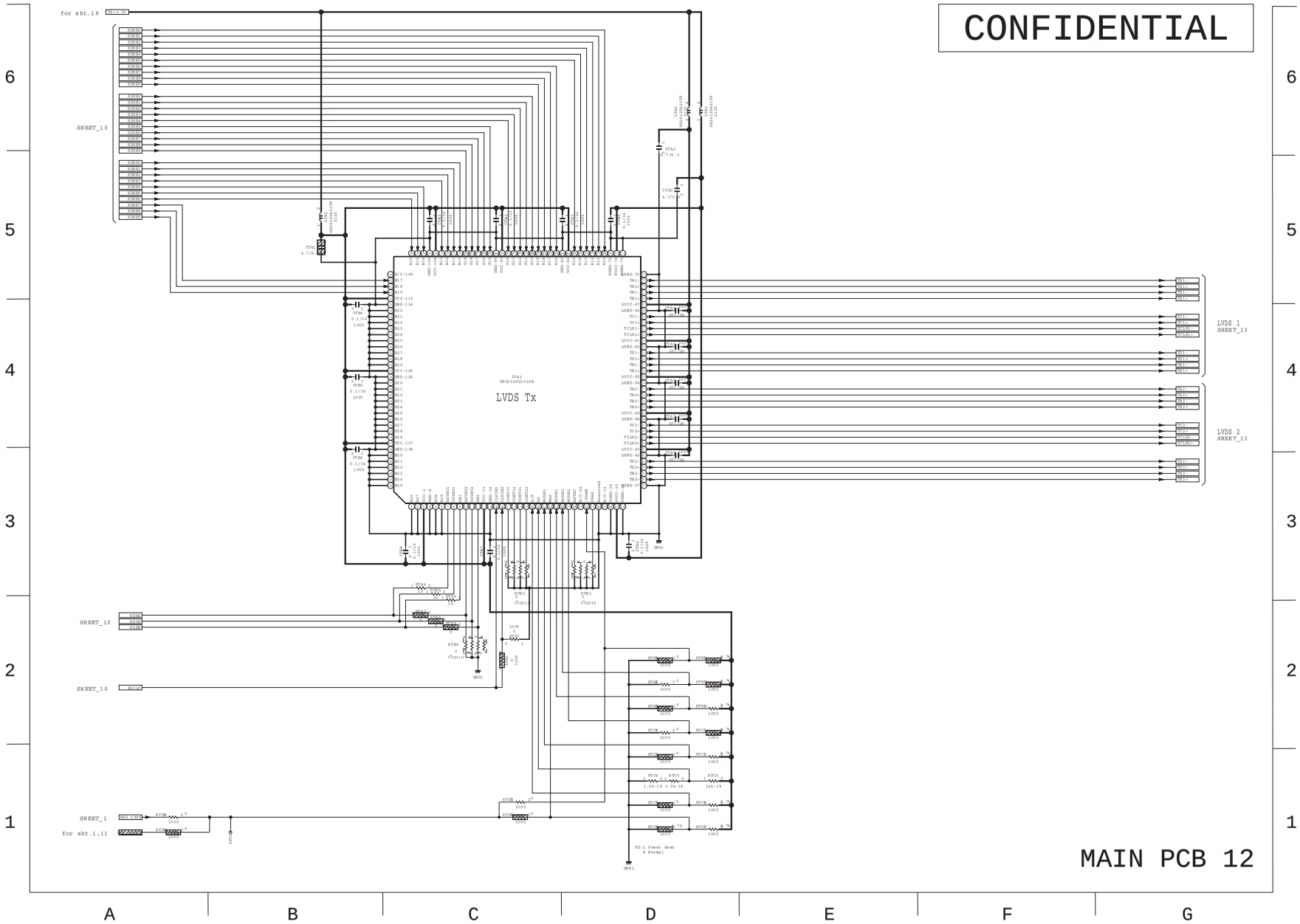


MAIN PCB 10

[LWU701i / LWU601i]



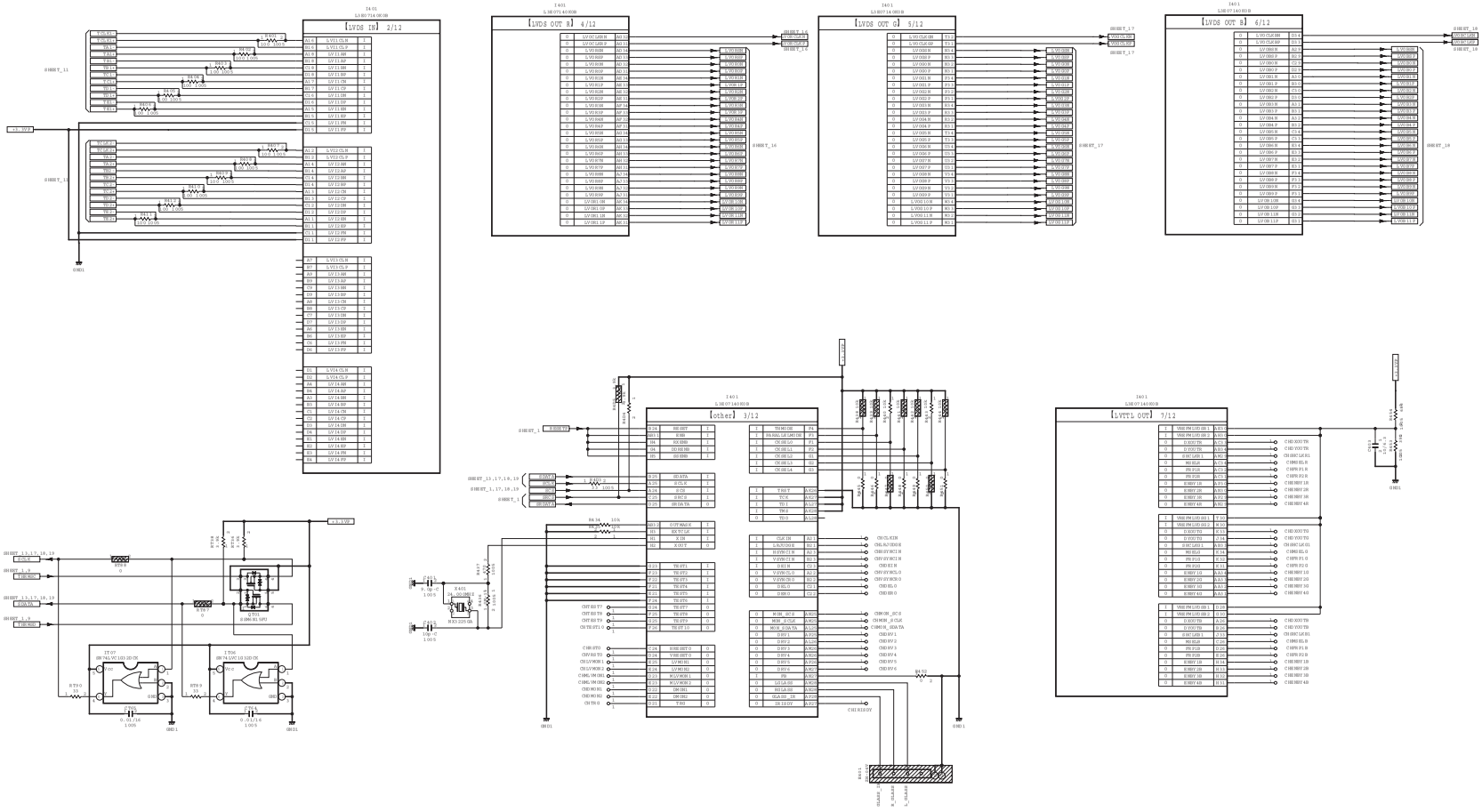
[LWU701i / LWU601i]



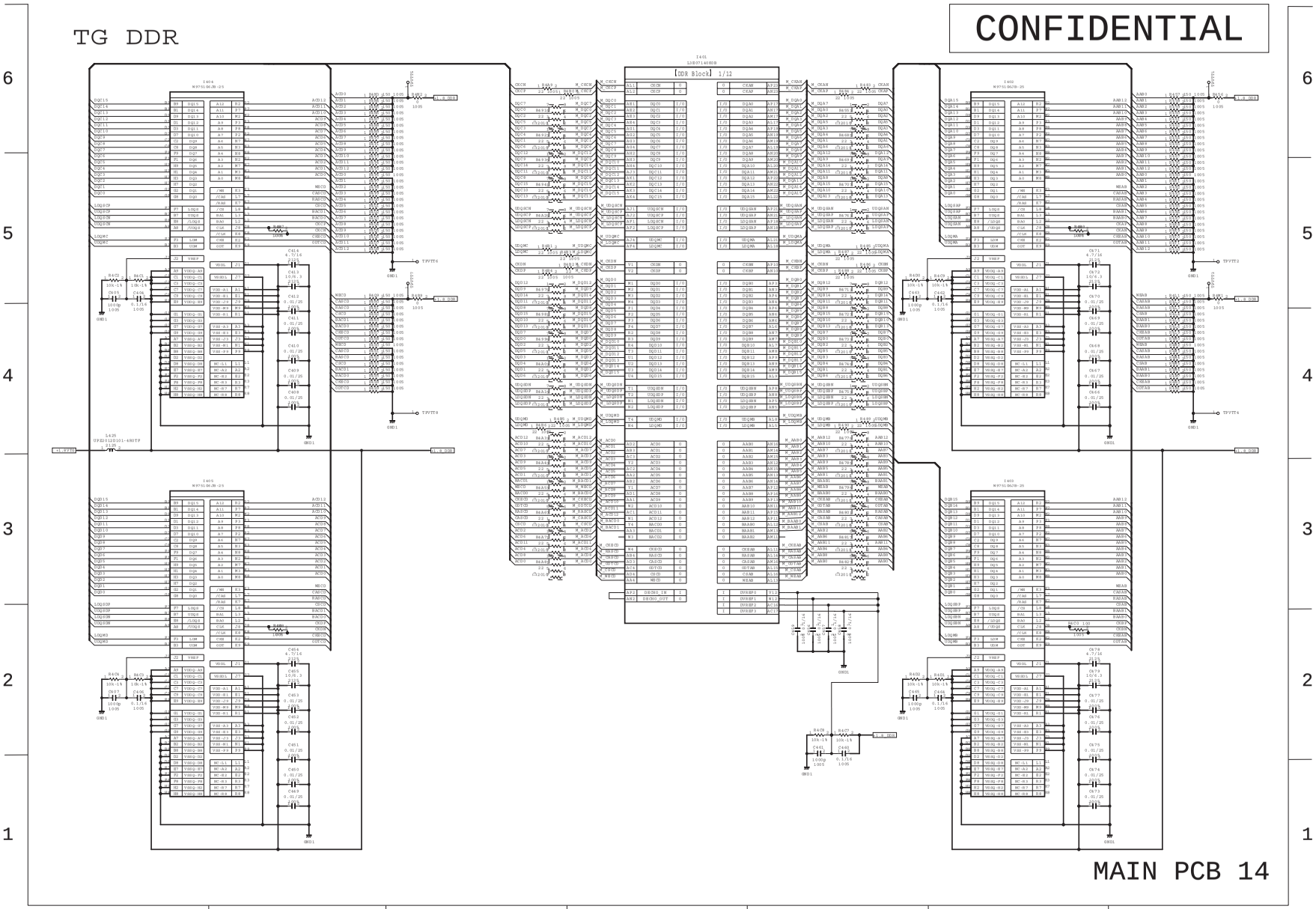
[LWU701i / LWU601i]

CONFIDENTIAL

TG INPUT/OUTPUT



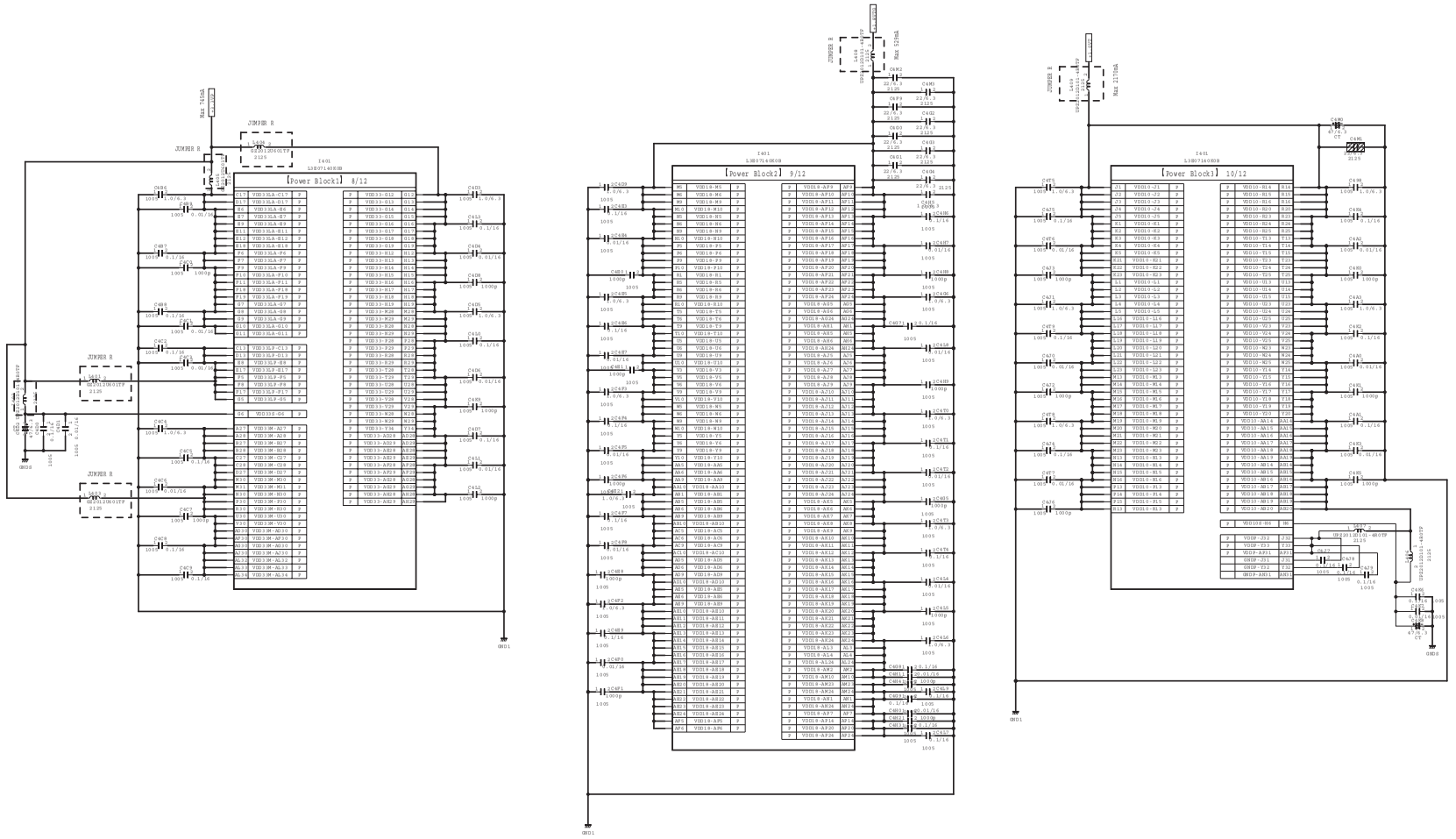
[LWU701i / LWU601i]



[LWU701i / LWU601i]

CONFIDENTIAL

TG POWER1

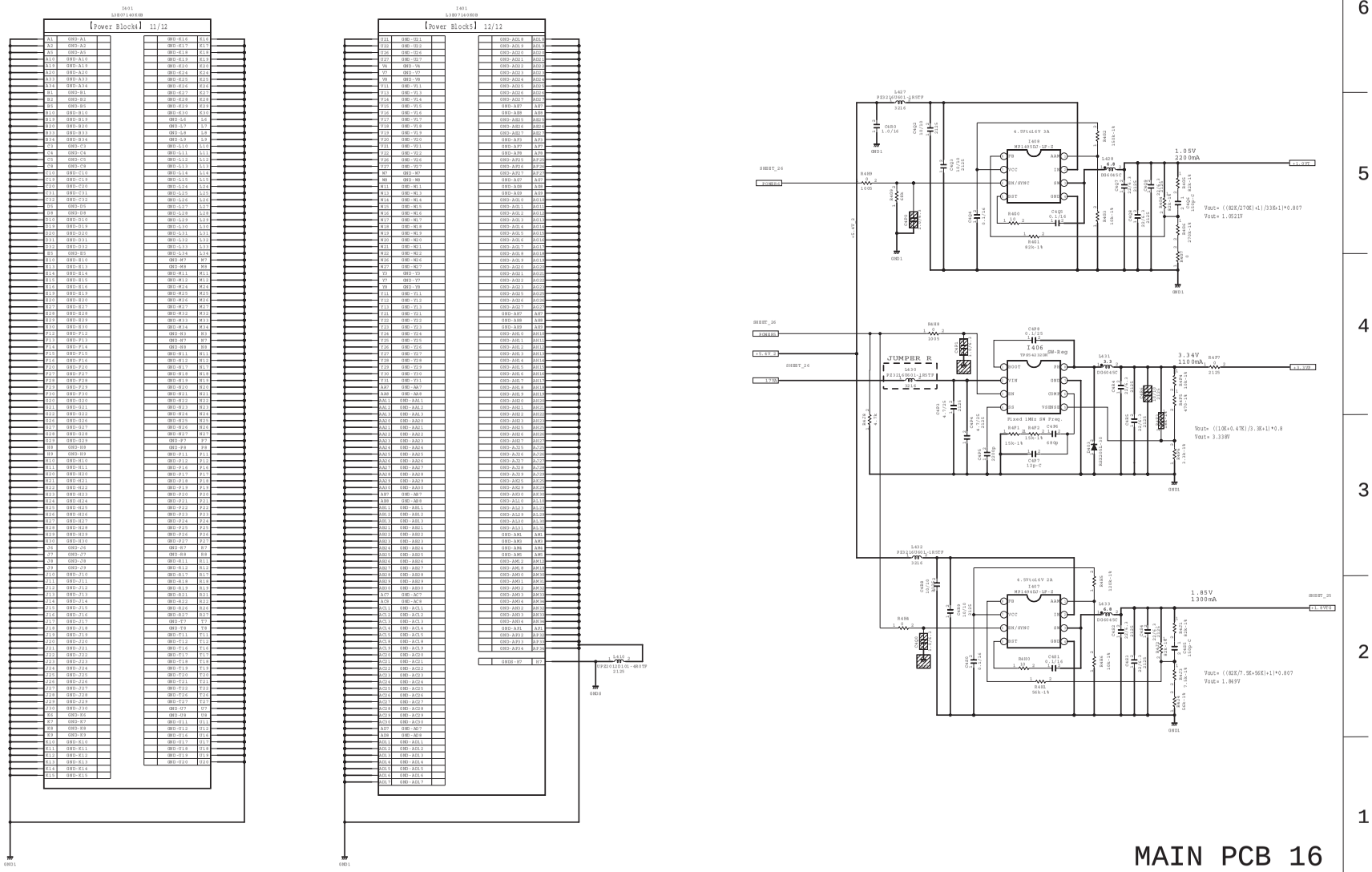


MAIN PCB 15

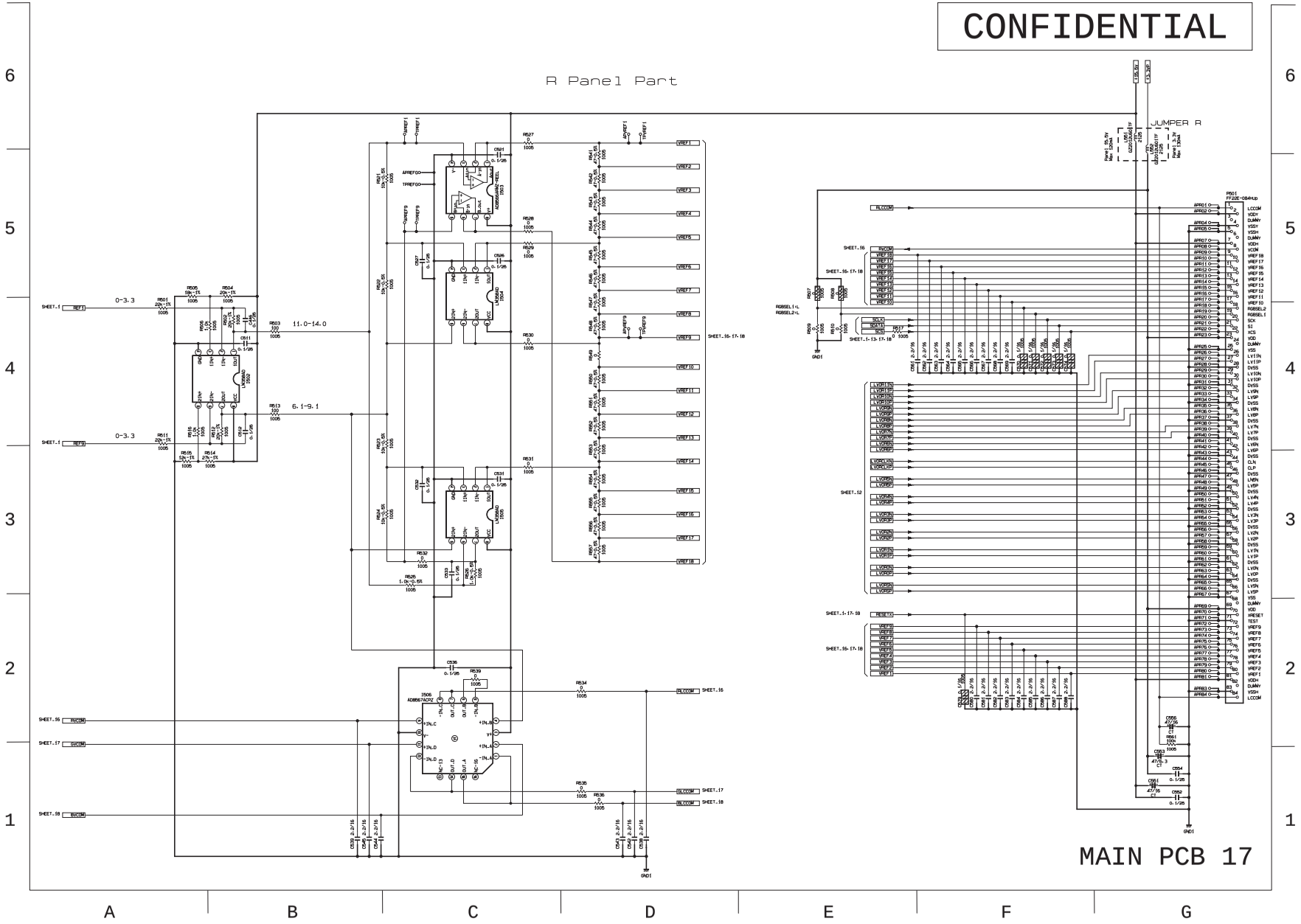
[LWU701i / LWU601i]

TG POWER2

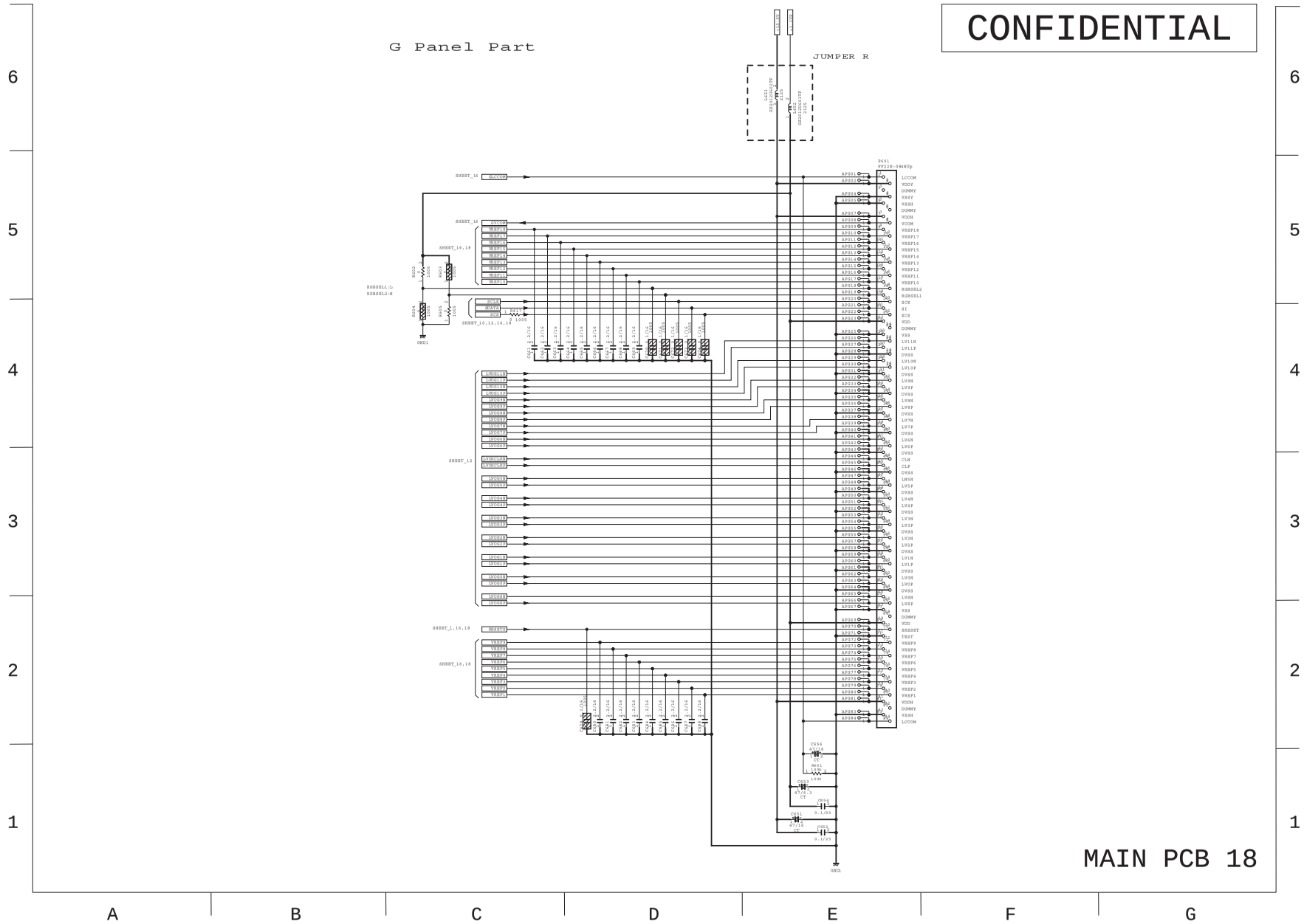
CONFIDENTIAL



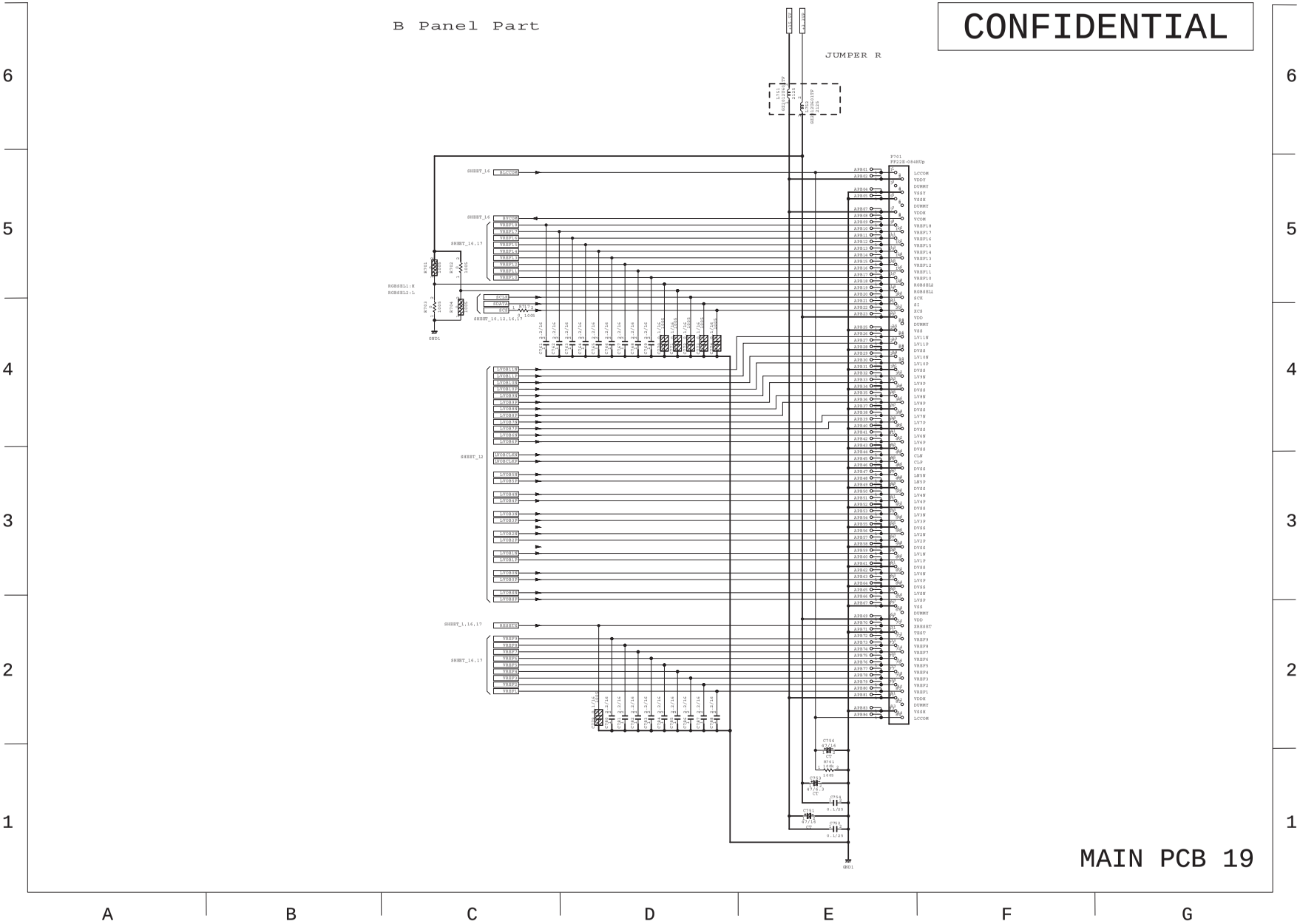
[LWU701i / LWU601i]



[LWU701i / LWU601i]



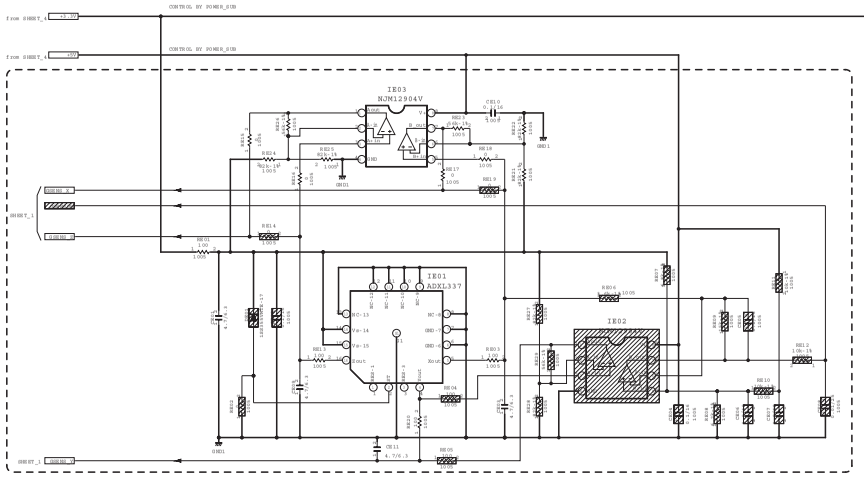
[LWU701i / LWU601i]

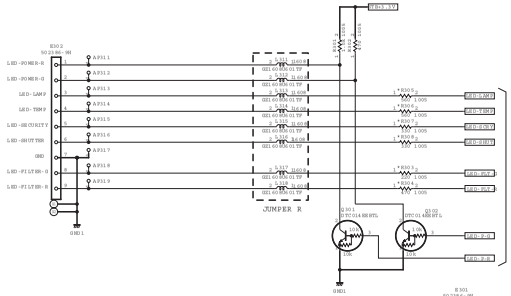


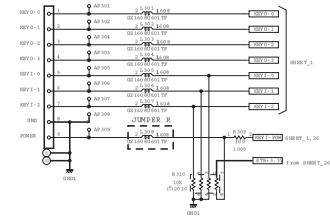
[LWU701i / LWU601i]

CONFIDENTIAL

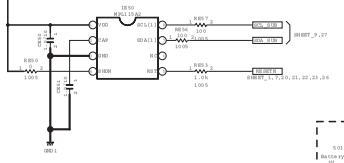
G SENSOR/P SENSOR/PLD/RTC



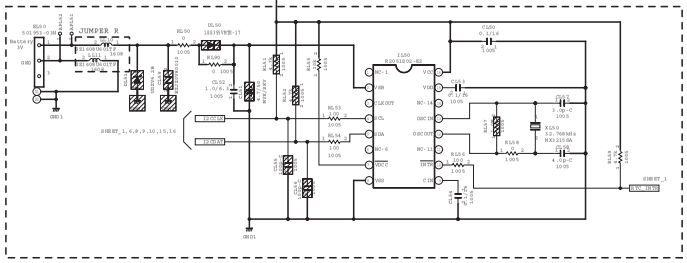




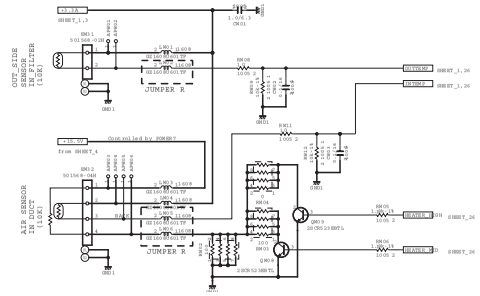
P SENSOR



RTC



TEMP./FILTER SENSOR

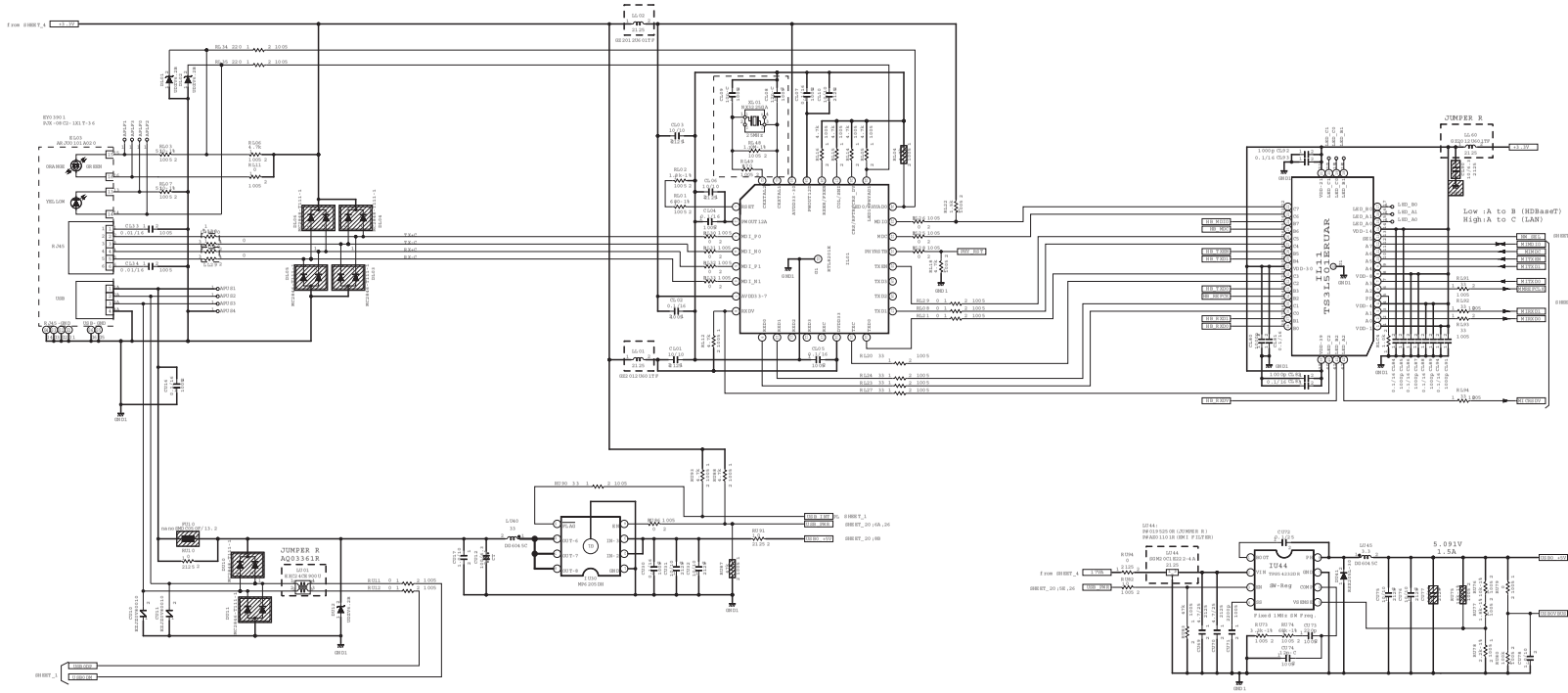


MAIN PCB 20

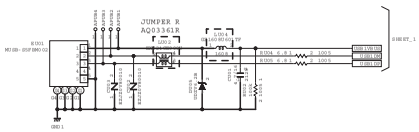
[LWU701i / LWU601i]

CONFIDENTIAL

LAN/USB



M_USB-B

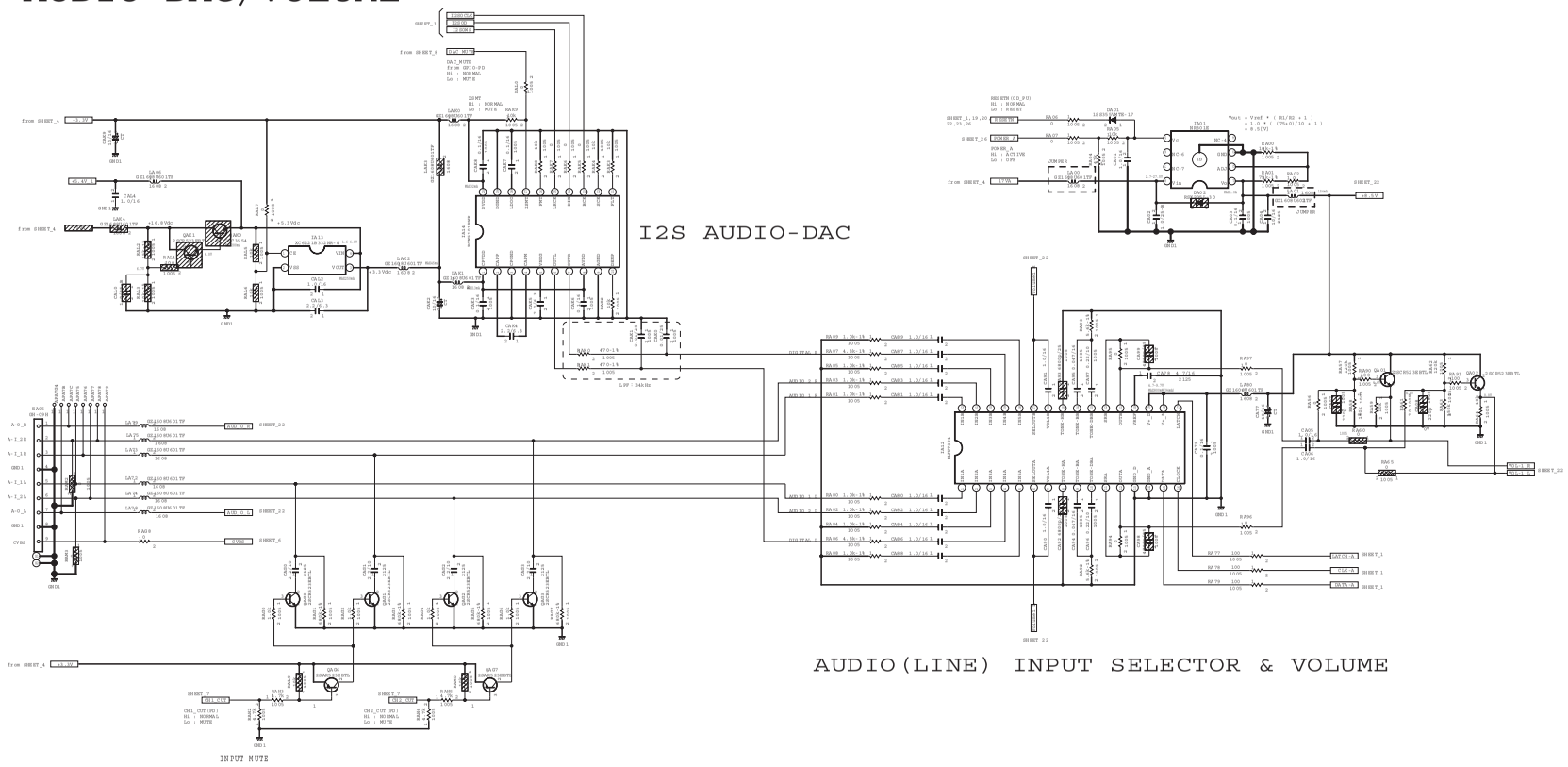


MAIN PCB 21

[LWU701i / LWU601i]

CONFIDENTIAL

AUDIO-DAC/VOLUME

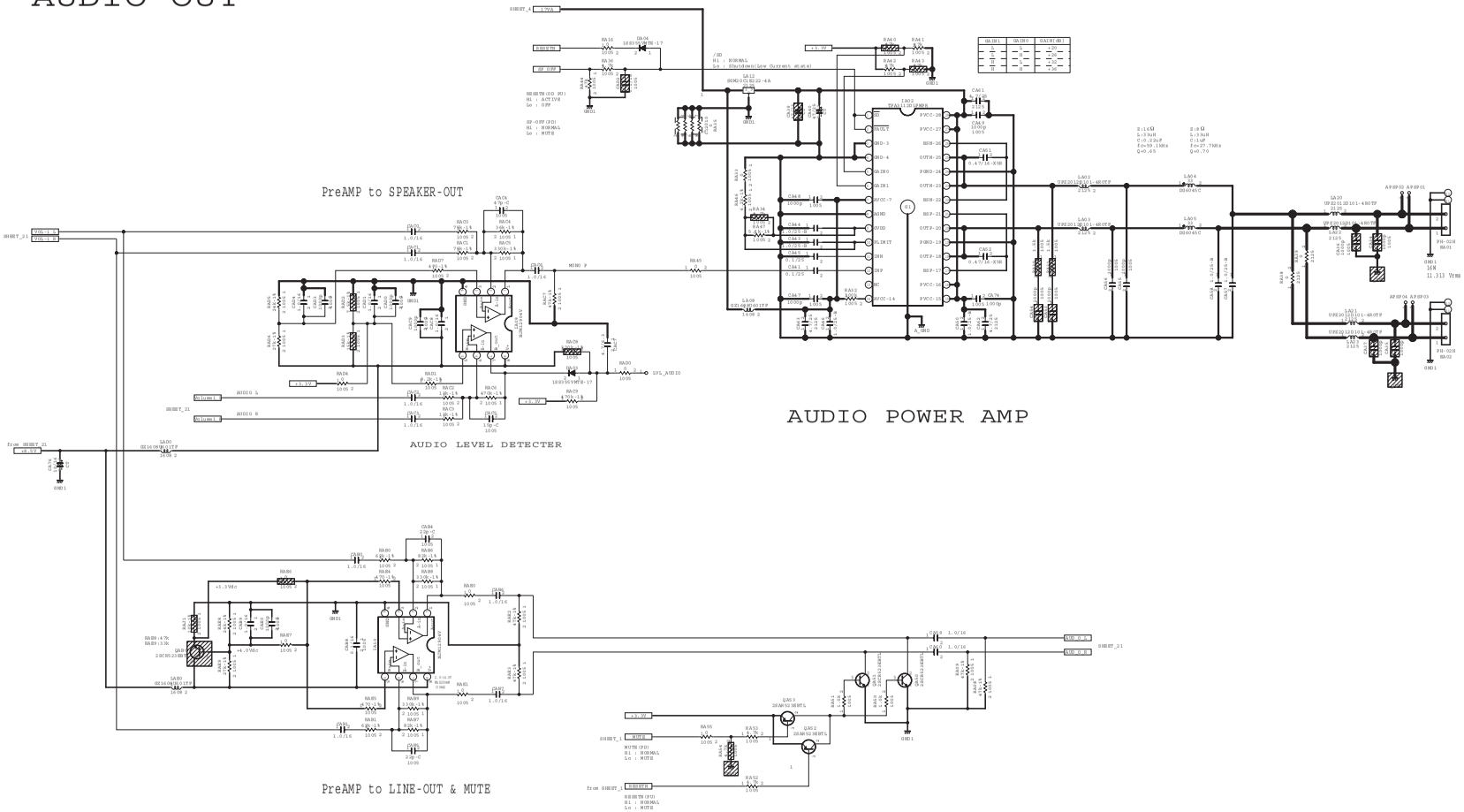


MAIN PCB 22

[LWU701i / LWU601i]

CONFIDENTIAL

AUDIO-OUT

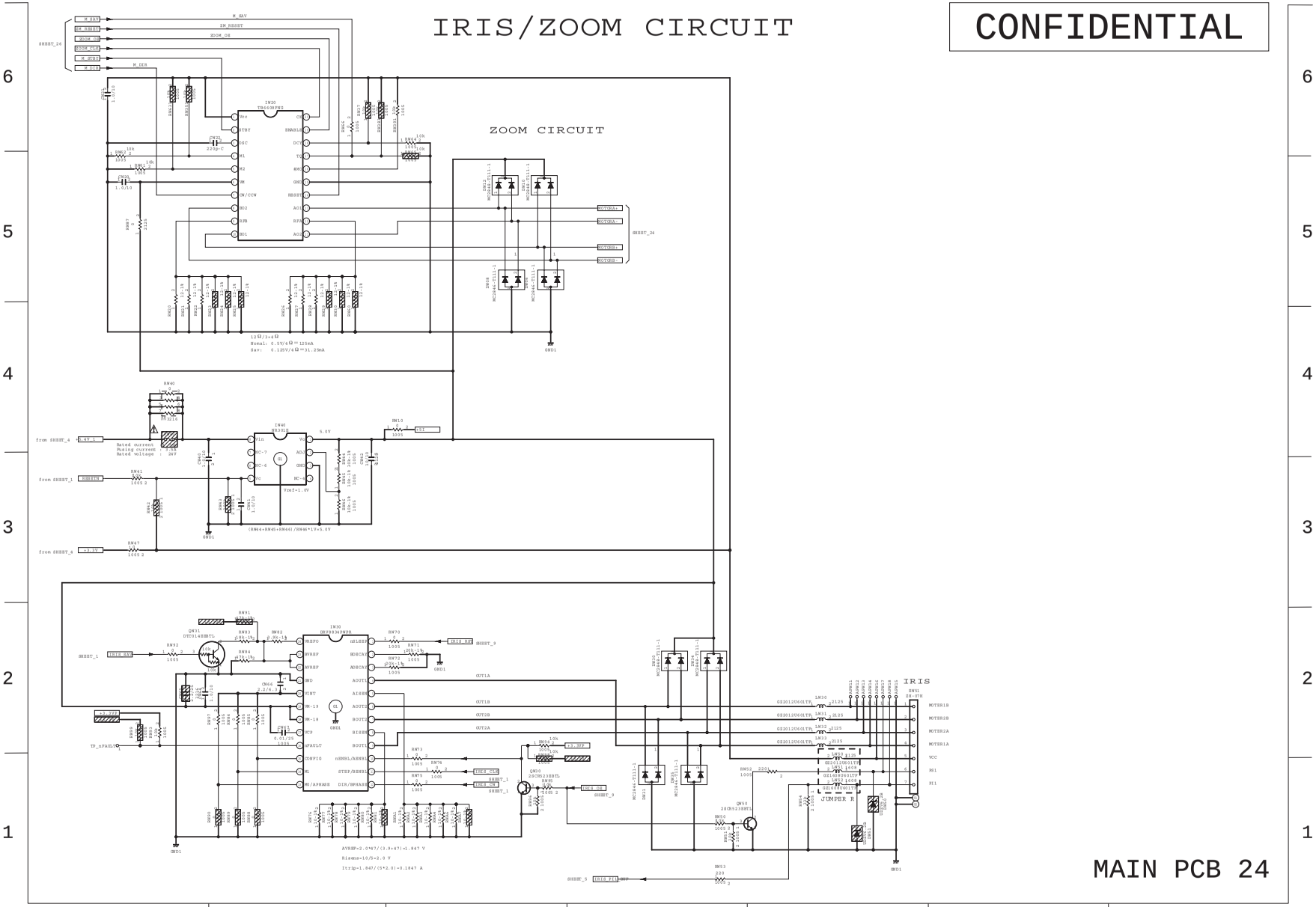


MAIN PCB 23

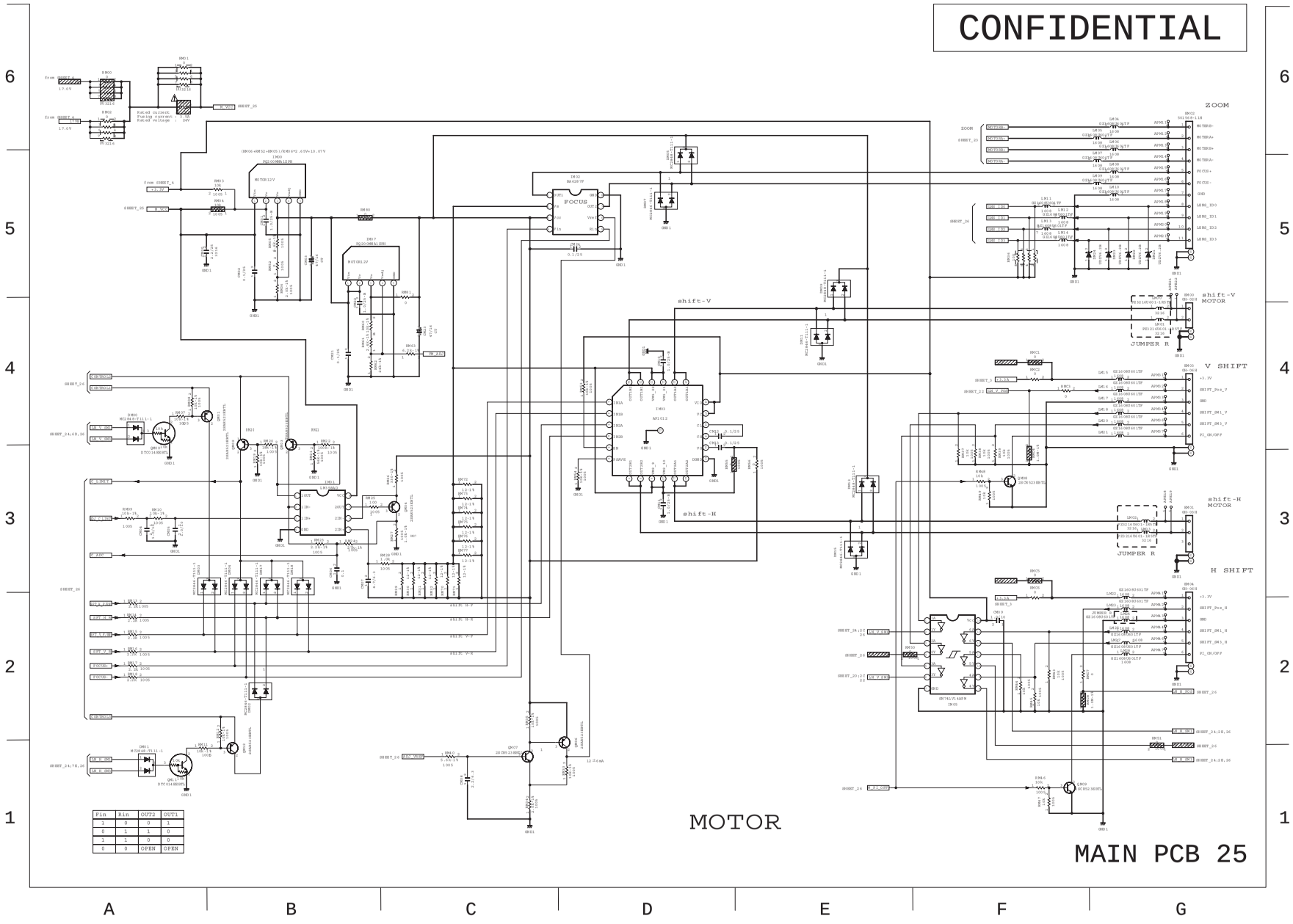
[LWU701i / LWU601i]

IRIS/ZOOM CIRCUIT

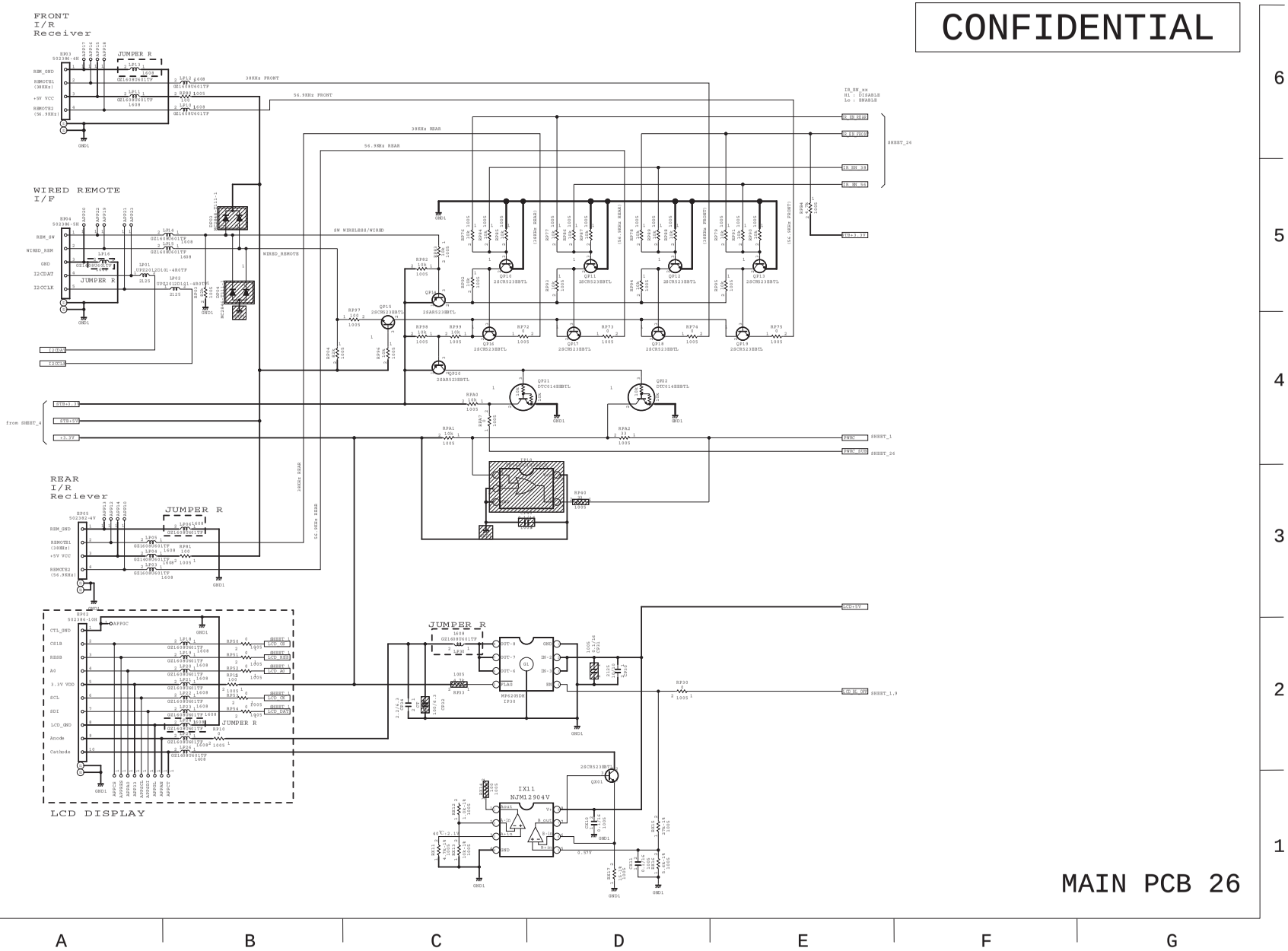
CONFIDENTIAL



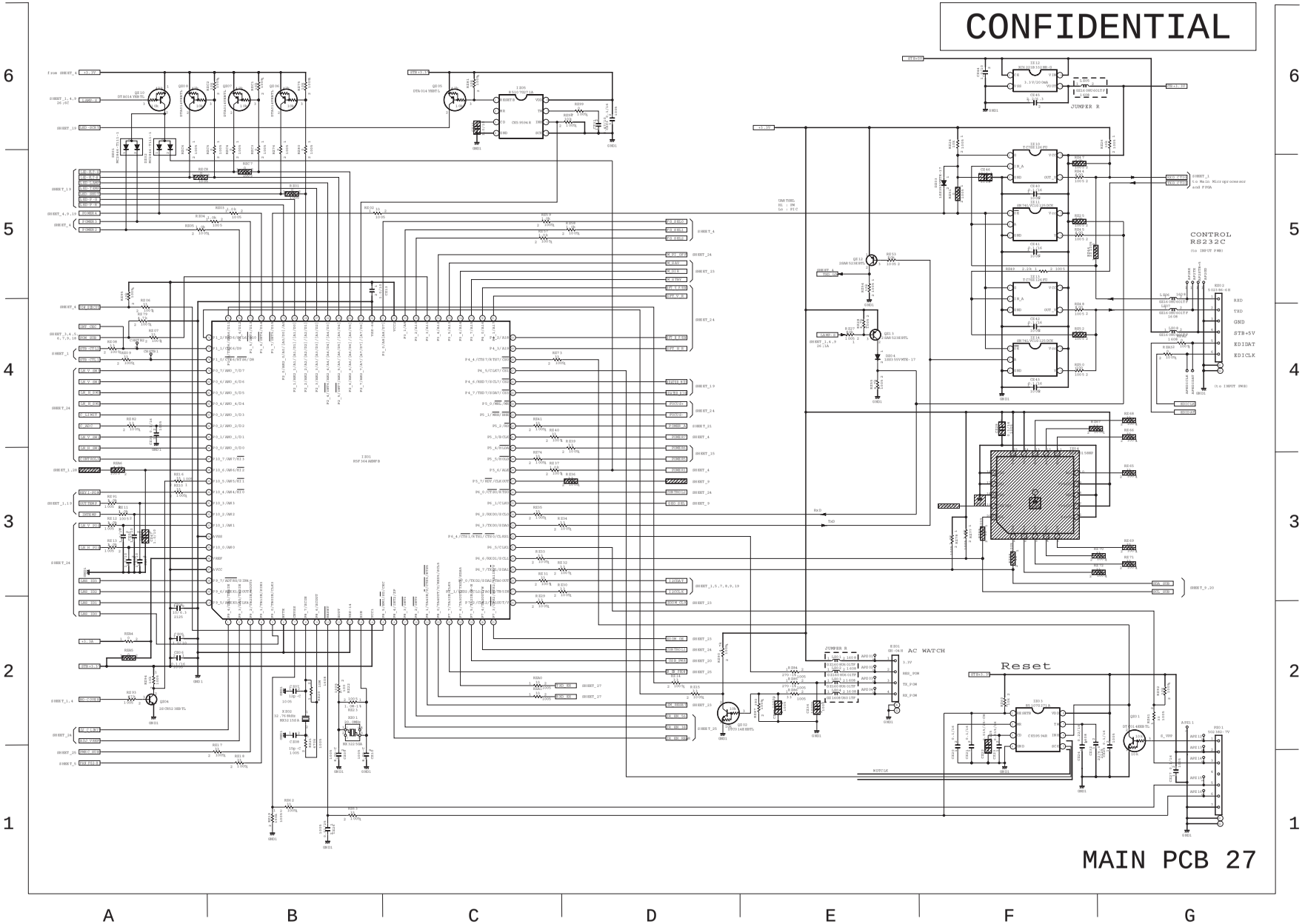
[LWU701i / LWU601i]



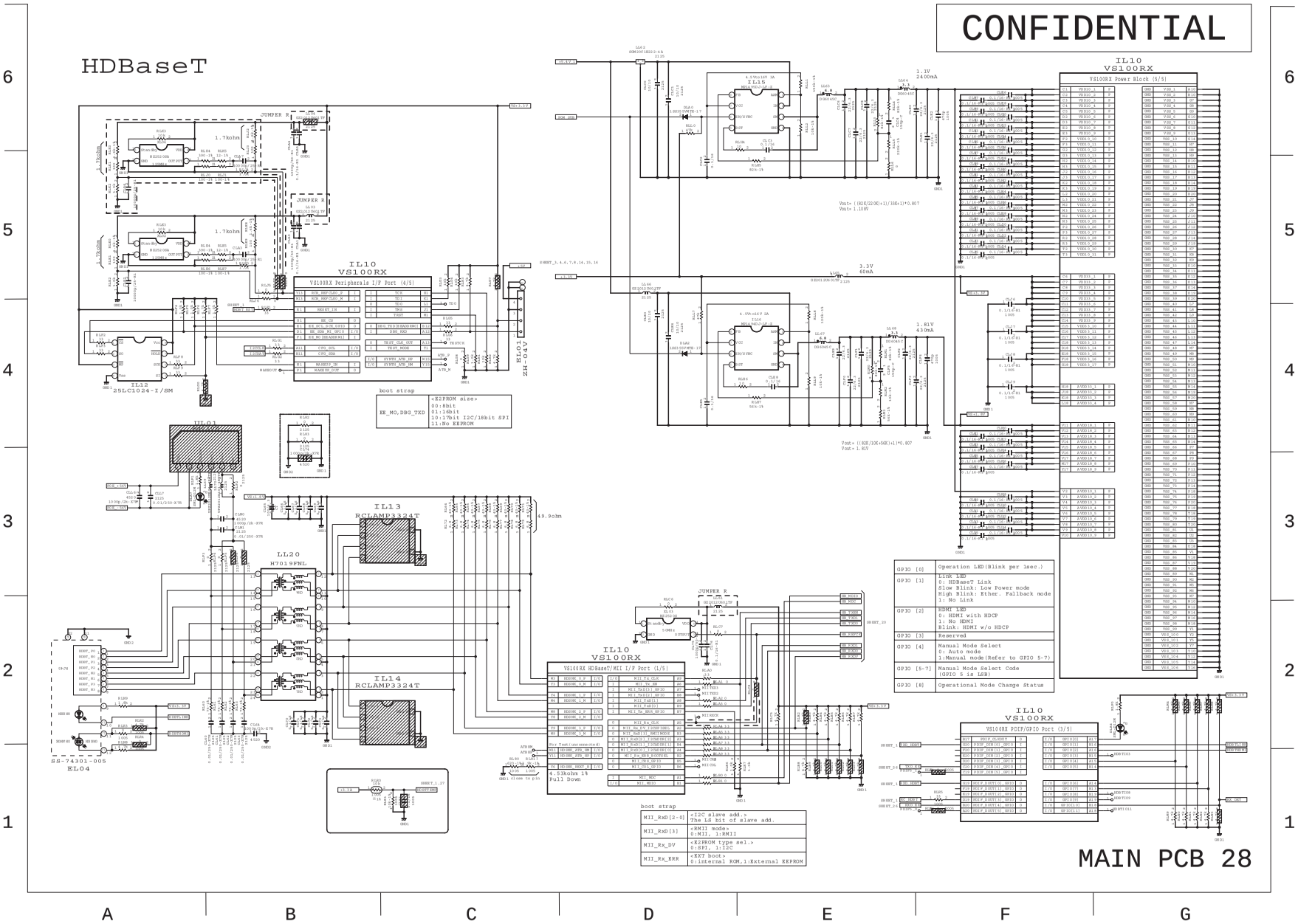
[LWU701i / LWU601i]



[LWU701i / LWU601i]



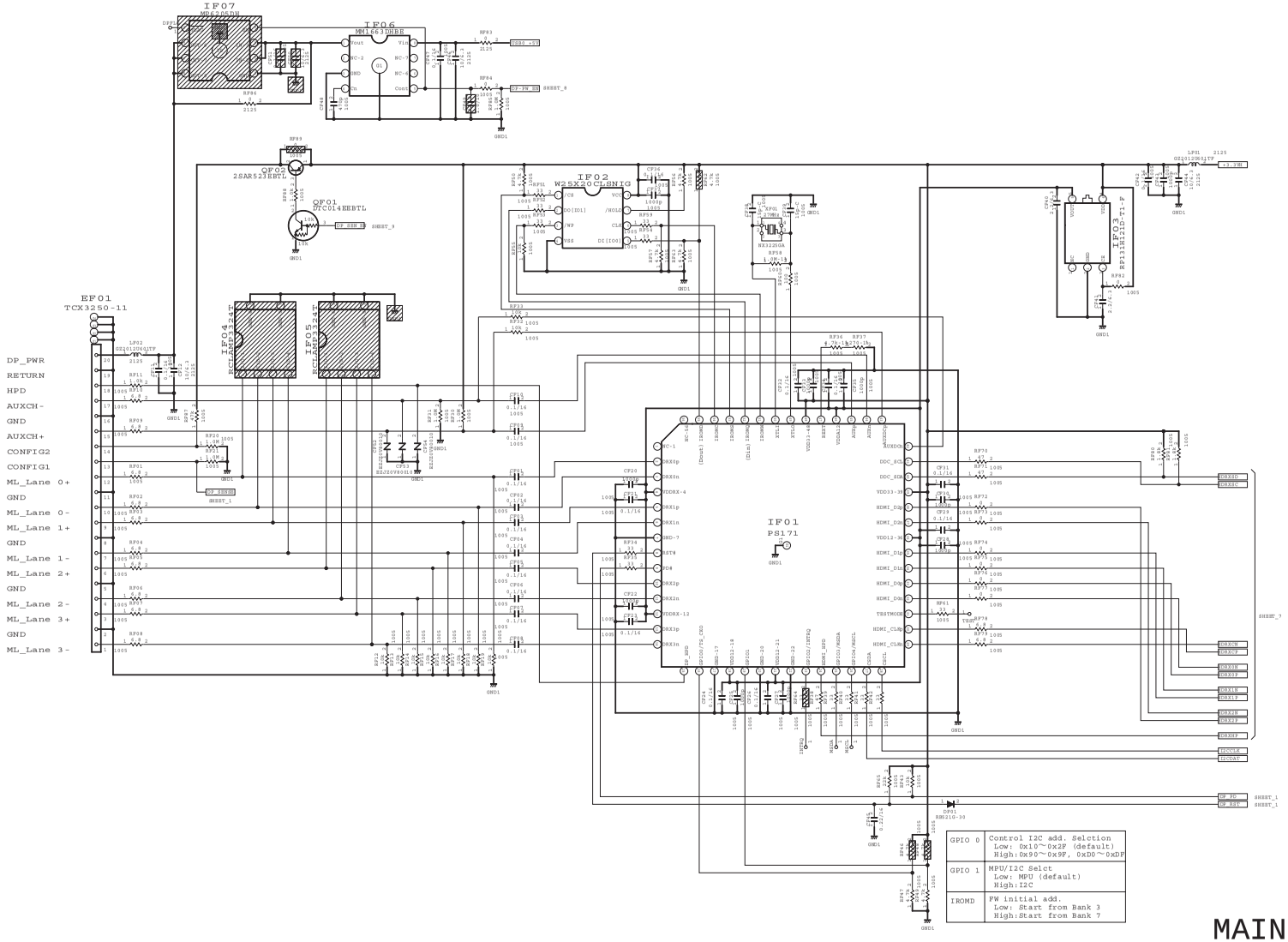
[LWU701i / LWU601i]



[LWU701i / LWU601i]

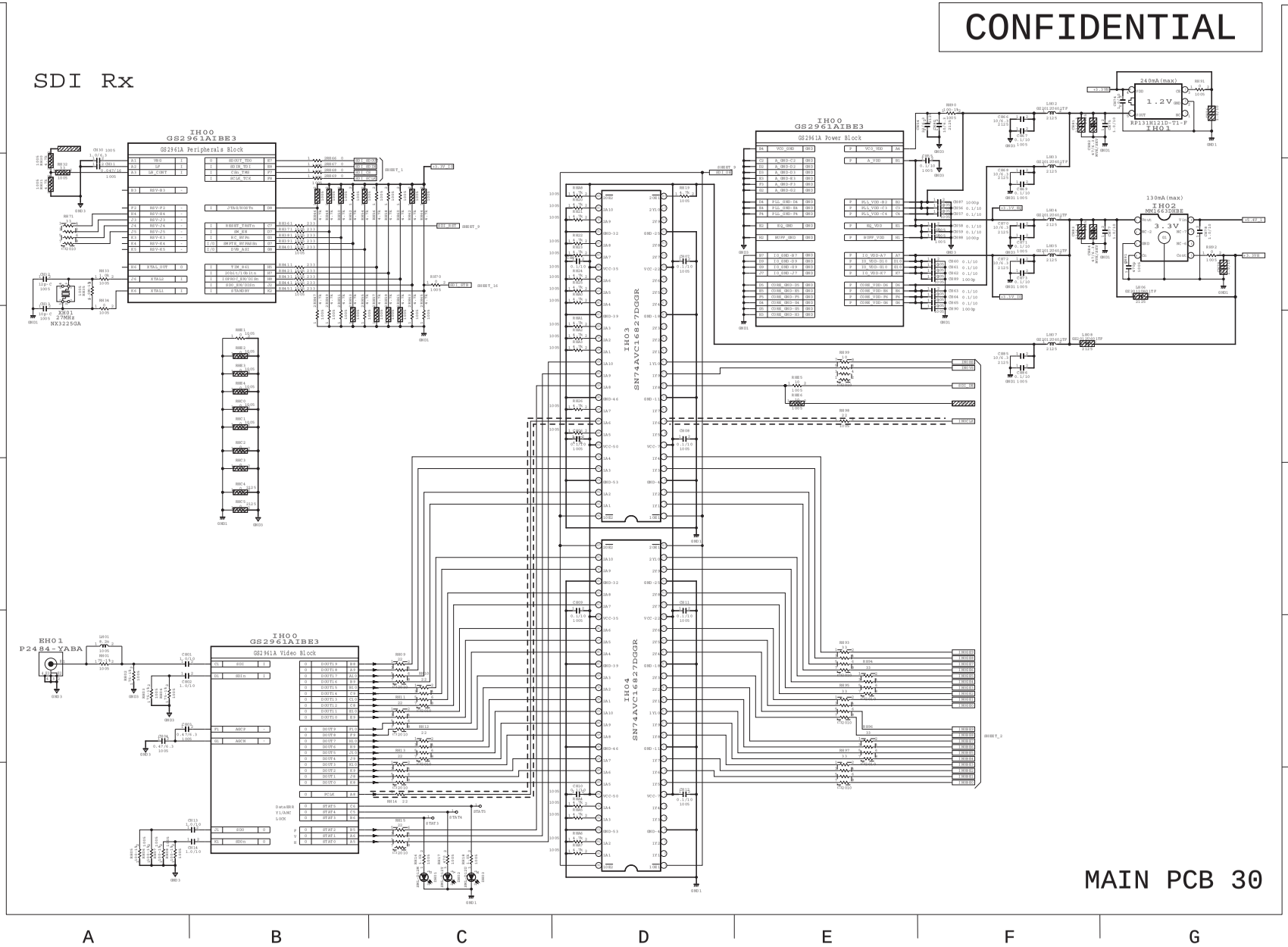
CONFIDENTIAL

DisplayPort

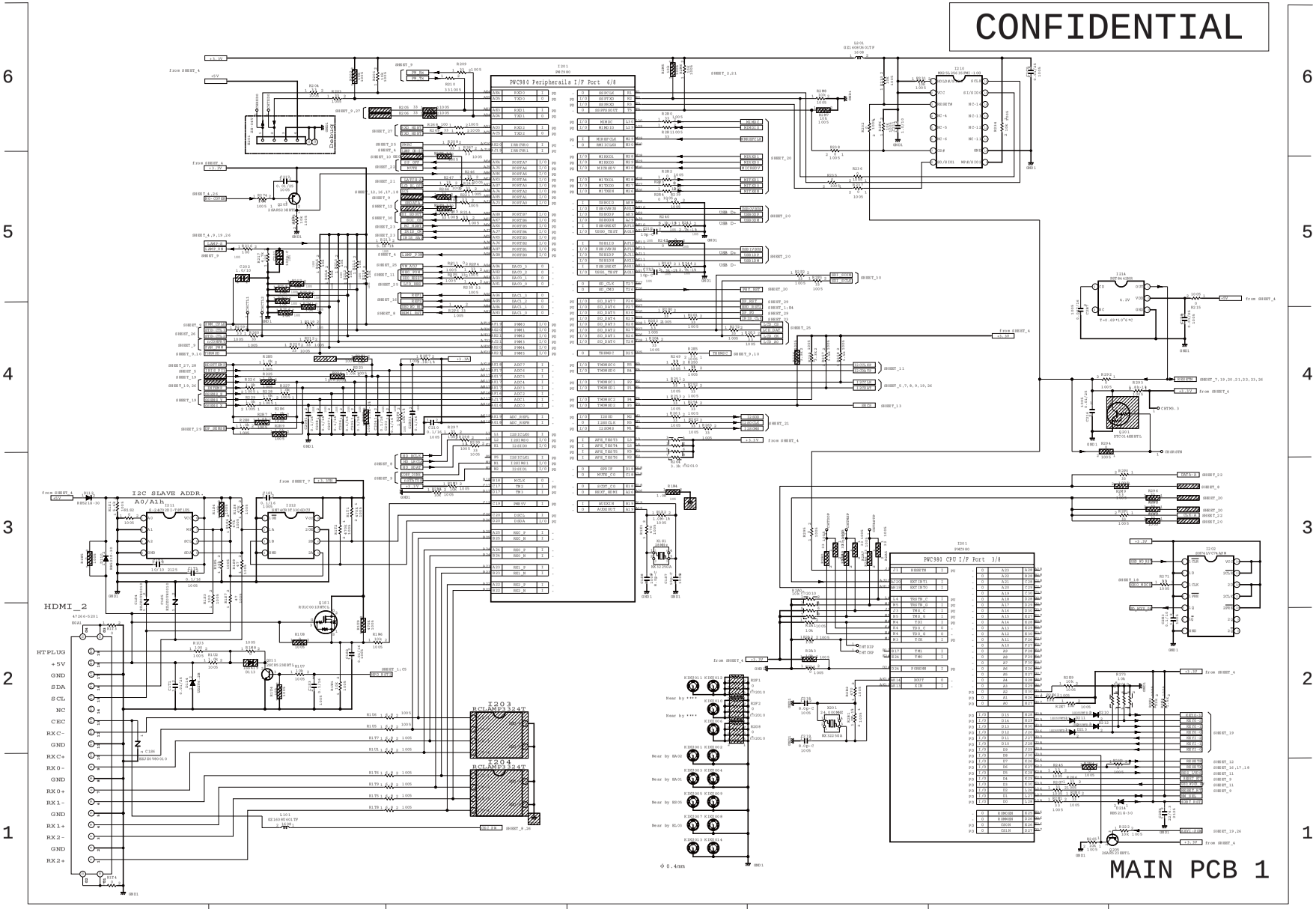


MAIN PCB 29

[LWU701i / LWU601i]



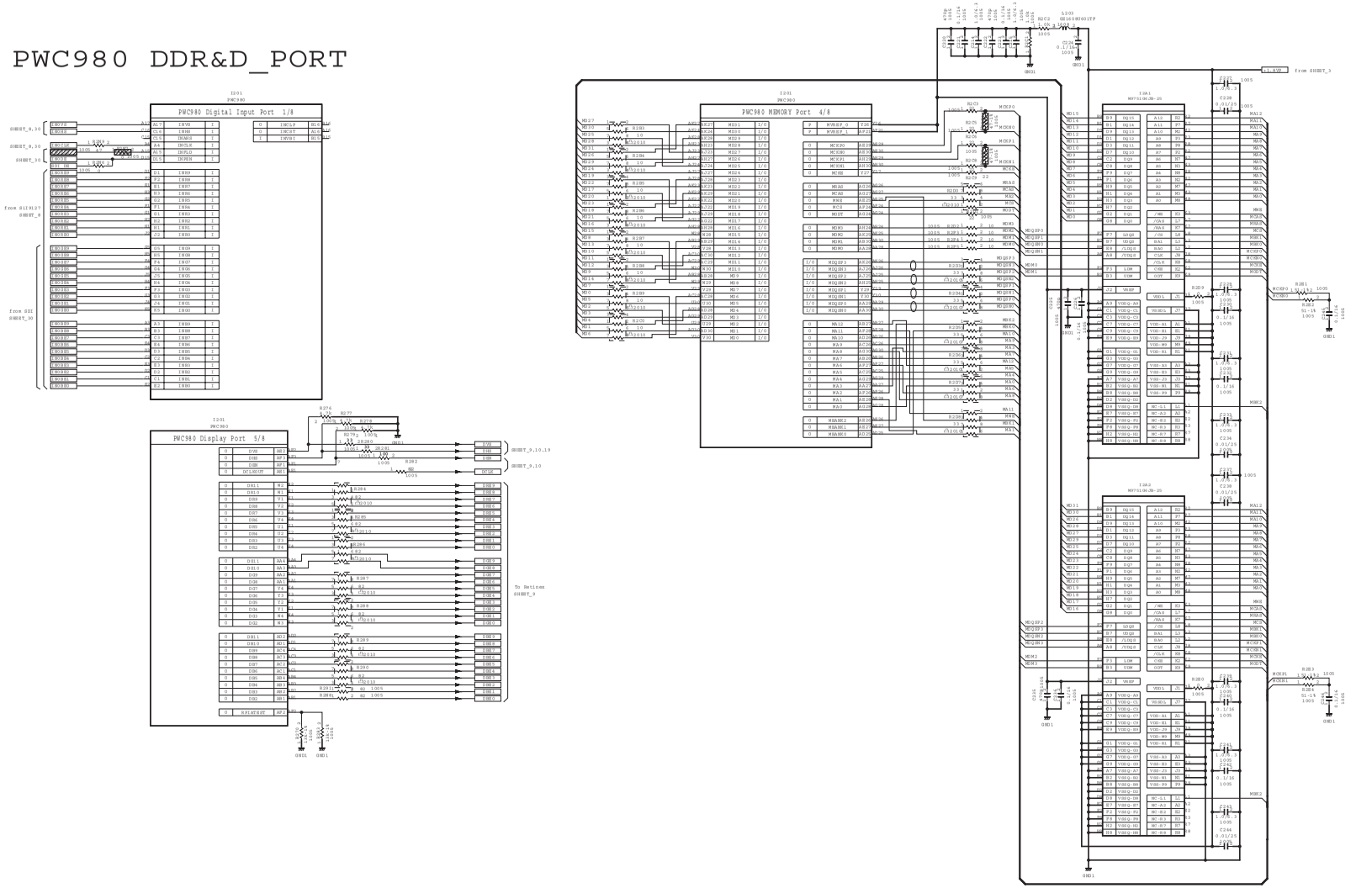
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

CONFIDENTIAL

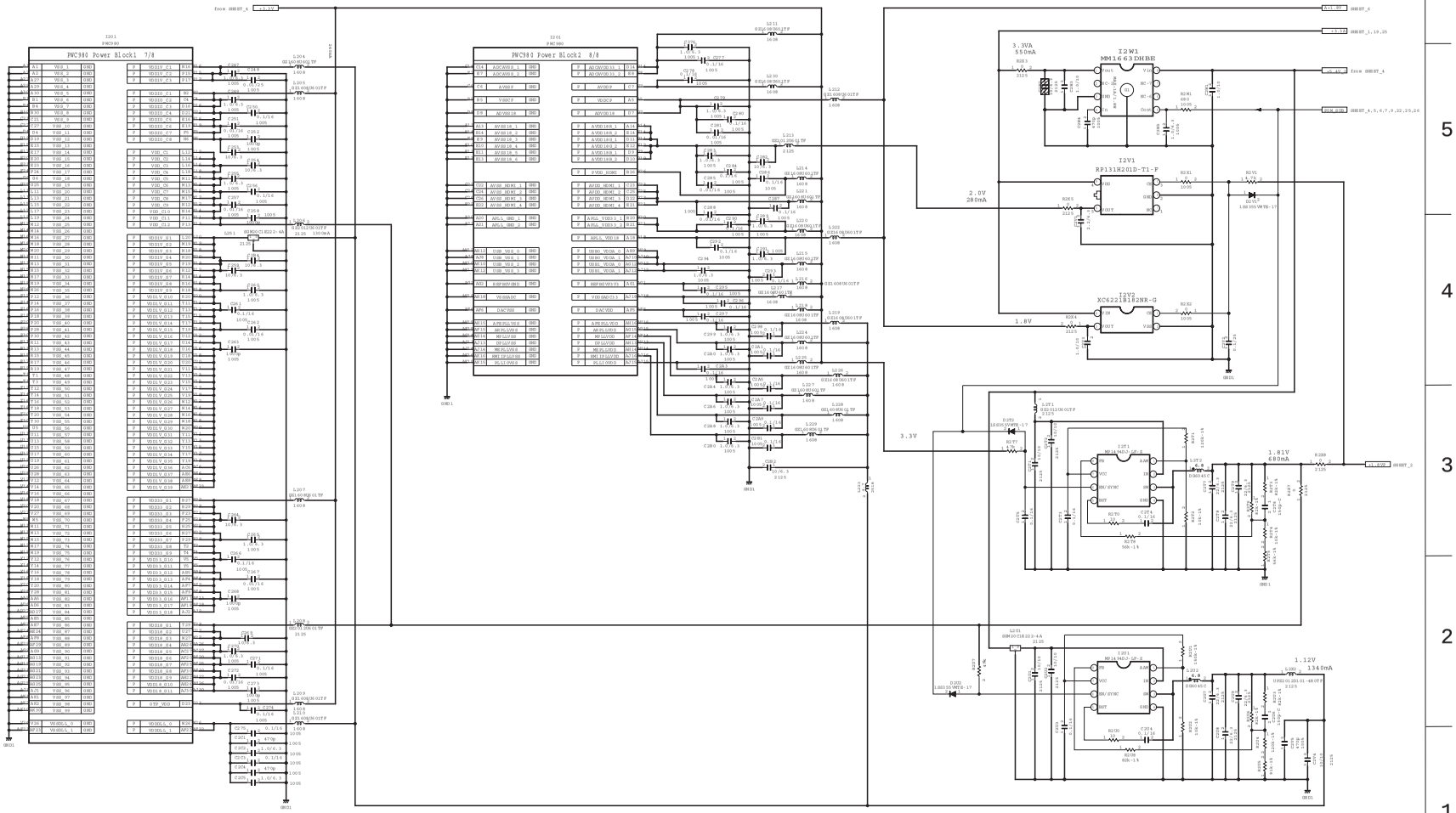
PWC980 DDR&D_PORT



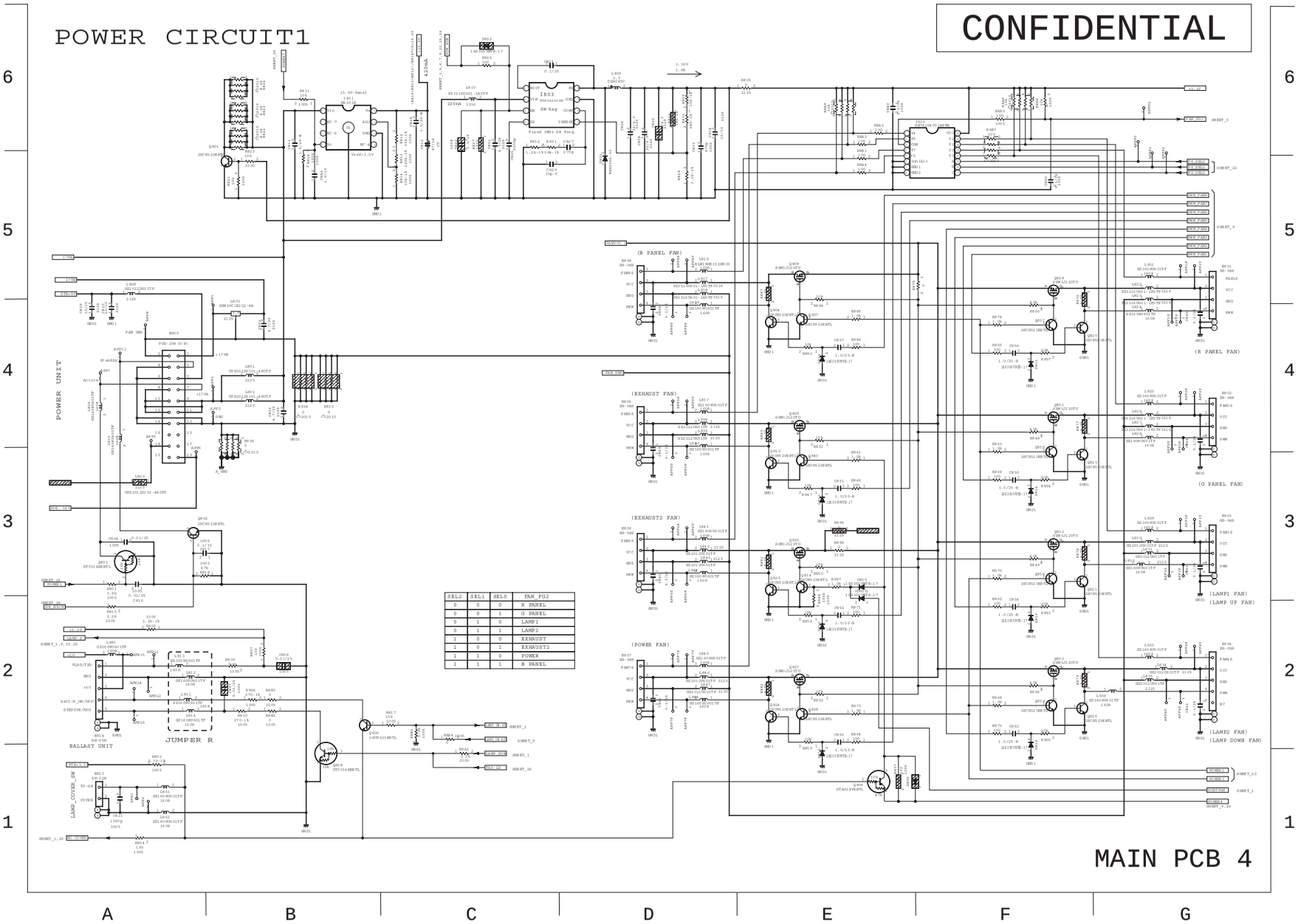
[LW751i / LW651i / LX801i]

CONFIDENTIAL

PWC980 POWER



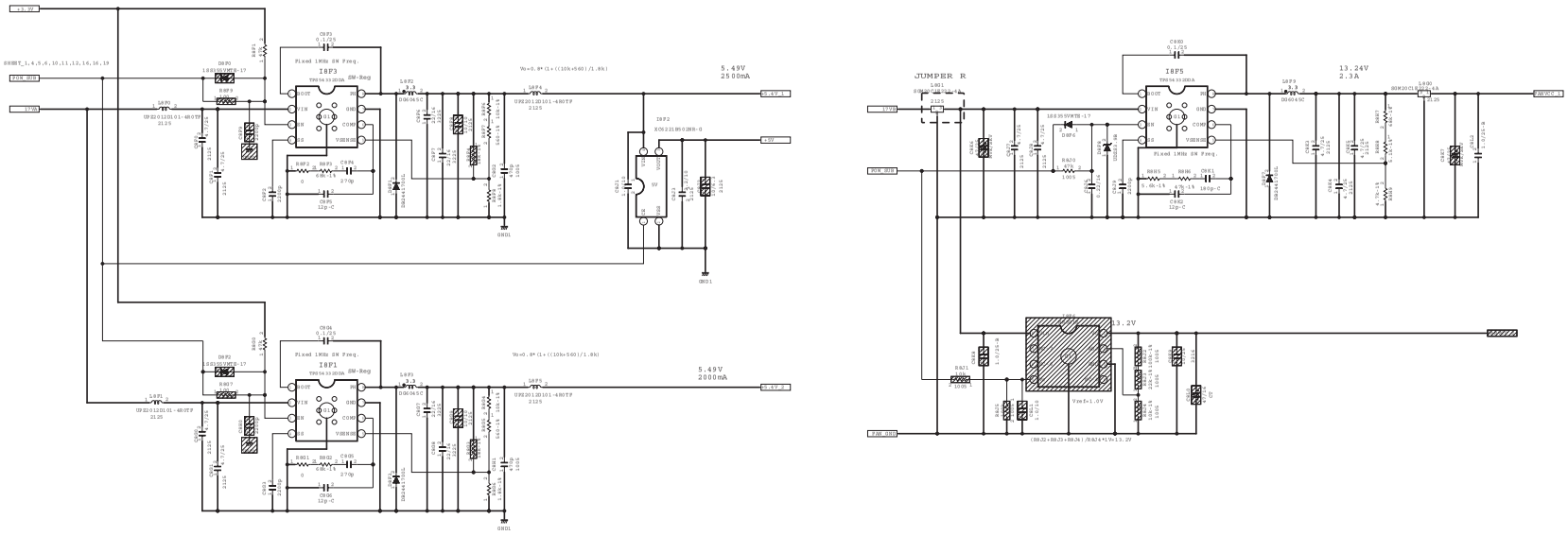
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

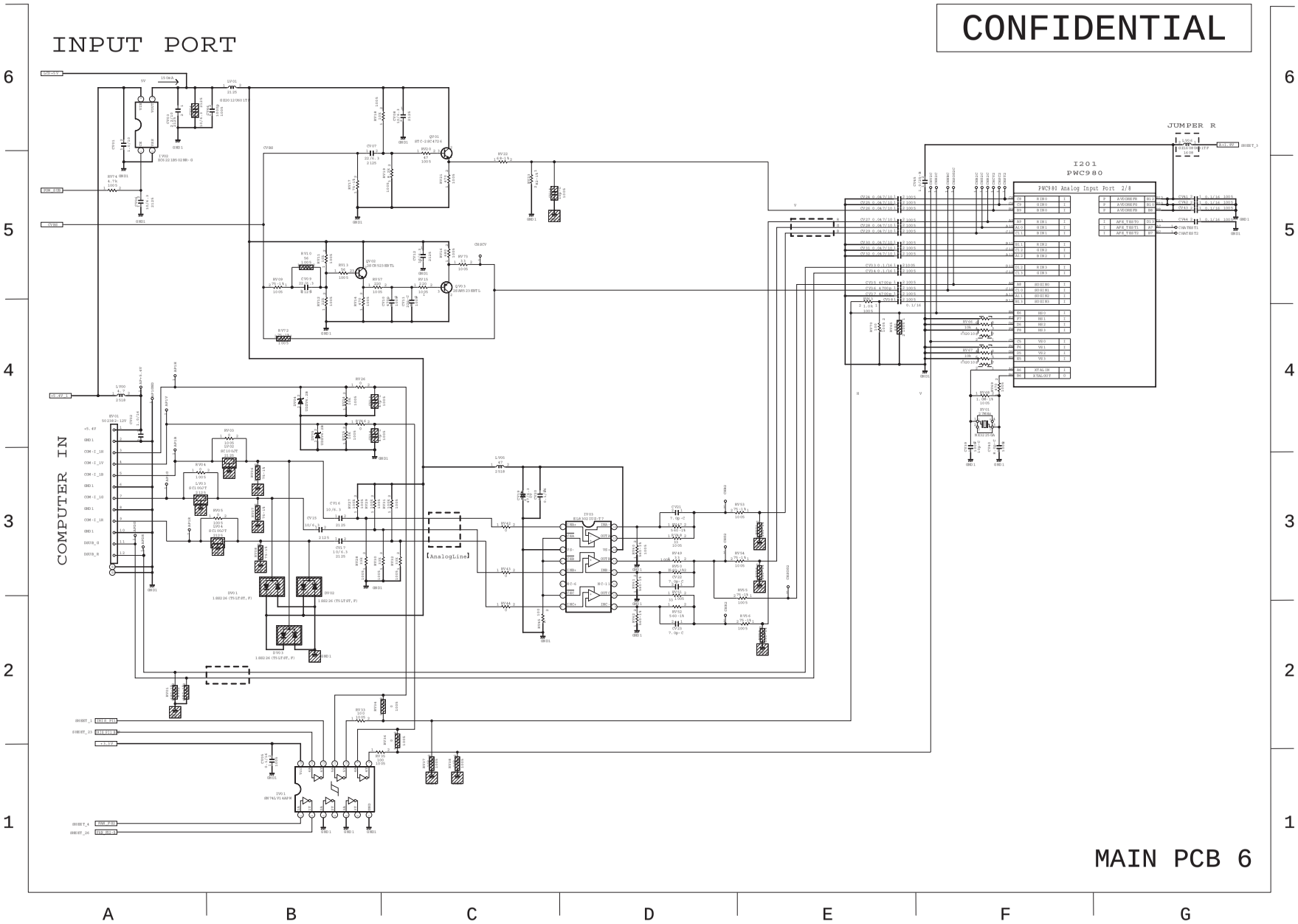
CONFIDENTIAL

POWER CIRCUIT2



MAIN PCB 5

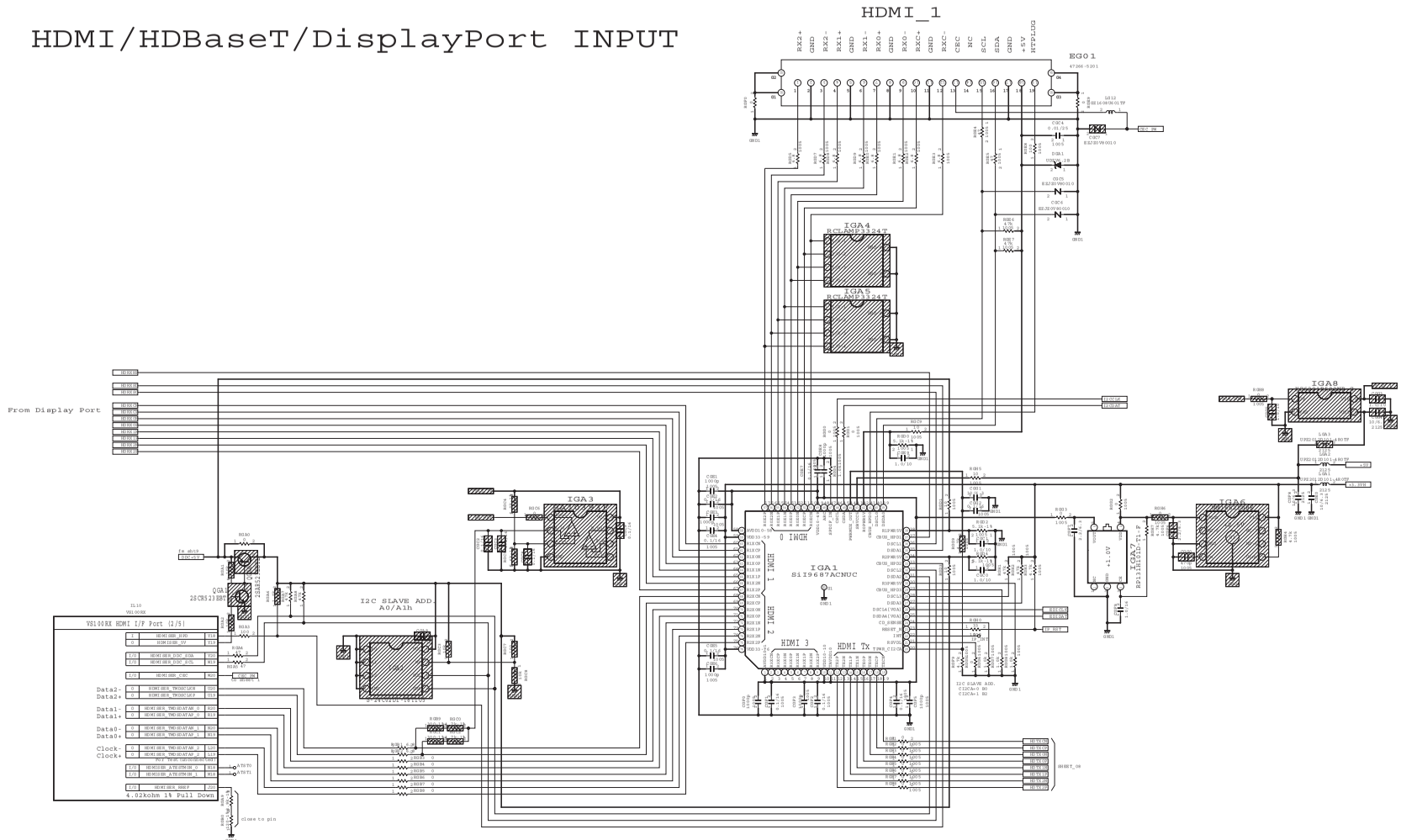
[LW751i / LW651i / LX801i]



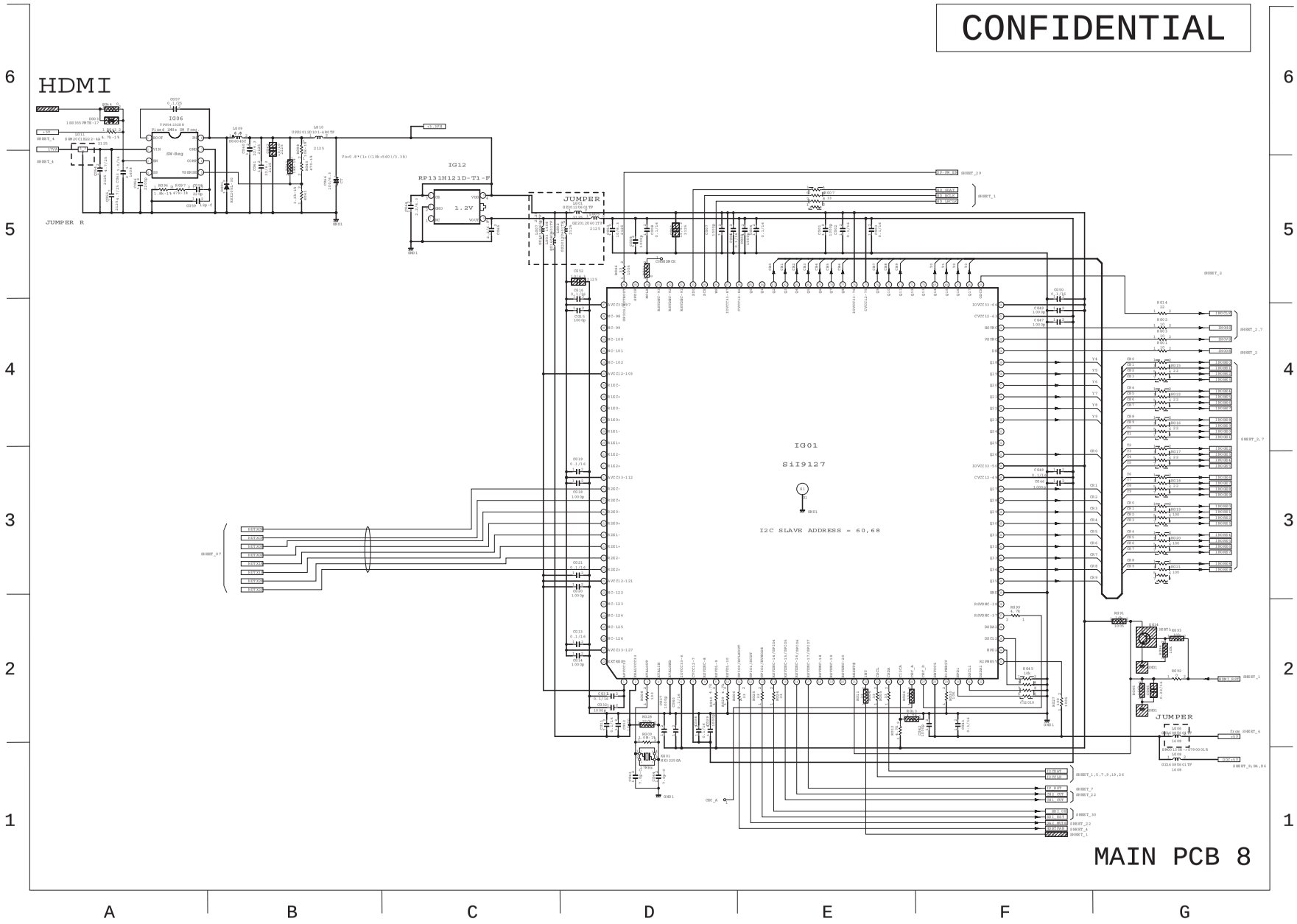
[LW751i / LW651i / LX801i]

CONFIDENTIAL

HDMI/HDBaseT/DisplayPort INPUT



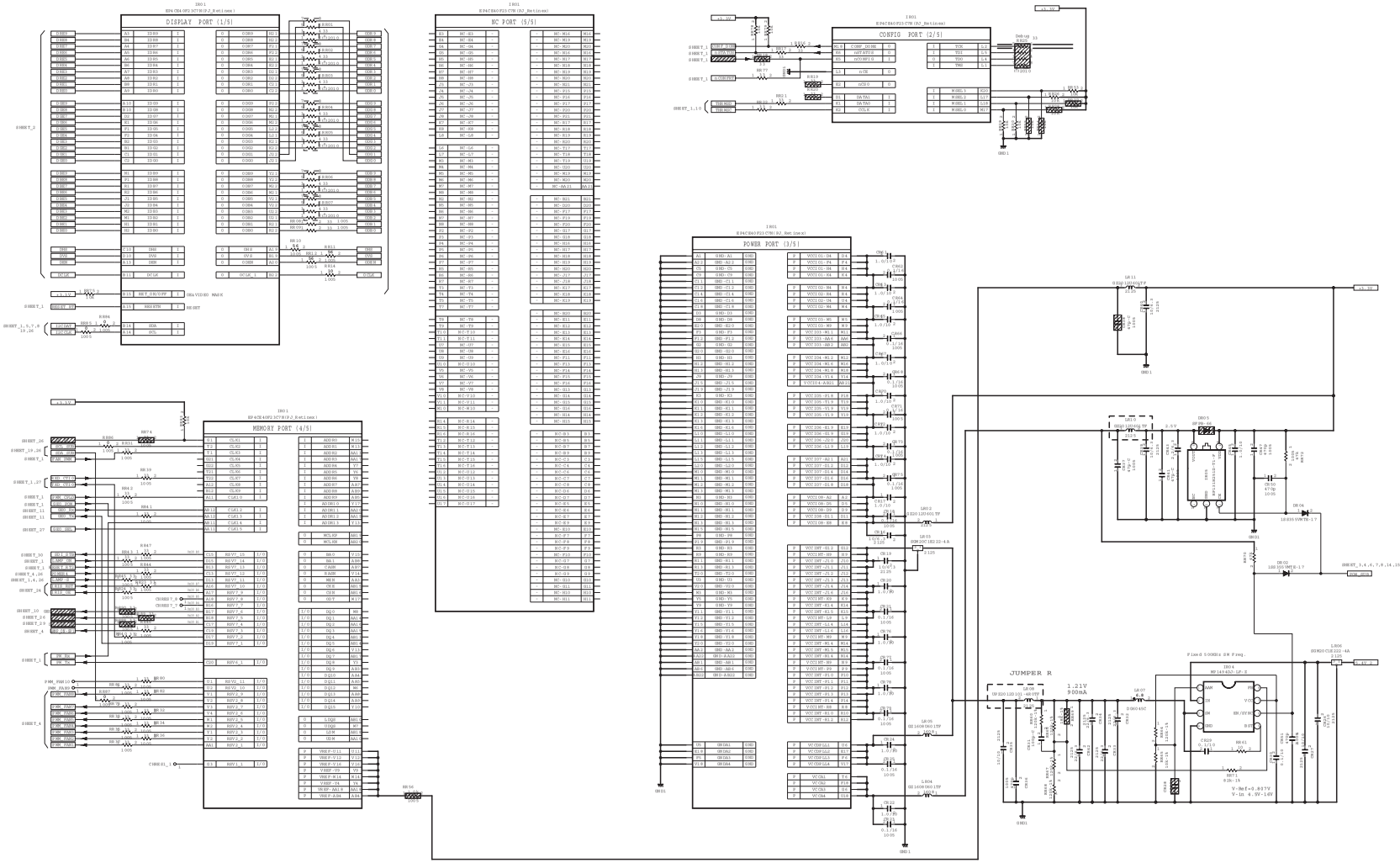
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

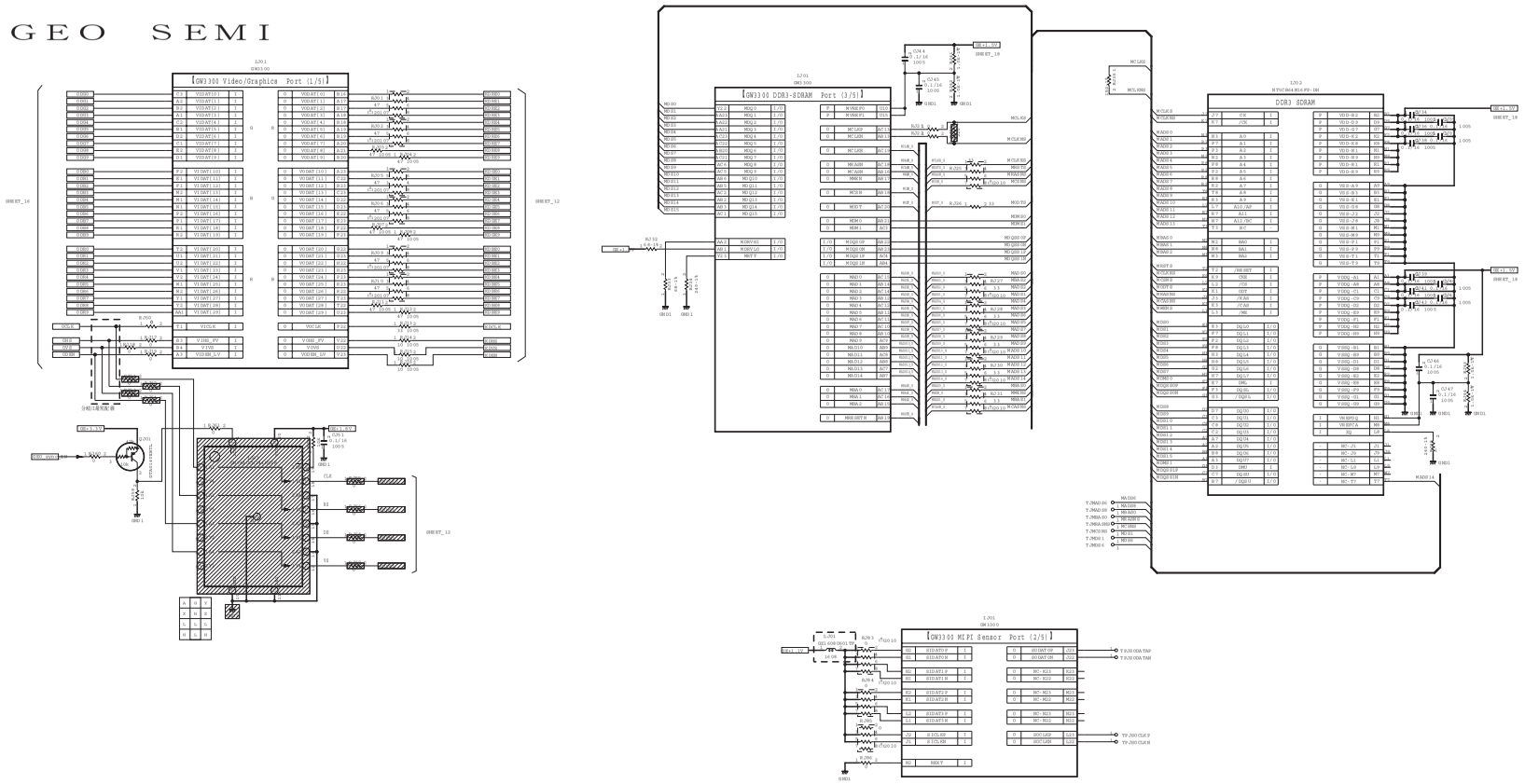
CONFIDENTIAL

RETINEX/Color Management



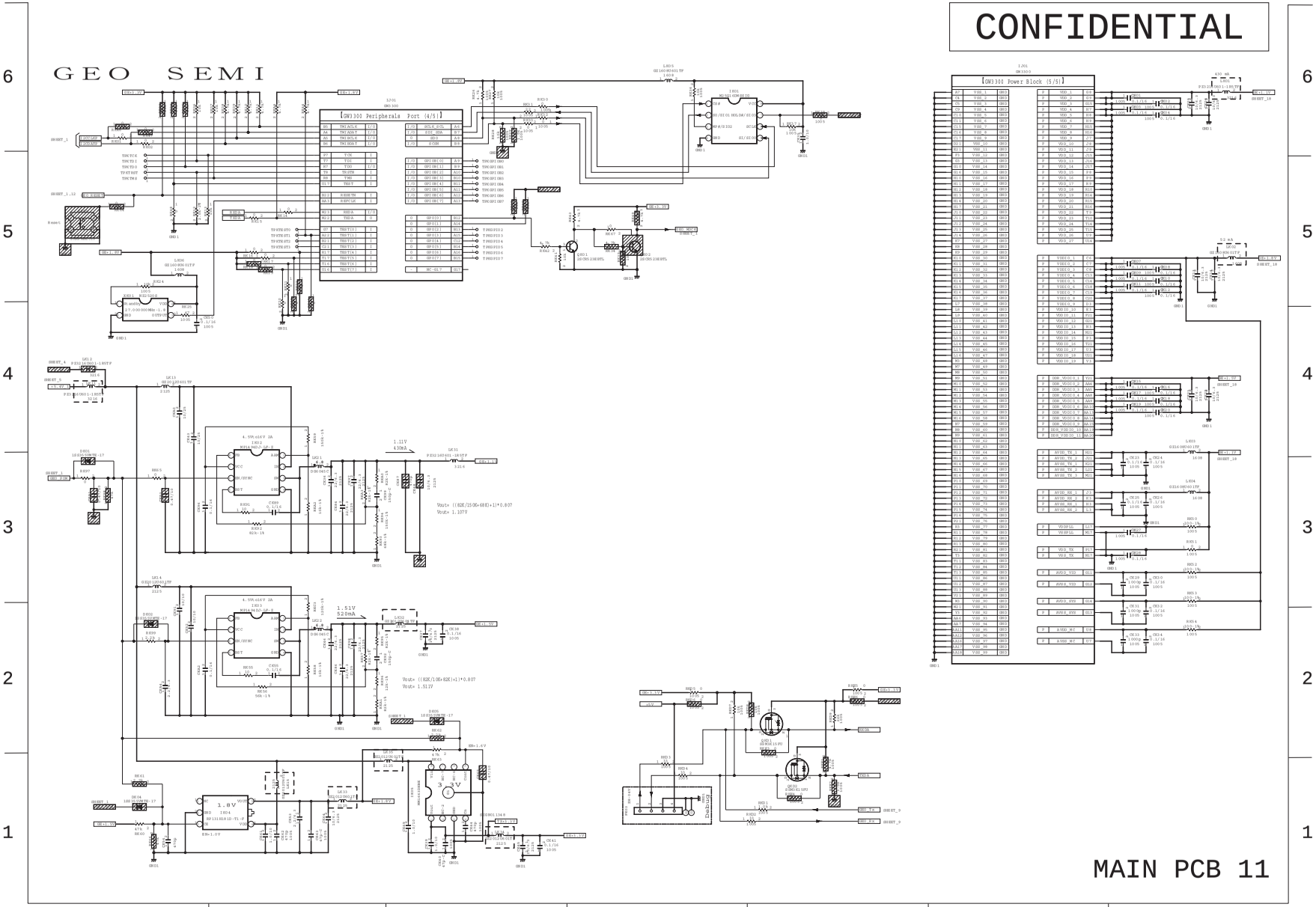
[LW751i / LW651i / LX801i]

CONFIDENTIAL

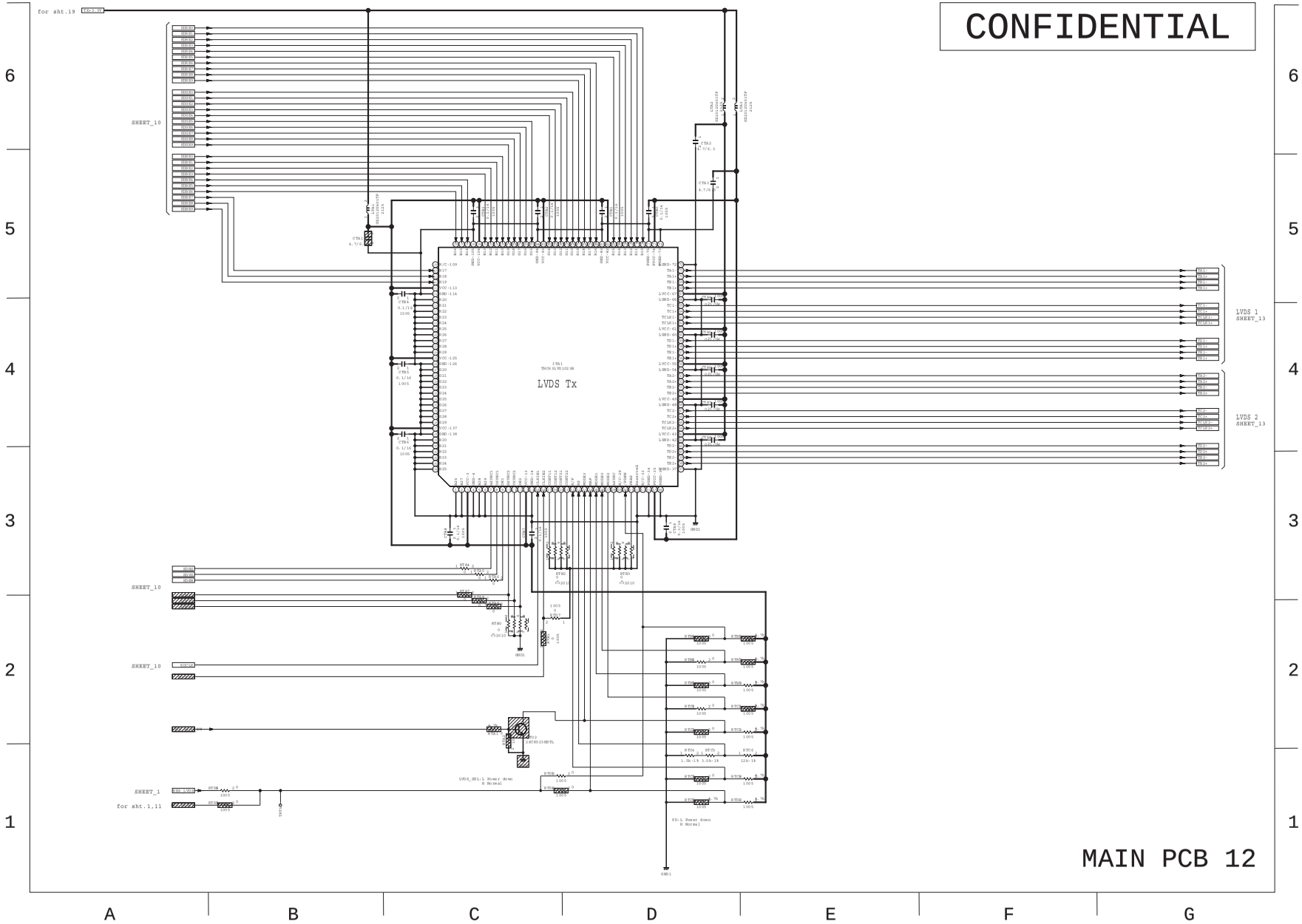


MAIN PCB 10

[LW751i / LW651i / LX801i]



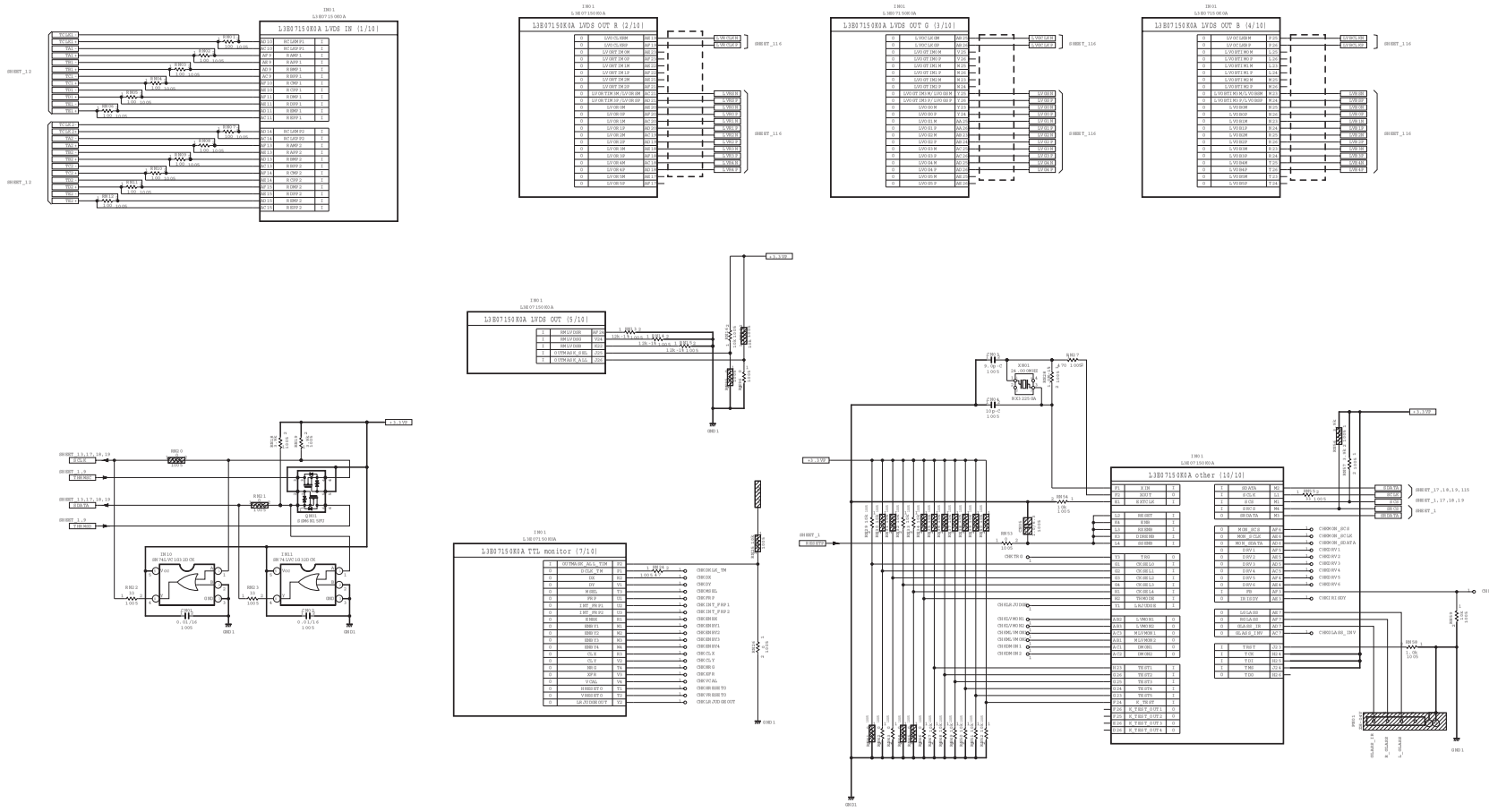
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

CONFIDENTIAL

TG INPUT/OUTPUT

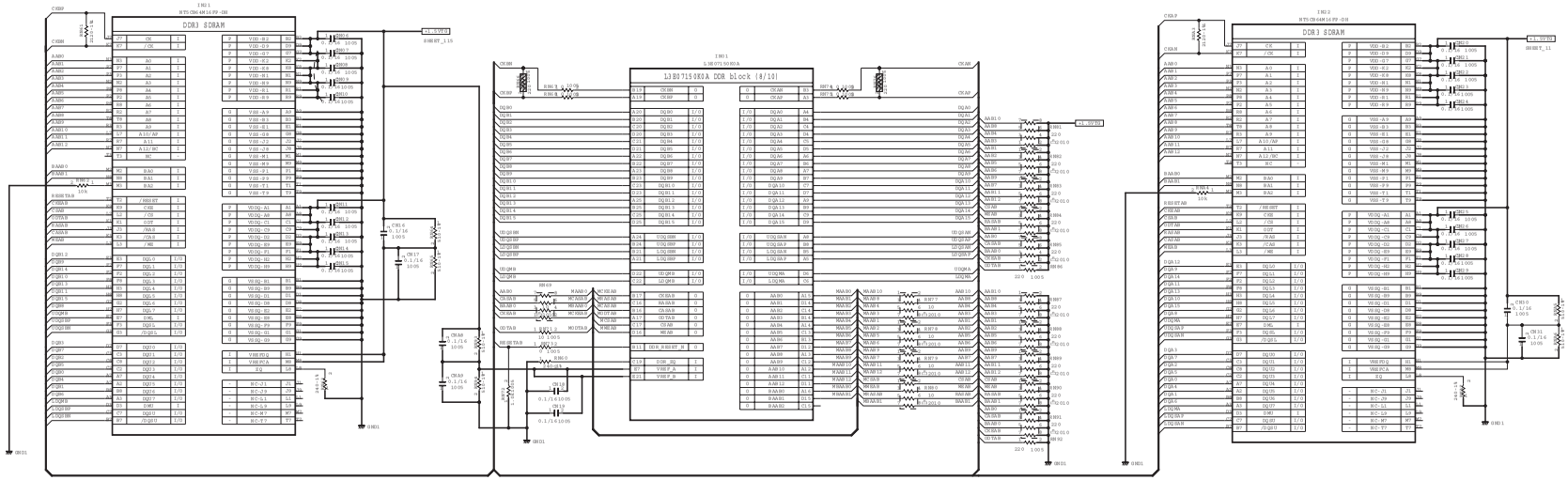


MAIN PCB 13

[LW751i / LW651i / LX801i]

CONFIDENTIAL

TG DDR3

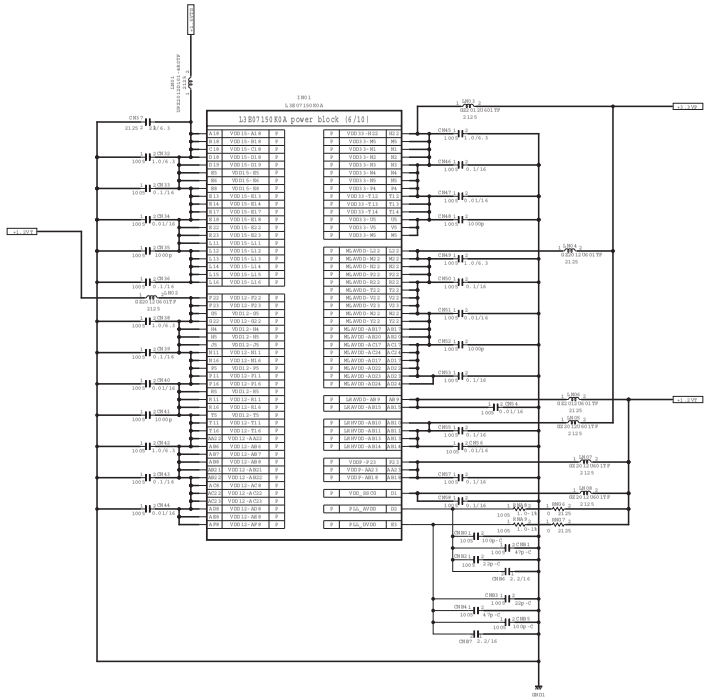


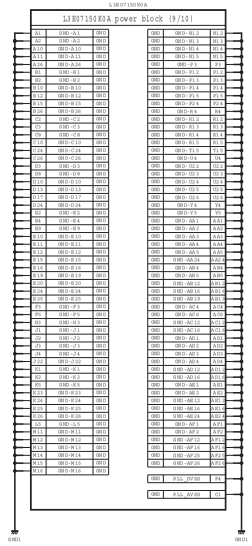
MAIN PCB 14

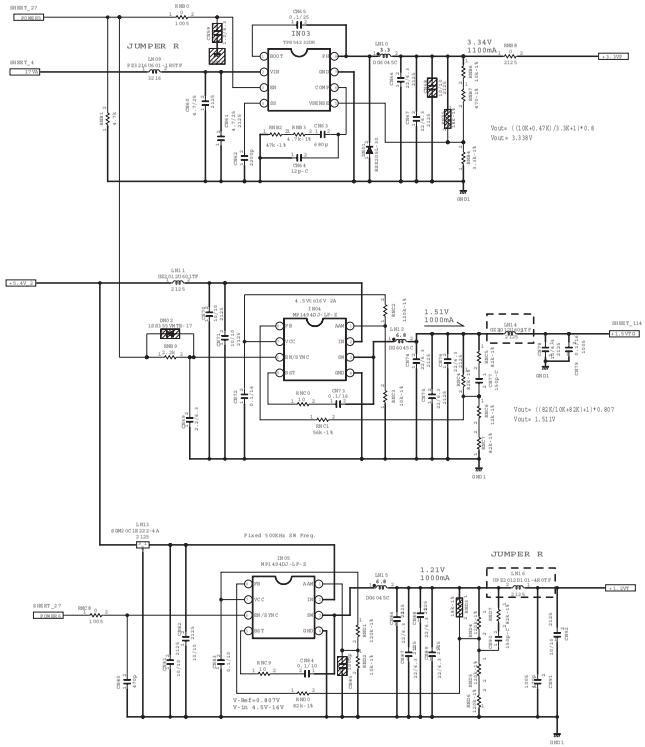
[LW751i / LW651i / LX801i]

CONFIDENTIAL

TG POWER





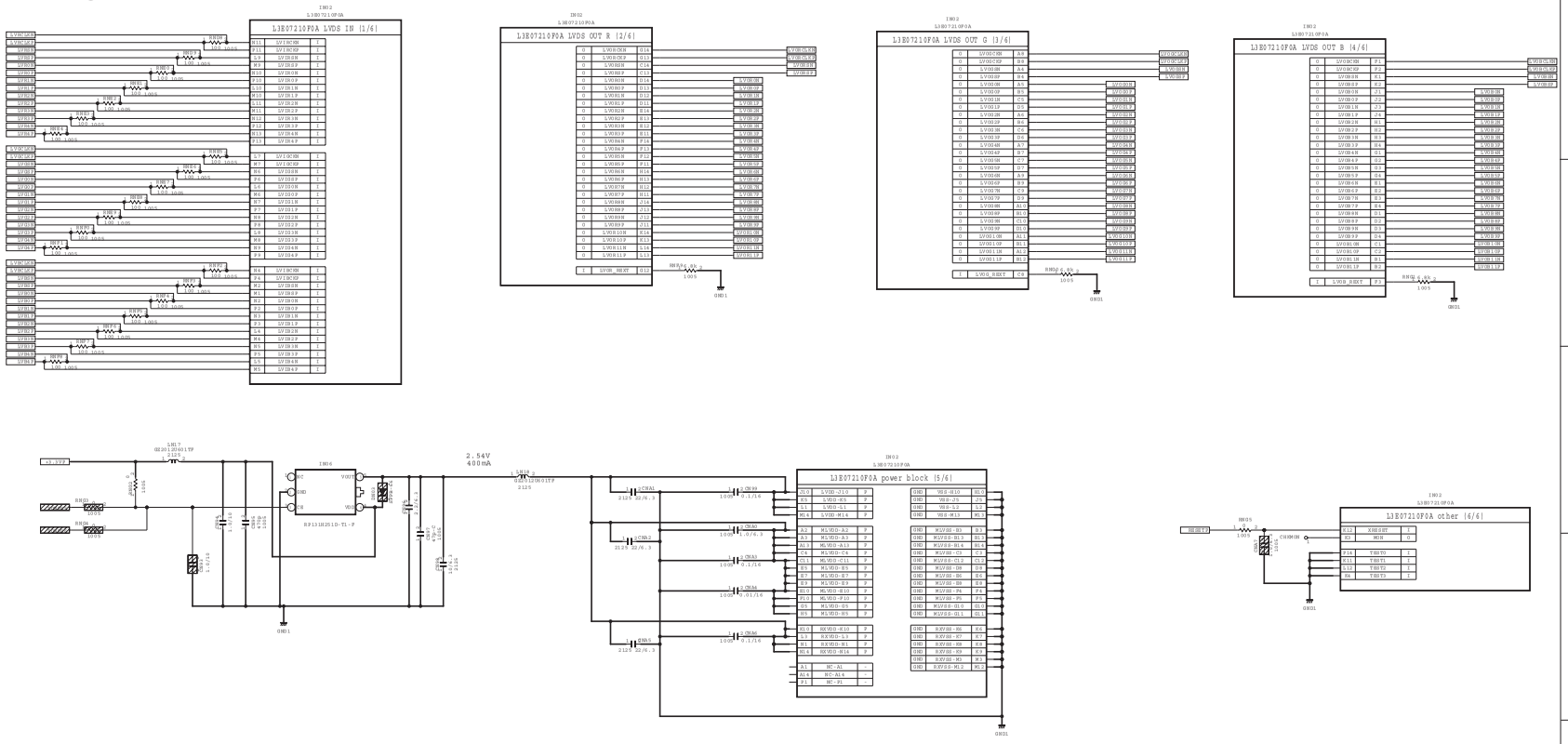


MAIN PCB 15

[LW751i / LW651i / LX801i]

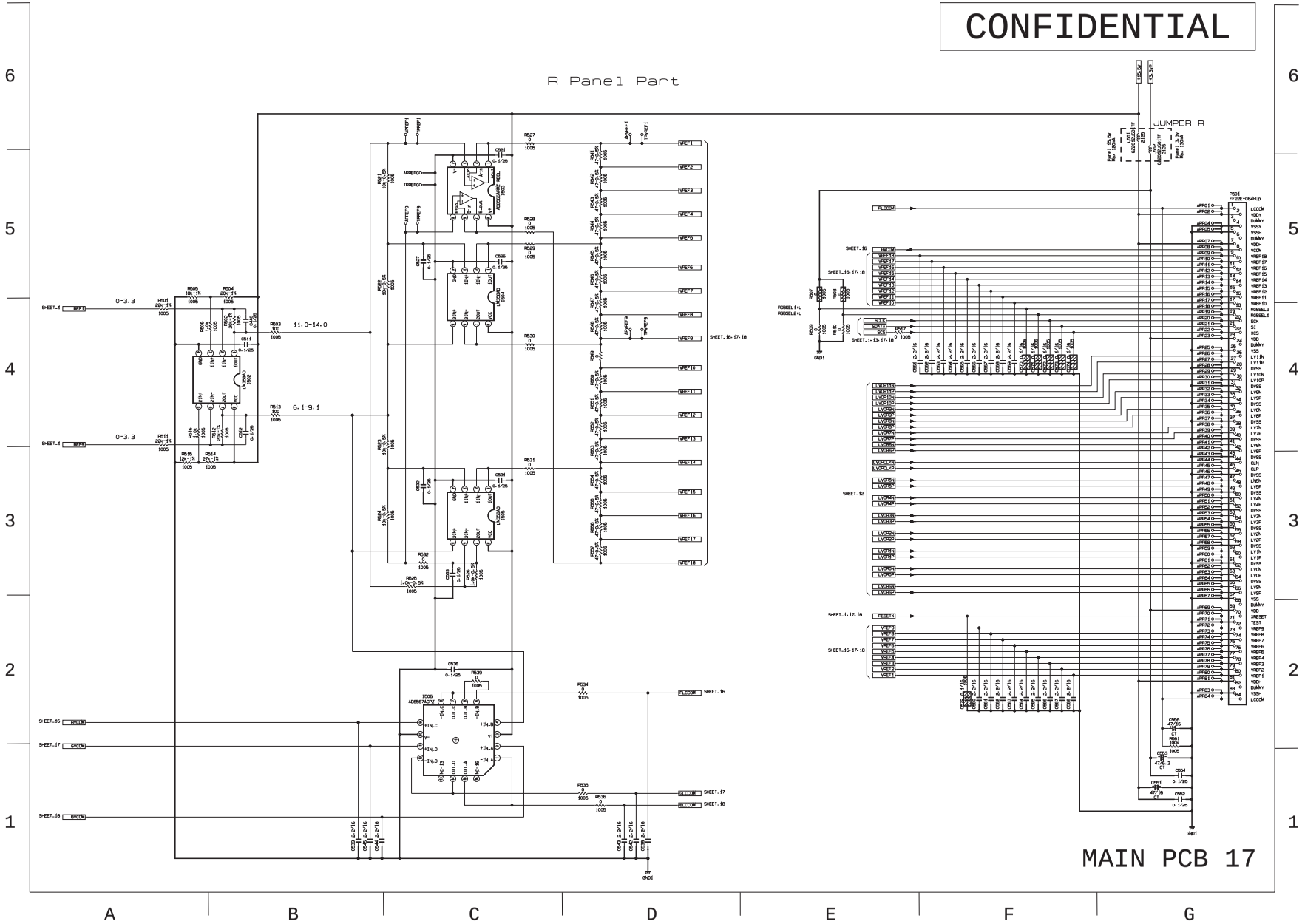
CONFIDENTIAL

7210

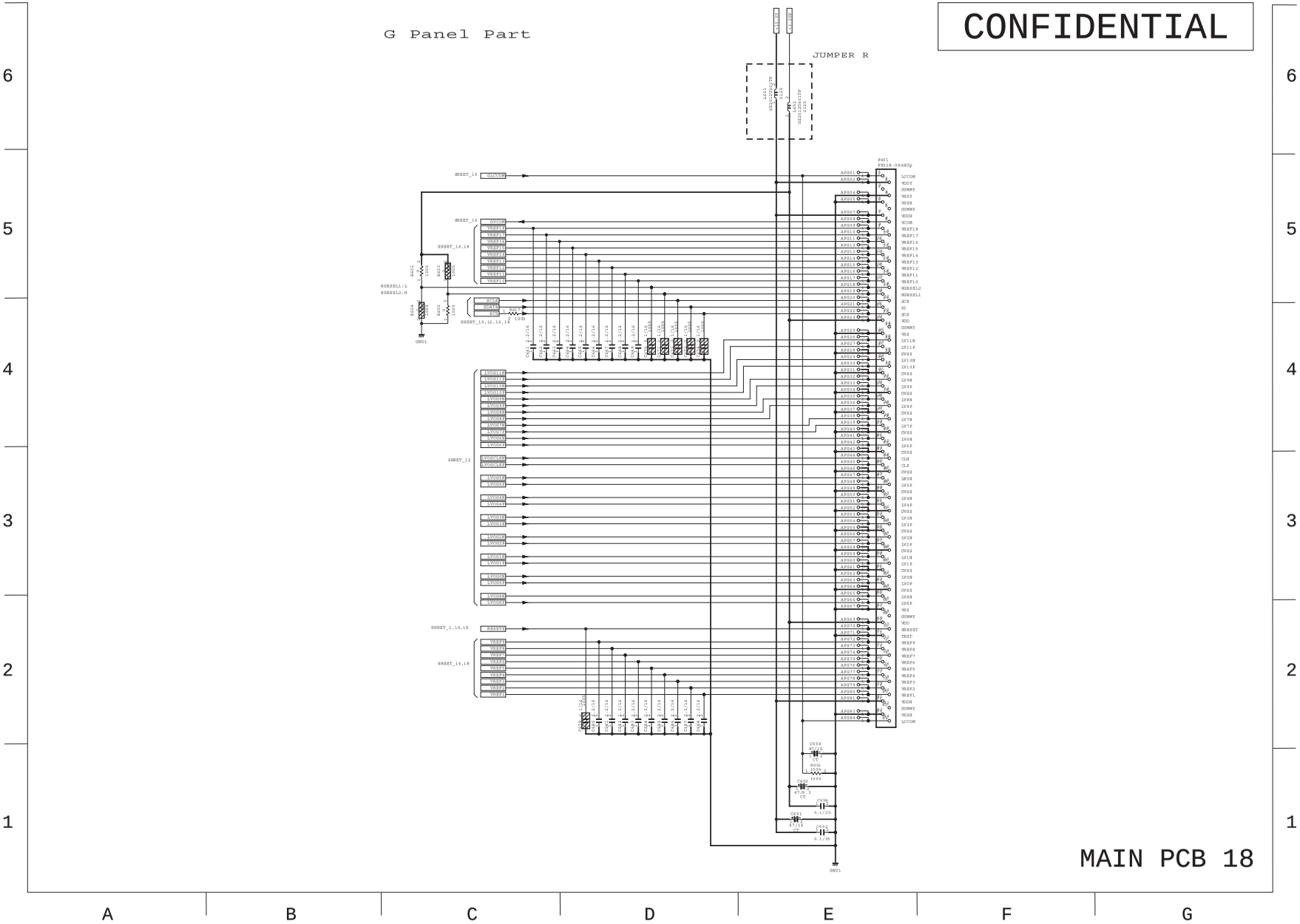


MAIN PCB 16

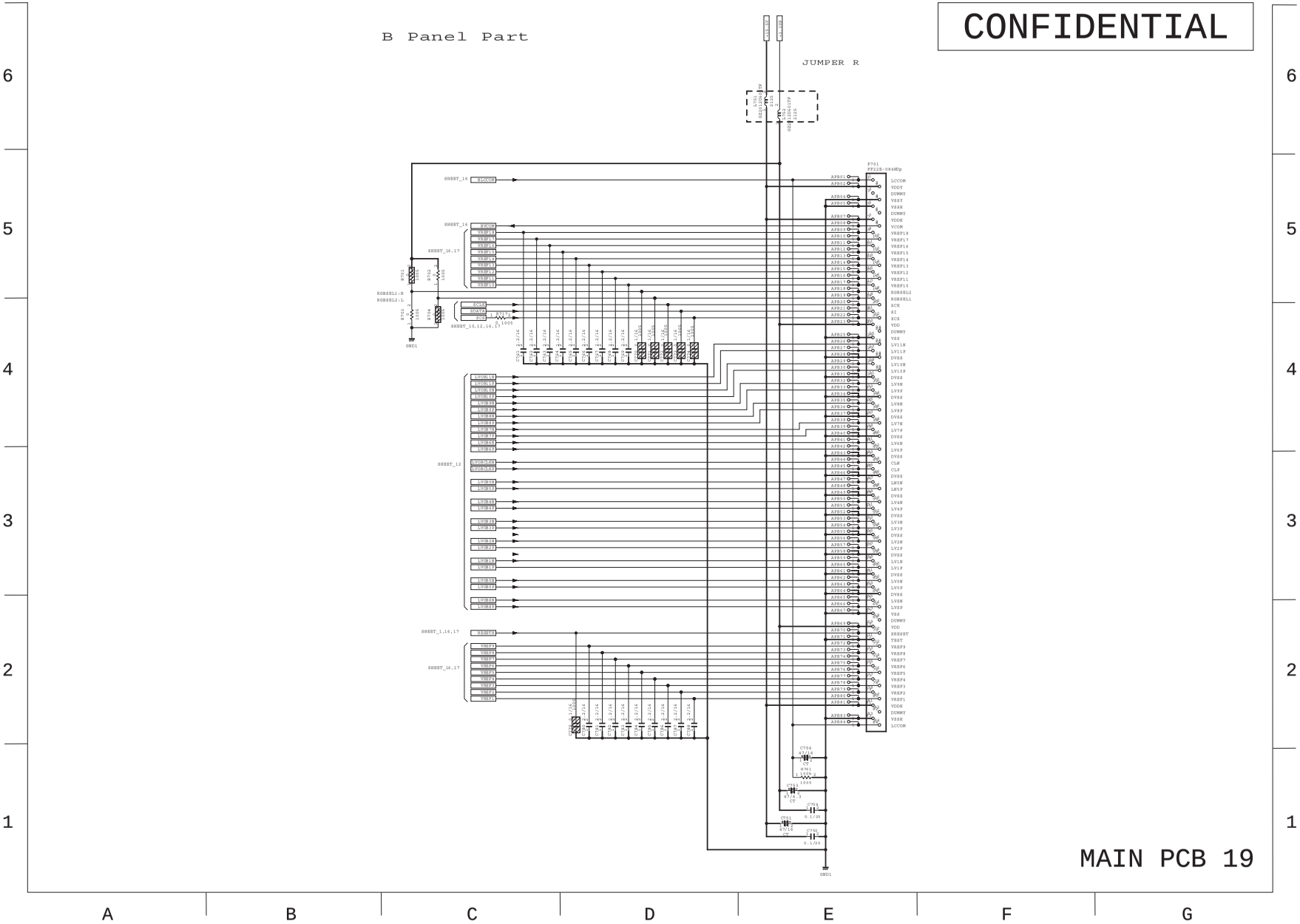
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]



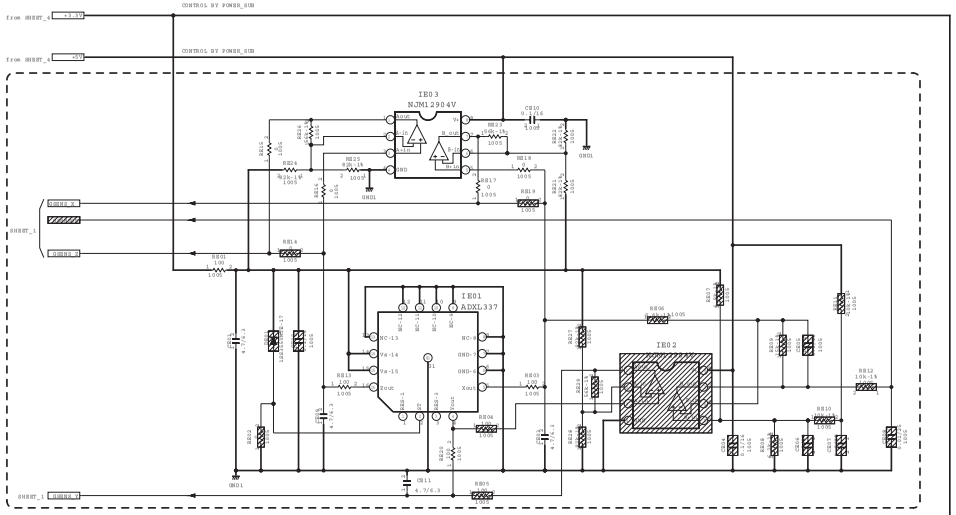
[LW751i / LW651i / LX801i]

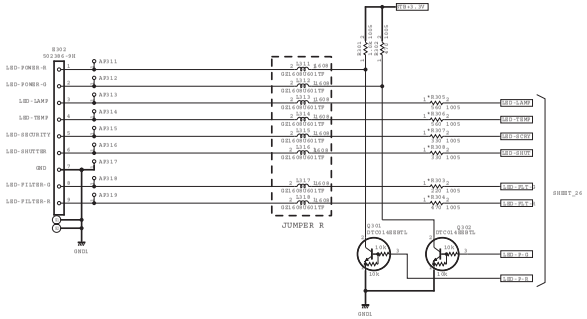


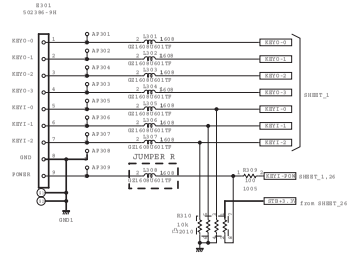
[LW751i / LW651i / LX801i]

CONFIDENTIAL

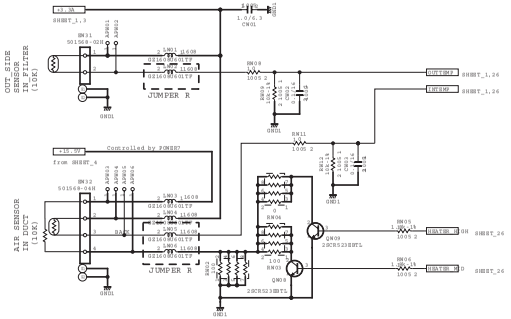
G SENSOR/P SENSOR/PLD/RTC



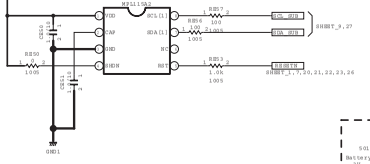




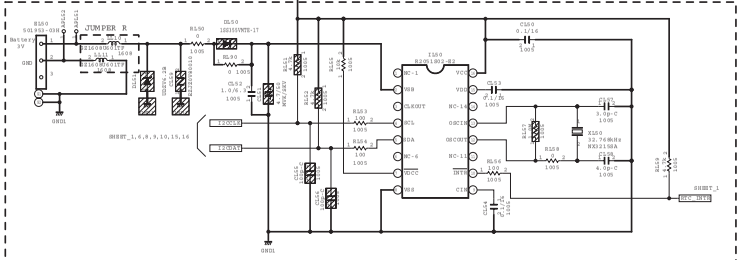
TEMP./FILTER SENSOR



P SENSOR



RTC

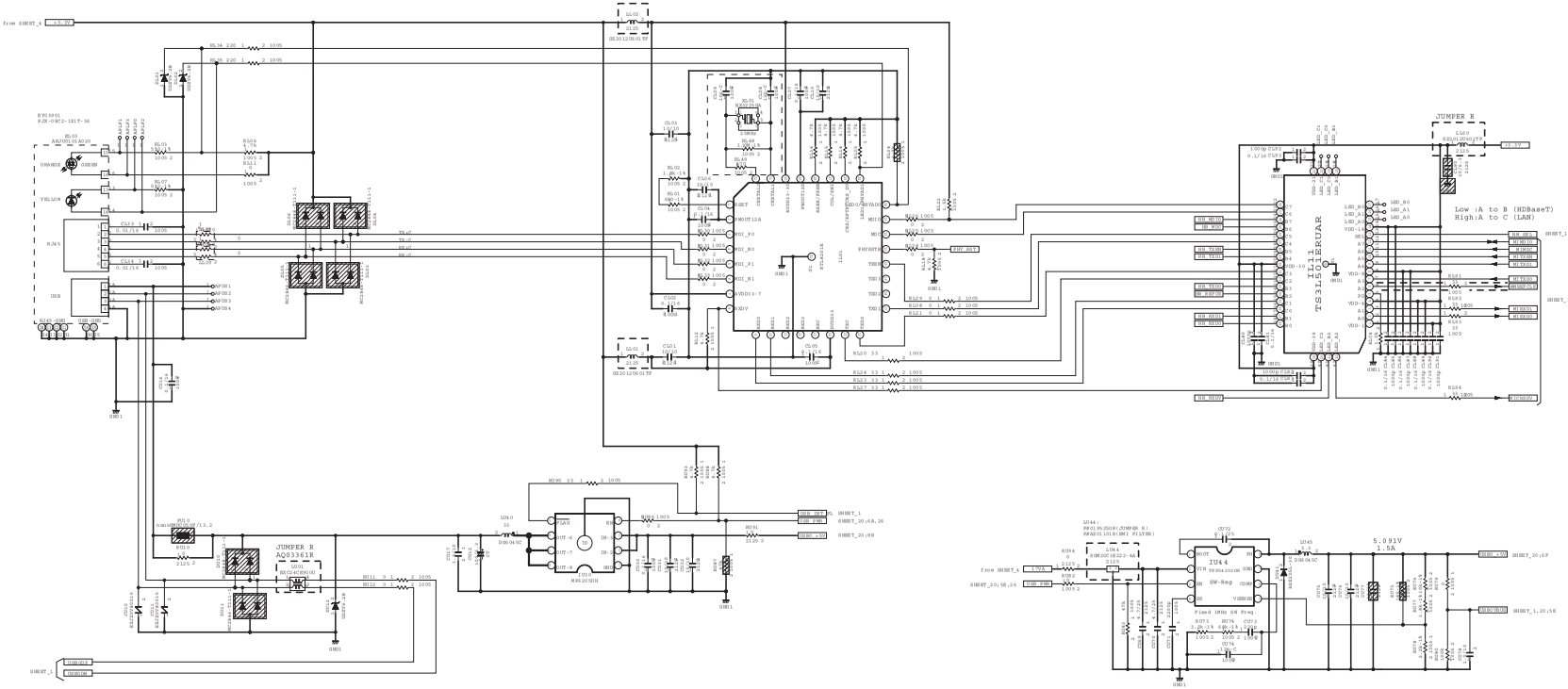


MAIN PCB 20

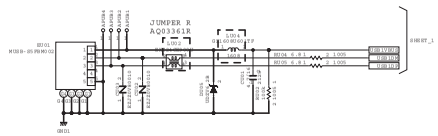
[LW751i / LW651i / LX801i]

CONFIDENTIAL

LAN/USB



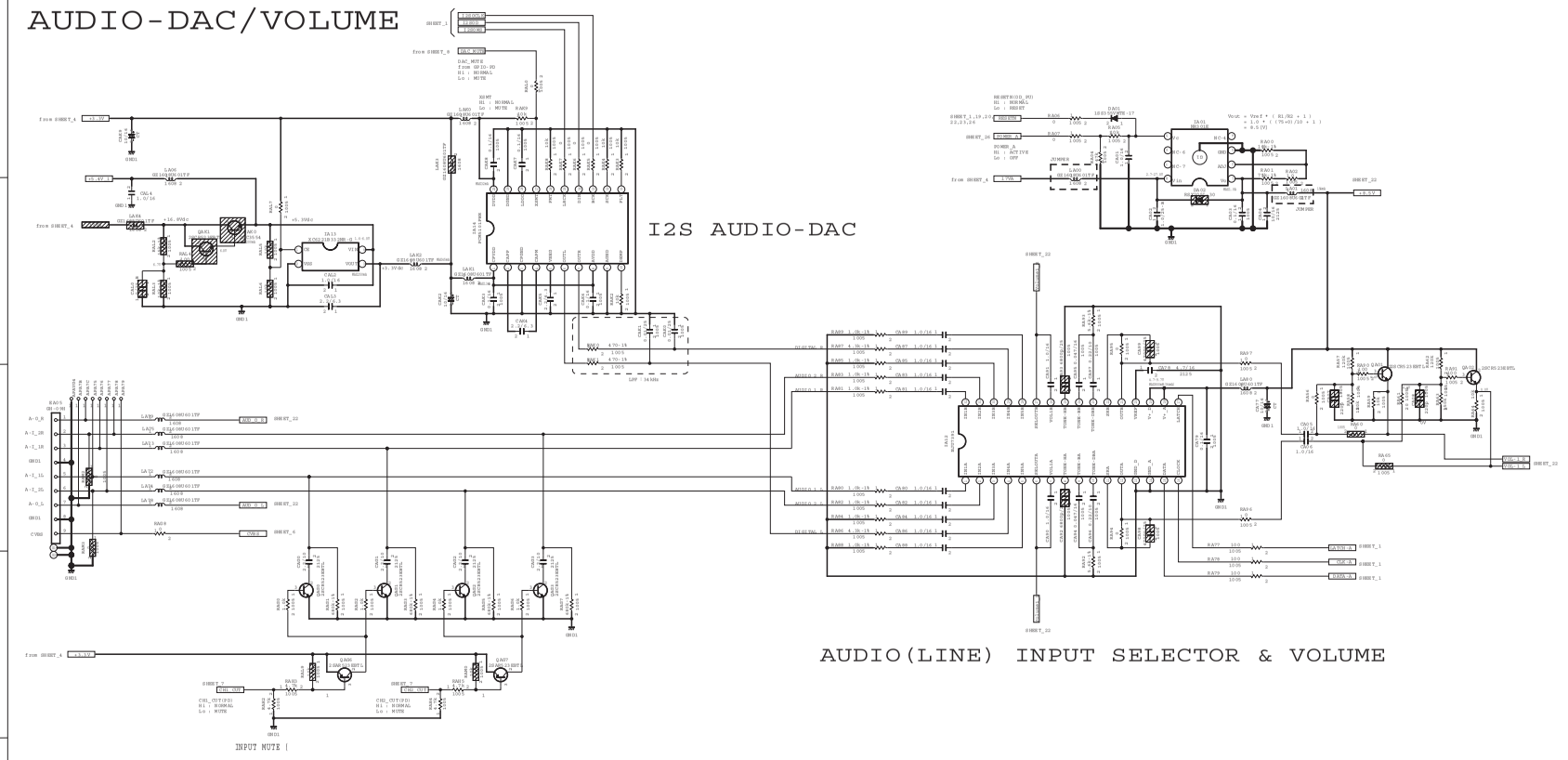
M_USB-B



MAIN PCB 21

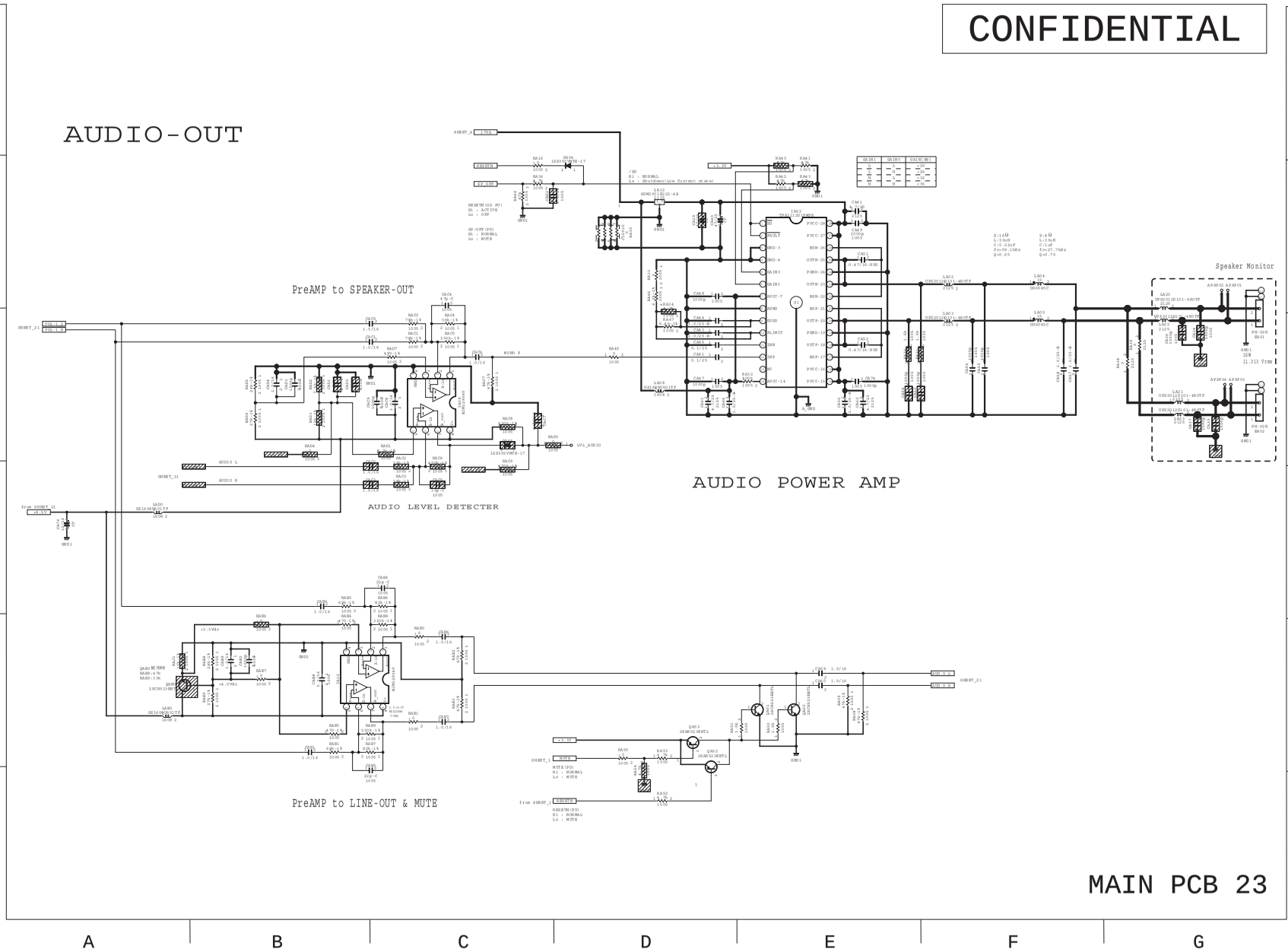
[LW751i / LW651i / LX801i]

CONFIDENTIAL

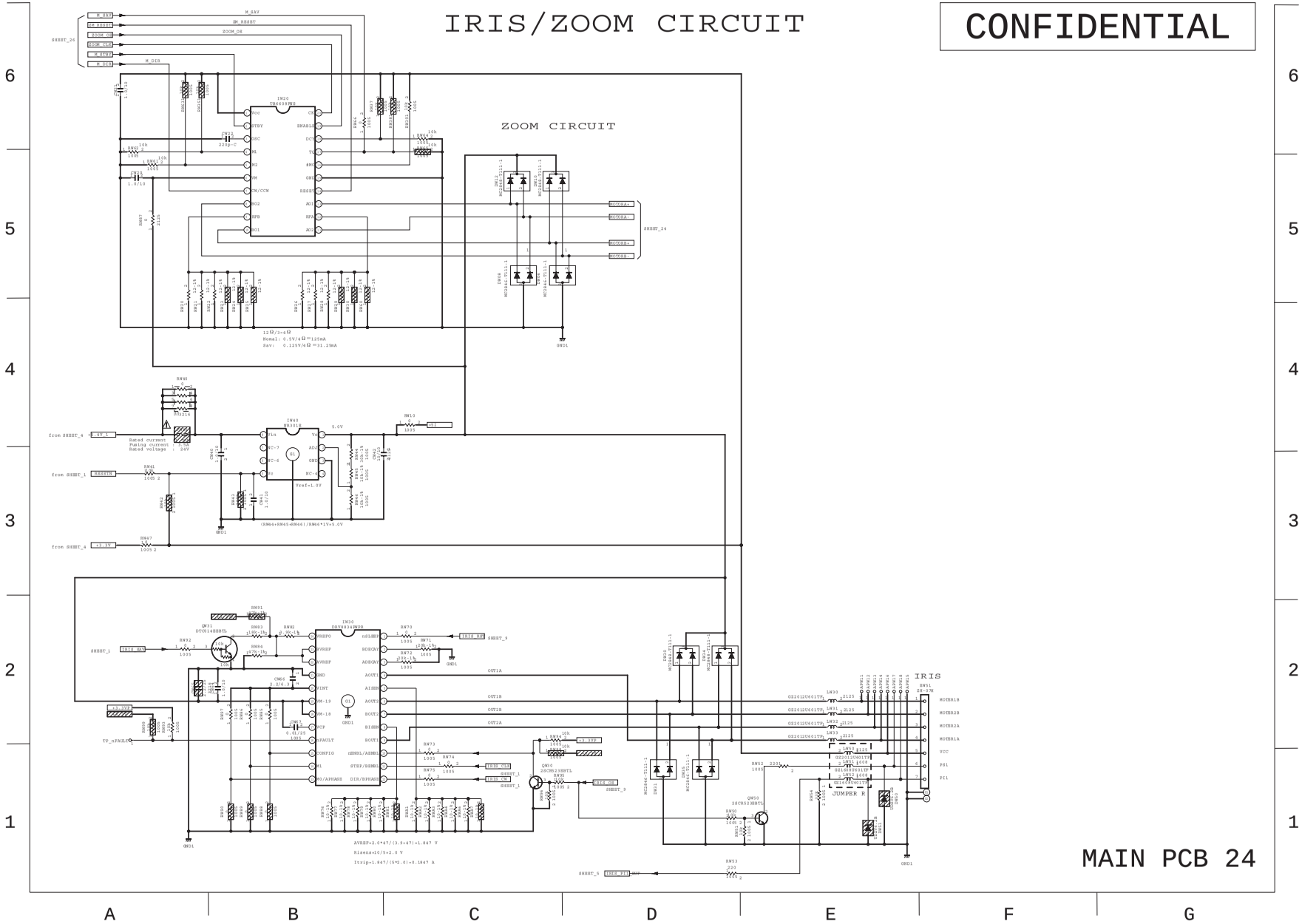


[LW751i / LW651i / LX801i]

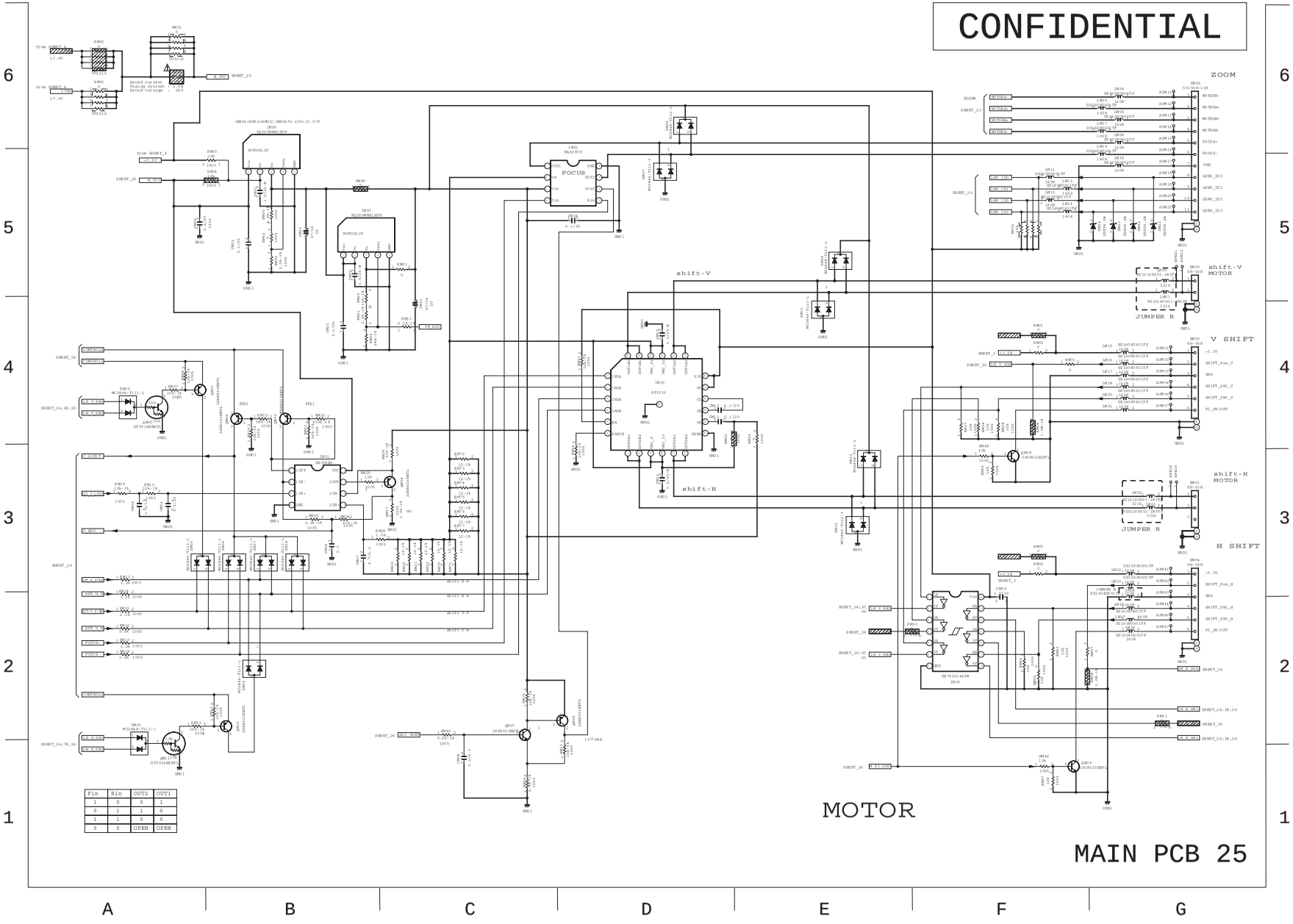
CONFIDENTIAL



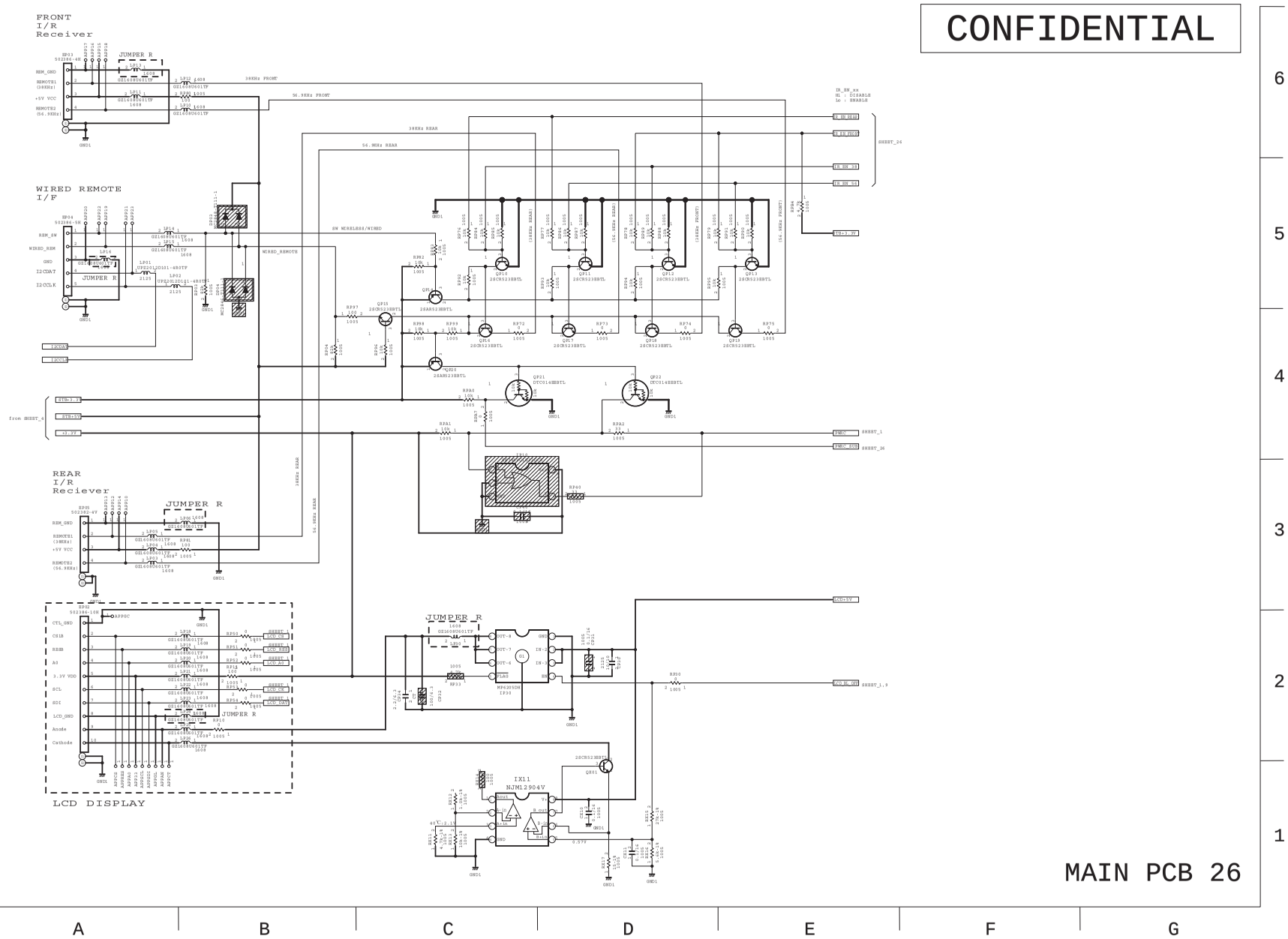
[LW751i / LW651i / LX801i]



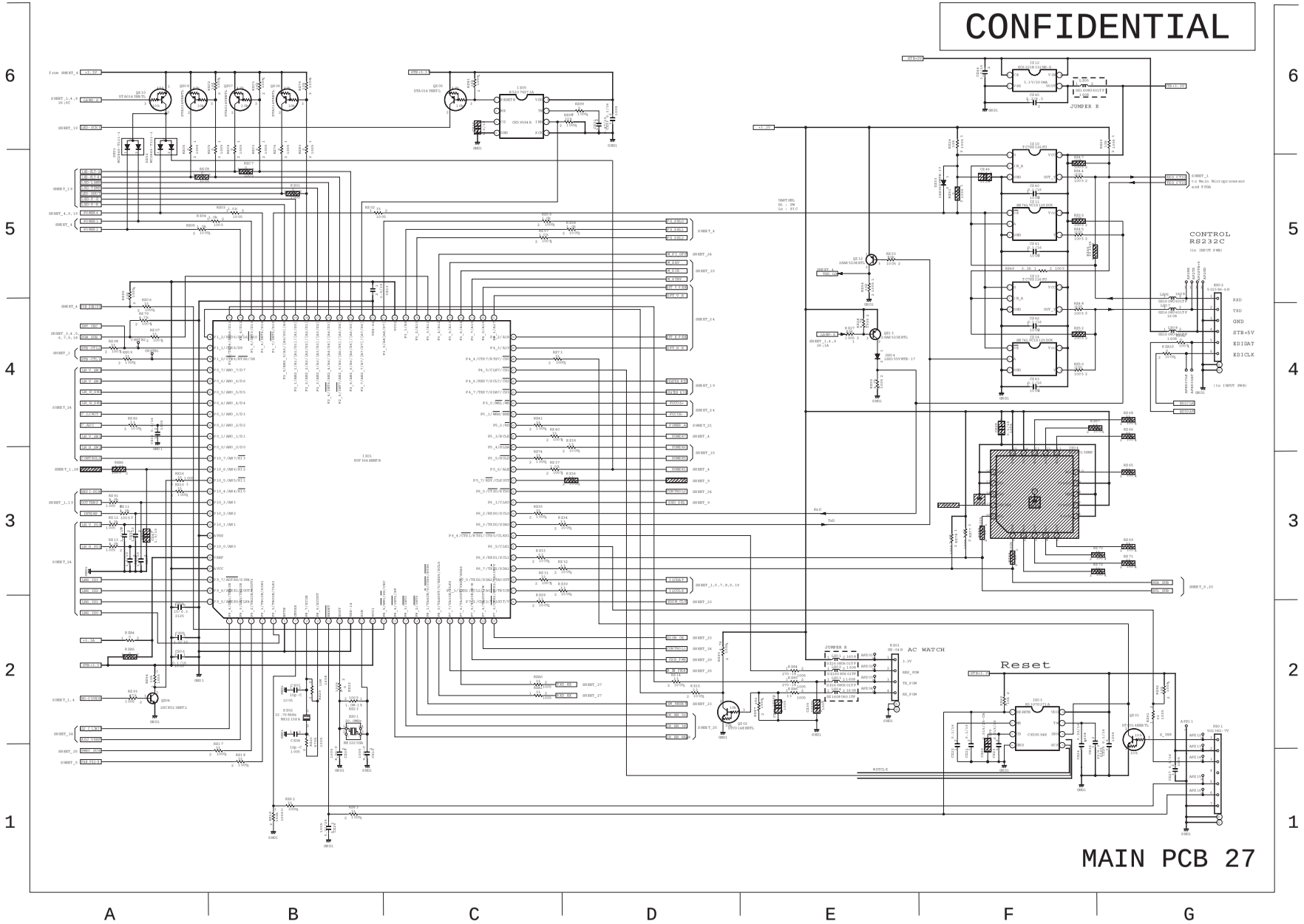
[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

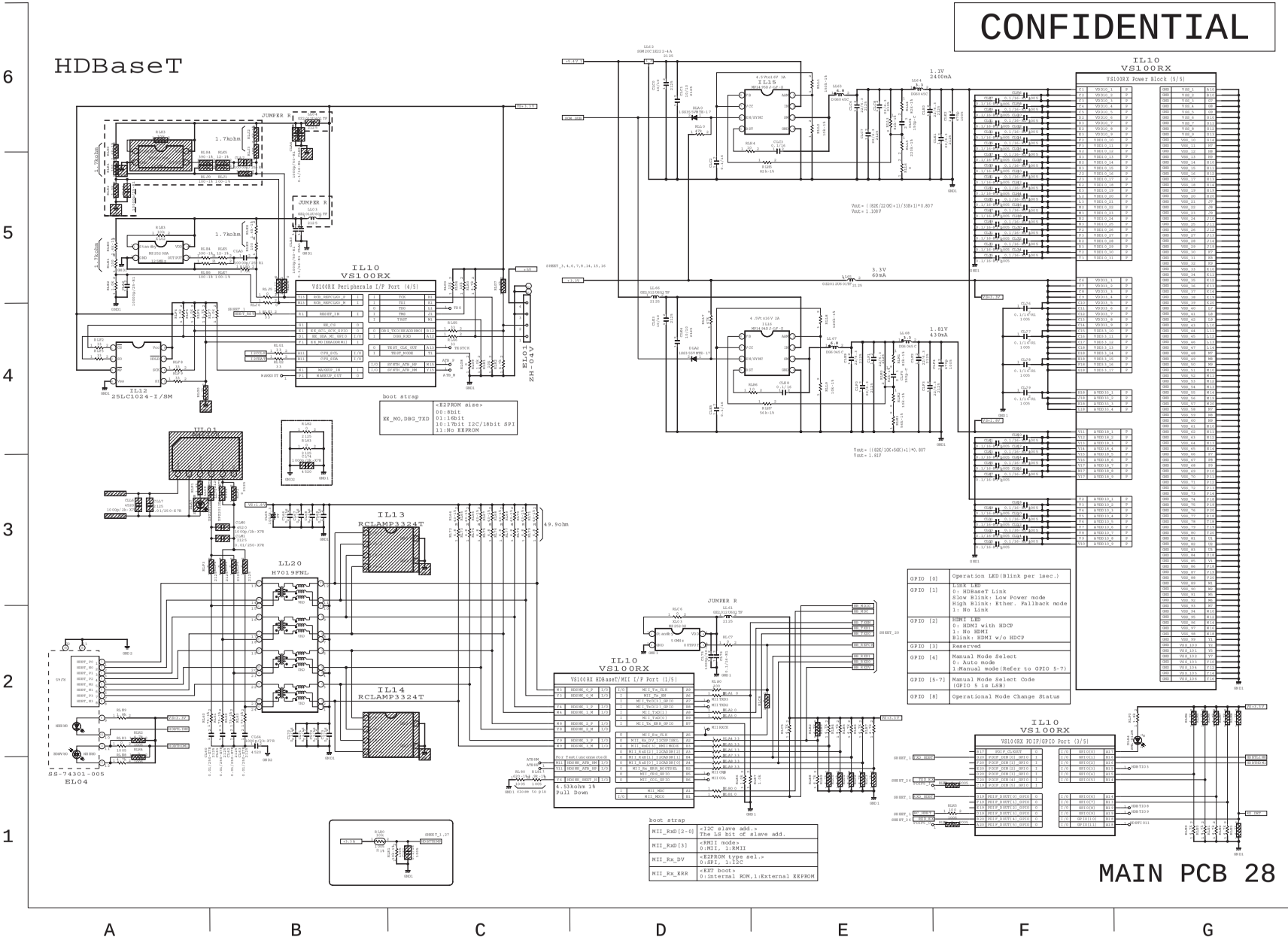


[LW751i / LW651i / LX801i]



[LW751i / LW651i / LX801i]

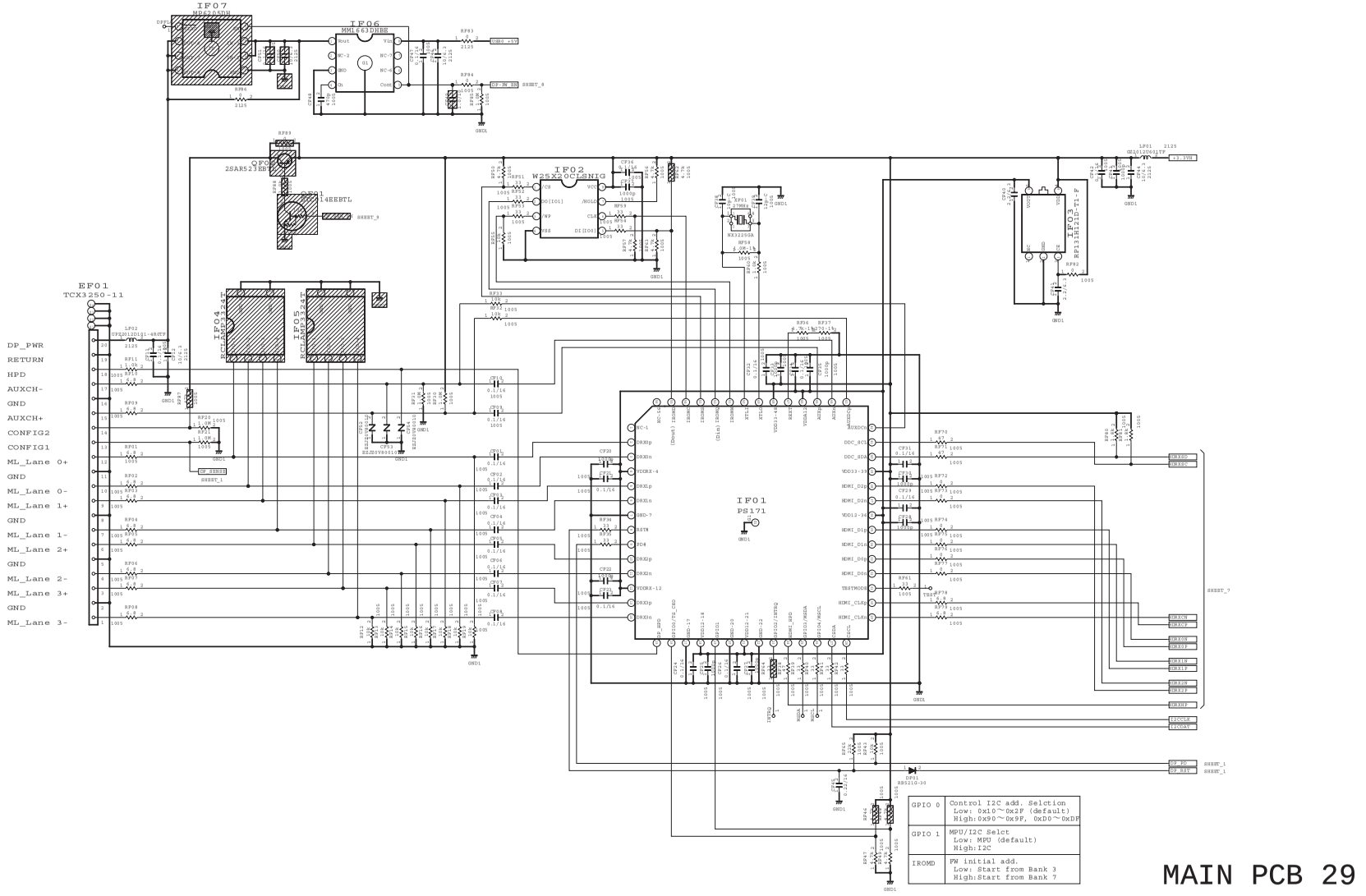
CONFIDENTIAL



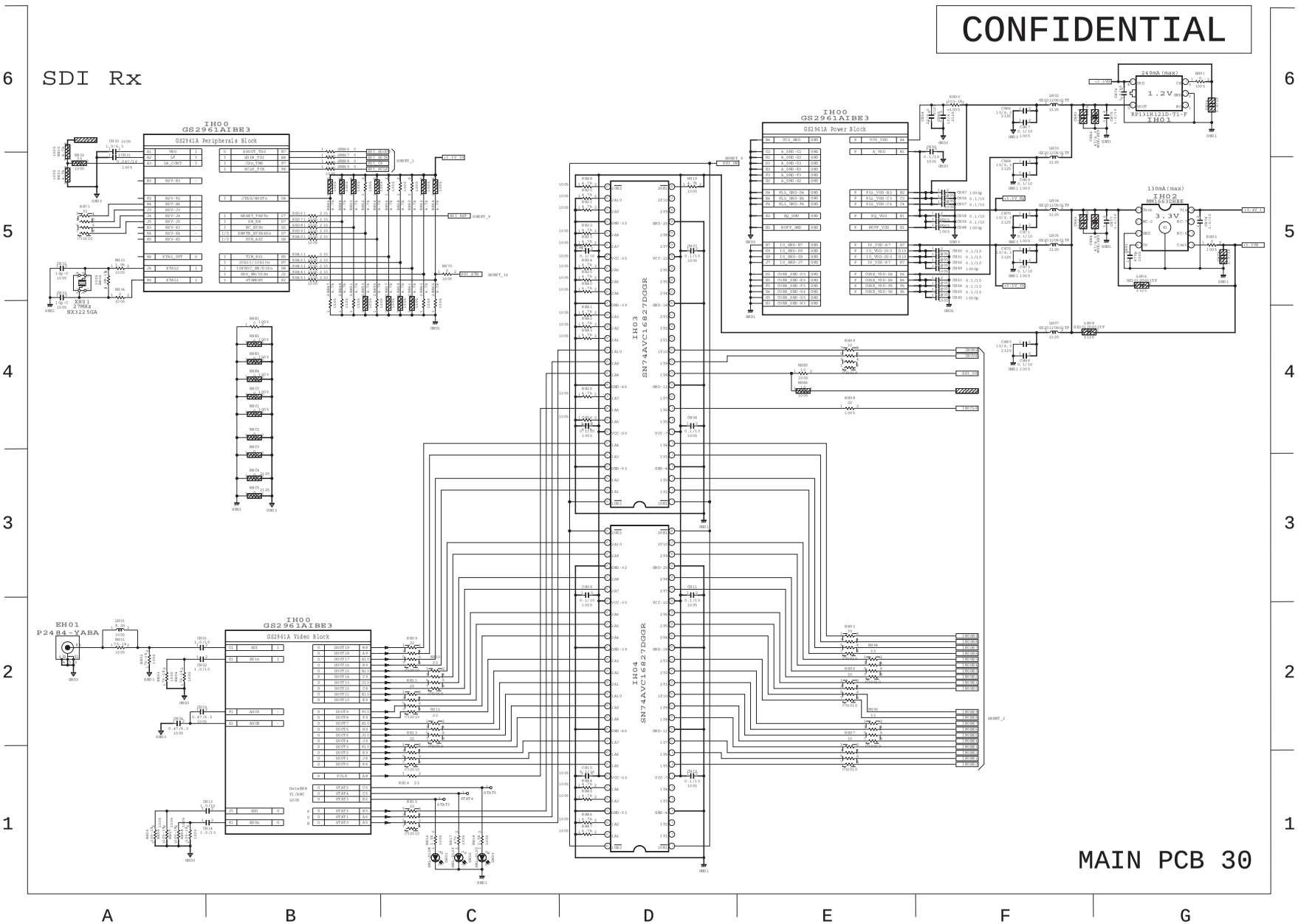
[LW751i / LW651i / LX801i]

CONFIDENTIAL

DisplayPort



[LW751i / LW651i / LX801i]



Basic circuit diagram list

REMOTE-F PCB
REMOTE-R PCB
BATTERY PCB
LAMP DOOR SW PCB
SENSOR-A PCB
SENSOR-B PCB
SUB LCD PCB
POWER UNIT BALLAST 1
POWER UNIT BALLAST 2
POWER UNIT CIRCUIT 1
POWER UNIT CIRCUIT 2
POWER UNIT CIRCUIT 3
POWER UNIT CIRCUIT 4
KEYPAD PCB
INPUT PCB 1
INPUT PCB 2
[LWU701i / LWU601i]
MAIN PCB 1
MAIN PCB 2
MAIN PCB 3
MAIN PCB 4
MAIN PCB 5
MAIN PCB 6
MAIN PCB 7
MAIN PCB 8
MAIN PCB 9
MAIN PCB 10
MAIN PCB 11
MAIN PCB 12
MAIN PCB 13
MAIN PCB 14
MAIN PCB 15
MAIN PCB 16
MAIN PCB 17
MAIN PCB 18
MAIN PCB 19
MAIN PCB 20
MAIN PCB 21
MAIN PCB 22
MAIN PCB 23
MAIN PCB 24
MAIN PCB 25
MAIN PCB 26
MAIN PCB 27
MAIN PCB 28
MAIN PCB 29
MAIN PCB 30
[LW751i / LW651i / LX801i]
MAIN PCB 1
MAIN PCB 2
MAIN PCB 3
MAIN PCB 4
MAIN PCB 5
MAIN PCB 6
MAIN PCB 7
MAIN PCB 8
MAIN PCB 9
MAIN PCB 10
MAIN PCB 11
MAIN PCB 12
MAIN PCB 13
MAIN PCB 14
MAIN PCB 15
MAIN PCB 16
MAIN PCB 17
MAIN PCB 18
MAIN PCB 19
MAIN PCB 20
MAIN PCB 21
MAIN PCB 22
MAIN PCB 23
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MAIN PCB 26
MAIN PCB 27
MAIN PCB 28
MAIN PCB 29
MAIN PCB 30

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LWU701i
LW751i
LX801i
LWU601i
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