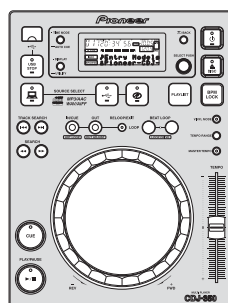


# Pioneer

## Service Manual



CDJ-350

ORDER NO.  
**RRV4069**

MULTI PLAYER

# CDJ-350

**THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).**

Model	Type	Power Requirement	Remarks
CDJ-350	SYXJ8	AC 220 to 240 V	
CDJ-350	CUXJ	AC 120 V	
CDJ-350	FLXJ	AC 110 V to 240 V	
CDJ-350	KXJ5	AC 220 V	
CDJ-350	AXJ5	AC 220 to 240 VV	



For details, refer to "Important Check Points for good servicing".

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# SAFETY INFORMATION

A



This service manual is intended for qualified service technicians ; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

## WARNING

B

This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm.

Health & Safety Code Section 25249.6 - Proposition 65

C

### CAUTION

This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007.

CLASS 1 LASER PRODUCT

D58-5-2-2a\_A1\_En

D

### IMPORTANT

THIS PIONEER APPARATUS CONTAINS LASER OF CLASS 1. SERVICING OPERATION OF THE APPARATUS SHOULD BE DONE BY A SPECIALLY INSTRUCTED PERSON.

### Laser Pickup specifications and Laser characteristics

For CD	Wave length (typ) : 790 nm
	Operation output : 4 mW CW, Class 1
	Maximum output : Class 1 (Under fault condition)

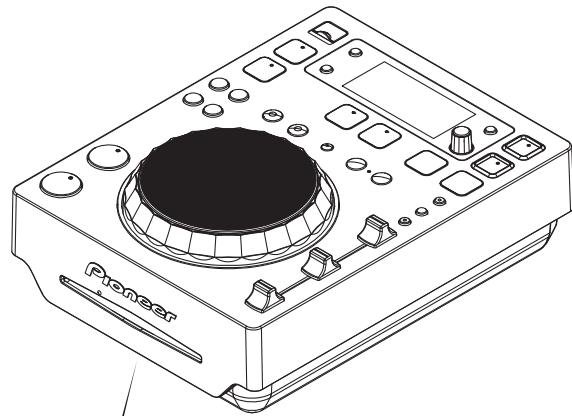
E

### Additional Laser Caution

- Laser Interlock Mechanism**  
 The position of the switch (S752) for detecting loading completion is detected by the system microprocessor, and the design prevents laser diode oscillation when the switch is not in LPS1 terminal side (when the mechanism is not clamped and LPS1 signal is high level.)  
 Thus, the interlock will no longer function if the switch is deliberately set to LPS1 terminal side.  
 ( if LPS1 signal is low level ).  
 In the test mode \* the interlock mechanism will not function.  
 Laser diode oscillation will continue, if pin 41 of TC94A15FG (IC201) on the MAIN Assy is connected to GND, or else the terminals of Q201 are shorted to each other (fault condition).
- When the cover is opened, close viewing of the objective lens with the naked eye will cause exposure to a Class 1 laser beam.

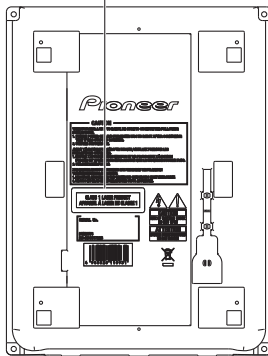
F

# LABEL CHECK



(Printed on the chassis)

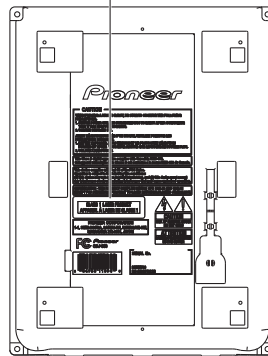
**CLASS 1 LASER PRODUCT**  
**APPAREIL À LASER DE CLASSE 1**



SYXJ8

(Printed on the chassis)

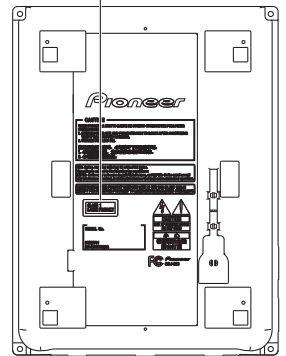
**CLASS 1 LASER PRODUCT**  
**APPAREIL À LASER DE CLASSE 1**



CUXJ

(Printed on the chassis)

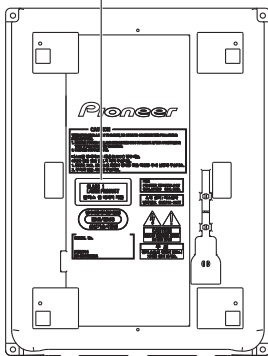
**CLASS 1 LASER PRODUCT**



FLXJ

(Printed on the chassis)

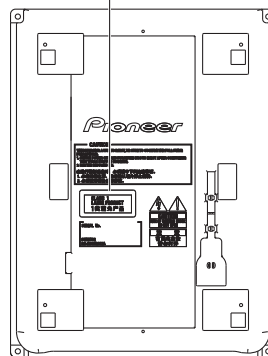
**CLASS 1 LASER PRODUCT**  
 클래스 1 레이저 제품



KXJ5

(Printed on the chassis)

**CLASS 1 LASER PRODUCT**  
 1类激光产品



AXJ5

## [Important Check Points for Good Servicing]

In this manual, procedures that must be performed during repairs are marked with the below symbol. Please be sure to confirm and follow these procedures.

### 1. Product safety



Please conform to product regulations (such as safety and radiation regulations), and maintain a safe servicing environment by following the safety instructions described in this manual.

- ① Use specified parts for repair.

Use genuine parts. Be sure to use important parts for safety.

- ② Do not perform modifications without proper instructions.

Please follow the specified safety methods when modification (addition/change of parts) is required due to interferences such as radio/TV interference and foreign noise.

- ③ Make sure the soldering of repaired locations is properly performed.

When you solder while repairing, please be sure that there are no cold solder and other debris. Soldering should be finished with the proper quantity. (Refer to the example)

- ④ Make sure the screws are tightly fastened.

Please be sure that all screws are fastened, and that there are no loose screws.

- ⑤ Make sure each connectors are correctly inserted.

Please be sure that all connectors are inserted, and that there are no imperfect insertion.

- ⑥ Make sure the wiring cables are set to their original state.

Please replace the wiring and cables to the original state after repairs. In addition, be sure that there are no pinched wires, etc.

- ⑦ Make sure screws and soldering scraps do not remain inside the product.

Please check that neither solder debris nor screws remain inside the product.

- ⑧ There should be no semi-broken wires, scratches, melting, etc. on the coating of the power cord.

Damaged power cords may lead to fire accidents, so please be sure that there are no damages. If you find a damaged power cord, please exchange it with a suitable one.

- ⑨ There should be no spark traces or similar marks on the power plug.

When spark traces or similar marks are found on the power supply plug, please check the connection and advise on secure connections and suitable usage. Please exchange the power cord if necessary.

- ⑩ Safe environment should be secured during servicing.

When you perform repairs, please pay attention to static electricity, furniture, household articles, etc. in order to prevent injuries. Please pay attention to your surroundings and repair safely.

### 2. Adjustments



To keep the original performance of the products, optimum adjustments and confirmation of characteristics within specification. Adjustments should be performed in accordance with the procedures/instructions described in this manual.

### 3. Lubricants, Glues, and Replacement parts



Use grease and adhesives that are equal to the specified substance. Make sure the proper amount is applied.

### 4. Cleaning



For parts that require cleaning, such as optical pickups, tape deck heads, lenses and mirrors used in projection monitors, proper cleaning should be performed to restore their performances.

### 5. Shipping mode and Shipping screws



To protect products from damages or failures during transit, the shipping mode should be set or the shipping screws should be installed before shipment. Please be sure to follow this method especially if it is specified in this manual.

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1 2 3 4

# 1. SERVICE PRECAUTIONS

## 1.1 NOTES ON SOLDERING

A

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.  
Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

Do NOT use a soldering iron whose tip temperature cannot be controlled.

B

Compared with eutectic solders, lead-free solders have higher bond strengths but slower wetting times and higher melting temperatures (hard to melt/easy to harden).

The following lead-free solders are available as service parts:

- Parts numbers of lead-free solder:
  - GYP1006 1.0 in dia.
  - GYP1007 0.6 in dia.
  - GYP1008 0.3 in dia.

## 1.2 ABOUT VOLTAGE MONITORING

C

This unit always monitors for power failure and will shut itself off immediately after an error is detected. If an error is generated, the STANDBY LED will flash after the unit shuts itself off. After the unit shuts itself off because of an error, unplug the AC power cord and wait 1 minute before turning the unit ON by pressing the STANDBY/ON key.  
Repair the unit, according to "5.5 ABOUT VOLTAGE MONITORING."

## 1.3 NOTE ON REPLACEMENT OF THE FL DISPLAY IN THE PNLB ASSY

D

The fluorescent (FL) display on the control panel is attached to the board, using double-back tape. When replacing the FL display, new double-back tape is required. This part is not supplied as a service part, but we recommend using double-back tape (part No. GYH1033) as a general-purpose part for service.  
You can also use the double-back tape specified below, if available:

Manufacturer: 3M, Tape width: 5 mm, Model No.: Y-4300K-08 and Y-4609

Or, tape that uses acrylic foam as a base material, with tape thickness of 0.8 mm, and with the peel force in 90° orientation (glass) of 20 N/cm or greater

E

Three pieces of double-back tape with the size of 5 mm x 30 mm are required. First attach the pieces of tape to the places on the back of the FL display, as shown in the figure below, then attach it to the board.  
Be careful when working with double-back tape, because its adhesion strength is very high.

The diagram illustrates the process of replacing the fluorescent (FL) display. On the left, a photograph shows the 'FL (face side)' and the 'PNLB Assy' (Printed Nomenclature Label Board Assembly). Below this is a dimensioned drawing of the 'Double-back tape', which is 30 mm wide and 5 mm high. On the right, a larger photograph shows the 'FL (back side)' of the display with three pieces of 'Double-back tape' applied to its back. A curved arrow indicates the direction of the tape application.

6

CDJ-350

1 2 3 4

## 2. SPECIFICATIONS

### 2.1 SPECIFICATIONS

Power requirements..... AC 220 V to 240 V, 50 Hz/ 60 Hz (SYXJ8)  
   AC 120 V, 60 Hz (CUXJ)  
   AC 110 V to 240 V, 50 Hz/ 60 Hz (FLXJ)  
   AC 220 V, 60 Hz (KXJ5)  
   AC 220 V to 240 V, 50 Hz/ 60 Hz (AXJ5)

Power consumption..... 16 W  
 Power consumption (standby)..... 0.3 W  
 Main unit weight..... 2.3 kg  
 Max. dimensions..... 220 mm (W) × 107 mm (H) × 288.5 mm (D)  
 Tolerable operating temperature..... +5 °C to +35 °C  
 Tolerable operating humidity.....5 % to 85 % (no condensation)

#### Analog audio output (AUDIO OUT L/ R)

Output terminal.....RCA terminal  
 Output Level..... 2.0 Vrms (1 kHz)  
 Frequency response..... 4 Hz to 20 kHz  
 S/ N ratio.....115 dB  
 Total harmonic distortion.....0.006 %

#### USB downstream section (USB)

Port.....Type A  
 Power supply.....5 V/ 500 mA or less

#### USB upstream section (USB)

Port.....Type B

#### Control output (CONTROL)

Port..... Mini-jack

- The specifications and design of this product are subject to change without notice.

A  
 B  
 C  
 D  
 E  
 F

## 2.2 USABLE DISCS AND USB DEVICES

1





2

3

4

### A About discs

This unit can play the discs shown below.

Type	Mark <sup>1</sup>	Compatible formats
CD		<ul style="list-style-type: none"> <li>Music CD (CD-DA)</li> </ul>
CD-R		<ul style="list-style-type: none"> <li>Music CD (CD-DA)</li> <li>MP3</li> <li>AAC</li> <li>WAV</li> <li>AIFF</li> </ul>
CD-RW		
CD-TEXT <sup>2</sup>		Music CD (CD-DA)

<sup>1</sup> Discs on which the marks on this table are indicated on the disc label, package or jacket can be played.

<sup>2</sup> Titles, album names and artist names recorded in the CD-Text data are displayed. When multiple text data are recorded on the disc, the information for the first text data is displayed.

#### ❖ Discs that cannot be played

- DTS-CD
- Photo CDs
- Video CDs
- CD Graphics (CD-G) discs
- Unfinalized CDs
- DVD

#### ❖ About CD-R/-RW discs

Music files (MP3/AAC/WAV/AIFF) recorded on CD-R/-RW discs can be played.

Folder layers	Max. 8 levels (files in folders beyond the 8th level cannot be played)
Max. number of folders	1 000 folders
Max. number of files	1 000 files

When there are many folders or files, some time may be required for loading.

#### ❖ About discs created on computers

Depending on the application settings and the computer's environmental settings, it may not be possible to play certain discs. Record the disc in a format supported on this unit. For details, contact your application's retailer.

If the recording quality is poor due to the disc's properties, scratches or dirt on the disc or dirt on the recording lens, it may not be possible to play the disc.

#### ❖ Creating backup discs

When CD-R/-RW discs are paused or left in the pause mode at cue points for long periods of time, it may become difficult to play the disc at that point, due to the properties of the disc. Also, when a specific point is looped repeatedly an extremely large number of times, it may become difficult to play that point.

When playing valuable discs, we recommend making backup discs.

#### ❖ About Copy Control CDs and DualDiscs

This unit is designed to CD standards. Operation and performance of discs with standards other than CD standards is not guaranteed.

#### ❖ About 8 cm single CDs

8 cm single CDs cannot be played on the CDJ-350. Do not mount 8 cm adapters on CDs and play them on the CDJ-350. The adapter could fall off as the disc spins, damaging the disc or the player.

D

E

F

1

2

3

4



## About USB devices

This unit supports USB mass storage class USB devices (external hard disks, portable flash memory devices, digital audio players, etc.).

Folder layers	Max. 8 layers
Max. number of folders	1 000 folders
Max. number of files	10 000 files (1 000 files for files not managed by rekordbox)
Supported file systems	FAT16, FAT32 and HFS+ (NTFS is not supported.)

When there are many folders or files, some time may be required for loading. Folders and files exceeding the limits cannot be displayed.

### ❖ USB devices that cannot be used

- Optical disk type devices such as external DVD/CD drives, etc., are not supported.
- USB hubs cannot be used.

### ❖ Cautions on using USB devices

- Some USB devices may not operate properly. Please note that Pioneer will accept no responsibility whatsoever for loss of data recorded on USB devices.
- It may happen that, when a current above the allowable level is detected in this unit's USB port, the [USB STOP] indicator flashes, the power supply to the USB device is cut off and communications with the USB device are interrupted. To restore normal operation, disconnect the USB device from this unit. Avoid reusing USB devices for which an excess current has been detected. If normal operation is not restored (if communications cannot be established) after the above procedure is performed, try turning off this unit's power then turning it back on.
- If multiple partitions are set for the USB device, the device may not be recognized.
- USB devices equipped with flash card readers may not operate.
- Depending on the USB device you are using, the desired performance may not be achieved.

## Playable music file formats

This unit supports music files in the formats shown below.

Type	File extension	Compatible formats	Bit depth	Bit rate	Sampling frequency	Encoding method
MP3	.mp3	MPEG-1	16 bit	32 kbps to 320 kbps	32 kHz, 44.1 kHz, 48 kHz	CBR, VBR
AAC	.m4a, .aac and .mp4	MPEG-4 AAC LC	16 bit	16 kbps to 320 kbps	32 kHz, 44.1 kHz, 48 kHz	CBR, VBR
WAV	.wav	WAV	16 bit, 24 bit	—	44.1 kHz, 48 kHz	Uncompressed PCM
AIFF	.aif, .aiff	AIFF	16 bit, 24 bit	—	44.1 kHz, 48 kHz	Uncompressed PCM

### About MP3 files

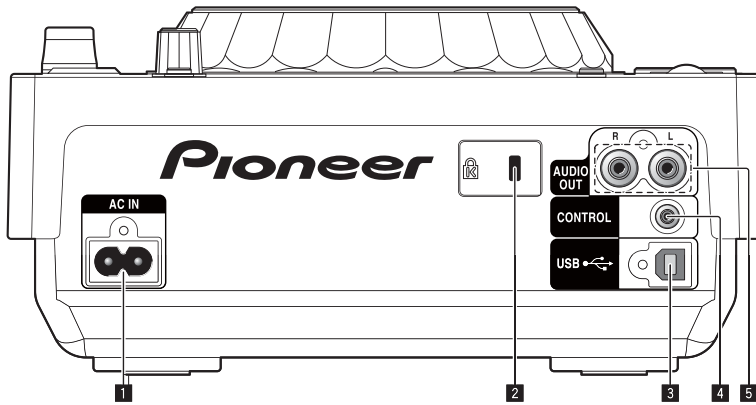
MP3 files can have a constant bit rate (CBR) or a variable bit rate (VBR). Both types of files can be played on the CDJ-350, but the search and super fast search functions are slower with VBR files. If your priority is operability, we recommend recording MP3 files in CBR.

### About AAC files

- AAC is the abbreviation of "Advanced Audio Coding", a basic format of audio compression technology used for MPEG-2 and MPEG-4.
- The file format and extension of AAC data depends on the application used to create the data.
- In addition to AAC files with the extension ".m4a" encoded with iTunes®, files with the extensions ".aac" and ".mp4" can also be played. Note, however, that copyright-protected AAC files purchased for example at the iTunes Music Store cannot be played. Also, some files may not be playable, depending on the version of iTunes used for encoding.

## 2.3 PANEL FACILITIES

### A Rear panel



#### 1 AC IN

Connect this to a power outlet.  
Connect the power cord after all the connections between devices have been completed.  
Be sure to use the included power cord.

#### 2 Kensington security slot

#### 3 USB

Connect to a computer.

#### 4 CONTROL

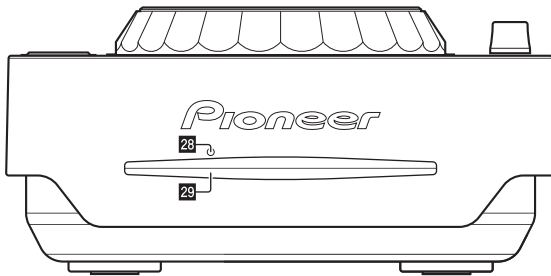
Connect the control cord (included) here.

#### 5 AUDIO OUT L/R

Connect the audio cables (included) here.

### C

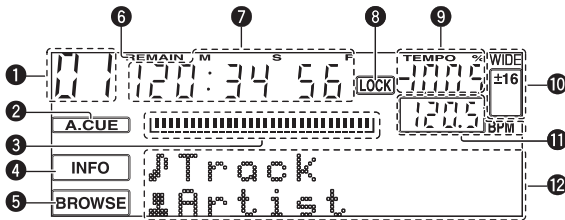
### Front panel



#### 28 Disc force eject pin insertion hole

#### 29 Disc insertion slot

### D Main unit display



#### 1 Track number

This displays the track number.  
It is not possible to display more than 100 tracks.

#### 2 A. CUE

This lights when auto cue is set.

#### 3 Playing address display

The track is displayed as a bar graph.  
Turns off from the left side when the remaining time is displayed. The entire graph flashes slowly when the remaining track time is under 30 seconds, then flashes quickly when the remaining track time is under 15 seconds.

#### 4 INFO

#### 5 BROWSE

#### 6 REMAIN

This lights when the time display is set to the remaining time.

#### 7 M, S, F (time display)

"M" indicates minutes, "S" seconds, "F" frames.  
There are 75 frames to a second.

#### 8 LOCK

This lights when the BPM is locked.

#### 9 TEMPO %

This indicates the percentage by which the playing speed is changed.

#### 10 WIDE, ±16, ±10, ±6

This indicates the range by which the playing speed can be adjusted.

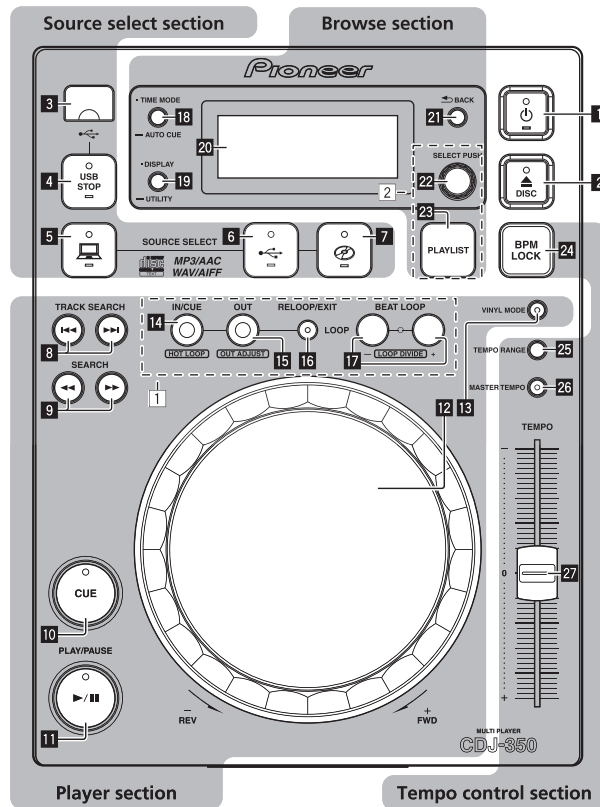
#### 11 BPM

Displays BPM (Beats Per Minute) of the track currently being played.

#### 12 Information display section

Up to 13 characters can be displayed for each. The characters that can be displayed are letters A to Z, numbers 0 to 9 and certain symbols. "?" is displayed for other characters.

## Control panel



1 (Power switch)

2 DISC

### Source select section

Select the source to be played with this unit here.

3 USB device insertion slot

4 USB STOP

5 (COMPUTER)

6 (USB)

7 (DISC)

### Player section

These controls can be used for such basic DJ player operations as playing discs, setting cue/loop points and operating the jog dial.

8 TRACK SEARCH

9 SEARCH

10 CUE

11 PLAY/PAUSE

12 Jog dial

13 VINYL MODE

❖ 14 Loop and beat loop part

14 LOOP IN/CUE (HOT LOOP)

15 LOOP OUT (OUT ADJUST)

16 RELOOP/EXIT

17 BEAT LOOP (LOOP DIVIDE)

### Browse section

Information on the device loaded on this unit, loaded tracks, etc., is displayed here.

18 TIME MODE (AUTO CUE)

19 DISPLAY (UTILITY)

20 Main unit display

21 BACK

❖ 22 Playlist part

22 SELECT PUSH (rotary selector)

23 PLAYLIST

### Tempo control section

Adjust the track playing speed here.

When [BPM LOCK] is used, the playing speeds of two tracks can be matched easily.

24 BPM LOCK

25 TEMPO RANGE

26 MASTER TEMPO

27 TEMPO

# 3. BASIC ITEMS FOR SERVICE

## 3.1 CHECK POINTS AFTER SERVICING

### A Items to be checked after servicing / CDJ

To keep the product quality after servicing, confirm recommended check points shown below.

No.	Procedures	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the specific disc, use it for the operation check.	The customer complain must not be reappeared. Audio and operations must be normal.
2	Check output analog audio.	Audio and operations must be normal.
3	Play back a CD. (track search)	Audio, Search and operations must be normal.
4	Check the connection of each interface.	
	Play back data contained in the device connected to USB A. USB B	Audio, Search and operations must be normal. The device must be recognized by the PC.
5	Check output signals while the JOG dial or TEMPO slider is being operated.	Audio and operations must be normal.
6	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

See the table below for the items to be checked regarding video and audio.

Item to be checked regarding audio
Distortion
Noise
Volume too low
Volume too high
Volume fluctuating
Sound interrupted

## 3.2 JIGS LIST

### Jigs List

Jig Name	Part No.	Purpose of use / Remarks
CD test disc	STD-905	CD playback diagnosis

### Lubricants and Glues List



Name	Part No.	Remarks
Lubricating oil	GYA1001	Refer to "9.3 CONTROL PANEL SECTION", "9.4 SLOTIN MECHA SECTION".
Dyfree	GEM1036	Refer to "9.4 SLOTIN MECHA SECTION".

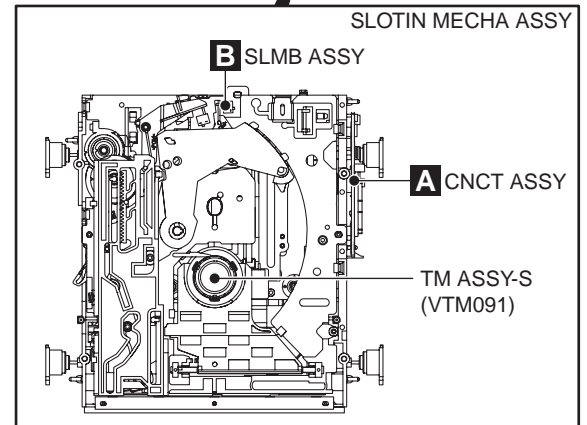
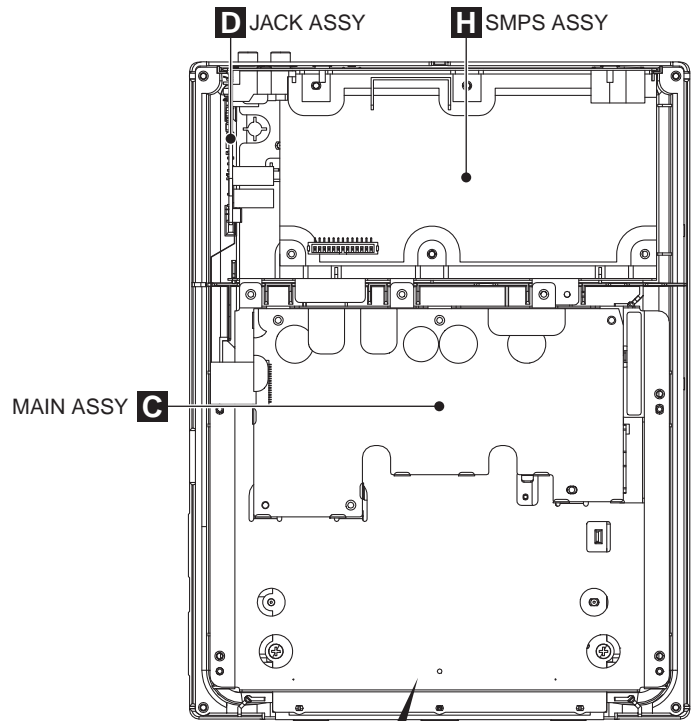
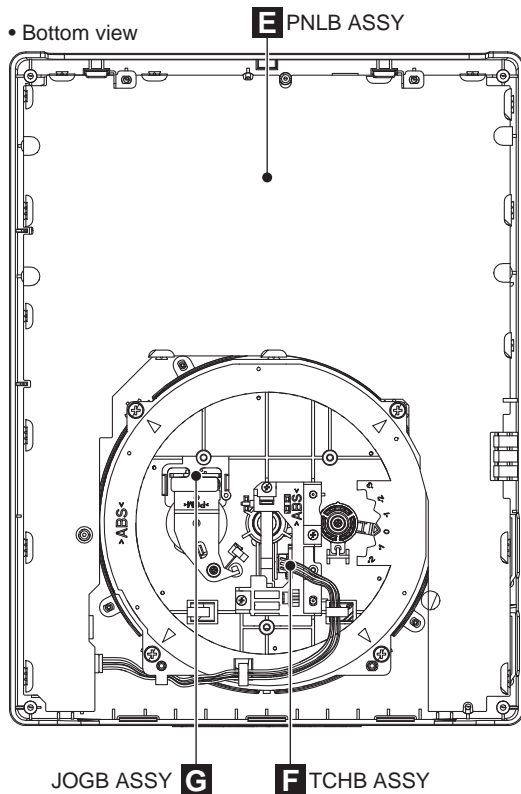
### Cleaning



Before shipping out the product, be sure to clean the following positions by using the prescribed cleaning tools.

Position to be cleaned	Name	Part No.	Remarks
Pickup lenses	Cleaning liquied	GEM1004	Refer to "9.4 SLOTIN MECHA SECTION".
	Cleaning paper	GED-008	

### 3.3 PCB LOCATIONS



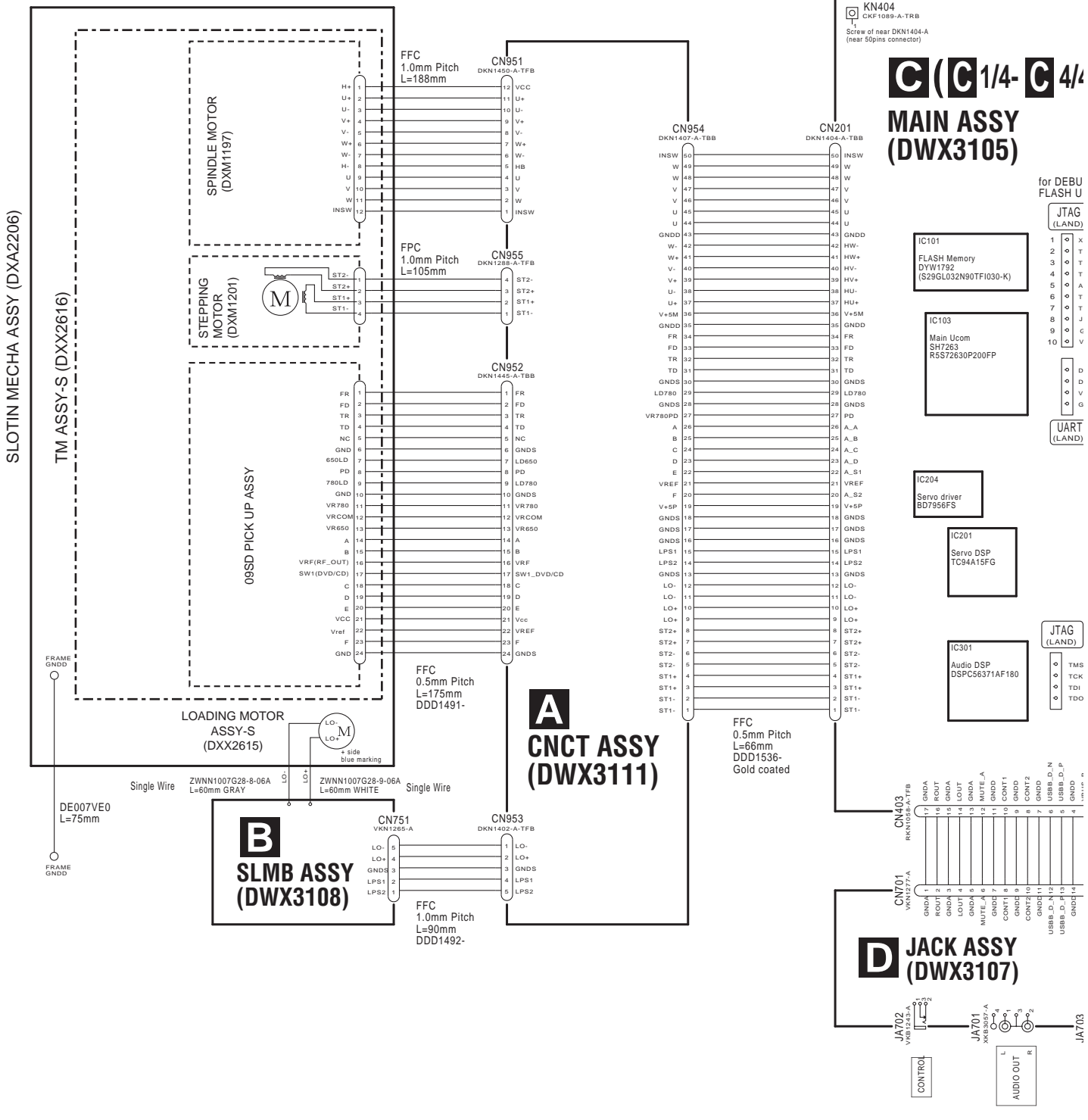
NOTES: ● Parts marked by “NSP” are generally unavailable because they are not in our Master Spare Parts List.  
 ● The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.


Mark No.	Description	Part No.	Mark No.	Description	Part No.
<b>LIST OF ASSEMBLIES</b>					
NSP	1..PANL ASSY	DWM2380	⚠	SMPS ASSY (SYXJ8, FLXJ, KXJ5, AXJ5)	DWR1482
	2..PNLB ASSY	DWX3106	⚠	SMPS ASSY (CUXJ)	DWR1481
	2..JACK ASSY	DWX3107	NSP	1..SLOTIN MECHA ASSY	DXA2206
	2..SLMB ASSY	DWX3108		1..TM ASSY-S (VTM091)	DXX2616
	2..TCHB ASSY	DWX3109			
	2..JOGB ASSY	DWX3124			
NSP	MACN ASSY	DWM2391			
	2..MAIN ASSY	DWX3105			
	2..CNCT ASSY	DWX3111			

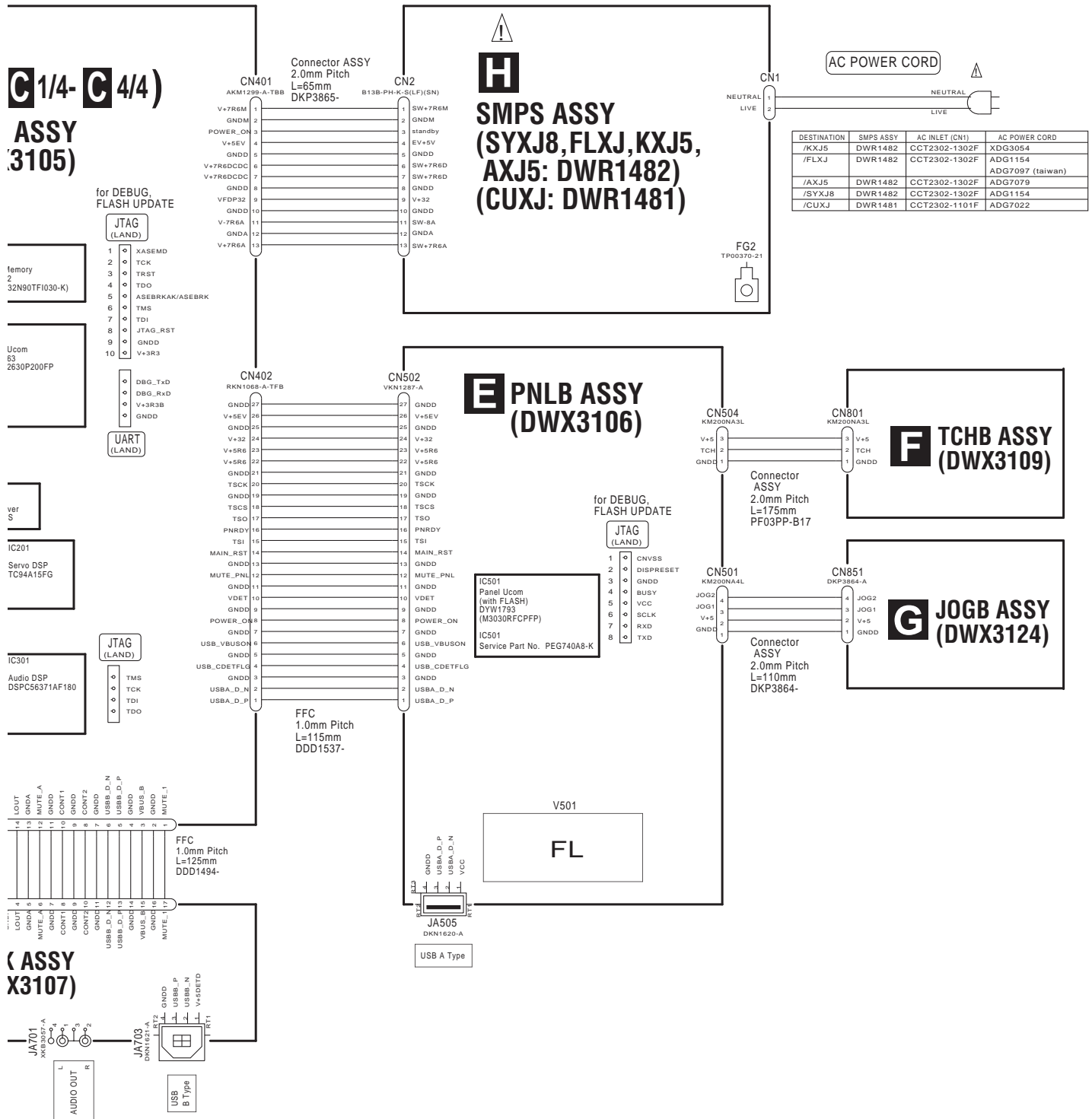
# 4. BLOCK DIAGRAM

## 4.1 OVERALL WIRING DIAGRAM

A  
B  
C  
D  
E  
F

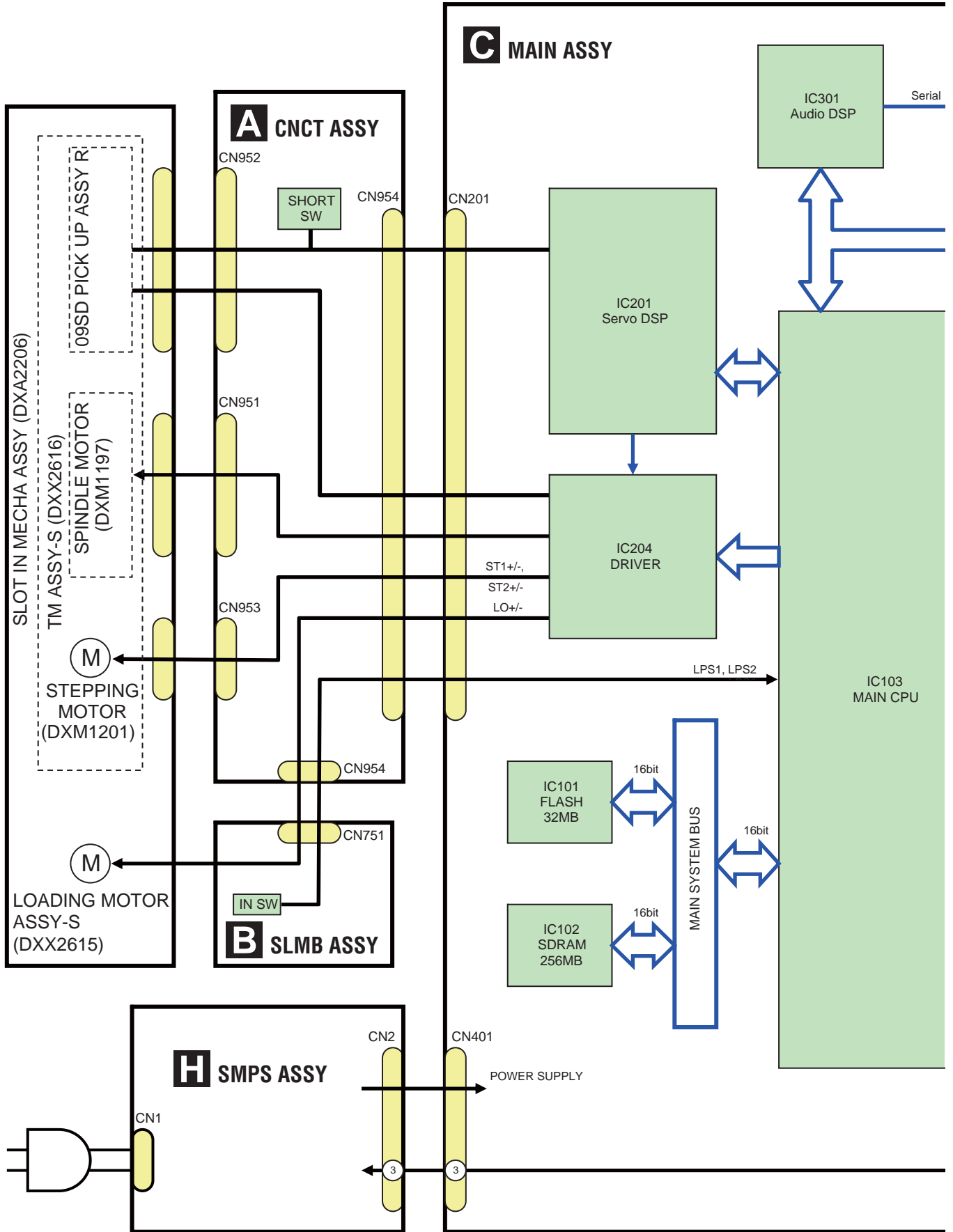


• When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".  
 • The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.  
 Therefore, when replacing, be sure to use parts of identical designation.  
 •  : The power supply is shown with the marked box.



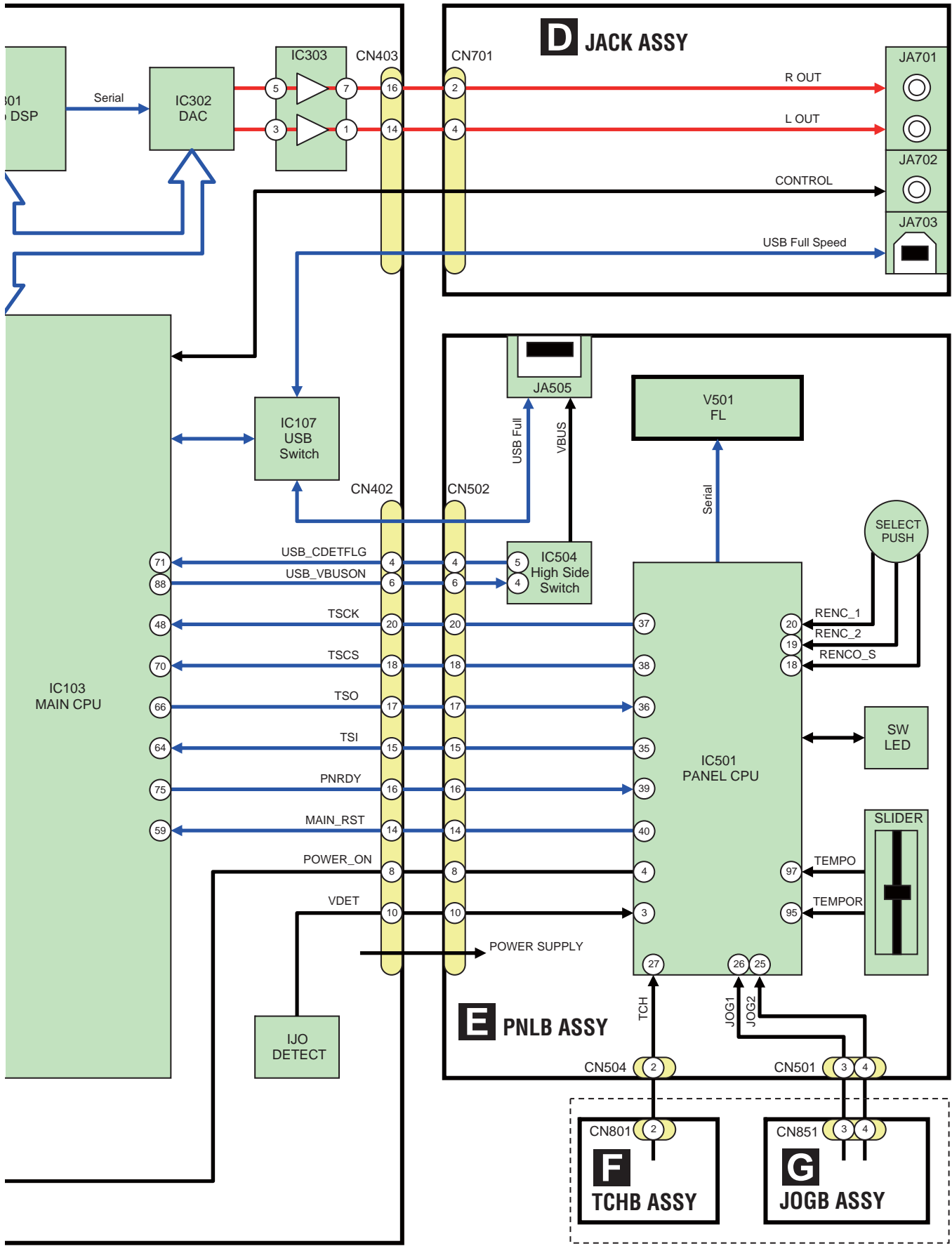
# 4.2 OVERALL BLOCK DIAGRAM

A  
B  
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D  
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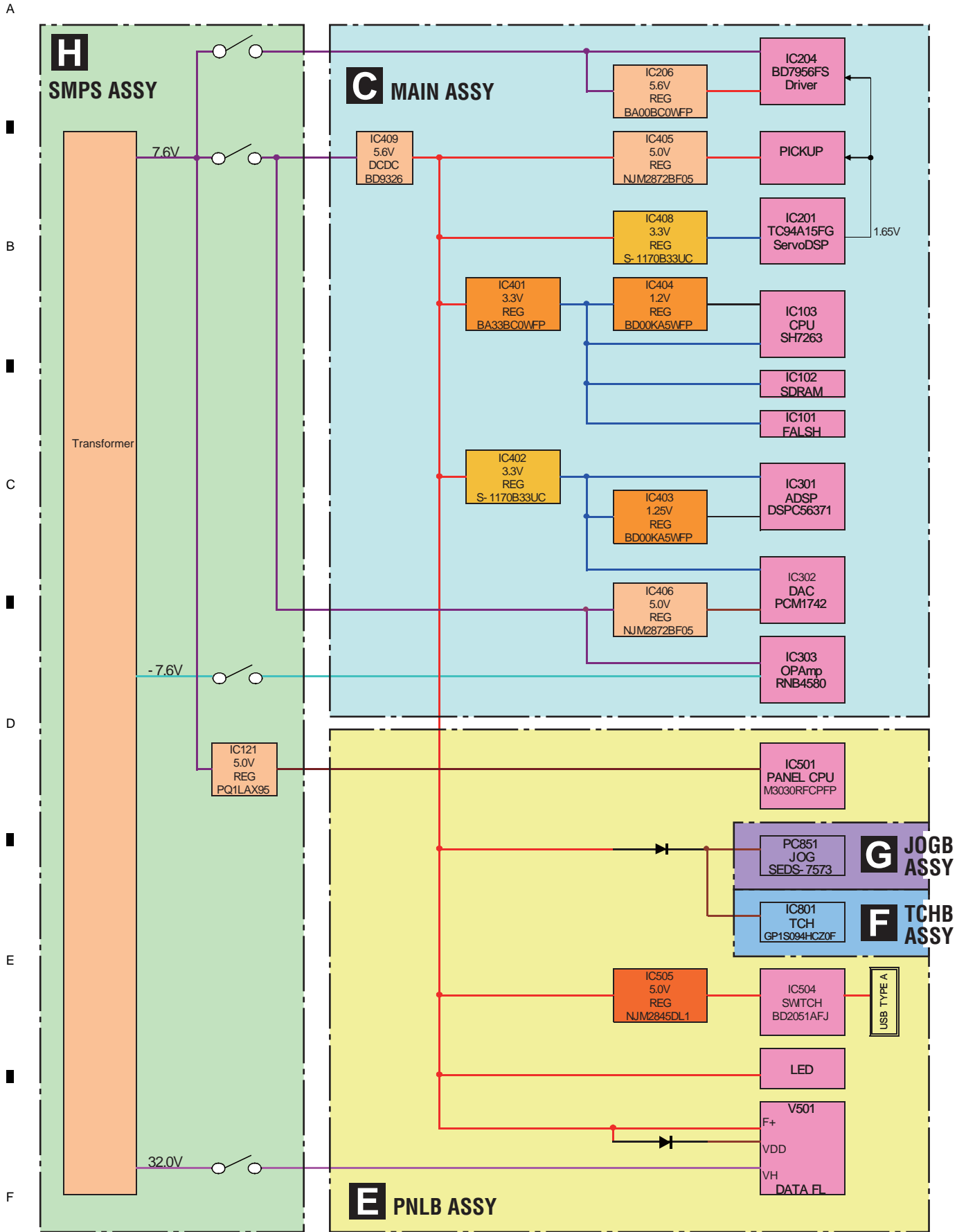




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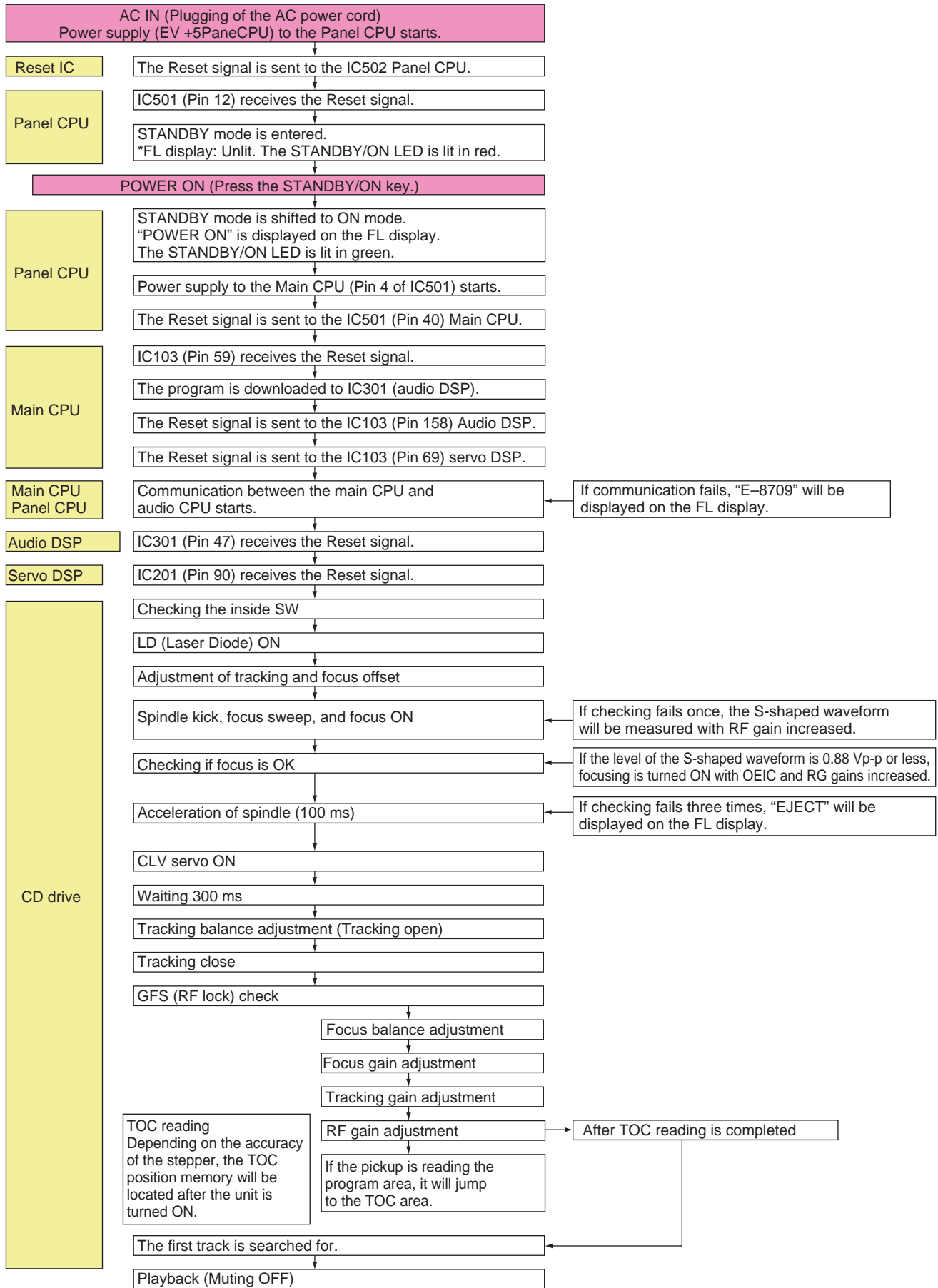


# 4.3 POWER BLOCK DIAGRAM



# 5. DIAGNOSIS

## 5.1 POWER ON SEQUENCE



## 5.2 TROUBLESHOOTING

- A In this section, causes of failure, diagnostics points, and corrective measures can be searched for according to symptoms. Before disassembling this unit, it is recommended to infer a failure point by referring to the error code.

For the relationship of each power-supply and signal system, see "4.3 POWER SUPPLY BLOCK DIAGRAM."

If software of the product is updated before performing diagnostics, check that software updating has been performed properly before proceeding to diagnostics.

If software updating has not been performed properly, update the software, following the instructions in "8.4 UPDATING OF THE FIRMWARE."

### Contents

- B [0] Prior Confirmation  
 [1] Failure in Startup  
 [2] Display (DATA FL/LED)  
 [3] Operations (SW/Volume/JOG)  
 [4] USB (Type A/Type B)  
 [5] AUDIO OUT  
 [6] DRIVE Assy  
 [7] SERVICE MODE  
 [8] Error Codes  
 [9] Basic Operation Check of CPU/DSP

The waveform numbers described in this section correspond to the "10.11 WAVEFORMS."

C

### [0] Prior Confirmation

#### [0-1] Checking in Service Mode

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	—	Service mode	Check the failure points.	See the section describing locations of defects in this manual.	6.SERVICE MODE

#### [0-2] Checking Cables

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Disconnection, breakage, or loose connection of cables	Cables	Check that all the cables are securely connected. Check that there is no breakage in the cables.	Securely connect the cables. If a cable is broken, replace it.	4.1 OVERALL CONNECTION DIAGRAM

### [1] Failure in Startup

#### [1-1] No power

Even after the unit is turned on, a STANDBY/ON button is not lit with red.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure	SMPS Assy PNLB Assy	Check V+5EV.	If the V+5EV voltage is not output, the SMPS Assy may be defective. If the V+5EV voltage is output, the PNLB Assy may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM 10.10 VOLTAGES Diagnostic methods by Assy

#### [1-2] Mode shift error in Standby mode

STANDBY mode cannot be entered.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Poor connection /Defective SW	PNLB Assy	Check if there is loose connection on the signal line from the PANEL CPU (IC501) to the SW(S525).	If the connection up to the SW is properly made and if the signal is not set to "L" when the SW is pressed, the SW may be defective.	—
2	Signal errors	PNLB Assy	Check the TSCS, TSCK, and TSI waveforms.	If the signal is not output, PANEL CPU (IC501) may be defective.	10.11 WAVEFORMS MAIN (7),(8),(9)
3	Defective signals /SMPS Assy	PNLB Assy	Check the level of POWER_ON signal (IC501-4 pin).	If the level is "H", PANEL CPU(IC501) may be defective. If the level is "L", SMPS Assy may be defective.	10.10 VOLTAGES [9] Basic operation check of CPU/DSP

Shifting from the STANDBY mode to another mode cannot be performed.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Poor connection /Defective SW	PNLB Assy	Check if there is loose connection on the signal line from the PANEL CPU (IC501) to the SW(S525).	If the connection up to the SW is properly made and if the signal is not set to "L" when the SW is pressed, the SW may be defective.	—
2	Signal errors	PNLB Assy	Check the TSCS, TSCK, and TSI waveforms.	If the signal is not output, PANEL CPU (IC501) may be defective.	10.11 WAVEFORMS MAIN ⑦,⑧,⑨
3	Defective signals /SMPS Assy	PNLB Assy	Check the level of POWER_ON signal (IC501-4 pin).	If the level is "L", PANEL CPU(IC501) may be defective. If the level is "H", SMPS Assy may be defective.	10.10 VOLTAGES [9] Basic operation check of CPU/DSP

### [1-3] "E-8709" is displayed on the FL display after startup.

Communication between the Main CPU and Panel CPU has not been established.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Signal errors	PNLB Assy	Check the TSCS, TSCK, and TSI waveforms.	If the signal is not output, PANEL CPU (IC501) may be defective.	10.10 VOLTAGES [9] Basic operation check of CPU/DSP
2	Power failure	MAIN Assy	Check the V+3R3/V+1R2 power voltages.	If power is not output, a part of the power supply section may be defective.	10.10 VOLTAGES
3	Signal errors	MAIN Assy	Check the level of the PNRDY signal and the waveform of the TSO signal.	If the PNRDY signal level is "L" or the TSO signal waveform is not output (fixed at either L or H), the Main CPU (IC103) may be defective.	10.10 VOLTAGES [9] Basic operation check of CPU/DSP

### [1-4] The Power switch flashes in red.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	A voltage error was generated.	—	Check the level of the VDET signal.	If the signal level is "L", a voltage error was generated.	—

### ■ Possible causes when the POWER switch flashes in red (IJO DETECT)

Signal Name	Detection Mode	Possible Failure Point	Signal Name	Detection Mode	Possible Failure Point
V+5IJO	Voltage drop	Q414 PANEL CPU/SMPS Assy	V+1R2	Voltage drop	IC404(REG) IC103(MAIN CPU)
V+7R6M	Voltage drop	IC205(REG) SMPS Assy	V+1R25	Voltage drop	IC403(REG) IC301(AUDIO DSP)
VFDP32	Voltage drop	Q502 SMPS Assy	V+3R3S	Voltage drop	IC201(SERVO DSP)
V+1R2	Voltage rise	IC404(REG) IC103(MAIN CPU)	V-7R6A	Voltage rise	IC303 (OP amp) Q302,Q301(MUTE) SMPS Assy
V+1R25	Voltage rise	IC403(REG) IC301(AUDIO DSP)			

Note: See "10.10 VOLTAGES" about possible failure point.

## [2] Display (FL/LED)

### [2-1] The FL does not light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure	PNLB Assy	Check the power-supply voltages (V+5R6, V+32) of the FL.	If the presence of power is not confirmed, check the mounting statuses of the regulator IC and its peripheral parts for each power supply. If they are properly mounted, then the parts may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM 10.10 VOLTAGES
2	Signal errors	PNLB Assy	Check the waveforms and connection of communication line of FL in the PNLB Assy. • FLSCCLK • FLBK • FLLAT • FLISO	If no signal is output, the PANEL CPU (IC501) may be defective. If output signal is no problem, FL (V501) may be defective.	10.11 waveforms PNLB ①,②,③,④ [9] Basic operation check of CPU/DSP

## A [2-2] The LED does not light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Signal errors	PNLB Assy	Check that the control signal for the LED is output from the PANEL CPU (IC501).	If no signal is output, check a mounting state of PANEL CPU(IC501). If the mounting is OK, the IC501 may be defective.	[9] Basic operation check of CPU/DSP
2	Defective parts of LED	PNLB Assy	Check that the forward voltage (2.2 - 2.7 V) is present at both ends of the LED.	If the forward voltage is not present, then the LED itself is defective.	—
3	Defective parts of transistor	PNLB Assy	If the symptom persists after the above corrections,	The transistor may be defective.	—

## B [3] Operations (Keys/variable controls/JOG)

As operations of all keys, variable controls, and JOG dial can be checked in Service mode.

### [3-1] No key functions

STANDBY, USB STOP, PLAY, CUE, LOOP IN/OUT, RELOOP, LOOP DIVIDE+, or LOOP DIVIDE- key does not function.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /Defective SW	Related point	Check if there is loose connection on the signal line from the PANEL CPU (IC501) up to the SW.	If there is no loose connection and if the signal does not become "L" when the SW is pressed, that SW is defective.	—
2	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU(IC501). If the mounting is OK, the PANEL CPU may be defective.	[9] Basic operation check of CPU/DSP

The signals from other keys are analog and connected to multiple switches.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection /Defective SW	Related point	Check if there is loose connection on the signal line from the PANEL CPU (IC501) up to the SW.	If the SWs connected to the signal line function properly and if the connections are properly made, the SWs may be defective.	—
2	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU(IC501). If the mounting is OK, the PANEL CPU may be defective.	[9] Basic operation check of CPU/DSP

### [3-2] Rotary selector not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective rotary selector	PNLB Assy	Check if the signals from the RENC_1, RENC_2, and RENC_SW signal lines are normal when the rotary selector is turned or pressed.	If the signals are not normal, check the connections of the signal lines. If the connections are properly made, the encoder (S527) may be defective. Replace it.	—
2	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU(IC501). If the mounting is OK, the PANEL CPU may be defective.	[9] Basic operation check of CPU/DSP

### [3-3] Variable controls not controllable

Tempo slider not controllable

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connection	PNLB Assy	Check if there is loose connection on the signal line from the PANEL CPU (IC501) to the tempo slider (VR501).	If the connections of signal line are improper, resolder it.	—
2	Defective tempo slider	PNLB Assy	Check the TEMPO signal level.	If the voltage of the TEMPO signal line (IC501-pin 97) does not change between 5.0 V and 0 V, the tempo slider may be defective.	—
3	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU(IC501). If the mounting is OK, the IC501 may be damaged.	[9] Basic operation check of CPU/DSP

### [3-4] Abnormalities regarding the JOG dial

After the JOG Assy is disassembled then reassembled, be sure to check that the load value for the JOG dial is within the specified range. (Refer to the "8.2 JOG DIAL ROTATION LOAD ADJUSTMENT".)

Turning of the JOG dial is not detected					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective part	PNLB Assy JOGB Assy	Check the waveforms of signal lines. JOG1_C(IC501-pin 26) JOG2_C(IC501-pin 25)	If no waveform can be confirmed, the part (PC851) on the JOGB Assy may be defective.	10.11 WAVEFORMS PNLB ⑤,⑥
2	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU (IC501). If the mounting is OK, the IC501 may be defective.	[9] Basic operation check of CPU/DSP
Pressing on the JOG dial cannot be detected.					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective part	PNLB Assy TCHB Assy	Check the level of TCH_C signal (IC501-pin 27) when the JOG dial is pressed.	If the TCH_C signal (IC501-pin 27) is not set to "L" when the JOG dial is pressed and it is not set to "H" when the JOG dial is not pressed, the parts (IC801 and Q801) on the TCHB Assy may be defective.	—
2	Defective PANEL CPU (IC501)	PNLB Assy	If the symptom persists after the above corrections,	Check a mounting state of PANEL CPU(IC501). If the mounting is OK, the IC501 may be defective.	—
Noise is heard when the JOG dial is turned.					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective gear or JOG DIAL B	JOG Assy	There may be any scratches on the gear or some foreign object between the gears.	If there are any scratches, replace the scratched gear with a new one. If there is any foreign object, remove it then replace the gears with new ones. Gears to be replaced: Load gear, Encoder gear, JOG shaft	—
			There may be any scratches on the JOG DIAL B or some foreign object.	If sliding surfaces of the sliding sheet are scratched, replace it with a new one. If any foreign matter is attached, remove it.	—
The JOG dial turns too freely. (The load value for the JOG dial is outside the specified range.)					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment or assembly of the JOG dial	JOG Assy	Check that the load value for the JOG dial is within the specified range, referring to "Measuring method" in "8.2 JOG Dial Rotation Load Adjustment."	If it is outside the specified range, adjust the position of the Cam Plate to change the load value for the JOG dial, referring to "Load adjustment method" in "8.2 JOG Dial Rotation Load Adjustment."	8.2 JOG Dial Rotation Load Adjustment.
				During the above adjustment, if the upper-limit adjustment position of the Cam Plate is reached, oil may have been splattered on the Cam Plate. Replace the washer, load gear, and cam plate with new ones, then reassemble.	8.2 JOG Dial Rotation Load Adjustment.
Resistance to turning the JOG dial is too strong. (The load value for the JOG dial is outside the specified range.)					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper adjustment of the JOG dial or defective washer, gear, or cam plate	JOG Assy	Check that the load value for the JOG dial is within the specified range, referring to "Measuring method" in "8.2 JOG Dial Rotation Load Adjustment."	If it is outside the specified range, adjust the position of the Cam Plate to change the load value for the JOG dial, referring to "Load adjustment method" in "8.2 JOG Dial Rotation Load Adjustment."	8.2 JOG Dial Rotation Load Adjustment.
				During the above adjustment, if the lower-limit adjustment position of the Cam Plate is reached, shavings from the worn-out washer may have increased the friction. Replace the washer, load gear, and cam plate with new ones, then reassemble.	8.2 JOG Dial Rotation Load Adjustment.

## [4] USB (Type A/Type B)

### [4-1] No communication via the USB connector (Type A)

Check the following, with a USB device connected to the USB A connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections	PNLB Assy MAIN Assy	Check the connection of the USB communication line.	If connection is improper, resolder it.	—
2	V+5USB is defective.	PNLB Assy	Check the voltage level.	If JA505-pin 1 (V+5USB) cannot be confirmed and the IC504-pin 2 can be confirmed, then go to [3]. If V+5USB can be confirmed, go to [4].	10.10 VOLTAGES
3	Defective part	PNLB Assy	Check the signal level of IC504-5 pin (USB_CODETFGL) and IC504-4 pin (USB_VBUSON).	<ul style="list-style-type: none"> <li>If the IC504-pin 5 (USB_CODETFGL) and IC504-pin 4 (USB_VBUSON) are "H", IC504 may be defective.</li> <li>In the USB device no connection state, If the IC504-pin 5 (USB_CODETFGL) is "H" and IC504-pin 4 (USB_VBUSON) is "L", IC103 may be defective.</li> </ul>	—
4	Defective MAIN CPU	MAIN Assy	If the symptom persists after the above corrections,	The MAIN CPU (IC101) may be defective.	[9] Basic operation check of CPU/DSP

### [4-2] No communication via the USB connector (Type B)

Check the following, with a USB device connected to the USB B connector.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Loose connections	—	Check the connection of the signal lines (USB_D+/USB_D-).	If connection is improper, resolder it.	—
2	Defective MAIN CPU	—	If the symptom persists after the above corrections,	The MAIN CPU (IC103) may be defective.	[9] Basic operation check of CPU/DSP

## [5] AUDIO OUT

### [5-1] No sound

The analog audio signal is not output.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure	MAIN Assy	Check the voltages for audio (V+7R6A, V-7R6, V+5A, V+3R3A).	<ul style="list-style-type: none"> <li>If the V+7R6A/V-7R6 voltage level is abnormal, the SMPS Assy unit may be defective.</li> <li>If the V+5A voltage level is abnormal, IC406 may be defective.</li> <li>If the V+3R3A voltage level is abnormal, the IC402 may be defective.</li> </ul>	10.10 VOLTAGES
2	Loose connections	MAIN Assy JACK Assy	Check the connection of the audio signal lines (ROUT/LOUT).	If connection is improper, resolder it.	—
3	Signal errors	MAIN Assy	Check the AUDIO DSP (IC301).	If the AUDIO DSP (IC301) is OK, the DAC (IC302) may be defective.	[9] Basic operation check of CPU/DSP

## [6] DRIVE ASSY

### [6-1] Improper operation of the loading mechanism

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper soldering	Cables	Check that the wires between the loading motor and the SLMB Assy are securely soldered. Check also the wires are not broken.	If soldering is improper, resolder it. If the wires are broken, replace them.	—
2	Power failure	MAIN Assy	Check the power voltages. (V+7R6M, V+5R6M, VREF1R65, V+3R3B, V+3R3, V+1R2A)	For any power-supply section that does not output the voltage, check the mounting statuses of the regulator IC and its peripheral parts. If they are properly mounted, then the parts may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM
3	Signal errors	MAIN Assy	Check the waveforms of the LPS1 and LPS2 signal lines. (The LPS1 and LPS2 signals becomes "L" when the SW is set to ON.)	If the signal waveform is not proper, the loading detection SWs (S751/S752) may be improperly soldered or defective. If soldering is improper, resolder them. If the symptom persists, replace the defective parts.	—



No loading (There is an abnormal noise.)

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Improper assembling	SLOTIN MECHA Assy	Check if the SW lever has shifted on the SWs on the SMLB Assy.	If the SW lever has shifted on the loading detection SWs (S751/S752), correct the position of the SW lever. If the soldered SWs are lifted off the board, resolder them.	—
2	Signal errors	MAIN Assy	Check the waveforms on the LPS1 and LPS2 signal lines.	If the signal waveform is not proper, the loading detection SWs (S751 and S752) may be improperly soldered or defective. Resolder them, if necessary. If the symptom persists, replace them.	—

### [6-2] The stepper does not work.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure	MAIN Assy	Check the power voltages. (V+7R6M, V+5R6M, VREF1R65, V+3R3B, V+3R3, V+1R2A)	Check the connection of the parts at the periphery of the regulator IC that does not output the voltage. If the symptom persists after a corrective action, the power supply block is defective. Replace it.	4.3 POWER SUPPLY BLOCK DIAGRAM
2	Signal errors	MAIN Assy	Check the INSIDE signal. (The INSIDE SW becomes "L" when the INSIDE SW is set to ON.)	If the signal is not proper, check the connections. If connections are properly made, replace the traverse mechanism.	—

### [6-3] No CD playback

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Any foreign matter attached	CD drive Assy	Check if the objective lens is dirty.	Remove any dirt or dust from the lens.	—
2	Defective pickup	MAIN Assy	Check the LD current value. Measure the actuator resistance value.	Refer to the "5.3 Diagnosis of the Pickup Assy."	5.3 Diagnosis of the Pickup Assy
3	—	Service mode	If the symptom persists after the above corrections, check operations of the CD drive in Service mode.	Check operations of the CD drive, referring to the procedures described in "6. SERVICE MODE." If the CD drive functions improperly, see "[7] SERVICE MODE" in this section.	6. Service mode

## [7] SERVICE MODE

### [7-1] The measured error rate is outside the specified range in Player Operation mode.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Scratches or dirt on the disc	DISC	First, whether the cause is attributable to the disc or to the player must be distinguished. Check if the recording surface of the disc is dirty.	If it is clearly dirty, replace it with a CD of good condition.	—
2	Scratches or dirt on the disc	DISC	Measure the error rate, using the same disc that produced the bad error rate but using the addresses in a different area. If the error rate measured in a different area is OK, the CD is defective.	If the error rate measured in a different area is OK, the CD is defective. Replace the CD with one in good condition. If no error rate measured in various areas throughout the entire surface of the CD is OK, go to [3].	—
3	Any foreign matter attached	Traverse mechanism	Check if any foreign matter, such as shavings, dirt, or dust, is attached to the lens of the Pickup Assy.	Clean the lens.	—
4	Improper assembly	Traverse mechanism	Check that the traverse mechanism has been securely installed.	If it has not, reinstall it properly.	—
5	Improper assembly	Traverse mechanism	Check that the loading mechanism Assy has been securely installed.	If it has not, reinstall it properly.	—
6	Any foreign matter attached	Traverse mechanism	Check for any foreign matter on the spindle table.	Remove any foreign matter.	—
7	Any foreign matter attached	Traverse mechanism	Check if any foreign matter is attached to the magnet portion of the Pickup Assy.	Remove any foreign matter.	—
8	Signal errors	MAIN Assy	Check that the waveforms of the RFO and AGCRF signals form clear eye patterns.	If their waveforms are not of the same quality, check the mounting status of the Servo IC (IC201). If it is correctly mounted, then it may be defective. Replace it.	10.11 WAVEFORMS MAIN ⑬, ⑭
9	Defective pickup	Traverse mechanism	If the symptom persists after the above corrections,	See "5.3 Diagnosis of the Pickup Assy" for details.	5.3 Diagnosis of the Pickup Assy

## A [7-2] The drive does not work during Test Operation mode.

The LD does not emit light.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective pickup	—	Check the LD current and measure the resistance value of the actuator.	See "5.3 Diagnosis of the Pickup Assy" for details.	5.3 Diagnosis of the Pickup Assy

The spindle motor does not rotate.

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Signal errors	MAIN Assy	Check that the DRVMUTE1 signal becomes H after loading is completed.	If the signal is not normal, check the mounting statuses of the DRIVER IC (IC204) and MAIN CPU (IC103) terminals. If they are properly mounted, then the IC103 may be defective.	—
2	Signal errors	MAIN Assy	Check a SPIN signal. (1.65 V at the center. The voltage in the start-up acceleration is around 3 V.)	If the signal is not normal, check the mounting statuses of the DRIVER IC (IC204) and Servo CPU (IC201) terminals. If they are properly mounted, then the IC204 and IC201 may be defective.	—
3	Power failure	MAIN Assy	Check the power voltages. (V+7R6M, V+5R6M, VREF1R65, V+3R3S)	Check the mounting statuses of the regulator IC of the power-supply section that produces that voltage and its peripheral parts. If they are properly mounted, then the parts may be defective. VREF1R65 is produced at the Servo IC (IC201). If this voltage is not output, check the mounting status of the IC201. If it is properly mounted, then the part may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM
4	Defective parts	—	If the symptom persists after the above corrections,	DRIVER IC(IC204) may be defective.	—

In-focus not possible

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective pickup	MAIN Assy	Check the LD current and measure the resistance value of the actuator.	Refer to the "5.3 Diagnosis of the Pickup Assy."	5.3 Diagnosis of the Pickup Assy
2	Power failure	MAIN Assy	Check the power voltages. (V+7R6M, V+5R6M, VREF1R65, V+3R3S)	For any power-supply section that does not output the voltage, check the mounting statuses of the regulator IC and its peripheral parts. If they are properly mounted, then the parts may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM

No tracking close

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Defective pickup	MAIN Assy	Check the LD current and measure the resistance value of the actuator.	Refer to the "5.3 Diagnosis of the Pickup Assy."	5.3 Diagnosis of the Pickup Assy
2	Power failure	MAIN Assy	Check the power voltages. (V+7R6M, V+5R6M, VREF1R65, V+3R3S)	For any power-supply section that does not output the voltage, check the mounting statuses of the regulator IC and its peripheral parts. If they are properly mounted, then the parts may be defective.	4.3 POWER SUPPLY BLOCK DIAGRAM
3	—	Traverse mechanism	Check that focusing is in. (If focusing is out, tracking close is not possible.)	See "In-focus not possible" above.	—

## [8] Error Codes

How to respond when an error code is displayed on the FL DISPLAY is described below.

<b>E-6002: COMMUNICATION ERROR</b>					
<b>• The program cannot be written in the DSP.</b>					
No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	Power failure	MAIN Assy	Check the power voltages. (V+3R3A, V+1R25)	If the voltage level is abnormal, IC402 or IC403 may be defective.	10.10 VOLTAGES
2	Defective part	MAIN Assy	Check if the AUDIO DSP (IC301) is operating.	If the AUDIO DSP (IC301) is not operating, it may be defective. If the AUDIO DSP (IC301) is operating, the MAIN CPU (IC103) may be defective.	[9] Basic operation check of CPU/DSP

## [9] Confirmation of basic operations of the CPU/DSP

First, check if the voltage at each section is OK.

### [9-1] Periphery of the MAIN CPU: IC103

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	—	MAIN Assy IC103	Check the waveforms and levels of the following signals: <ul style="list-style-type: none"> <li>Reset: MAIN_RST must be "H."</li> <li>Clock: Check the waveform of CLK66M.</li> <li>Status: Check the waveform of SH_STATUS.</li> </ul>	If the SH_STATUS signal is fixed at "L" or "H," the Main CPU is not operating. If both the Reset and Clock signals are OK, IC103 (MAIN CPU), IC101 (FLASH ROM) or IC102 (SDRAM) may be defective.	10.11 WAVEFORMS MAIN ①,④

### [9-2] SERVO DSP: IC201

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	—	MAIN Assy IC201	Check the waveforms and levels of the following signals (in CD PLAY mode): <ul style="list-style-type: none"> <li>Reset: SRVRST must be "H."</li> <li>Clock: Check the waveform of CLK_S_16M.</li> <li>Servo clock: Check the waveform of SRVCLK.</li> </ul>	If both the Reset and Clock signals are OK, but the SRVCLK signal is not output, the SERVO DSP (IC201) may be defective.	10.11 WAVEFORMS MAIN ③,⑥

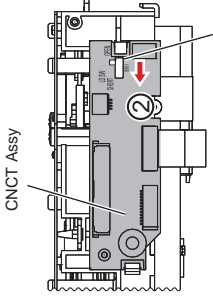
### [9-3] AUDIO DSP: IC301

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	—	MAIN Assy IC301	Check the waveforms and levels of the following signals (in PLAY mode): <ul style="list-style-type: none"> <li>Data request: DSPDREQ</li> <li>Reset: DSPRST must be "H."</li> <li>Clock: Check the waveform of CLK_A_16M.</li> </ul>	If both the Reset and Clock signals are OK, but the DSPDREQ signal is not output, the AUDIO DSP (IC301) may be defective.	10.11 WAVEFORMS MAIN ⑤,②

### [9-4] PANEL CPU: IC501

No.	Cause	Diagnostics Point	Item to be Checked	Corrective Action	Reference
1	—	MAIN Assy IC501	Check the waveforms and levels of the following signals: <ul style="list-style-type: none"> <li>Reset: RESET (IC501, Pin 12) must be "H."</li> <li>MAIN communication clock: Check the waveform of TSCK (IC501, Pin 37).</li> </ul>	If the Reset signal is OK, but the TSCK signal is not output, the PANEL CPU (IC501) may be defective.	10.11 WAVEFORMS MAIN ⑧

### 5.3 DIAGNOSIS OF THE PICKUP ASSY

Item	Specifications	Measurement Procedures	Failure Judgment	Remarks
Laser Diode (LD) current	Typ. 65 mA Max. 75 mA	<ol style="list-style-type: none"> <li>Make sure that no CD is loaded.</li> <li>Enter Service mode.</li> <li>Connect a tester between the test lands LD3S and LDCHK on the MAIN Assy to check the voltage difference between them.</li> <li>During Test Operation mode, press the TEMPO button to turn the LD on.</li> <li>Measure the voltage difference (DC value) between the test lands LD3S and LDCHK on the MAIN Assy. Press the TEMPO button to turn the LD off.</li> <li>Confirm that the voltage difference between test lands LD3S and LDCHK becomes 0 then disconnect the tester.</li> </ol>	<p>The LD can be judged to have degraded if the LD current, which is calculated by dividing the measured voltage difference (DC value) by 22, is 75 mA or higher.</p> <p><b>Note:</b> Check the mounting status of R227, R228, R232 and R233 (22 ohms).</p>	
Focus coil resistance	3.7 ± 0.55 □	<ol style="list-style-type: none"> <li>Make sure that no CD is loaded.</li> <li>Remove the bottom plate and set the LD short-circuit switch (S951) to Short side. (see right figure.)</li> <li>Disconnect the FFC cable that connects the CNCT Assy and the MAIN Assy from the CN201 connector.</li> <li>Measure the conductor resistance of the terminal assembly between Pins 33 and 34 of the FFC cable.</li> </ol>	<p>If the measurement result is beyond the specified value, the pickup is in failure.</p>	
Tracking coil resistance	4.3 ± 0.65 □	<ol style="list-style-type: none"> <li>Make sure that no CD is loaded.</li> <li>Remove the bottom plate and set the LD short-circuit switch (S951) to Short side. (see right figure.)</li> <li>Disconnect the FFC cable that connects the CNCT Assy and the MAIN Assy from the CN201 connector.</li> <li>Measure the conductor resistance of the terminal assembly between Pins 31 and 32 of the FFC cable.</li> </ol>	<p>If the measurement result is beyond the specified value, the pickup is in failure.</p>	
S-shaped level Usually use a pressed CD, as the measurement result depends on the disc type.	Reference: 1.7 Vp-p	<ol style="list-style-type: none"> <li>Enter Service mode.</li> <li>Load a pressed CD. (Standby)</li> <li>Connect and set a digital oscilloscope so that the p-p level at the test land (FE) can be measured.</li> <li>During Test Operation mode, press the TIME, then A CUE buttons to send a command.</li> <li>Measure the p-p level (S-shaped level) at the FF.</li> </ol>	<p>If the measurement result is twice or more, or 50 % or less of the reference value, the pickup or the MAIN Assy is defective.</p>	
Tracking Error (TE) level Usually use a pressed CD, as the measurement result depends on the disc type.	Reference: 1.0 Vp-p	<ol style="list-style-type: none"> <li>Enter Service mode.</li> <li>Load a pressed CD. (Standby)</li> <li>Connect and set a digital oscilloscope so that the p-p level at the test land (TE) can be measured.</li> <li>During Test Operation mode, press the buttons in the following order to send a command: TIME, TEMPO, RELOOP, then LOOP IN twice.</li> <li>Measure the p-p level of waveform at the TE.</li> </ol>	<p>If the measurement result is twice or more, or 50 % or less of the reference value, the pickup or the MAIN Assy is defective.</p>	
RFO level Usually use a pressed CD, as the measurement result depends on the disc type.	Reference: 1.1 Vp-p	<ol style="list-style-type: none"> <li>Play back a pressed CD.</li> <li>Measure the p-p level of RF waveform at the RFO test land on the MAIN Assy.</li> </ol>	<p>If the measurement result is twice or more, or 50 % or less of the reference value, the pickup or the MAIN Assy is defective.</p>	<p>You may disconnect the measuring equipment during measurement, if you wish.</p>
Auto Gain Control (AGC) RF level The measurement result does not depend on the disc type.	1.2 Vp-p ± 10 %	<ol style="list-style-type: none"> <li>Play back a CD.</li> <li>During playback, measure the p-p level of RF waveform at the AGCRF test land on the MAIN Assy.</li> </ol>	<p>If the RFO level value is twice or less, or 50 % or less of the reference value, and the AGC RF level is out of the range stipulated in the specifications, the MAIN Assy is defective.</p>	<p>You may disconnect the measuring equipment during measurement, if you wish.</p>

## 5.4 CONNECTION CHECK WITH THE PC

### [1. USB B connector]

Whether communication between the PC connected via the USB B connector and this unit is properly performed or not can be confirmed on the PC.

**Note:** Installation of the driver software is not necessary.

#### ■ CONTROL MODE Setting

When you check the connection, please set this unit to CONTROL MODE.

##### ● How to Enter

Press the [  ] key more than one second.

#### ■ Use Device Manager for checking.

If the PC and this unit are properly connected, the components of this unit are added in Device Manager (under Hardware) as devices.

If all components are properly displayed, the PC and this unit are properly communicating via the USB connector.

In a case of Windows XP:

Start, Control Panel, System, Hardware, then Device Manager

Devices to be added:

Universal Serial Bus controllers

USB Composite Device

Under "Sound, video and game controllers"

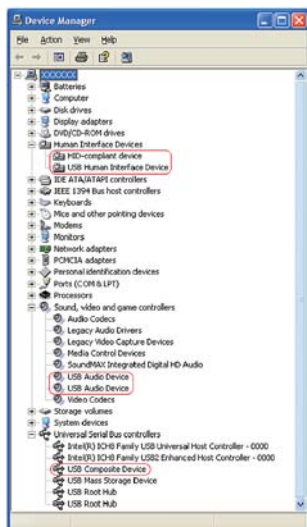
USB Audio Device

Human Interface Devices

HID-compliant device

USB Human Interface Device

A communication check may be easily performed if connection is made with Device Manager displayed on the PC screen.



## 5.5 ABOUT VOLTAGE MONITORING

### A ■ Specifications of Voltage Monitoring

The Panel microcomputer of this unit always monitors for power failure of the unit and will shut the unit off immediately after an error is detected.

The specifications of the terminal of the microcomputer for monitoring are as shown below.

#### ■ Name of the terminal of the microcomputer: VDET (Pin 3 of IC501)

- Content to be detected  
Power failure generated inside the MAIN and SMPS Assys
- Terminal voltage  
Normal: 5 V  
Abnormal: 0 V

- B
- Timing of monitoring start  
0.1 sec after the unit is turned ON
  - Timing for failure judgment  
0.5 sec after an error is detected

If an error is generated, the STANDBY LED will flash after the unit shuts itself off.

- After the unit shuts itself off because of an error, unplug the AC power cord and wait 1 minute before turning the unit ON by pressing the STANDBY/ON key.

#### Diagnostic procedure

- C
- ① Unplug the AC power cord.
  - ② Replace R599 on the PNLB Assy with R569.
  - ③ Plug the AC power cord.
  - ④ Turn the unit ON and check each voltage.  
\*Unplug the AC power cord after several seconds, because power will be forcibly supplied even if any voltage is abnormal.  
(If abnormal voltage continues, the defective point may produce heat, which may be dangerous.)
  - ⑤ If the voltage at any power IC is abnormal, the circuit that is connected to the power IC or the power IC itself may be defective.
  - ⑥ Repair the defective part.
  - ⑦ Replace R569 on the PNLB Assy with R599 (return R599 to its original position).

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## 6. SERVICE MODE

### 6.1 TEST MODE

The following service modes are prepared for this unit.

- ① Confirmation of the button input and an indication function.  
It is the mode which checks each input and display function of a button, a JOG dial, the slider volume, and an encoder.
- ② Check mode of the load of JOG dial.  
It is the mode which measures the load when rotating JOG dial.
- ③ Indication of various information  
It is a mode displaying information such as a version and an error history, a device normal / abnormality judgment.
- ④ Error display list  
An error code and the contents are shown.
- ⑤ Confirmation of movement of the drive unit  
It is the mode which checks operation of a mechanism and servo of drive unit.
- ⑥ Updating firmware  
Mode for firmware updating. Two modes (one for updating using a USB memory device and one for updating using a CD-ROM) are provided.  
Refer to the "8.4 UPDATING OF THE FIRMWARE."

### 6.2 ABOUT THE DEVICE OF CDJ-350

Device Name	Function	Part No.	Ref No.	Assy
MAIN CPU	System control	R5S72630P200FP	IC103	MAIN Assy
FLASH	Memory for MAIN CPU (Firmware)	DYW1792	IC101	MAIN Assy
SDRAM	Memory for MAIN CPU (Work)	K4S561632J-UC75	IC102	MAIN Assy
DSP	Audio DSP	DSPC56371AF180	IC301	MAIN Assy
DSP	Servo DSP	TC94A15FG	IC201	MAIN Assy
Servo Driver	Disc drive control	BD7956FS	IC204	MAIN Assy
Panel microcomputer	Button input, LED & FL control	PEG740A8-K	IC501	PNLB Assy

## 6.3 DETAILS ON SERVICE MODE

### A [1] Display of various information

#### How to Enter Service Modes

##### 1) Version/error history

The Version Display mode is entered after the RELOOP key is held pressed for at least 10 sec.  
(This does not apply when the TEMPO slider is set to the end "-" (uppermost) position or "+" (lowermost) position.  
Each time the BPM LOCK key is pressed in Version Display mode, the versions for the MAIN, DISPLAY, and DSP programs are displayed, in that order.

To change screens between Version Display and Error History, press the VINYL MODE key while the Version Display screen is displayed.

B The error log screens will be changed if you press the DIVIDE (LEFT) or DIVIDE (RIGHT) key while the error history is displayed.

##### 2) Service mode (Panel diagnosis/JOG load measurement)

To enter Service mode, set the POWER switch to ON while holding the BACK and TEMPO RANGE keys pressed.  
To enter JOG Load Measurement mode, set the TEMPO slider to the + (MAX) position during Service mode.  
For details on how to operate, see "[2] Confirmation of the button input and an indication function."  
Set the POWER switch to OFF to quit this mode.

##### 3) CD drive diagnosis mode

To enter CD Drive Diagnosis mode, set the POWER switch to ON while pressing the TIME and CD SELECT keys pressed.  
Set the POWER switch to OFF to quit this mode.

##### 4) Firmware Updating (USB media)

To enter this mode, set the POWER switch to ON while pressing the SOURCE SELECT USB and RELOOP keys pressed.  
After updating is completed, set the POWER switch to OFF to quit this mode.

##### 5) Firmware Updating (CDROM media)

To enter this mode, set the POWER switch to ON while pressing the SOURCE SELECT DISC and RELOOP keys pressed.  
After updating is completed, set the POWER switch to OFF to quit this mode.

##### 6) Factory reset

To enter this mode, set the POWER switch to ON while holding the SOURCE SELECT USB and BACK keys pressed.  
For details on items to be factory-reset, see "8.3 USER SETTABLE ITEMS."



## [2] Confirmation of the button input and an indication function

When it spends a power supply while prssing a TEMPO RANGE button and a BACK button simultaneously, It is displayed in the FL, "SERVICE MODE", and enters into this mode.

In this mode, the input of each button, JOG, volume, etc. is normal, and it can check that a display can also be performed normally. In addition, indication turns on while pressing a button.

**Caution:** In this status display, if a TEMPO SLIDER is shifted to the + direction (lower side), it will shift to "the load measurement mode of JOG."

Button, Switch	Light up LED	Status display of FL (BUTTON)	Other Displays
PLAY/PAUSE	PLAY/PAUSE	PLAY	
CUE	CUE	CUE	
IN/CUE/HOT LOOP	IN/CUE/HOT LOOP	IN	
OUT/OUT ADJUST	OUT/OUT ADJUST	OUT	
RELOOP/EXIT	RELOOP/EXIT	RELOOP	
TRACK REV (◀◀)		TRACK  <<	
TRACK FWD (▶▶)		TRACK >>	
SEARCH REV (◀◀)		REV <<	
SEARCH FWD (▶▶)		FWD >>	
JOG MODE	VINYL	JOG MODE	
TEMPO		TEMPO	
MASTER TEMPO	MASTER TEMPO	MASTER TEMPO	
TIME MODE/AUTO CUE		TIME/ACUE	
DISPLAY/UTILITY		DISPLAY	
BACK	All LED lights up	All FL lights up	
EJECT	EJECT	EJECT	
BEAT LOOP/LOOP DIVIDE(LEFT)	BEAT LOOP/LOOP DIVIDE	DIVIDE <-	
BEAT LOOP/LOOP DIVIDE(RIGHT)	BEAT LOOP/LOOP DIVIDE	DIVIDE ->	
JOG TOUCH		JOG TOUCH SW	
TEMPO SLIDER			■ MARK of PLAYING ADDRESS
JOG (FWD)		JOG >	
JOG (REV)		JOG <	
USB_STOP	USB_STOP	USB STOP	
USB	USB	USB	The upper part of the left of FL lights up.
CD	CD	CD	The upper part of the right of FL lights up.
PC	PC	PC	The lower part of the left of FL lights up.
ROTARY SELECTOR (SW)		PUSH	
ROTARY SELECTOR (FWD ROTATE*1)		The number of upper of FL is increased.	
ROTARY SELECTOR (REV ROTATE*2)		The number of upper of FL is decreased.	
PLAYLIST		ADD PLAYLIST	
BPM LOCK		BPM ADJUST	

\*1: Turn to the right.

\*2: Turn to the left.

## [3] Check mode of the load of JOG dial

Refer to the "8.2 JOG DIAL ROTATION LOAD ADJUSTMENT."

#### A [4] The list of error display

Time display shows "E-XXXX: DISC DRIVE ERROR".

Main	Sub	Error Type	Medium	Error Content
E-6002	—	DSP PROGRAM	—	The program cannot be written in the DSP.
E-7024	—	Updating error	—	Updating failed.
E-7201	26	TOC READ ERROR	CD	TOC data cannot be read.
E-8301	22	PLAYER ERROR	CD	Focus servo cannot be closed.
	91		CD	The pickup cannot be returned to the inner track of the disc.
E-8302	12	PLAYER ERROR (Playback error)	CD	The desired address could not be searched for.
	15		CD	The address could not be read.
E-8303	99	Buffer write error	CD	Writing of music data in the buffer failed.
E-8304	—	Decoding error	CD	Although compressed music data files (MP3/AAC) are supported by this unit, a data or decoding (decompression) error was generated.
E-8305	—	Format error	CD	Although the filename extension of the music file (MP3/AAC/WAV/AIFF) is proper, the format of descriptions in the file is not supported.
E-8306	—	No music file	USB	Although the piece of music had once been registered in the library (database) or a playlist, etc., that piece had been erased from the USB storage device as of time of playback.
E-8307	—	USB writing error	USB	Writing to the USB storage device failed.
E-8709	—	COMMUNICATION ERROR	—	Communication between the panel microcomputer and the main microcomputer failed.
E-9101	90	LOADING TIMEOUT	CD	A mechanical error (timeout) was generated during loading/unloading of a disc.

## [5] Confirmation of movement of the drive unit

This mode consists of "player operation mode" and "test operation mode."

### <Player operation mode>

Basic operation of Servo, such as setup, play, pause, and track search, is carried out. Moreover, measurement of an error rate can also be performed.

### <Test operation mode>

Servo operation is finely controllable gradually.

\* It becomes player operation mode and shifts to test operation mode by the key input in the beginning.

\* The command treated here is for mainly testing a mechanism and a servo system, and is not for DJ functions, such as scan and tempo.

Function	Main unit button
<Player operation mode>	
Servo All Off (Stop)	TIME
Play(Trace) / Pause	PLAY/PAUSE
Track Search Fwd/Rev	TRACK SEARCH FWD/REV
Error Rate Count	CUE
Eject	EJECT
Mode Change (-> Test operation mode)	MASTER TEMPO
<Test operation mode>	
Servo All Off (Stop)	TIME
LD On/Off TEMPO	TEMPO
Focus On/Off RELOOP	RELOOP
Spindle Kick, Tracking On	IN/CUE (HOT LOOP)
Tracking Off	OUT (OUT ADJUST)
Slide FWD	SEARCH FWD
Slide REV	SEARCH REV
Pickup Up/Down	DISPLAY/UTILITY
Mode Change (->Player operation mode)	MASTER TEMPO

## ■ Player operation mode command

### Play(Trace) / Pause

If it is in a stop state, it will set up and play. Moreover, if it is in a play state, whenever it will push a button, a pause and a play are carried out by turns.

Display a playing address in FL at present.

**Note:** In this mode, even if it inserts a disc, an automatic setup is not carried out.

Moreover, a play is not carrying out audio reproduction, but is tracing the signal side of a disc.

Trace a disc by a turn of four times speed in the play. The sound is not output.

### Track Search F/R

Search a track displayed by a FWD / REV direction and do pause.

### Error Rate Count

I measure an error rate from a present position doing a play/pause for about 10 seconds and display a measurement result in FL. Usually, a track to measure is made to search and this button is inputted from a pause state.

For example, it is displayed as "3.56E-4 O.K." etc.

If an error rate is less than 3.00E-3, it will be displayed as OK. If an error rate is larger than 3.00E-3, it will be displayed as NG.

Measurement with the managed disc at the time of factory shipments is a premise.

The product does not judge whether they are inferior goods at the time of service.

### Eject

A disc is ejected.

### Mode Change

If the MASTER TEMPO button is pushed into player operation mode, MASTER TEMPO LED will light up, and it will shift to the below-mentioned "test operation mode."

## A ■ Test operation mode command

Servo operation is finely controllable gradually.

Keep in mind a test operation mode command that it may give a damage to a player as mistaking the usage.

### Servo All Off

When servo is ON, all servo will be turned off if the TIME button is pushed.  
"ALL OFF" will be displayed.

### LD On/Off

The LD can be turned on or off by pressing the TEMPO key. "LD ON" or "LD OFF" will be displayed.

## B Focus On

If the RELOOP key is pressed in Stop mode, the LD is turned ON and auto focusing will be performed.  
"FCS ON" will be displayed.

### Spindle Kick, Tracking On/Off

If the IN/REALTIME CUE (LOOP IN) key is pressed while the tracking servo is OFF, spindle kick then automatic adjustment will be performed, after which the tracking servo will be turned ON.  
If the key is pressed while the tracking servo is ON, it will be turned OFF. "TRK ON" or "TRK OFF" will be displayed.

### Tracking Off

If the OUT (LOOP OUT) key is pressed while the tracking servo is ON, it will be turned OFF.  
"TRK ON" will be displayed.

## C

### Slide FWD

If the SEARCH n (FWD) key is pressed while the tracking servo is ON, it will be turned OFF and the slider will be shifted by about 2 mm in the FWD direction. "SLD FWD" will be displayed.

### Slide REV

If the SEARCH m (REV) key is pressed while the tracking servo is ON, it will be turned OFF and the slider will be shifted by about 2 mm in the REV direction. "SLD REV" will be displayed.

### Pickup Up/Down

If the DISPLAY/UTILITY key is pressed during Stop mode, the LD will be turned ON then the pickup will be moved up and down. Focusing will not be closed. "PU UP/DN" will be displayed.

## D

### Mode Change

If the MASTER TEMPO key is pressed in Test Operation mode, the MASTER TEMPO LED will go dark then above-mentioned Player Operation mode will be entered.

\*To start up the unit in Test mode in steps, input the commands in the following order: "Servo All Off," "Focus On," then "Spindle Kick, Tracking On."

## E [6] Updating of the firmware

Refer to the "8.4 UPDATING OF THE FIRMWARE."

## F

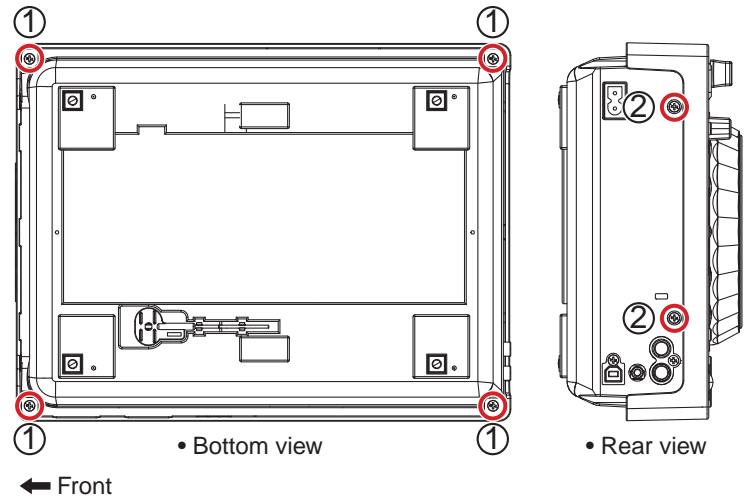
# 7. DISASSEMBLY

**Note:**

- (1) Do NOT look directly into the pickup lens. The laser beam may cause eye injury.
- (2) Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

## Diagnosis of MAIN Assy

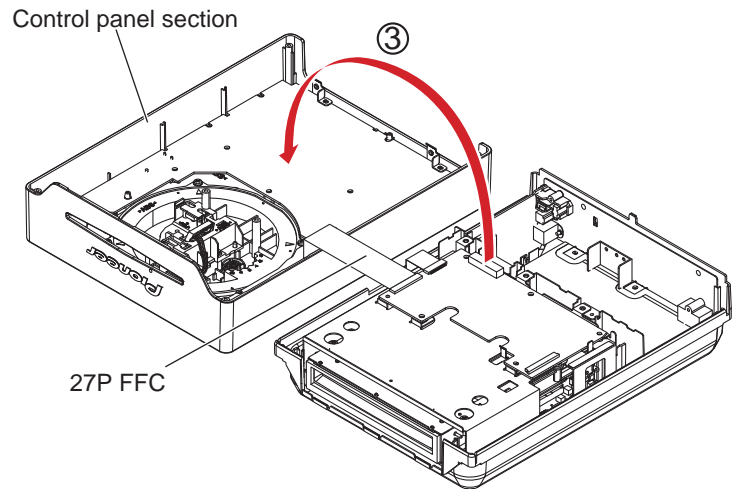
- (1) Remove the four screws. (BPZ30P080FTB)
- (2) Remove the two screws. (BBZ30P060FTB)



- (3) Remove the control panel section.

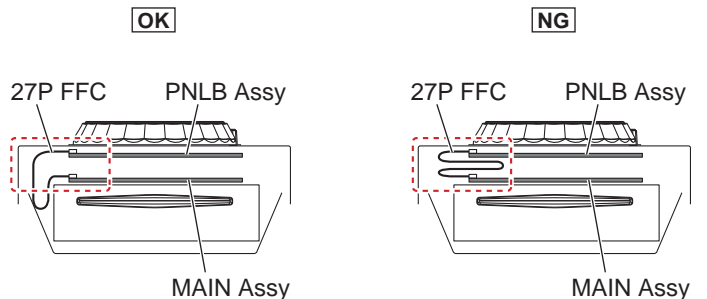
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Diagnosis



**• Note on Reassembly**

Make styling so that 27P FFC does not insert it inward (top of MAIN Assy).

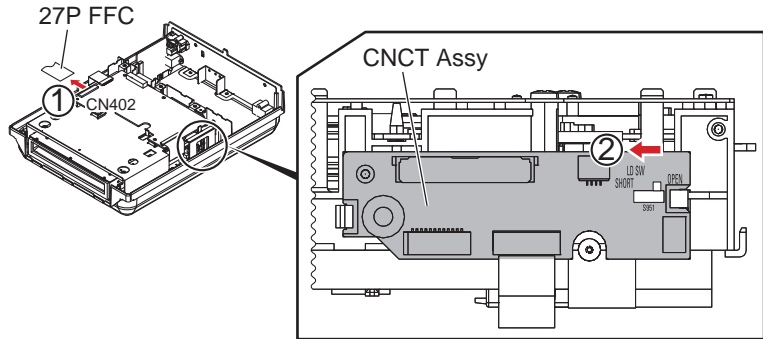


A **SLOTIN MECHA Section**

**[1] MAIN PCB stay**

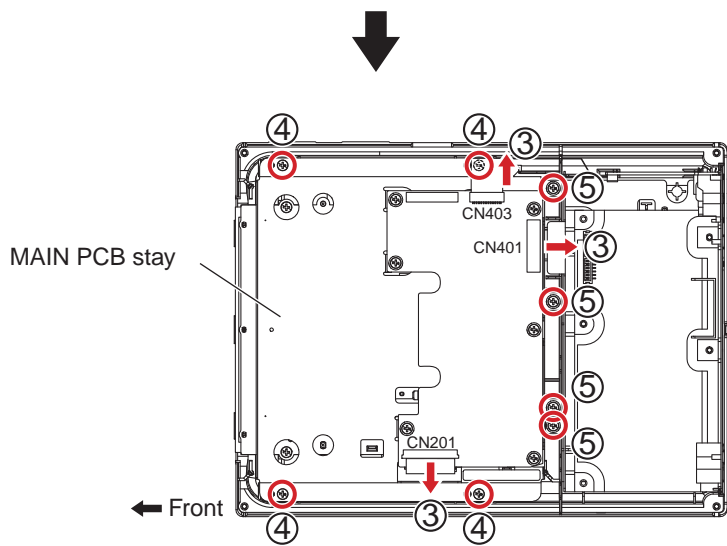
- (1) Disconnect the 27P FFC from control panel section.
- (2) Change the position of the LD SW (S951) on the CNCT Assy to "SHORT".

**Note:**  
After work, connect the flexible cable on step (3), then change the position to "OPEN".



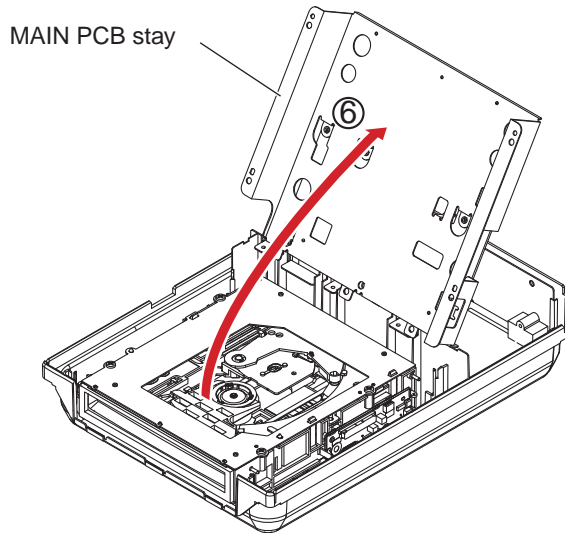
B

- (3) Disconnect the two flexible cables and one connector.
- (4) Remove the four screws. (BPZ30P080FTB)
- (5) Remove the four screws. (ABZ30P060FTC)



D

- (6) Remove the MAIN PCB stay.

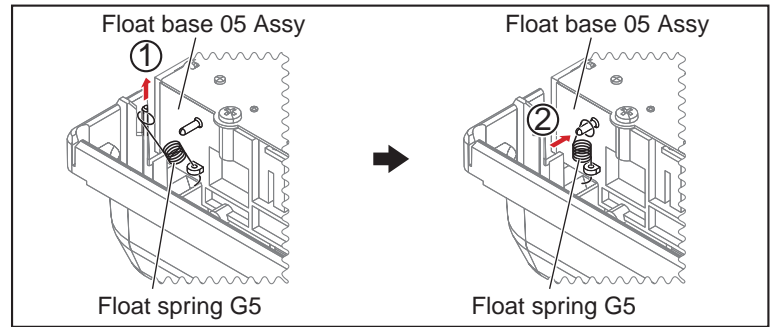
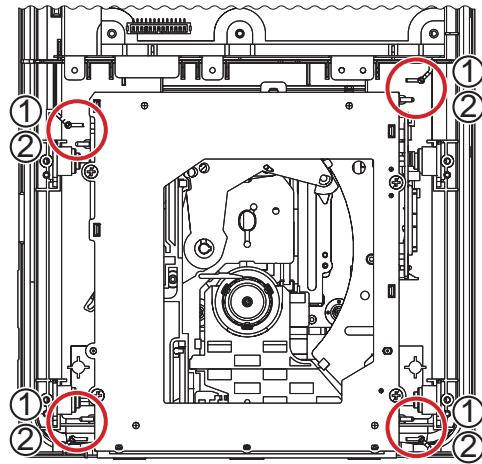


E

F

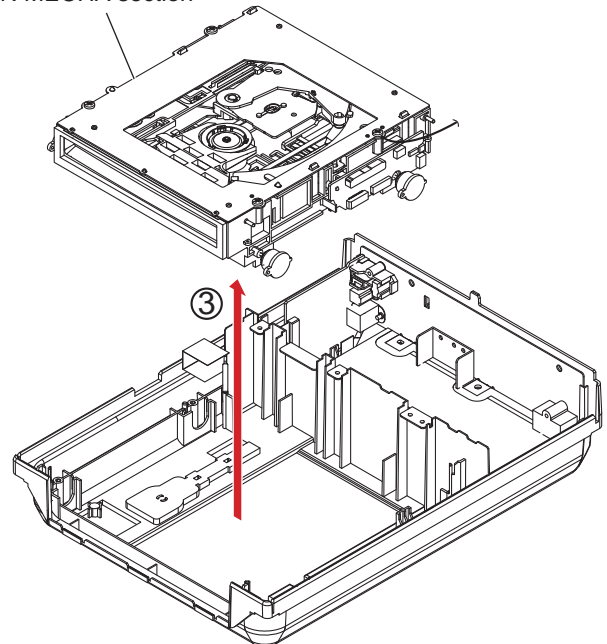
### [2] SLOTIN MECHA Section

- (1) Remove the four float springs G5.
- (2) Hook the four float springs G5 to the four hooks of the float base 05 Assy.

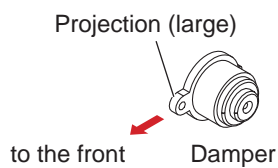


- (3) Remove the SLOTIN MECHA section.

SLOTIN MECHA section



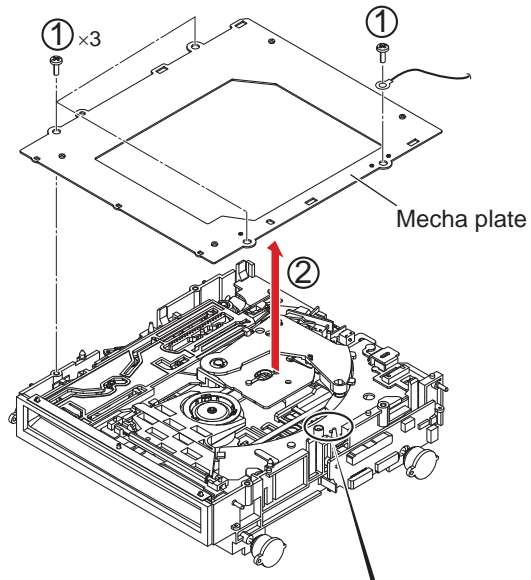
**Direction of the dampers when attaching them**  
 When attaching the dampers, place them so that their projections (large) face front.



A **TM Assy-S (VTM091)**

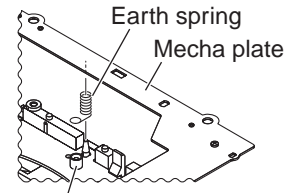
**[1] Mecha Plate**

- (1) Remove the four screws. (BPZ30P080FTB)
- (2) Remove the mecha plate.



**Note of earth spring**

- Be sure not to lose it.
- Be careful to the installation places.
- Confirm it by viewing.

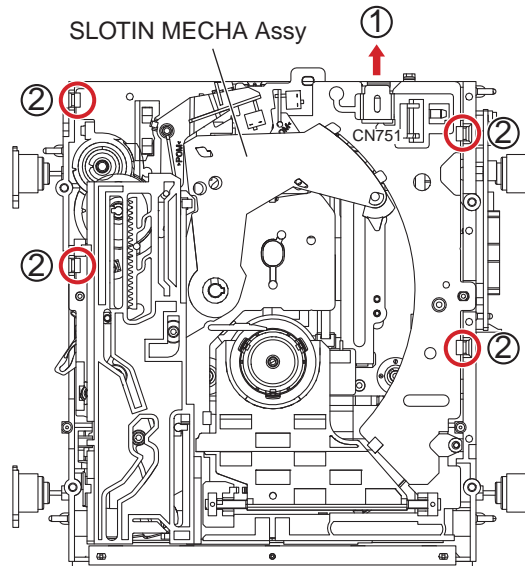


This boss is not installation position.



D **[2] SLOTIN MECHA Assy**

- (1) Disconnect the flexible cable.
- (2) Unhook the four hooks.

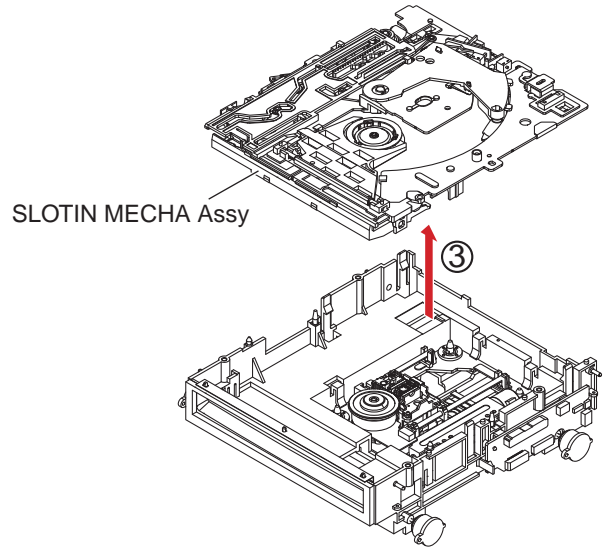
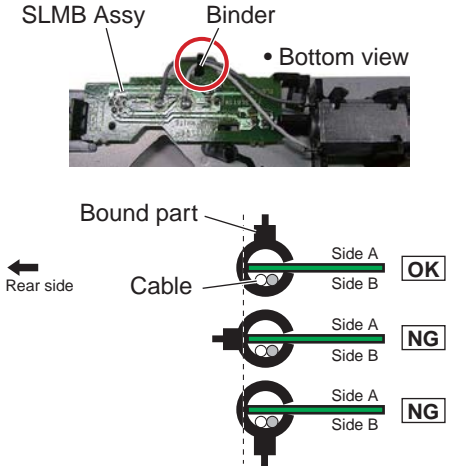




(3) Remove the SLOTIN MECHA Assy.

• **Note on Reassembly**

When binding the cables from the SLMB Assy, be careful that the bound part will not protrude from the edge of the board toward the rear. Bind them so that the bound part will come to the upper side of Side A.



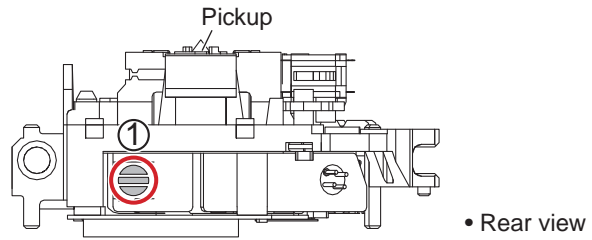
A  
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### A [3] TM Assy-S (VTM091)

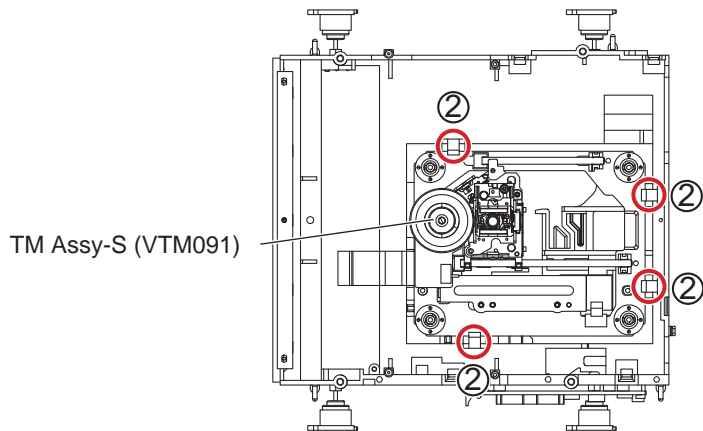
(1) Short-circuit two positions of figure solodering. (short)

**Note:**

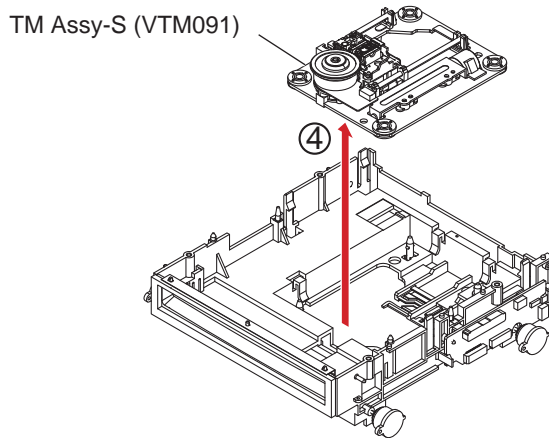
After working, connect the flexible cable, then remove the soldered joint (open).



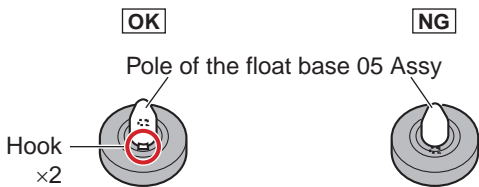
B (2) Unhook the four hooks.



(3) Release the flexible cables, as required.  
(4) Remove the TM Assy-S (VTM091).



#### Note on the float rubber installation

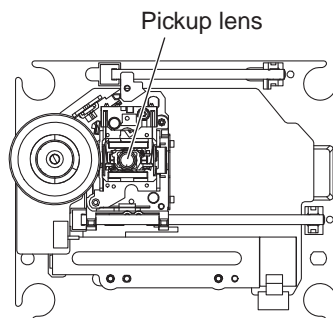


#### Cleaning the pickup lens



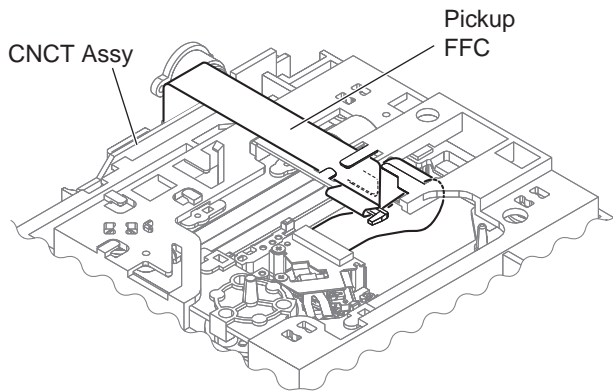
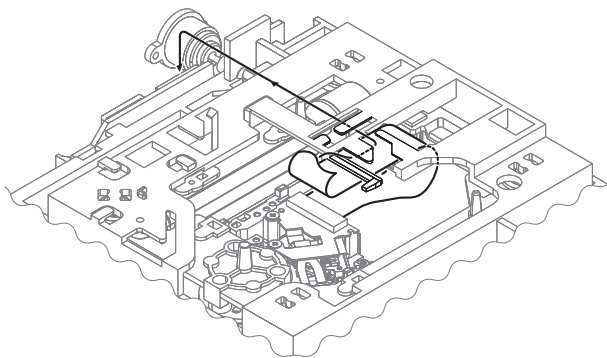
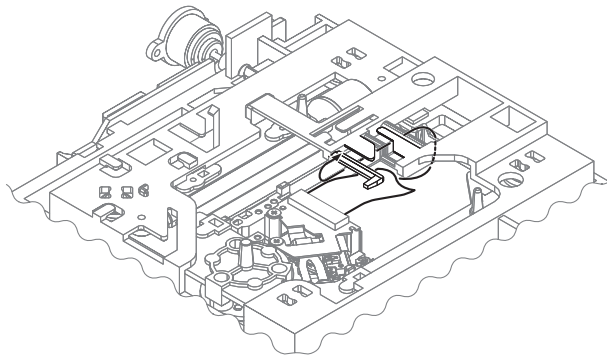
Before shipment, be sure to clean the pickup lens, using the following cleaning materials:

- Cleaning liquid : GEM1004
- Cleaning paper: GED-008

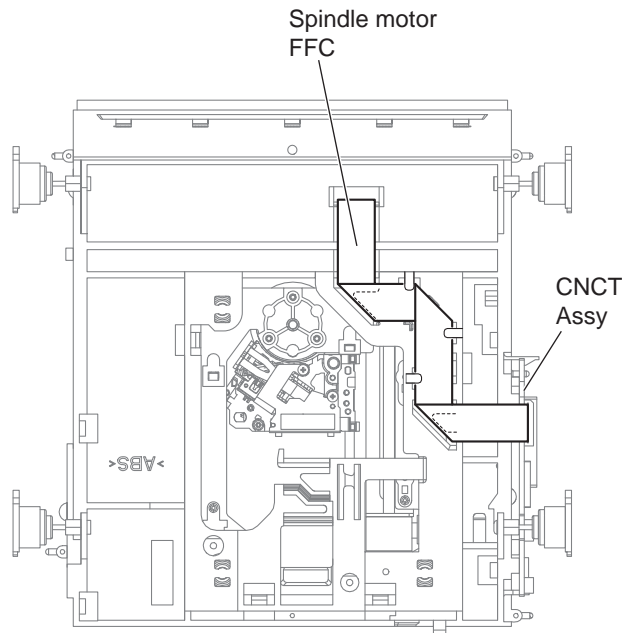


# Arrangement of the FFC

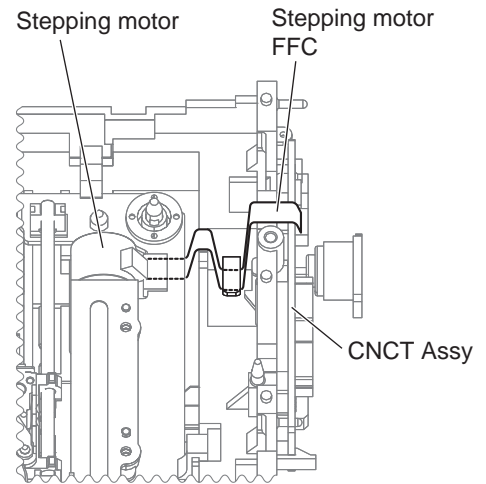
## • Pickup FFC



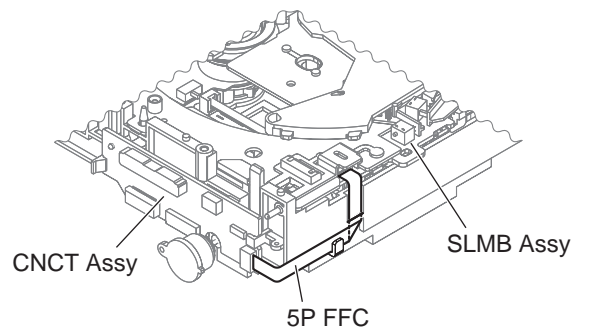
## • Spindle motor FFC



## • Stepping motor FFC

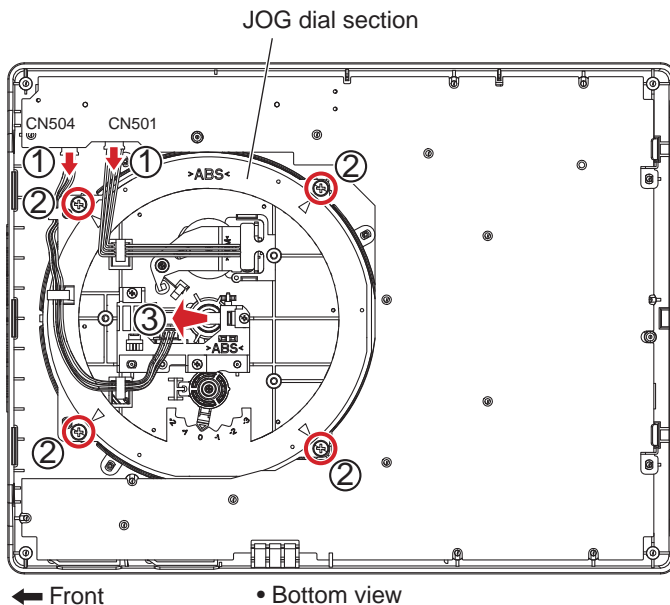


## • 5P FFC



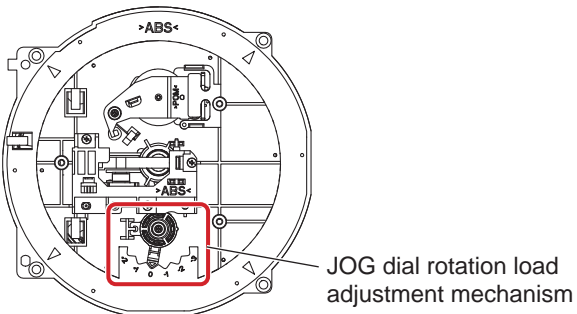
### A JOG Dial Section

- (1) Disconnect the two connectors.
- (2) Remove the four screws. (BPZ30P080FTB)
- (3) Remove it while pulling JOG dial section to front side.



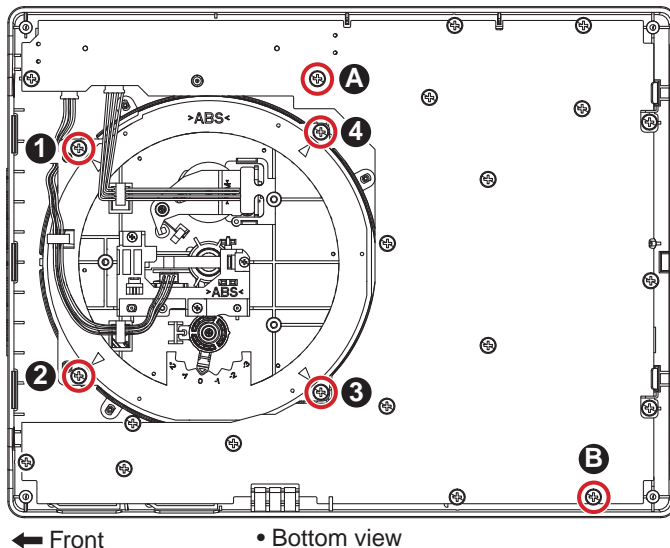
### JOG Dial Rotation Load Adjustment Mechanism

About details of Adjustment etc., refer to the "8.2 JOG DIAL ROTATION LOAD ADJUSTMENT".



### Screw tightening order

The other screws are random order.



# 8. EACH SETTING AND ADJUSTMENT

## 8.1 NECESSARY ITEMS TO BE NOTED

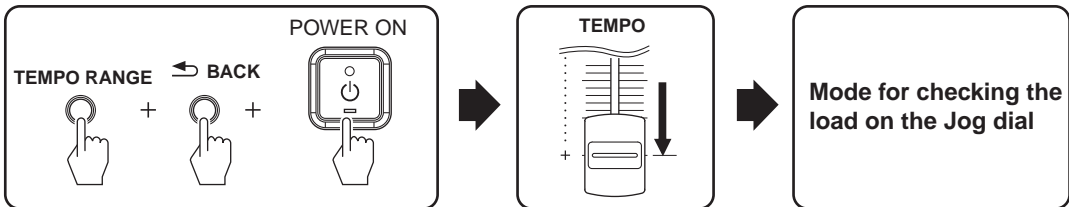
Before repairing, be sure to check the version of the firmware, and if it is not the latest one, update to the latest version. Perform the each item when the following parts are replaced.

- MAIN Assy (Flash ROM) →
  - Confirmation of the version of the firmware (MAIN, DSP)
  - Updating to the latest version of the firmware
  
- Part of JOG dial section → • JOG dial rotation load adjustment

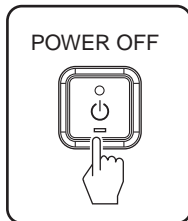
## 8.2 JOG DIAL ROTATION LOAD ADJUSTMENT

### JOG Check Mode : ON

• It is the mode which judges the load (light/heavy) numerically when rotating the JOG dial.



### JOG Check Mode : CANCEL



**[Measuring method]**

1. The adjustment value of the Cam plate should be adjusted to "0" (Refer to Fig. 1).
2. First, rotate the Jog dial 5 times or more. The value at this time should not be included in measurement.  
The actual measurement should be done after this rotation.
3. Enters the the Jog load confirmation mode.
4. Rotate the Jog dial quickly, and the direction of the rotation should be clockwise.
5. The rotational speed, time and the judgement are displayed in the FL display (Refer to Fig. 2).  
The decreasing time of the rotation speed from x3 to x1.5 ("the rotation decreasing time") is displayed only when the maximum speed is x7 or more.  
Confirm that the average of 4 times of "the rotation decreasing time" is in the spec.  
Spec: 80 ± 10 msec.

Note: This spec (80 ± 10 msec) applied to only the process to fulfill the spec of the final product (80 ± 25 msec).  
5. If "the rotation decreasing time" is not in the spec, change the adjustment value of the Cam plate and do the above inspection from No. 3 to No. 4 again.

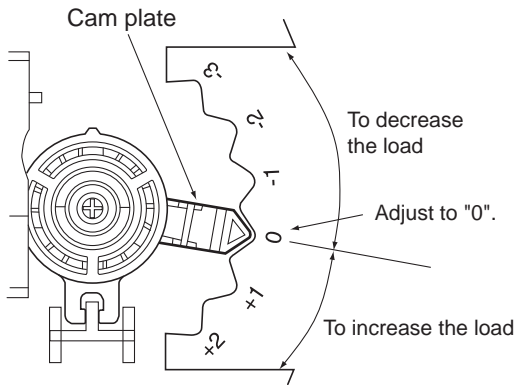


Fig. 1 Cam plate

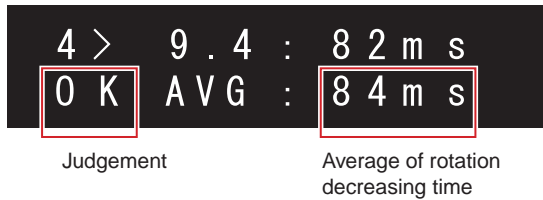


Fig. 2 Example of displaying FL

**[Load adjustment method]**

If it is outside the specified range (-1, -2, -3, +1, +2) , adjust the position of the Cam plate.

- 1, -2, -3 : To decrease the load
- +1, +2 : To increase the load

**8.3 USER SETABLE ITEMS**

The following data have been set in each IC.

Item for Which User's Setting is Available	Setting Value (The factory default settings are indicated in bold.)	Part No.	Part Name	Ref No.	Assy	Content to be Stored
A. CUE LEVEL	-36 dB/-42 dB/-48 dB/ -54 dB/ <b>-60 dB</b> /-66 dB/ -72 dB/-78 dB	DYW1792	Flash ROM	IC101	MAIN	UTILITY setting
MIDI CHANNEL	<b>1</b> to 16					
AUTO STANDBY	OFF/ <b>20 min</b> /40 min/60 min					
LIBRARY CREATOR	<b>LIBRARY</b> /FOLDER					
VERSION No.	—					
TIME MODE	TIME/ <b>REMAIN</b>	DYW1792	Flash ROM	IC101	MAIN	Statuses of keys
AUTO CUE	ON/ <b>OFF</b>					
JOG MODE	CDJ/ <b>VINYL</b>					
TEMPO RANGE	± 6 % / <b>±10 %</b> / ±16 % / WIDE					
MASTER TEMPO	ON/ <b>OFF</b>					

## 8.4 UPDATING OF THE FIRMWARE

The device and updater file name for update is the following.

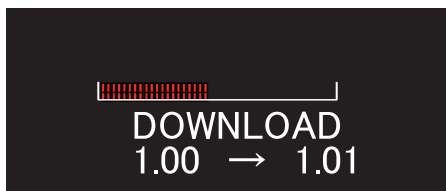
	Device	File Name
MAIN	MAIN CPU	C350MAIN.UPD

A version is not contained in a file name.

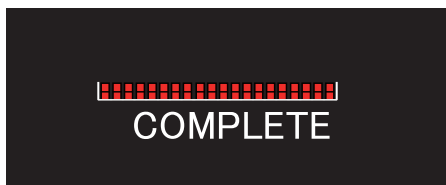
### ■ When USB memory is used

Please use USB memory formatted by FAT32. It does not correspond to HFS+.

- ① A file to update is copied to USB memory.
- ② Please turn on a power supply, pushing both the buttons of SOURCE SELECT/USB and RELOOP.  
(Please continue pushing until "DOWNLOAD" screen appears.)
- ③ The FL is displayed the following screen during update.  
In the display example, show it is updating to 1.01 from Ver. 1.00.



- ④ Since the message of "COMPLETE" will be displayed if update is completed, please return on a power supply.



### ■ When CD-R/RW is used

- ① A file to update is copied to CD-R/RW.
- ② Please turn on a power supply, pushing both the buttons of SOURCE SELECT/DISC and RELOOP.  
(Please continue pushing until "DOWNLOAD" screen appears.)
- ③ The rest is the same as that of the case where USB memory is used.

### ■ Recovery when failing

When the power supply has been turned off on the way, subsequent normal operation becomes impossible.

When the error code of "E-7024" is displayed, the recovery mode operates when performing the update procedure mentioned above again, and update is performed.

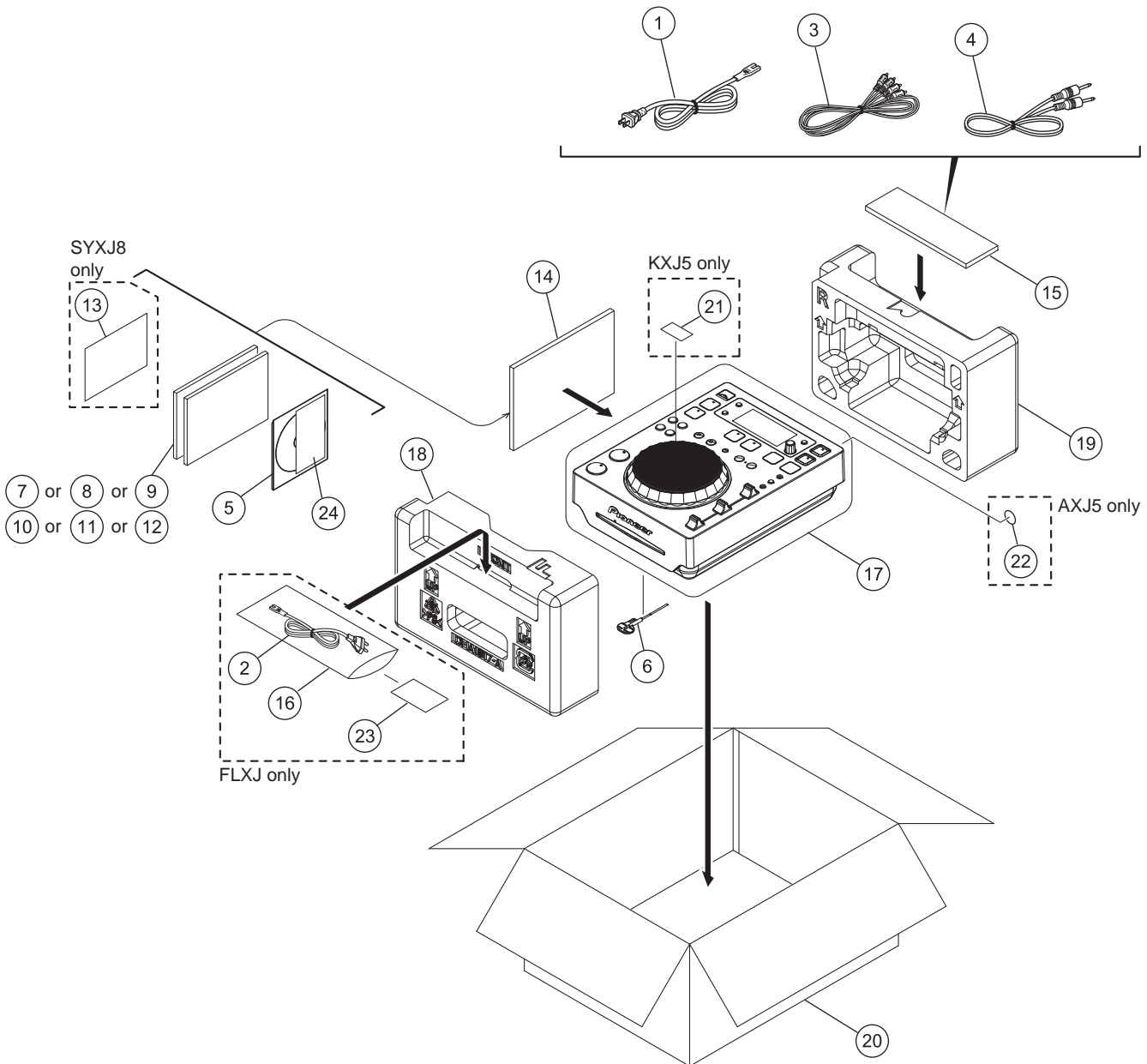
In this case, please carry out by USB memory in recovery. CD-ROM cannot be used.

# 9. EXPLODED VIEWS AND PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

- The  $\triangle$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- Screws adjacent to  $\nabla$  mark on product are used for disassembly.
- For the applying amount of lubricants or glue, follow the instructions in this manual. (In the case of no amount instructions, apply as you think it appropriate.)

## 9.1 PACKING SECTION





**(1) PACKING SECTION PARTS LIST**

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
⚠	1 Power Cable	See Contrast table (2)	15	Vinyl Bag	Z21-013
⚠	2 Power Cord (Taiwan)	See Contrast table (2)	16	Vinyl Bag	See Contrast table (2)
	3 Audio Cable	XDE3045	17	Packing Sheet	AHG7015
	4 Control Cord	XDE3063	18	Pad F	See Contrast table (2)
	5 CD-ROM (rekordbox license key attached)	DXX2653	19	Pad R	See Contrast table (2)
	6 Disc Force Eject Pin (mounted on bottom of product)	DEX1008	20	Packing Case	See Contrast table (2)
	7 Operating Instructions	See Contrast table (2)	21	Recycle Label (M)	See Contrast table (2)
	8 Operating Instructions	See Contrast table (2)	NSP 22	CCC S & E Label	See Contrast table (2)
	9 Operating Instructions	See Contrast table (2)	23	Caution Card SB	See Contrast table (2)
	10 Operating Instructions)	See Contrast table (2)	NSP 24	License Key Label Assy	DXA2190
	11 Operating Instructions	See Contrast table (2)			
	12 Operating Instructions	See Contrast table (2)			
NSP	13 Warranty Card	See Contrast table (2)			
NSP	14 Polyethylene Bag	AHG7117			

**(2) CONTRAST TABLE**

CDJ-350/SYXJ8, CUXJ, FLXJ, KXJ5 and AXJ5 are constructed the same except for the following:

<u>Mark</u>	<u>No.</u>	<u>Symbol and Description</u>	<u>CDJ-350 /SYXJ8</u>	<u>CDJ-350 /CUXJ</u>	<u>CDJ-350 /FLXJ</u>	<u>CDJ-350 /KXJ5</u>	<u>CDJ-350 /AXJ5</u>
⚠	1	Power Cable	ADG1154	ADG7022	ADG1154	XDG3054	ADG7079
⚠	2	Power Cord (Taiwan)	Not used	Not used	ADG7097	Not used	Not used
	7	Operating Instructions (En, Fr, De)	DRB1508	Not used	Not used	Not used	Not used
	8	Operating Instructions (It, NI, Es, Ru)	DRB1534	Not used	Not used	Not used	Not used
	9	Operating Instructions (En, Fr)	Not used	DRB1507	Not used	Not used	Not used
	10	Operating Instructions (En, Es, Zhtw)	Not used	Not used	DRB1509	Not used	Not used
	11	Operating Instructions (Ko)	Not used	Not used	Not used	DRB1511	Not used
	12	Operating Instructions (Zhcn, En)	Not used	Not used	Not used	Not used	DRB1510
NSP	13	Warranty Card	ARY7107	Not used	Not used	Not used	Not used
	16	Vinyl Bag	Not used	Not used	Z21-013	Not used	Not used
	18	Pad F	DHA1817	DHA1817	DHA1817	DHA1819	DHA1817
	19	Pad R	DHA1818	DHA1818	DHA1818	DHA1820	DHA1818
	20	Packing Case	DHG2957	DHG2958	DHG2960	DHG2962	DHG2961
	21	Recycle Label (M)	Not used	Not used	Not used	DRW2307	Not used
NSP	22	CCC S & E Label	Not used	Not used	Not used	Not used	DRW2310
	23	Caution Card SB	Not used	Not used	ARM7064	Not used	Not used

# 9.2 EXTERIOR SECTION

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Refer to "9.3 CONTROL PANEL SECTION".

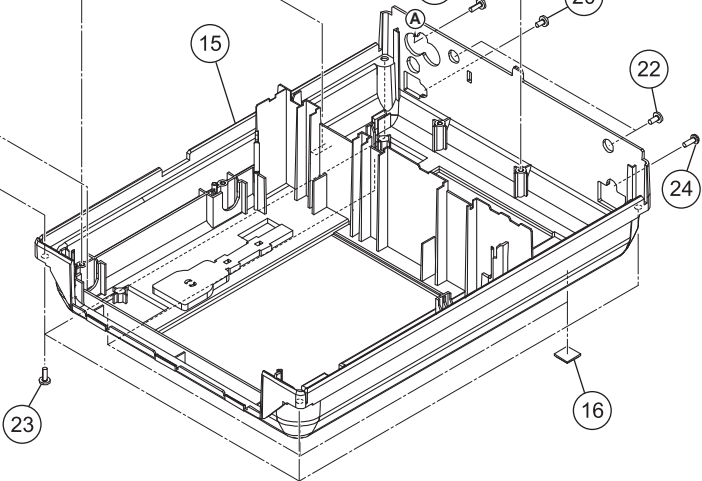
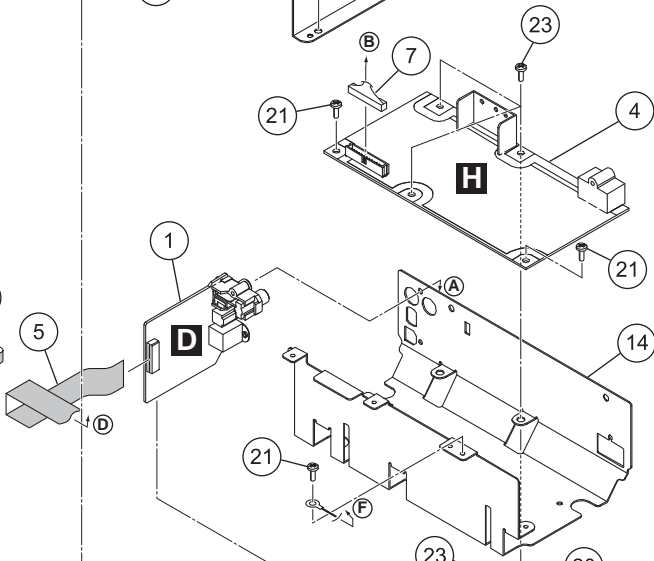
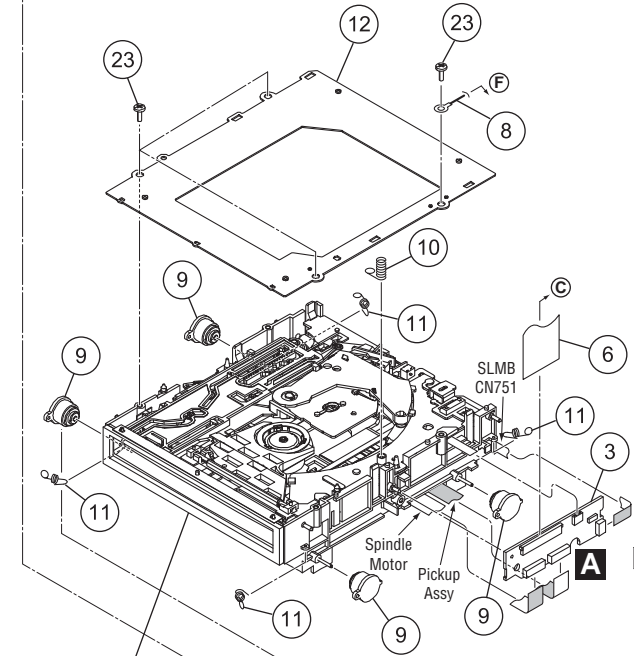
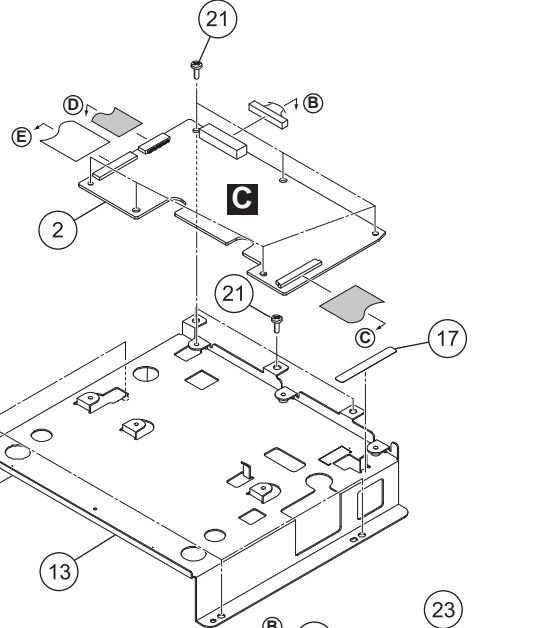
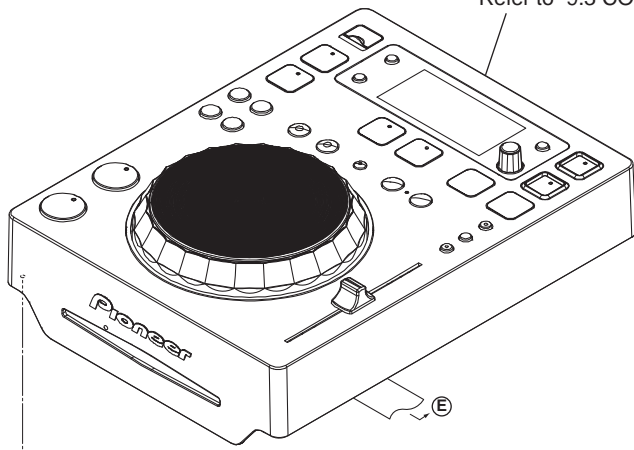
B

C

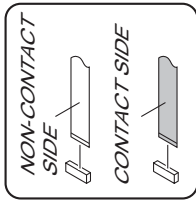
D

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Refer to "9.4 SLOT-IN MECHA SECTION".



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**(1) EXTERIOR SECTION PARTS LIST**

<b>Mark No.</b>	<b>Description</b>	<b>Part No.</b>
1	JACK Assy	DWX3107
2	MAIN Assy	DWX3105
3	CNCT Assy	DWX3111
⚠	4 SMPS Assy	See Contrast table (2)
5	17P FFC	DDD1494
6	50P FFC	DDD1536
7	Connector Assy 13P	DKP3865
8	Earth Lead wire	DE007VE0
9	Damper	CNV6011
10	Earth Spring	DBH1398
11	Float Spring (G5)	DBH1494
12	Mecha Plate	DNH2642
13	Main PCB Stay	DNH2914
14	Rear Chassis	DNH2915
⚠NSP	15 Chassis	See Contrast table (2)
16	Rubber Foot	VEB1349
NSP	17 P. U. Caution Label	DRW2448
18	•••••	
19	•••••	
20	Screw (M3 x 5)	DBA1340
21	Screw	ABZ30P060FTC
22	Screw	BBZ30P060FTB
23	Screw	BPZ30P080FTB
24	Screw	PPZ30P080FTB

**(2) CONTRAST TABLE**

CDJ-350/SYXJ8, CUXJ, FLXJ, KXJ5 and AXJ5 are constructed the same except for the following:

<b>Mark</b>	<b>No.</b>	<b>Symbol and Description</b>	<b>CDJ-350 /SYXJ8</b>	<b>CDJ-350 /CUXJ</b>	<b>CDJ-350 /FLXJ</b>	<b>CDJ-350 /KXJ5</b>	<b>CDJ-350 /AXJ5</b>
⚠	4	SMPS Assy	DWR1482	DWR1481	DWR1482	DWR1482	DWR1482
⚠NSP	15	Chassis	DNK5576	DNK5780	DNK5781	DNK5784	DNK5782

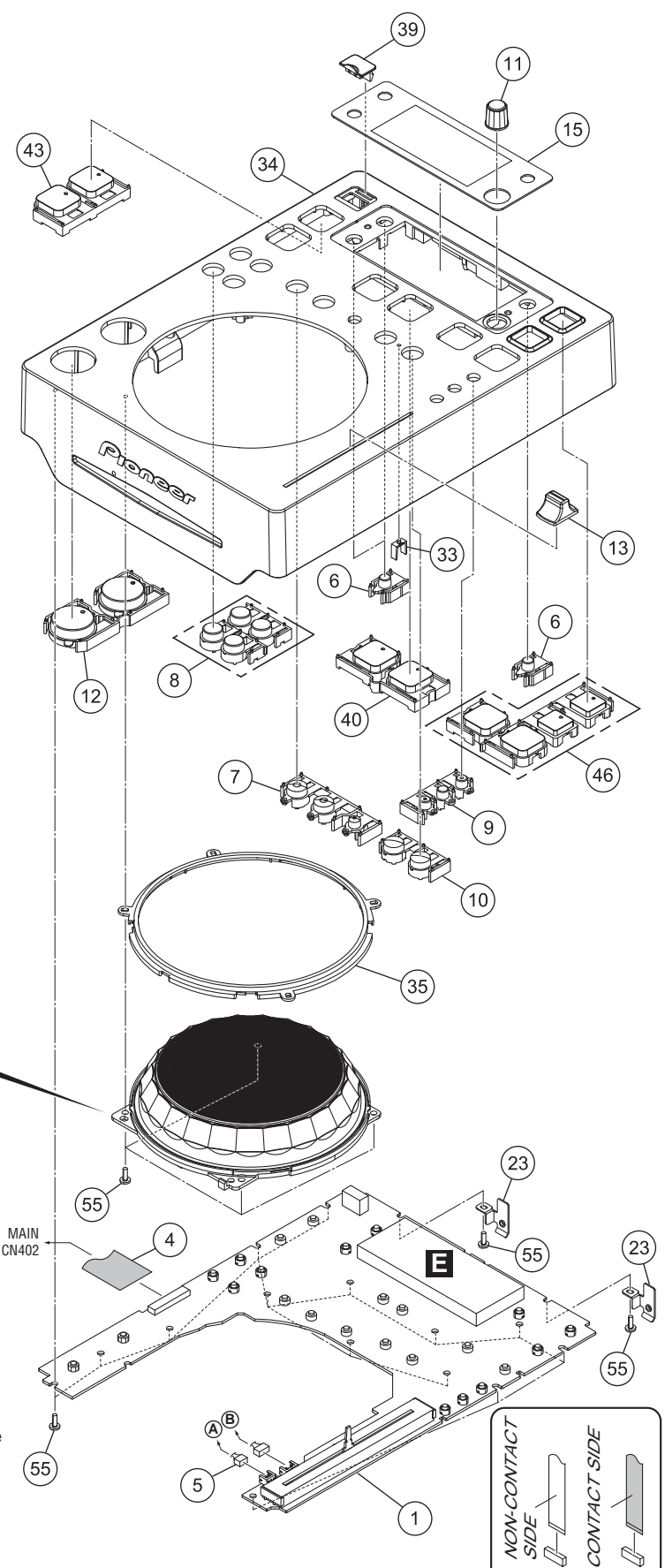
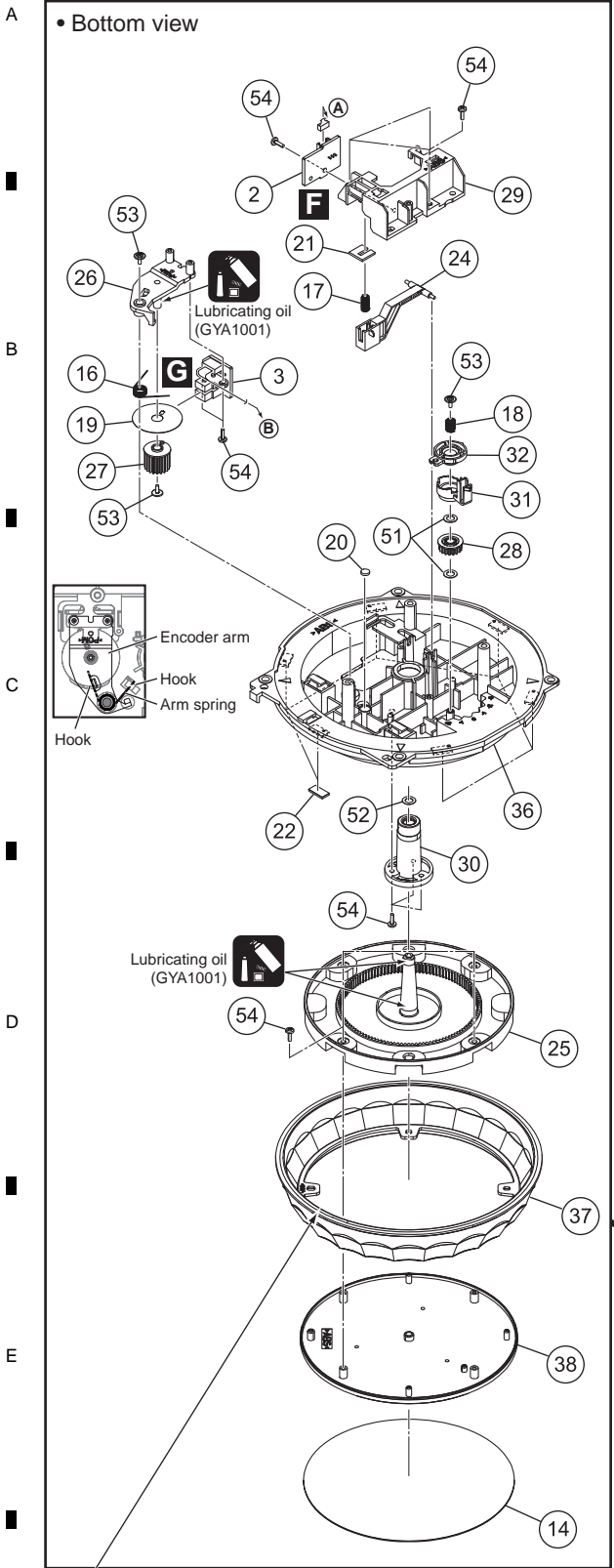
# 9.3 CONTROL PANEL SECTION

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**Note:**  
During reassembly, be careful not to scratch the sliding surface of the back side of the Jog dial B.  
(Scratches on the sliding surface may cause noise during turning of the Jog dial.)

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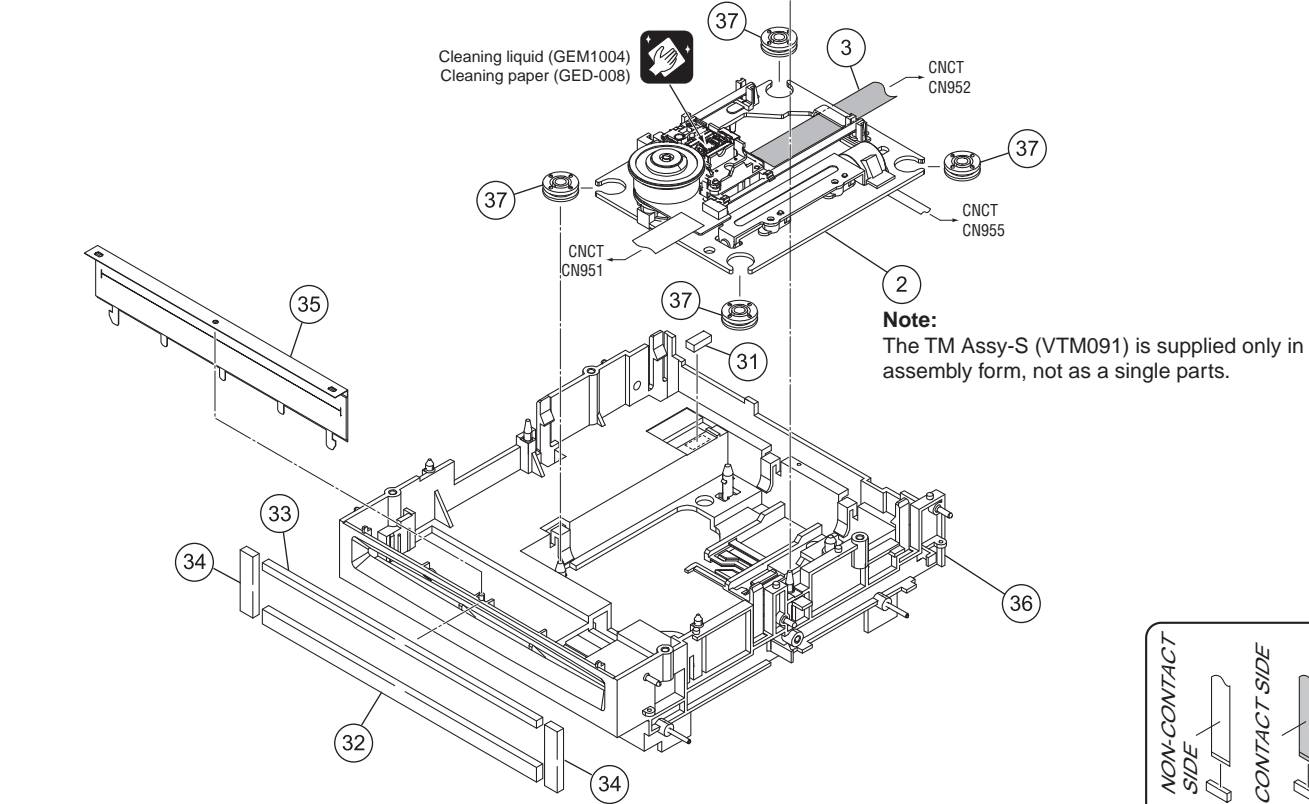
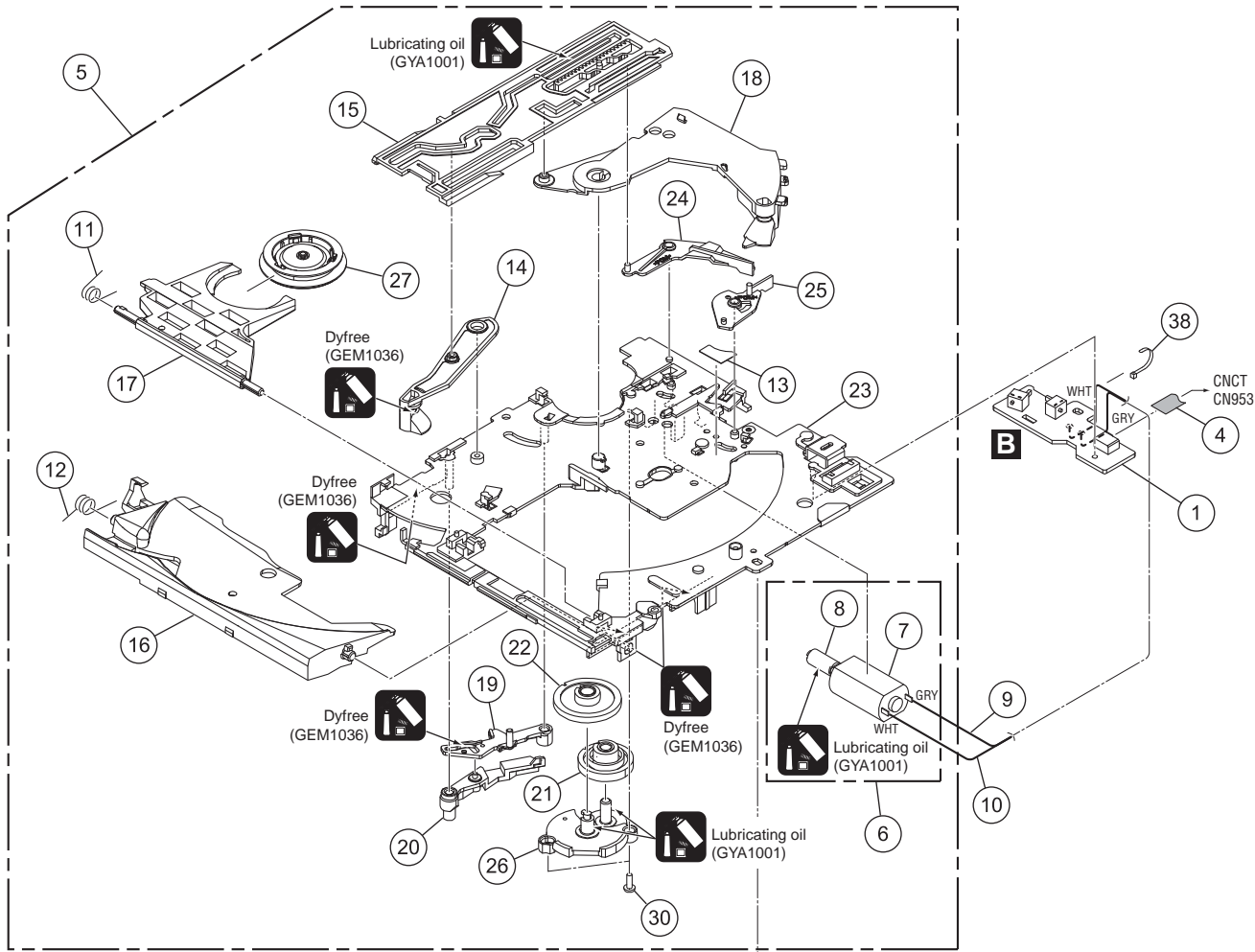
4

## CONTROL PANEL SECTION PARTS LIST

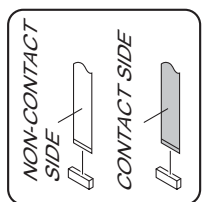
<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	PNLB Assy	DWX3106	46	Standby Button Assy	DXB2065
2	TCHB Assy	DWX3109	47	•••••	
3	JOGB Assy	DWX3124	48	•••••	
4	27P FFC	DDD1537	49	•••••	
5	Connector Assy	PF03PP-B17	50	•••••	
6	Display Button	DAC2574	51	Washer	WA41D070D025
7	Loop Button	DAC2575	52	Washer	WT32D080D050
8	Search Button	DAC2576	53	Screw (FE)	DBA1265
9	Vinyl Tempo Button	DAC2577	54	Screw	BPZ20P060FTC
			55	Screw	BPZ30P080FTB
10	Beat Loop Button	DAC2578			
11	Dial Knob	DAC2579			
12	Play Button	DAC2580			
13	Slide Knob	DAC2594			
14	Jog Plate	DAH2775			
15	Display Panel	DAH2789			
16	Arm Spring	DBH1612			
17	Lever Spring	DBH1726			
18	Load Spring	DBH1727			
19	Encorder Plate	DEC2889			
20	Lever Cushion (A)	DEC3001			
21	Lever Cushion (B)	DEC3002			
22	Slide Sheet	DEC3227			
23	Ground Holder	DNH2917			
24	Jog Lever	DNK4763			
25	Jog Shaft	DNK4934			
26	Encorder Arm	DNK4936			
27	Encorder Gear	DNK4937			
28	Load Gear	DNK5178			
29	Lever Holder	DNK5206			
30	Shaft Holder	DNK5514			
31	Cam Plate	DNK5546			
32	Push Plate	DNK5547			
33	Beat Loop Lens	DNK5548			
⚠	34 Control Panel	DNK5549			
	35 Color Ring A	DNK5550			
36	Jog Holder	DNK5552			
37	Jog Dial B	DNK5571			
38	Jog Dial A	DNK5574			
39	USB Cover	DNK5657			
40	Source Select B Assy	DXB2063			
41	•••••				
42	•••••				
43	USB Stop Button Assy	DXB2064			
44	•••••				
45	•••••				

# 9.4 SLOTIN MECHA SECTION

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**Note:**  
The TM Assy-S (VTM091) is supplied only in assembly form, not as a single parts.



## SLOTIN MECHA SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>	
	1 SLMB Assy	DWX3108	
	2 TM Assy-S (VTM091)	DXX2616	A
	3 24P FFC	DDD1491	
	4 5P FFC	DDD1492	
NSP	5 SLOTIN MECHA Assy	DXA2206	
	6 Loading Motor Assy-S	DXX2615	
NSP	7 DC Motor	DXM1384	
NSP	8 Worm Gear	DNK3910	
	9 Lead Wire	ZWNN1007G28-8-06A	
	10 Lead Wire	ZWNN1007G28-9-06A	
	11 Clamp Spring	DBH1374	B
	12 Guide Spring	DBH1375	
	13 SW. Lever Spacer SV	DEC2831	
	14 Loading Lever	DNK3406	
	15 Main Cam	DNK3407	
	16 Disc Guide	DNK3478	
	17 Clamp Arm	DNK3576	
	18 Eject Lever	DNK3684	
	19 Lever AP	DNK3835	
	20 Lever BP	DNK3836	C
	21 Loading Gear	DNK3911	
	22 Drive Gear	DNK3912	
	23 Loading Base SV	DNK4369	
	24 SW Lever SV1	DNK4370	
	25 SW Lever SV2	DNK4371	
	26 Gear Holder SV	DNK4372	
	27 Clamper Assy-S	DXX2661	
	28 •••••		
	29 •••••		D
	30 Screw	BPZ20P060FTC	
	31 Spacer POR (T3)	DEB1566	
	32 Vessel Cushion A	DEC2852	
	33 Vessel Cushion B	DEC2853	
	34 Vessel Cushion C	DEC2854	
	35 Front Sheet	DED1132	
	36 Float Base 05 Assy	DXB2068	
	37 Floating Rubber (SI)	VEB1351	
	38 Binder	ZCA-SKB90BK	E

# 10. SCHEMATIC DIAGRAM

## 10.1 CNCT and SLMB ASSYS

A

B

C

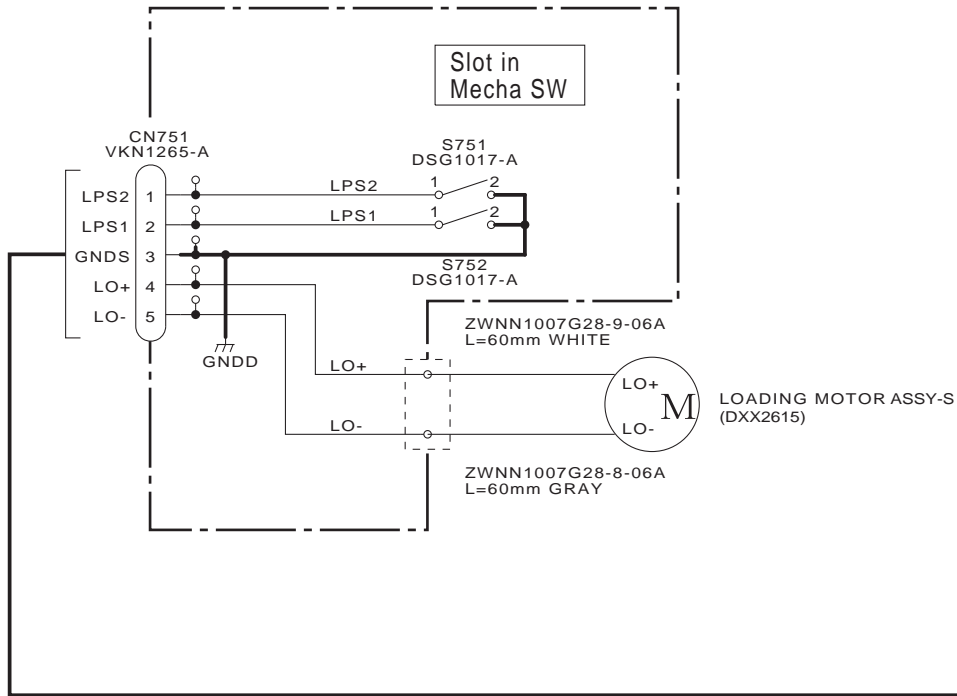
D

E

F

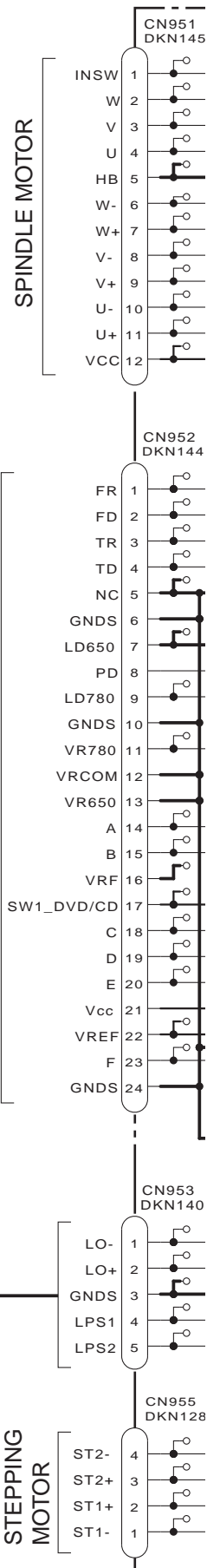
- (FS) : Focus Servo Signal Route
- (TS) : Tracking Servo Signal Route
- (ST) : Stepping Motor Signal Route
- (LO) : Loading Motor Signal Route

### B SLMB ASSY (DWX3108)



#### Notes

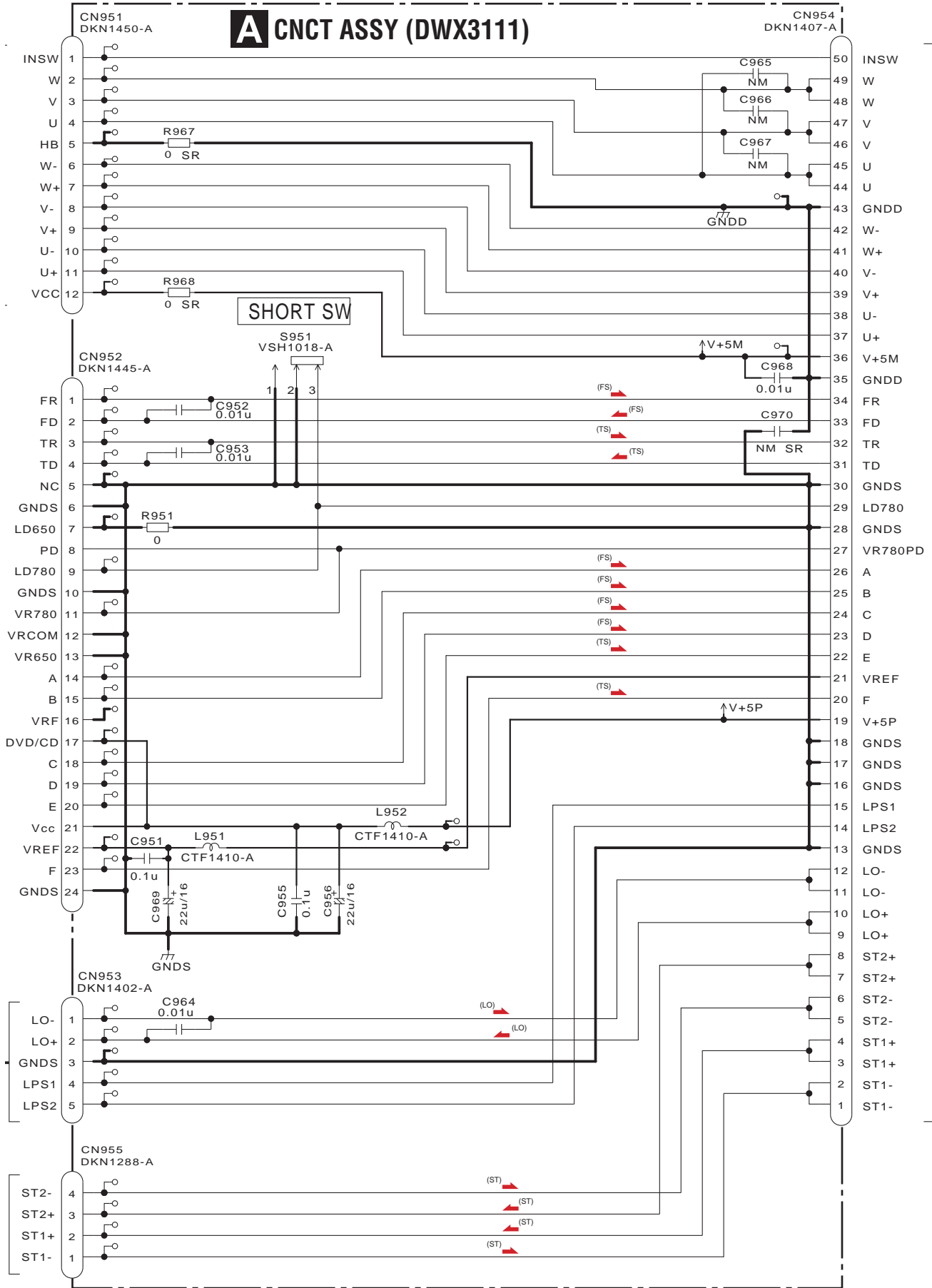
- NM [ ] is No Mount (STBY)
- CKSSYB\*\*\*K F
- SR CKSRYB\*\*\*K F
- CEHVQW\*\*\*M F
- RS1/16SS\*\*\*J Ω
- SR RS1/10SR\*\*\*J Ω



**A B**



# A CNCT ASSY (DWX3111)



C2/4 CN201

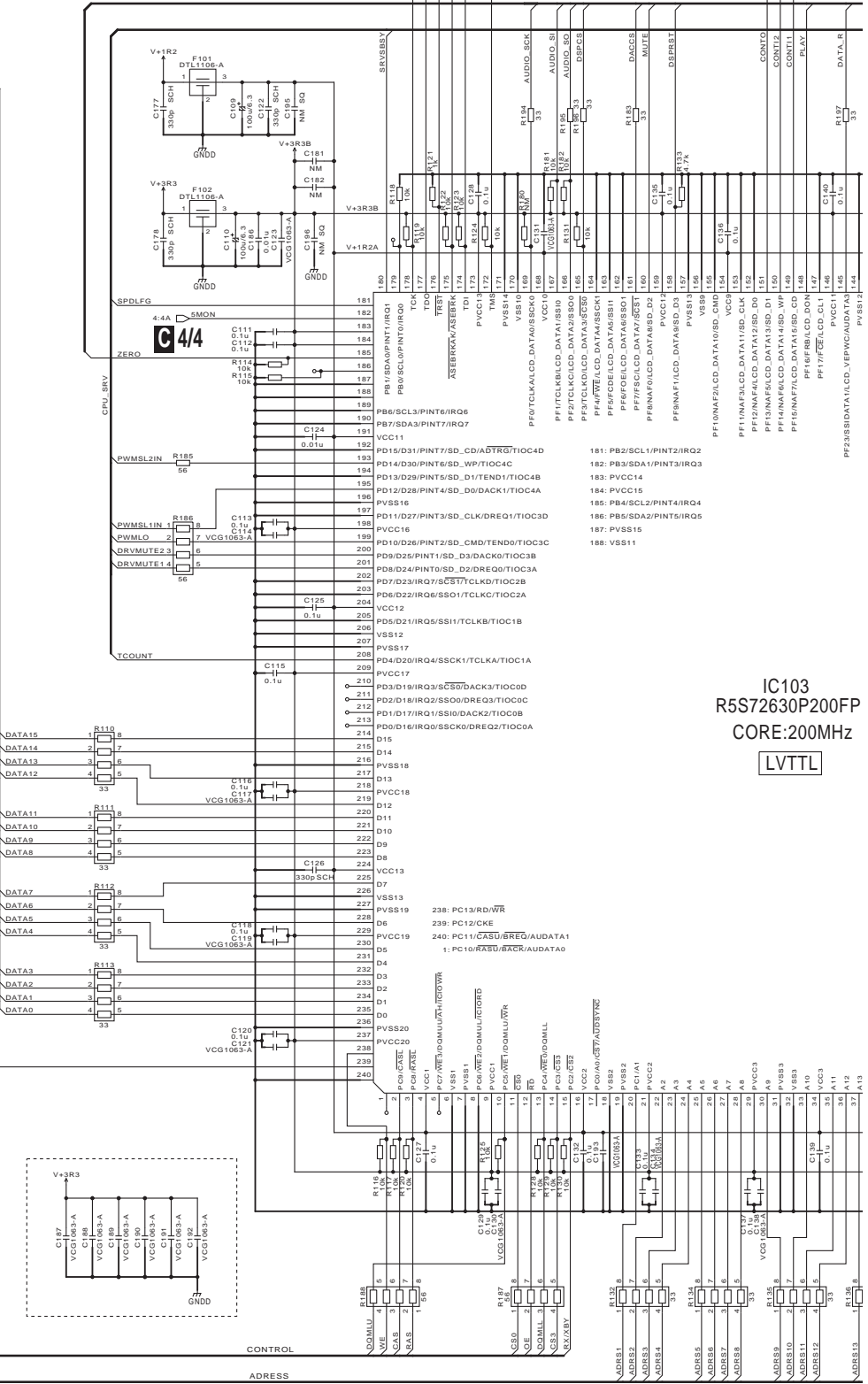
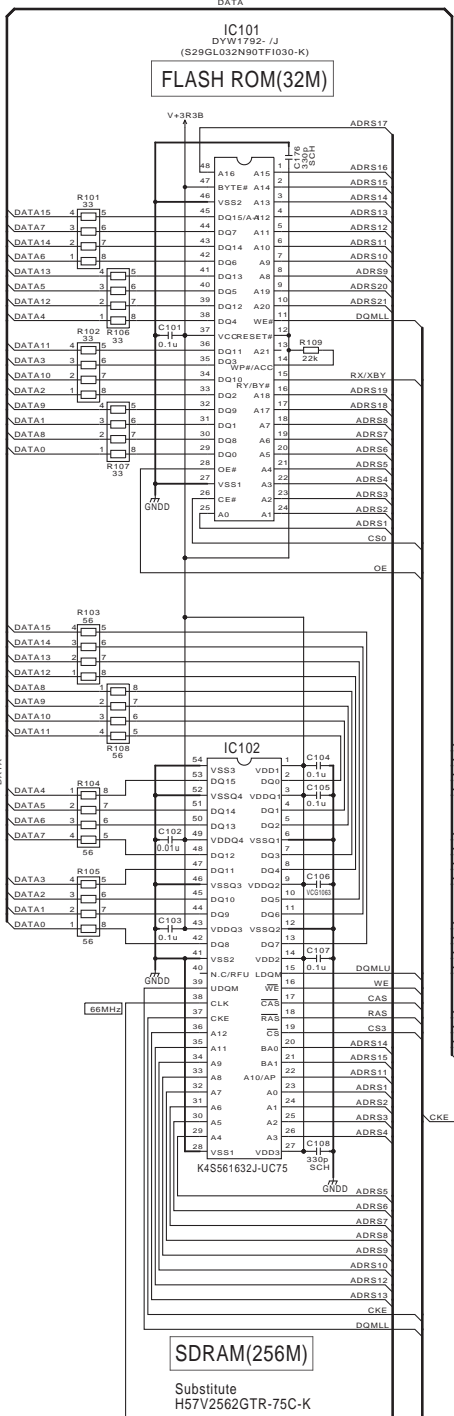
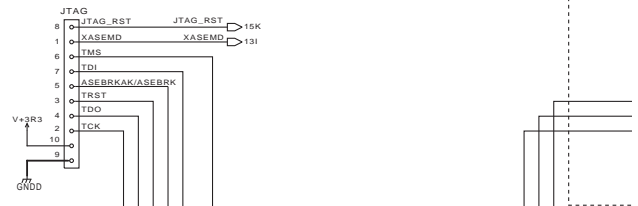
# 10.2 MAIN ASSY (1/4)

## C 1/4 MAIN ASSY (DWX3105)

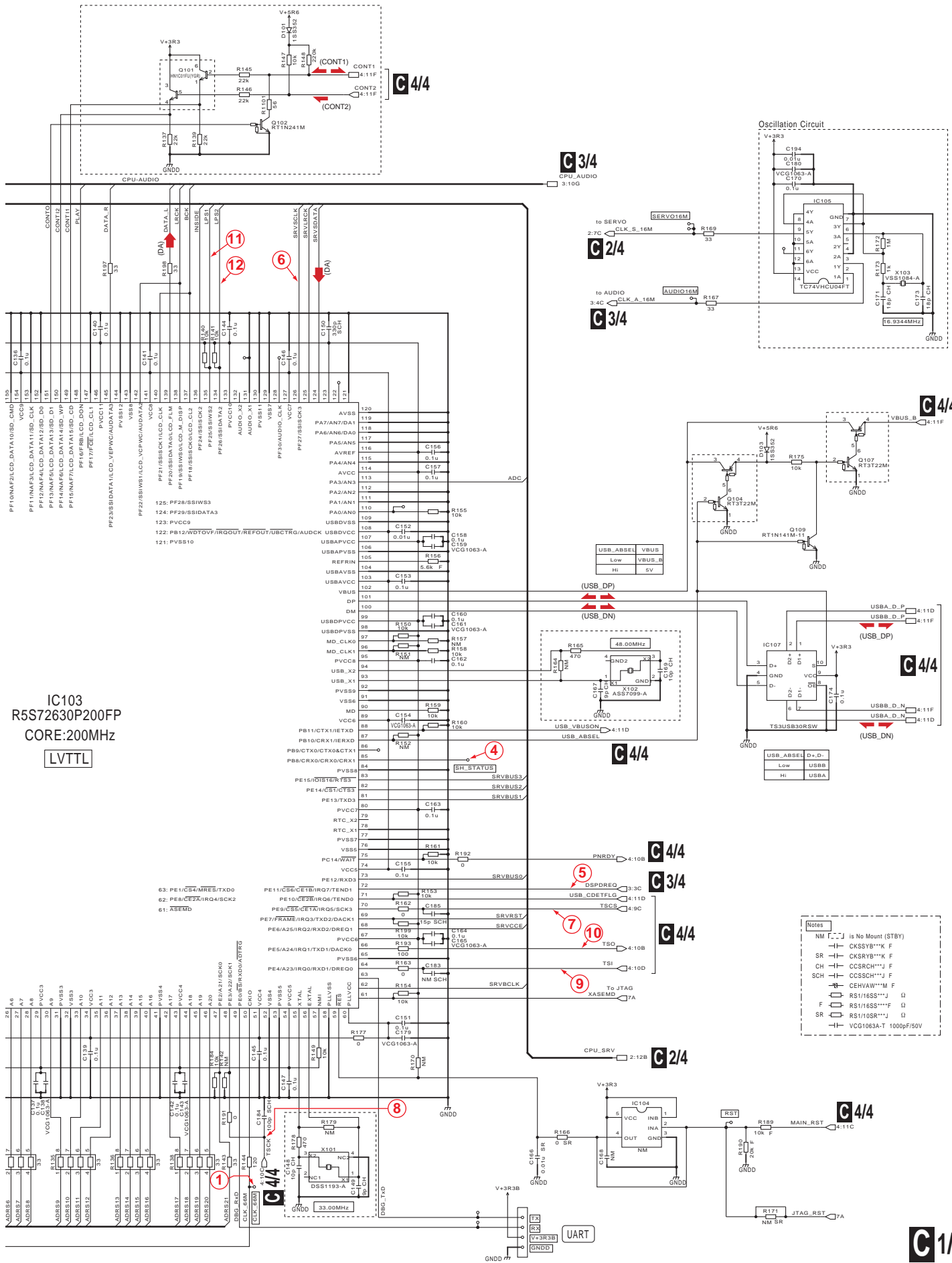
### MAIN CONTROL

- (DA) ▶ : Audio Data Signal Route
- (USB\_DN) ▶ : USB\_D\_N Signal Route
- (USB\_DP) ▶ : USB\_D\_P Signal Route
- (CONT1) ▶ : CONTROL1 Signal Route
- (CONT2) ▶ : CONTROL2 Signal Route
- : Waveform Measuring Point

for DEBUG



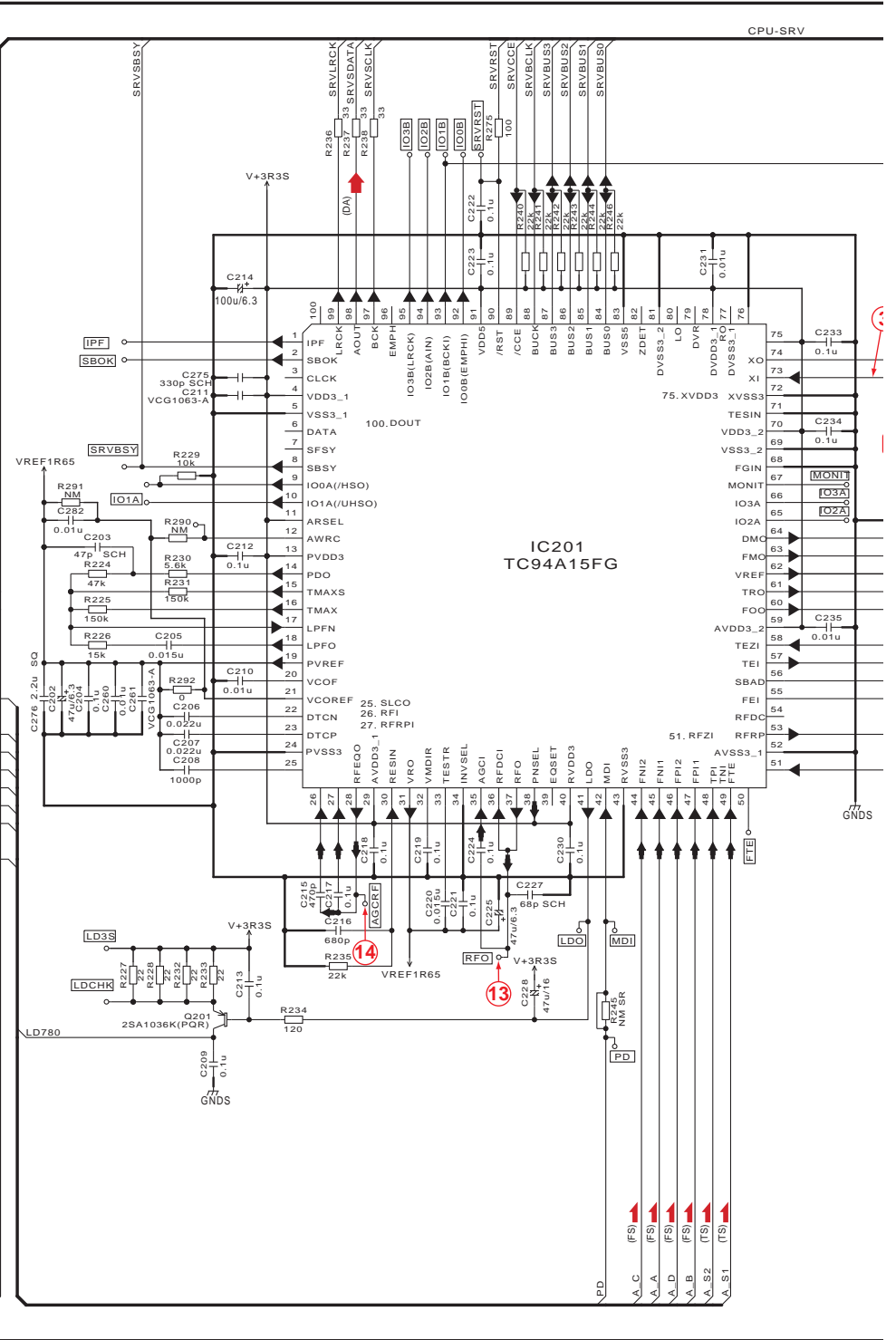
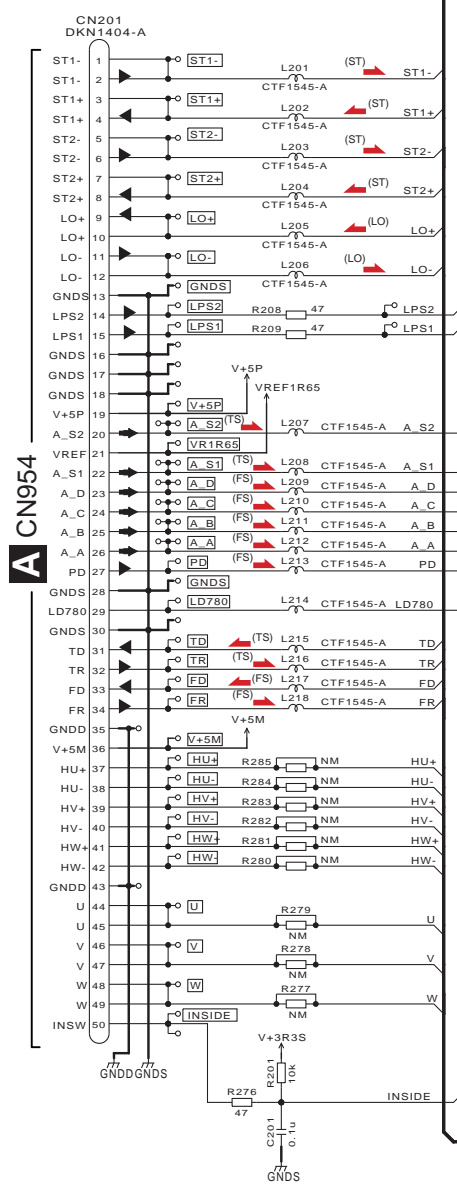
IC103  
R55T2630P200F  
CORE:200MHz  
LVTTL



# 10.3 MAIN ASSY (2/4)

SERVO

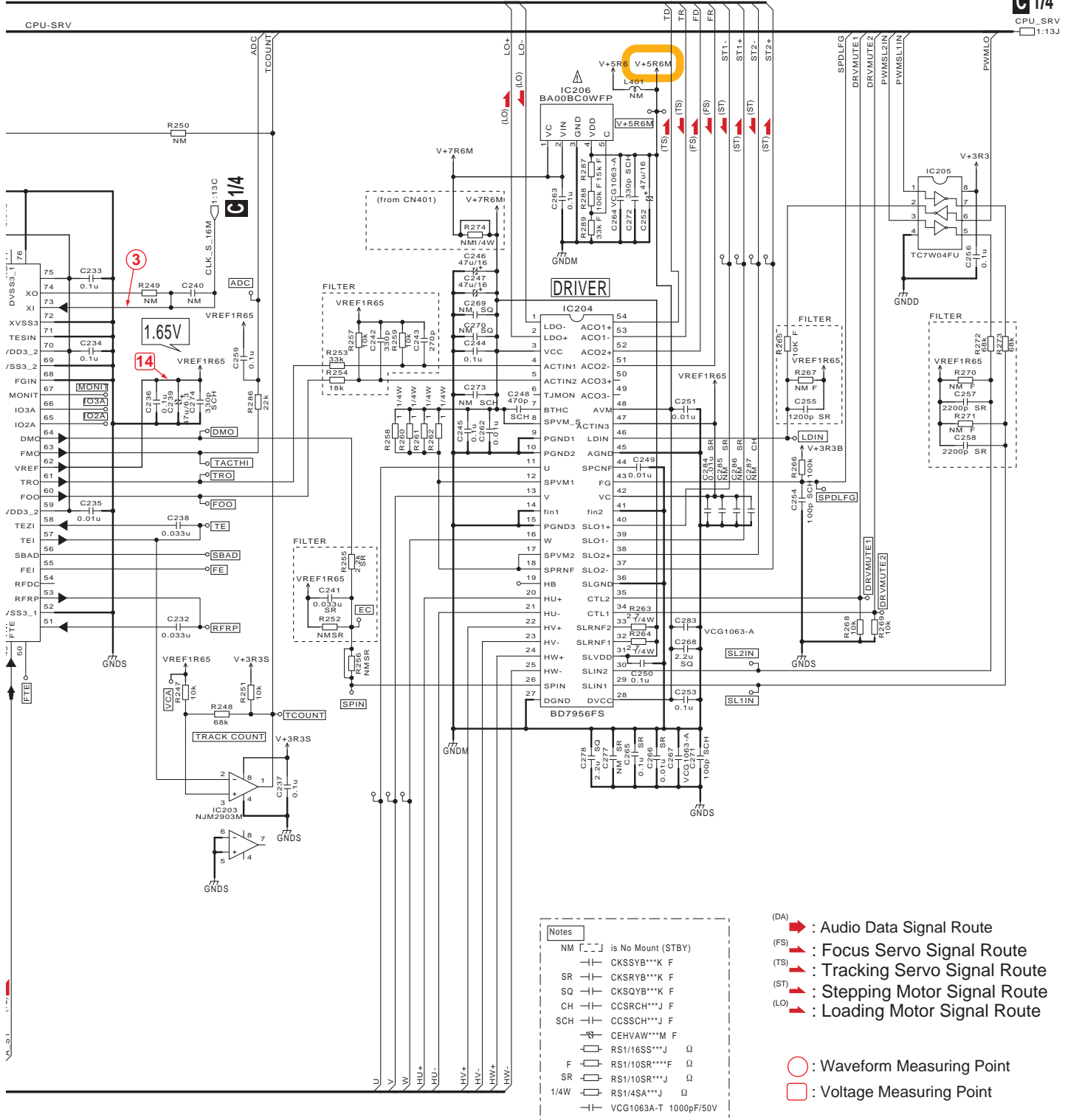
CPU-SRV



The indic  
The of id

# C2/4 MAIN ASSY (DWX3105)

C1/4 CPU\_SRV 1:13J



- Notes
- NM [ ] is No Mount (STBY)
  - CKSSYB\*\*\*K F
  - CKSRYB\*\*\*K F
  - CKSQYB\*\*\*K F
  - CCSRCH\*\*\*J F
  - CCSSCH\*\*\*J F
  - CEHVAW\*\*\*M F
  - RS1/16SS\*\*\*J Ω
  - RS1/10SR\*\*\*F Ω
  - RS1/10SR\*\*\*J Ω
  - RS1/4SA\*\*\*J Ω
  - VCG1063A-T 1000pF/50V

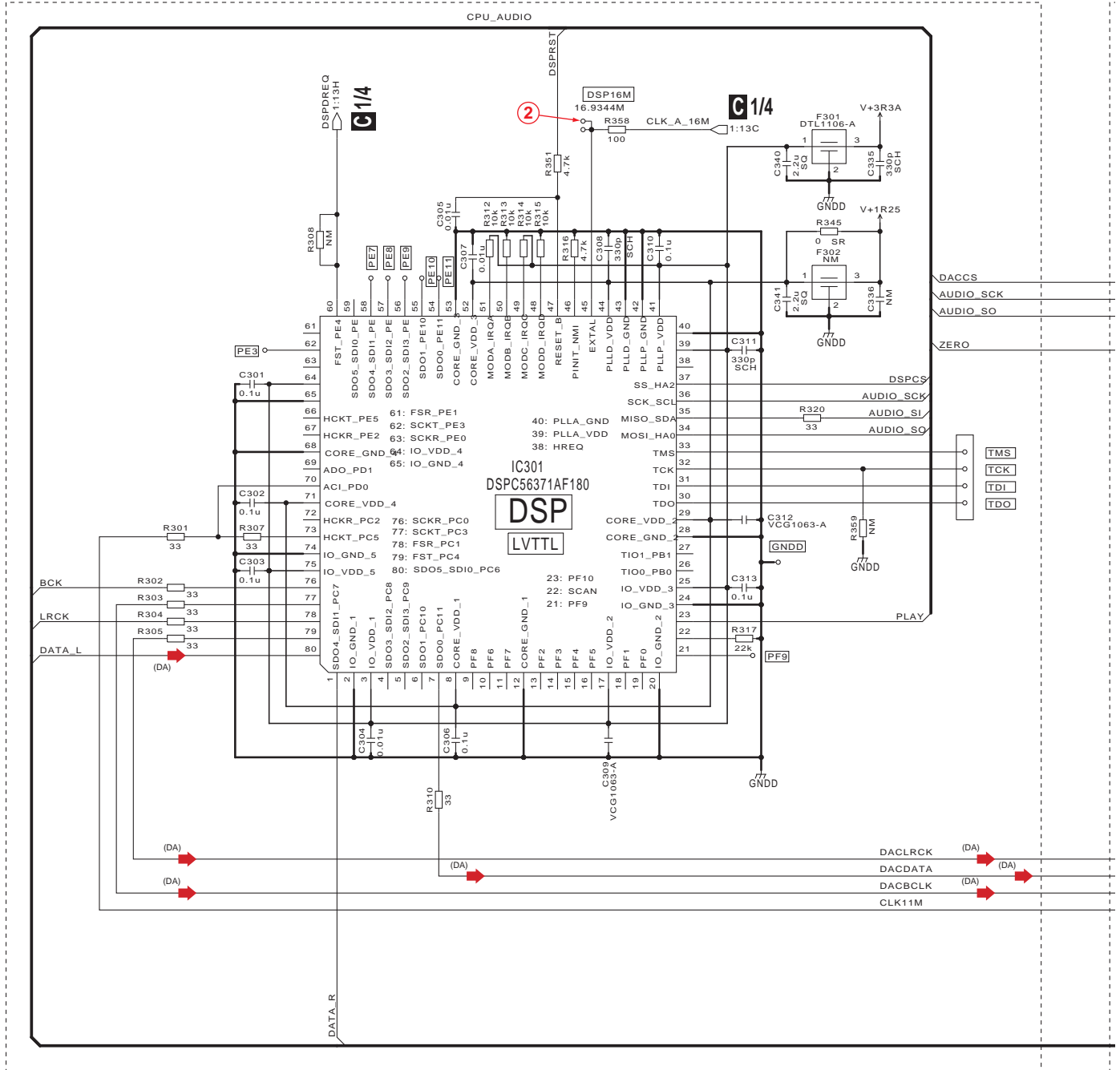
- (DA) : Audio Data Signal Route
- (FS) : Focus Servo Signal Route
- (TS) : Tracking Servo Signal Route
- (ST) : Stepping Motor Signal Route
- (LO) : Loading Motor Signal Route
- : Waveform Measuring Point
- : Voltage Measuring Point

The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

$\Delta$ 印の部品は、安全上重要な部品です。交換するに当り、安全および性能維持のため必ず指定の部品をご使用ください。

# 10.4 MAIN ASSY (3/4)

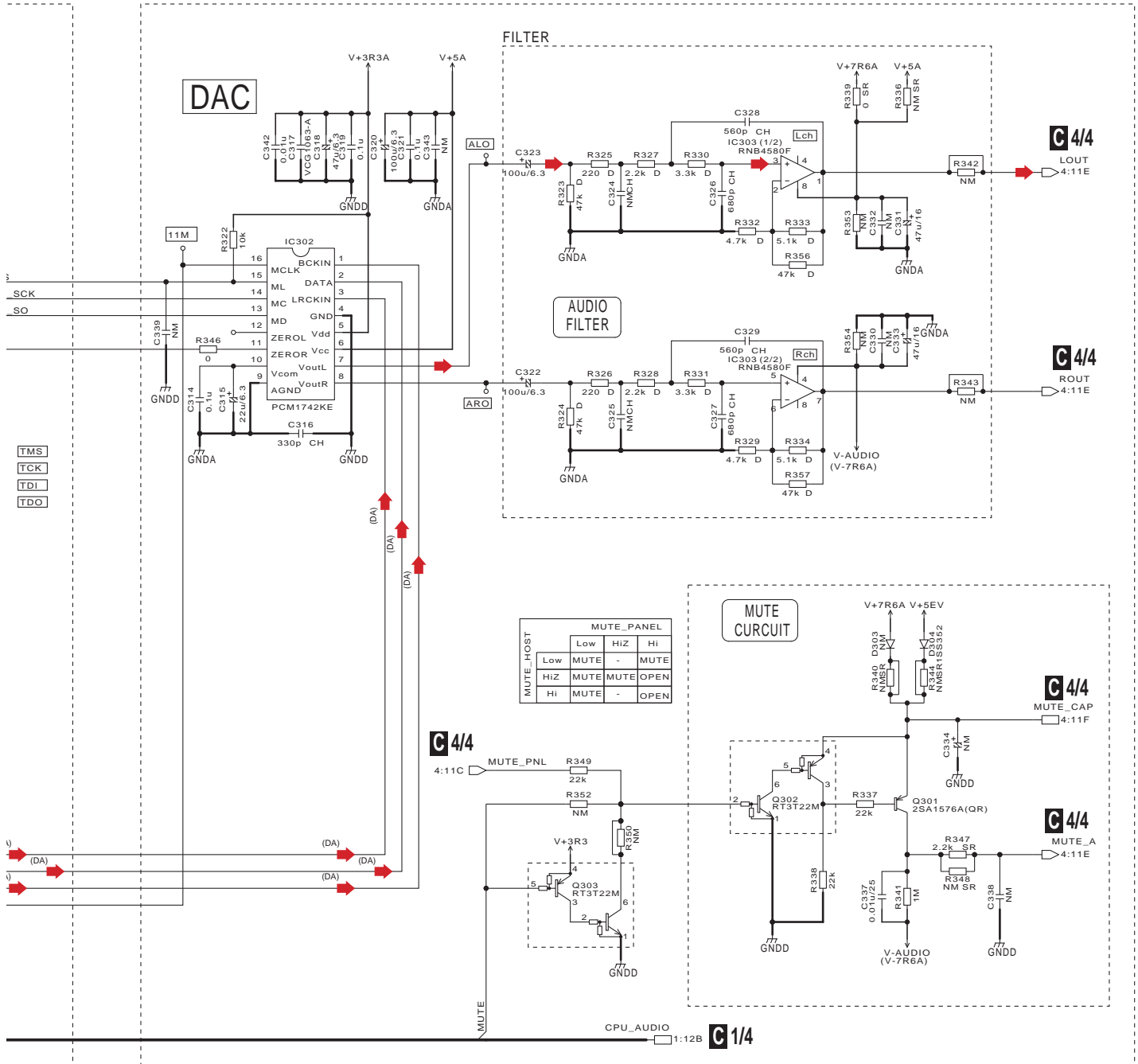
## AUDIO DSP



- Notes
- NM [ ] is No Mount (STBY)
  - |— CKSSYB\*\*K F
  - |— CKSRYB\*\*K F
  - |— CCSRCH\*\*J F
  - |— CEHVAV\*\*M F
  - |— RS1/16SS\*\*J Ω
  - D —|— RS1/16SS\*\*D Ω
  - SR —|— RS1/10SR\*\*J Ω
  - |— VCG1063A-T 1000pF/50V

# C3/4 MAIN ASSY (DWX3105)

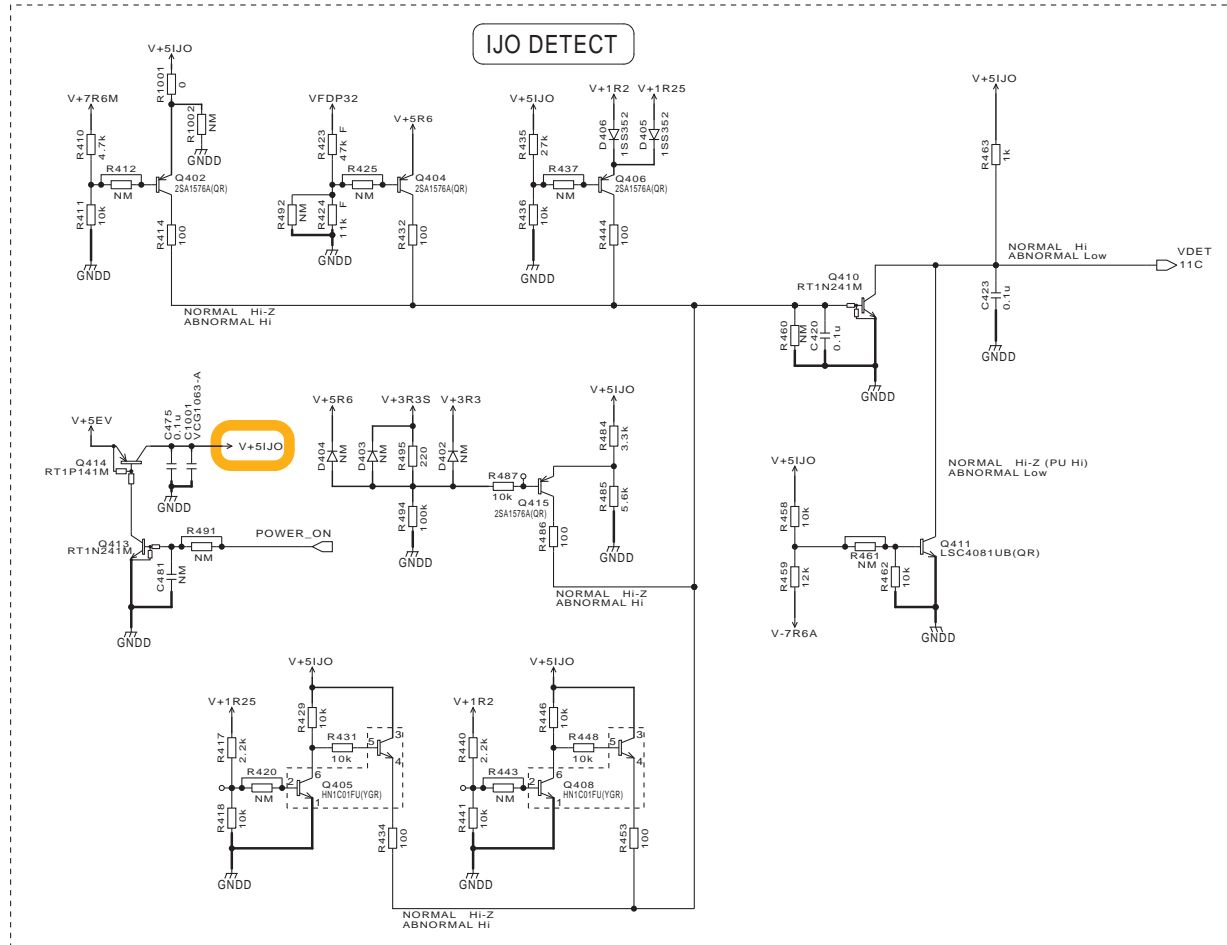
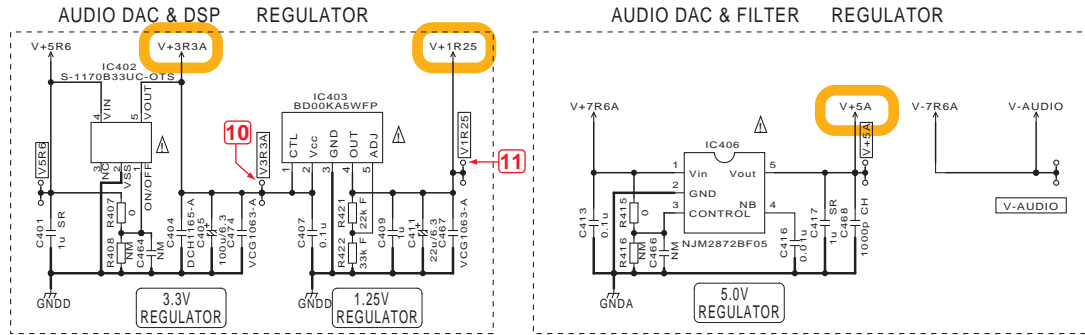
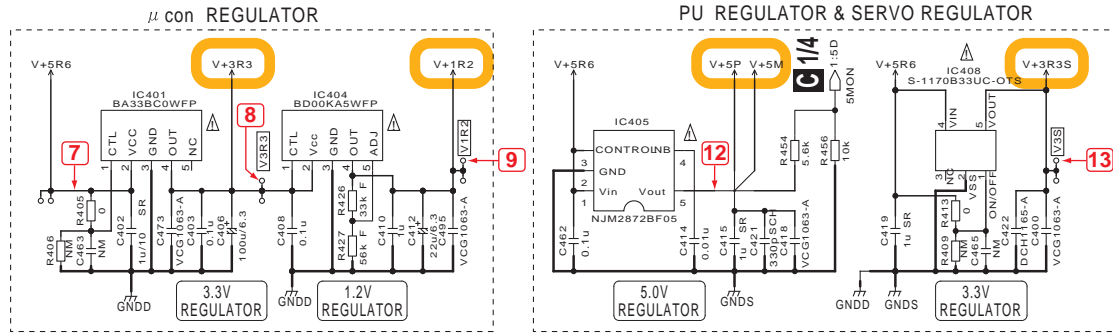
## ANALOG OUTPUT



- ➔ : Analog Audio Signal Route
- (DA) ➔ : Audio Data Signal Route
- : Waveform Measuring Point

# 10.5 MAIN ASSY (4/4)

## POWER SUPPLY BE & CONNECTOR



(USB\_DN  
(USB\_DF  
(CONT1  
(CONT2

CN1  
AKM1  
V+7R6M  
GNDD  
POWER\_ON  
GND  
V+5EV  
GND  
V+7R6DCDC  
GNDD  
V+7R6A  
VFDP32  
GNDD  
V-7R6A  
GNDA  
V+7R6A

DC-DC  
V+7R6DCI  
F  
C

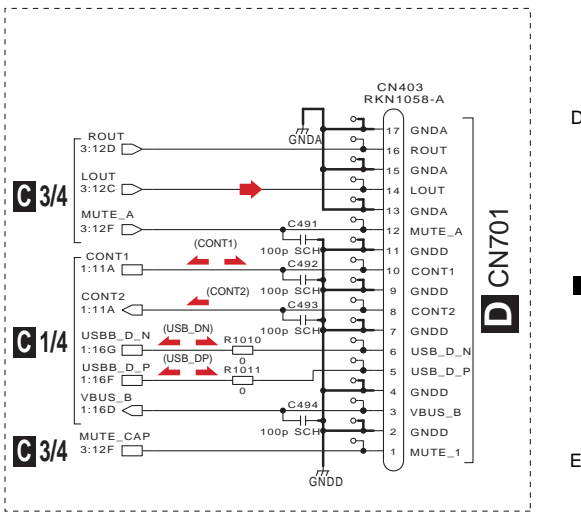
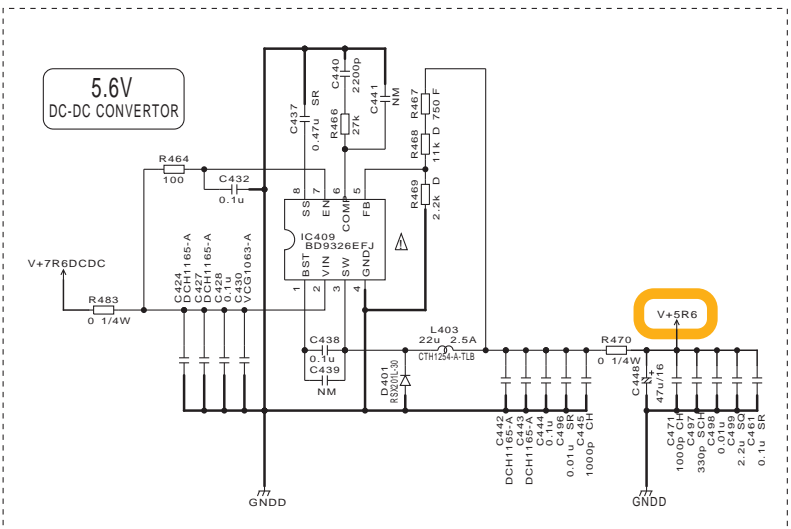
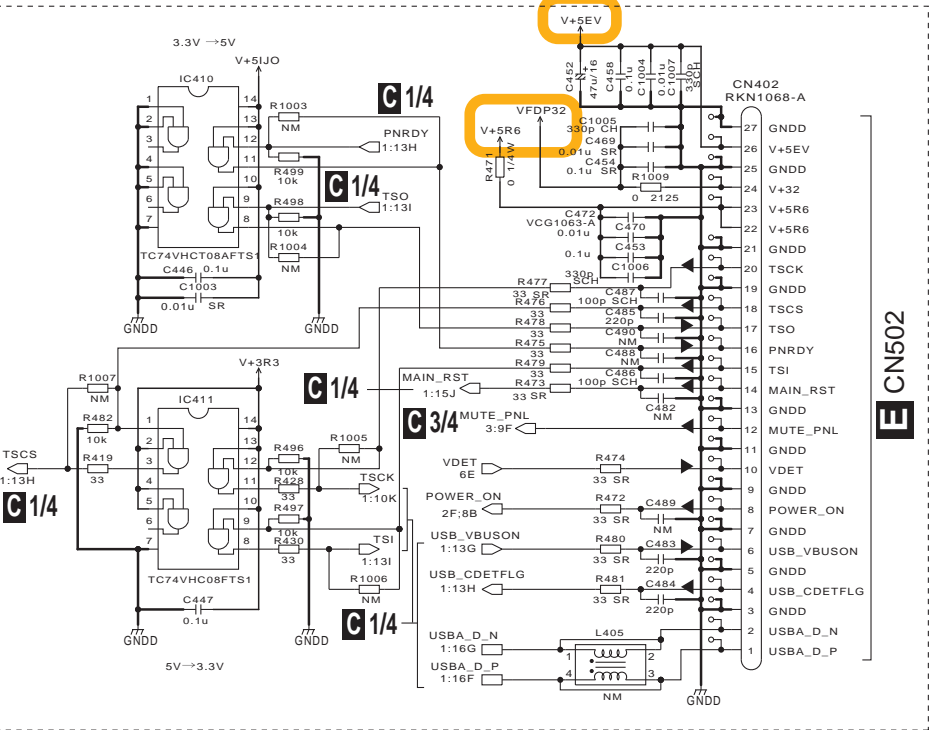
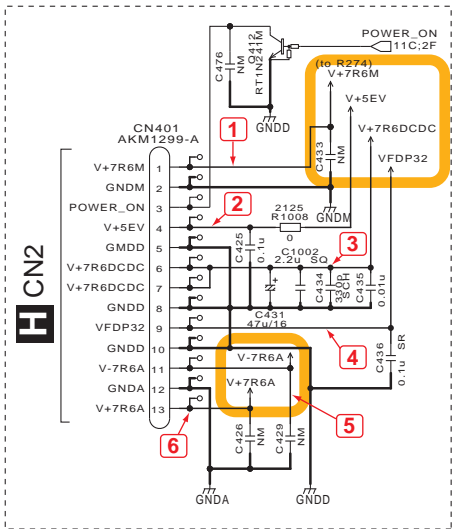
Notes  
NM  
SR  
SQ  
CH  
SCH  
F  
SR  
1/4W





# C 4/4 MAIN ASSY (DWX3105)

▶ : Analog Audio Signal Route    □ : Voltage Measuring Point  
▶ (USB\_DN) : USB\_D\_N Signal Route  
▶ (USB\_DP) : USB\_D\_P Signal Route  
▶ (CONT1) : CONTROL1 Signal Route  
▶ (CONT2) : CONTROL2 Signal Route



Notes	
NM [ ]	is No Mount (STBY)
SR	CKSSYB***K F
SR	CKSRYB***K F
SQ	CKSOYB***K F
CH	CCSRCH***J F
SCH	CCSSCH***J F
	CEHVAW***M F
	RS1/16SS***J Ω
F	RS1/10SR***F Ω
SR	RS1/10SR***J Ω
1/4W	RS1/4SA***J Ω
	VCG1063A-T 1000pF/50V






The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

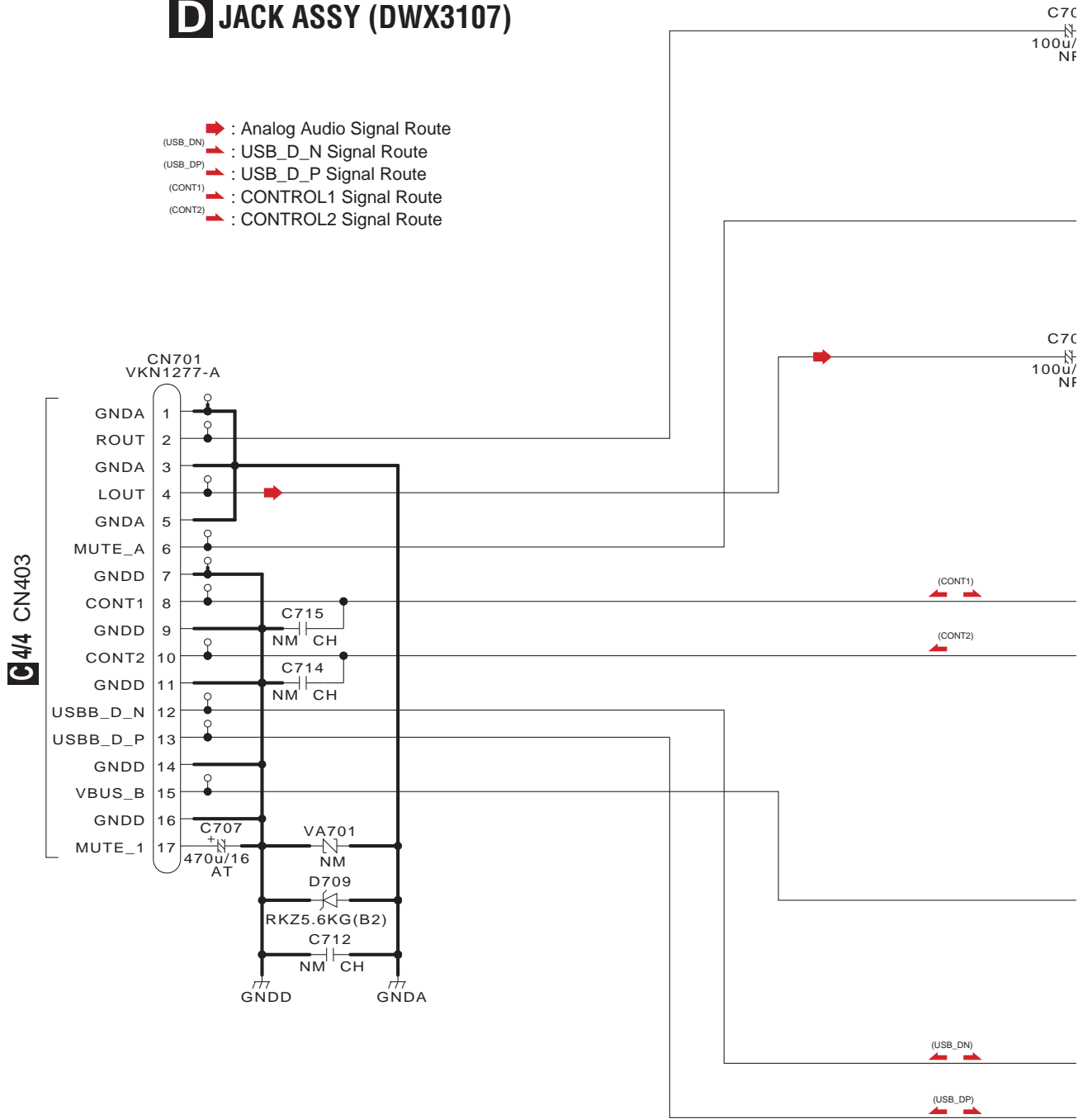
$\Delta$ 印の部品は、安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。








# 10.6 JACK ASSY

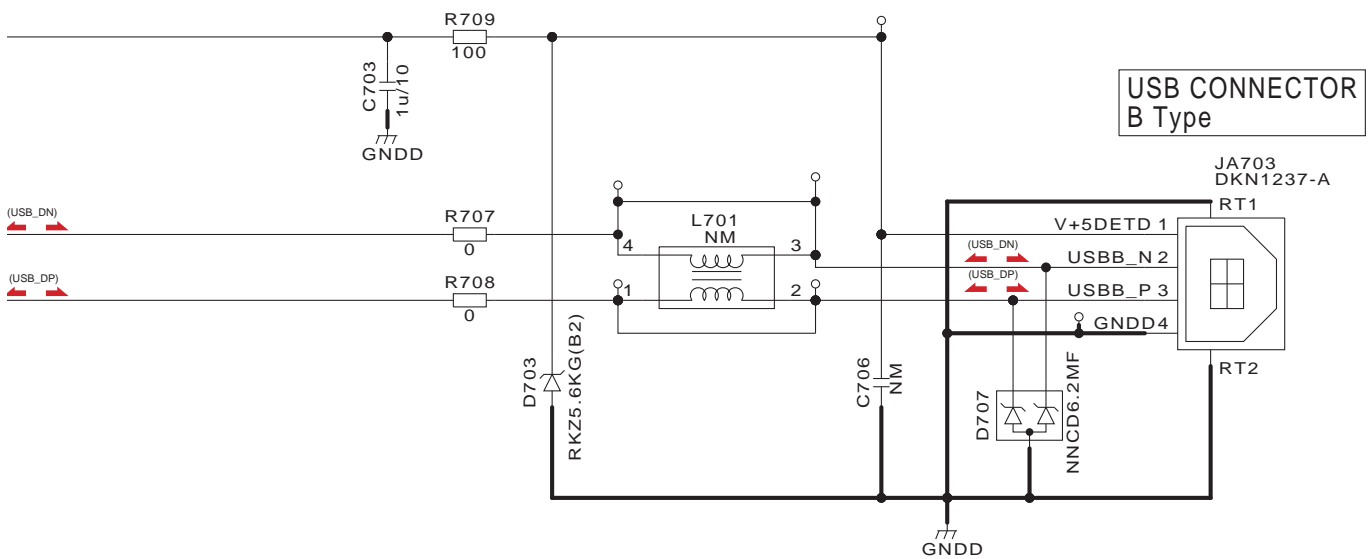
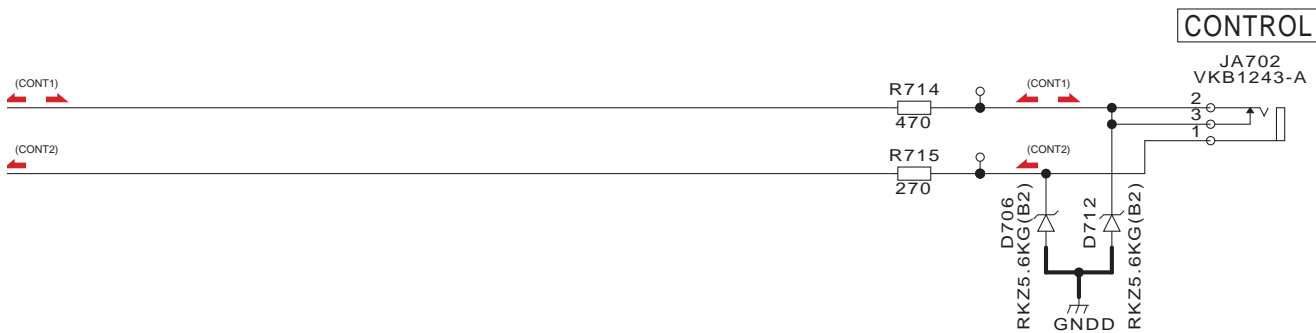
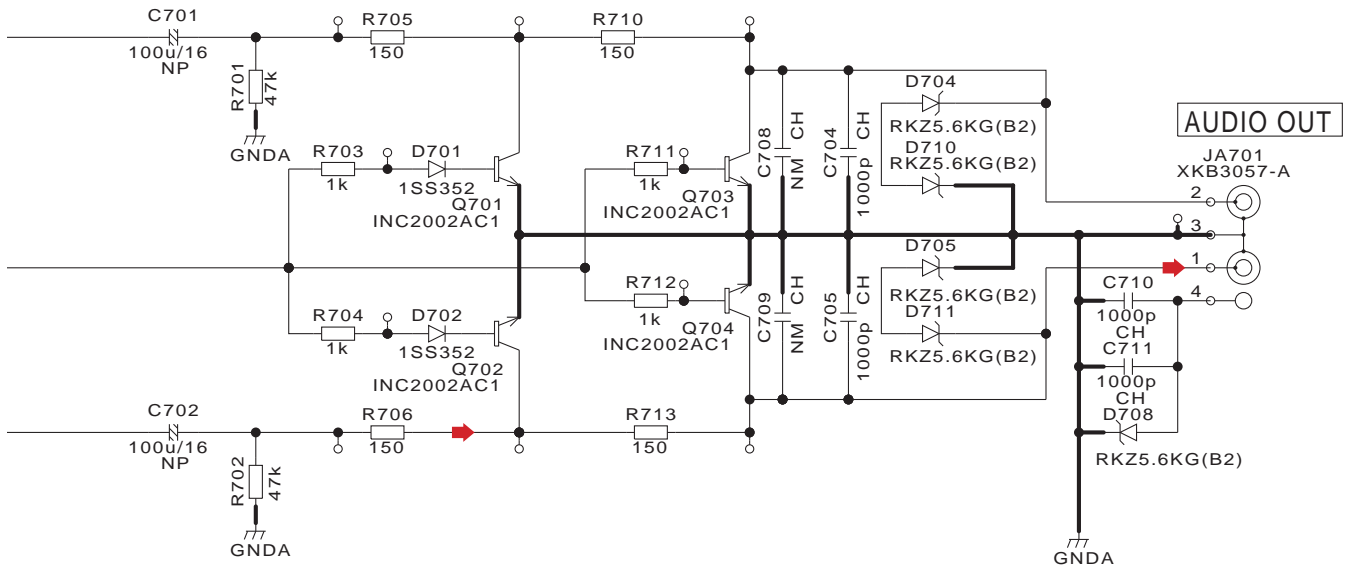
## D JACK ASSY (DWX3107)

-  : Analog Audio Signal Route
-  : USB\_D\_N Signal Route
-  : USB\_D\_P Signal Route
-  : CONTROL1 Signal Route
-  : CONTROL2 Signal Route



### Notes

- NM is No Mount
- CH  CCSRCH\*\*\*J F
- NP  CEANP\*\*\*M F
- AT  CEAT\*\*\*M F
-  CKSRYB\*\*\*K F
-  RS1/10SR\*\*\*J Ω



# 10.7 PNLB ASSY

1

2

3

4

A

B

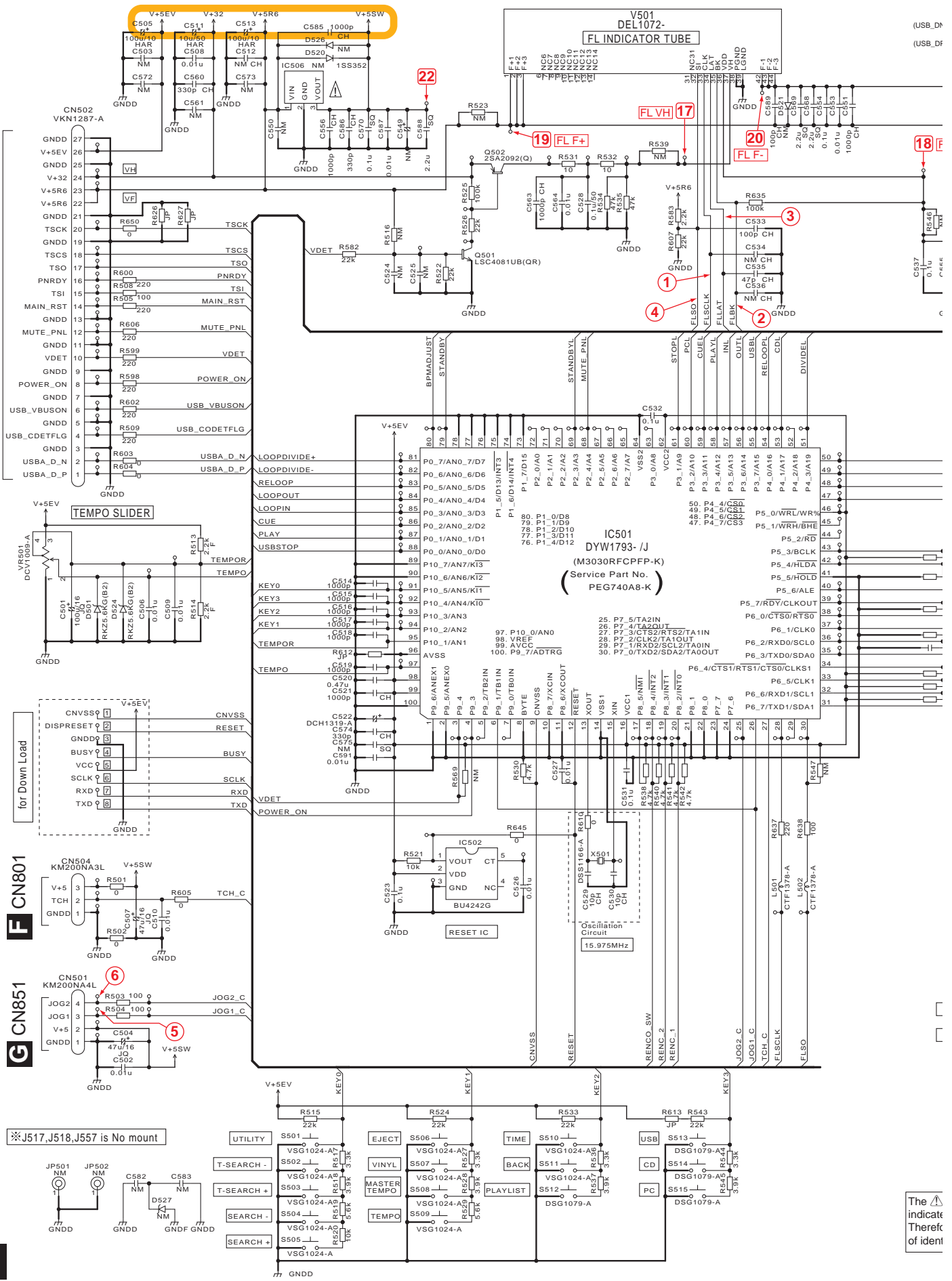
C

D

E

F

C4/4 CN402



The  $\Delta$  indicate there of ident

1

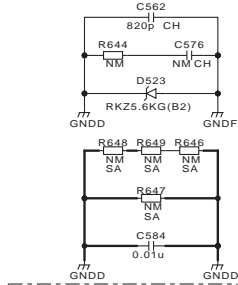
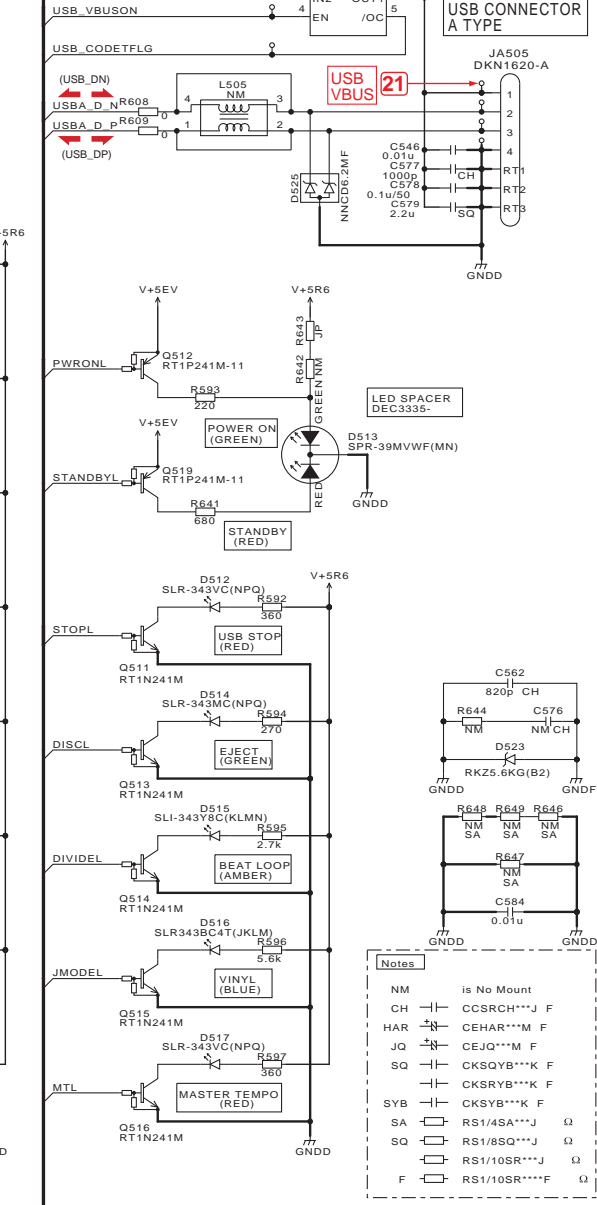
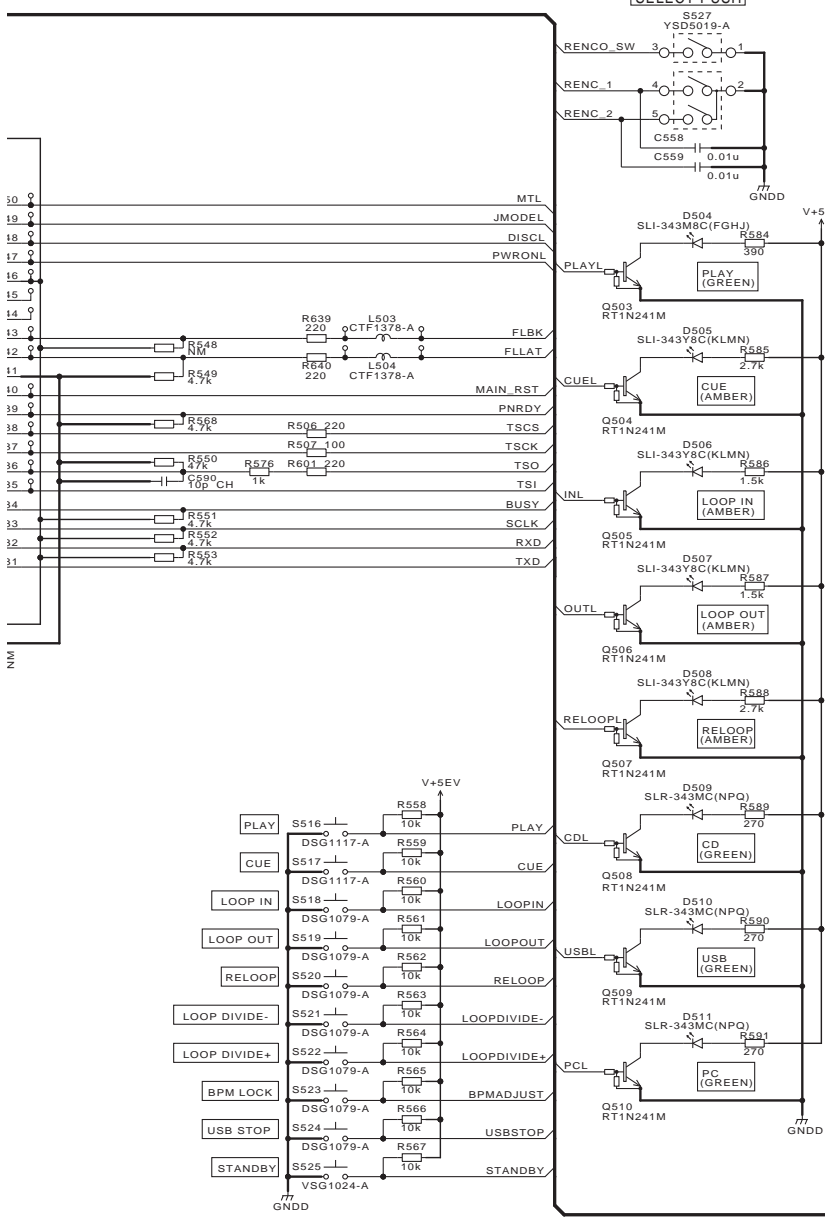
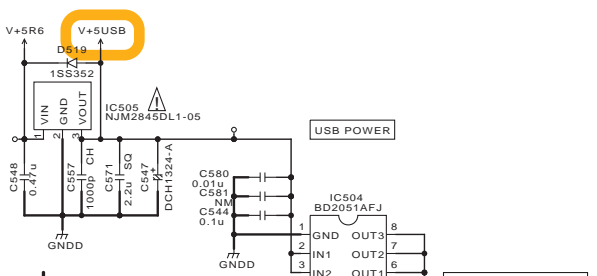
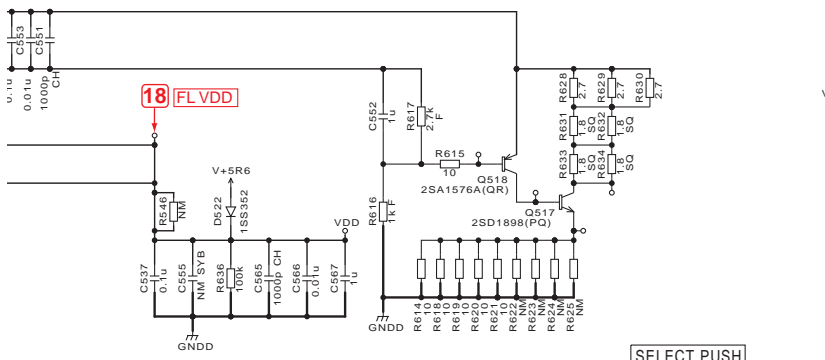
2

3

4

(USB\_DN) : USB\_D\_N Signal Route    : Waveform Measuring Point  
 (USB\_DP) : USB\_D\_P Signal Route    : Voltage Measuring Point

# PNLB ASSY (DWX3106)



Notes	
△	is No Mount
NH	CCSRCH***J F
HAR	CEHAR***M F
JQ	CEJQ***M F
SQ	CKSQYB***K F
SYB	CKSRYB***K F
SA	RS1/4SA***J Ω
SA	RS1/8SQ***J Ω
SA	RS1/10SR***J Ω
F	RS1/10SR***F F

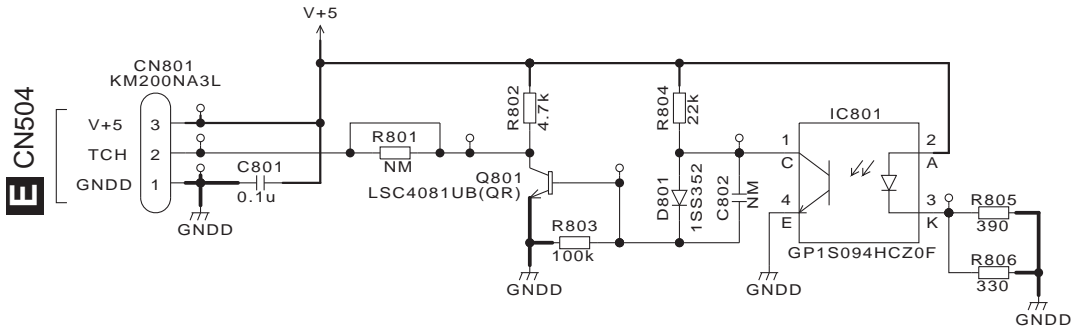
The mark on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

印の部品は、安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。



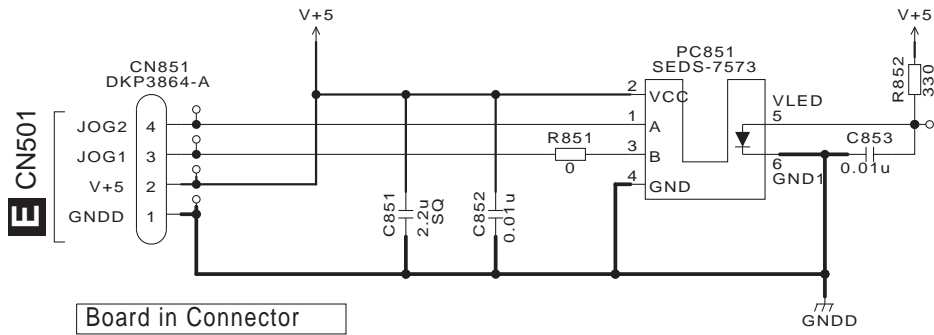
# 10.8 TCHB and JOGB ASSYS

## F TCHB ASSY (DWX3109)



NOTES	
NM	is No Mount
	RS1/10SR***J Ω
	CKSRYB***K F

## G JOGB ASSY (DWX3124)



NOTES	
	RS1/10SR***J Ω
	CKSRYB***K F
	CKSQYB***K F



5



6



7



8



A



B



C



D



E



F



5



6

CDJ-350



7



8



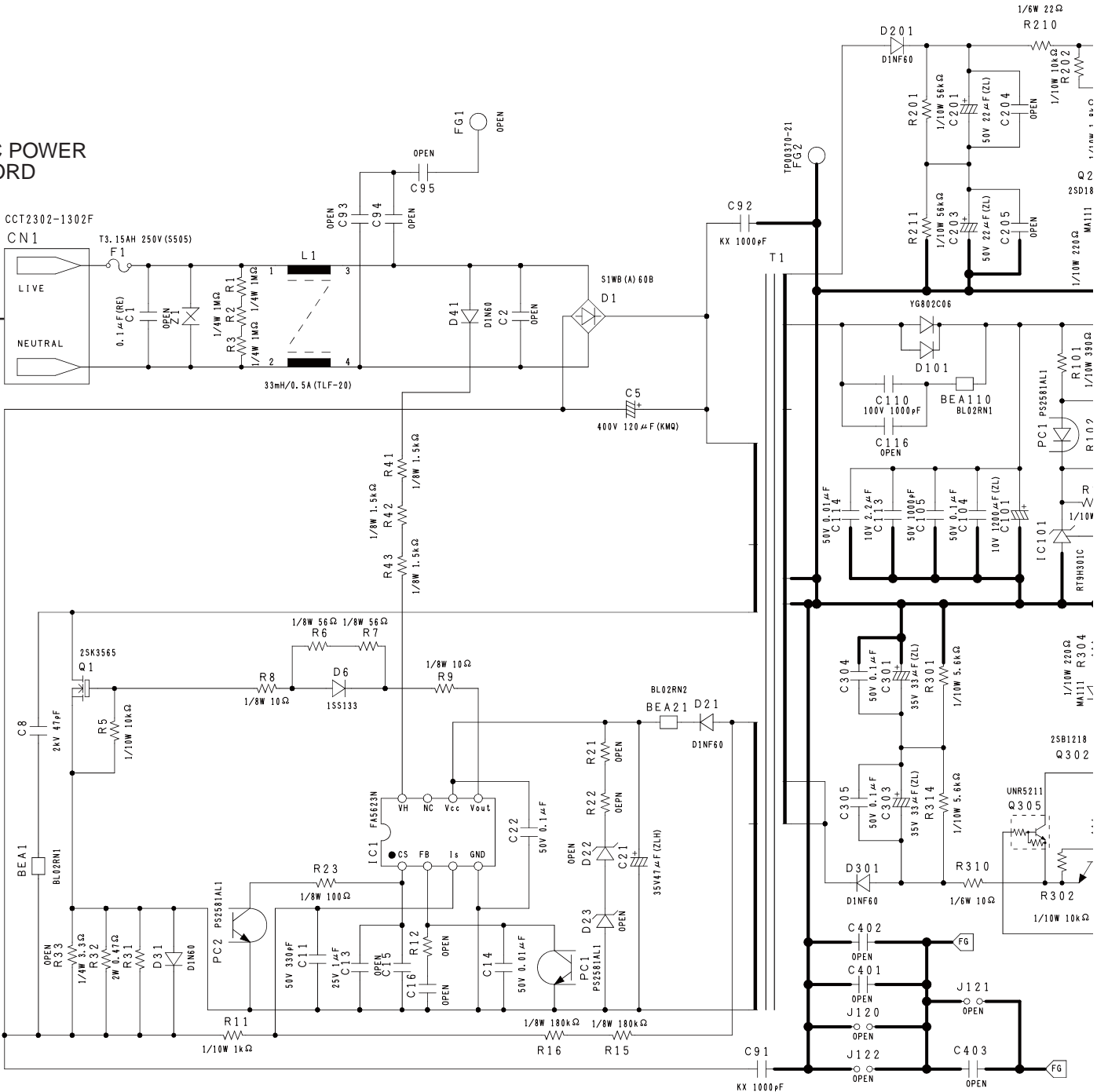
# 10.9 SMPS ASSY

## ● FOR SYXJ8, FLXJ, KXJ5 and AXJ5



### SMPS ASSY (DWR1482)

#### B AC POWER CORD



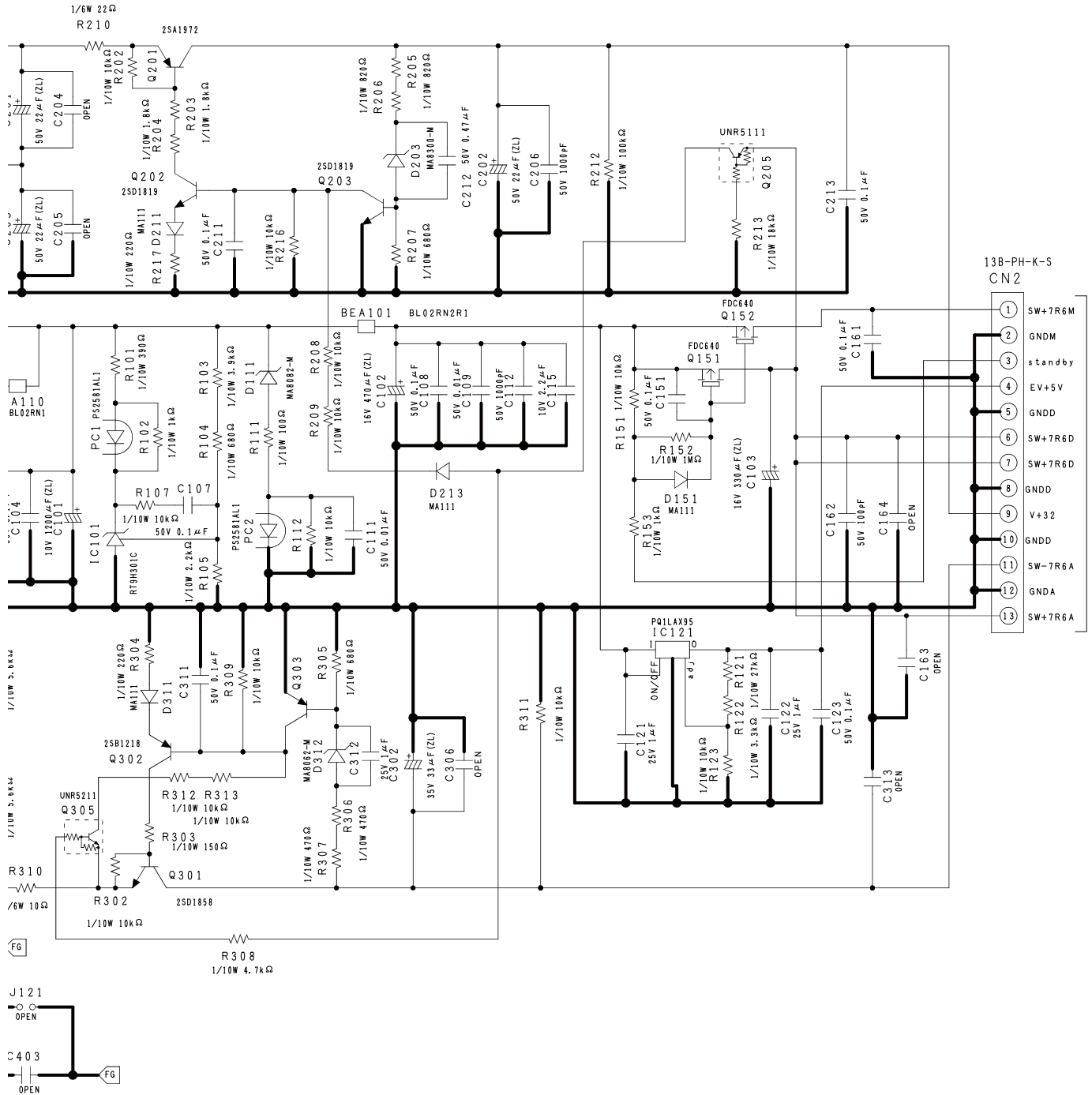
• NOTE FOR FUSE REPLACEMENT

**CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.**

The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.







CDJ-350

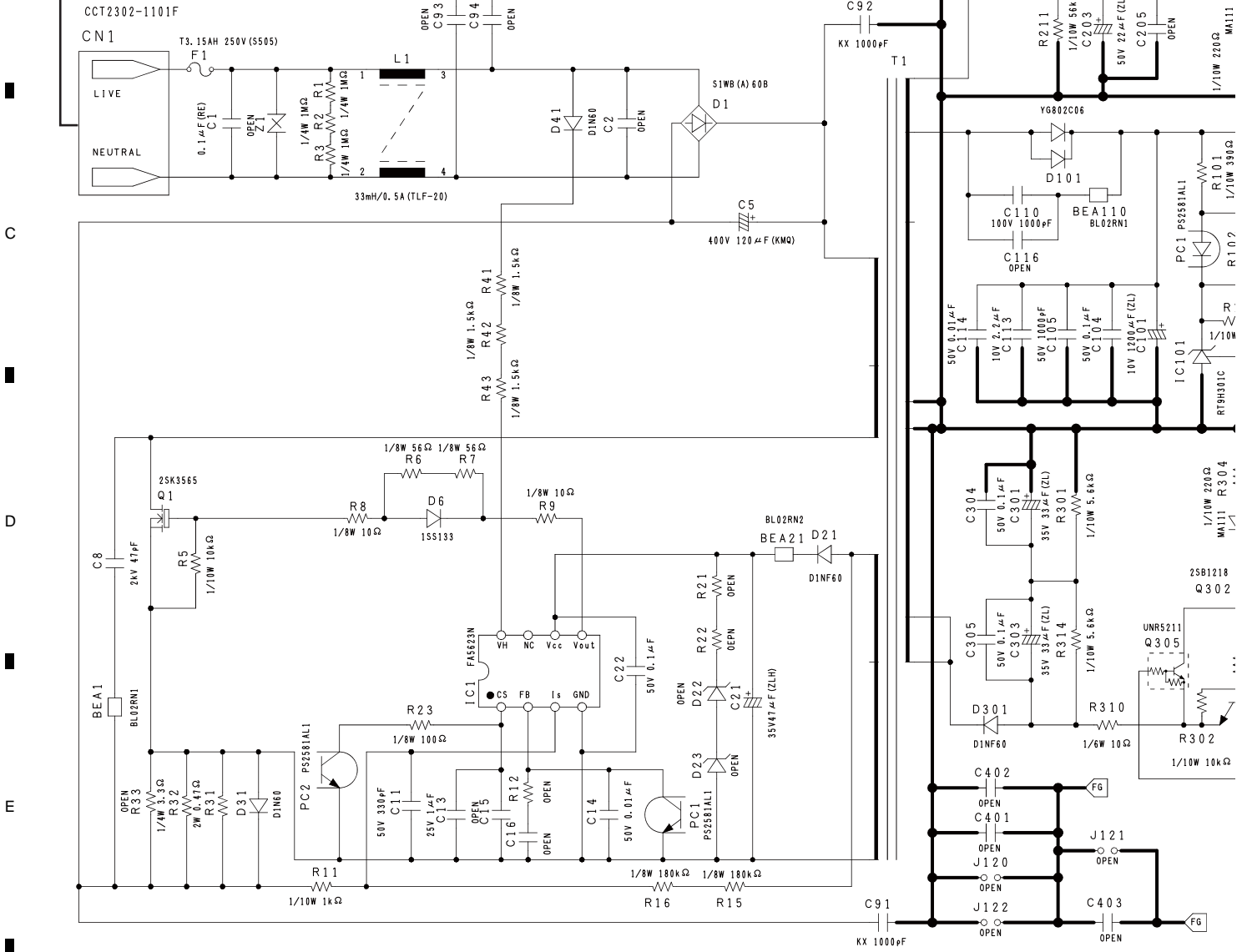


# FOR CUXJ



## SMPS ASSY (DWR1481)

### AC POWER CORD

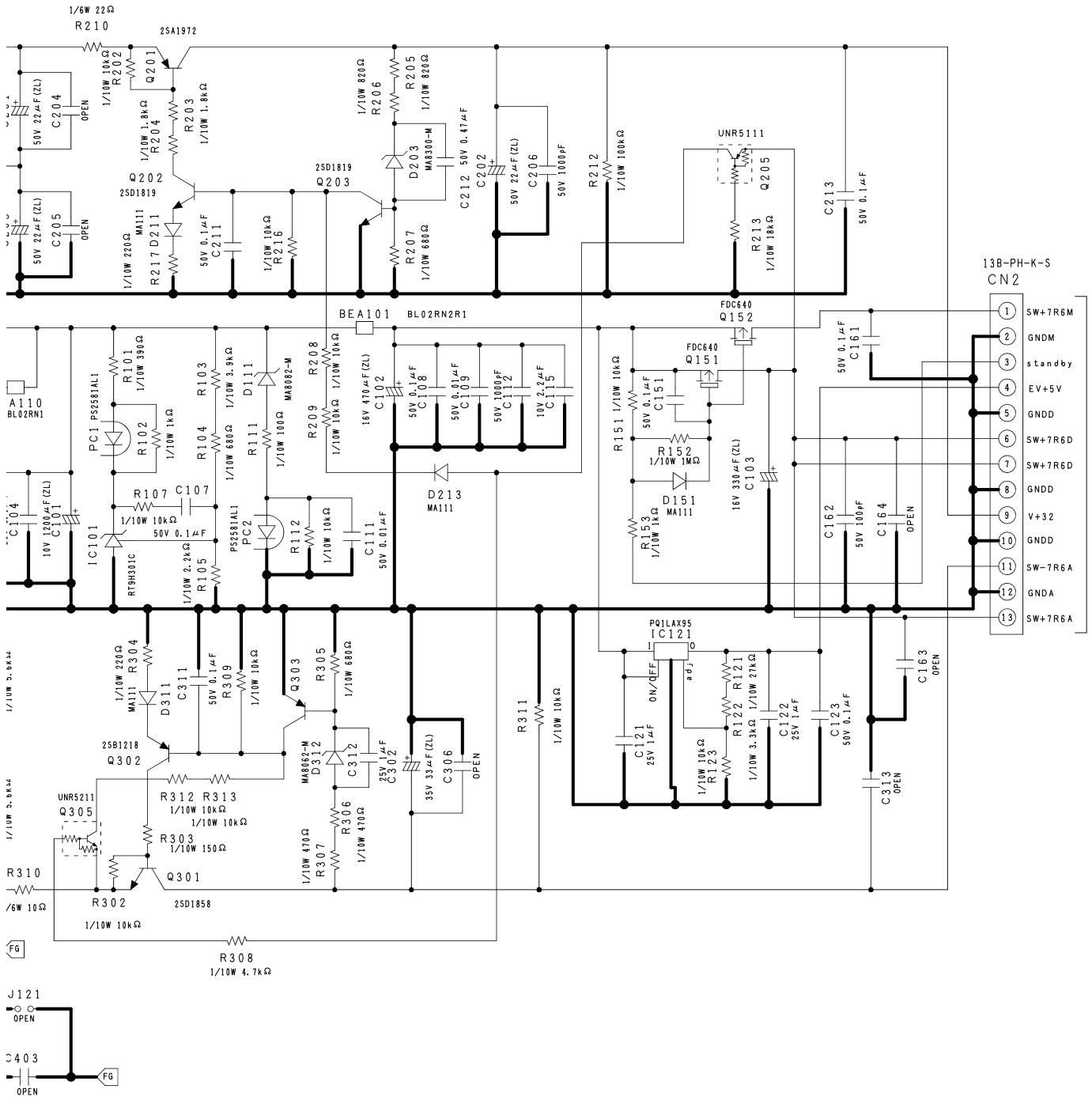


• NOTE FOR FUSE REPLACEMENT

**CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE AND RATINGS OF FUSE.**

The mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.





**C4/4 CN401**

## 10.10 VOLTAGES

### H SMPS ASSY output level check

Name	Point to be checked	Normal voltage level	Possible defective point when a voltage error is generated	STANDBY mode (while ⏻ is lit in red)
V+7R6M	1	7.22 to 7.98 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>MAIN Assy</li> <li>SERVO</li> <li>DRIVE Assy</li> </ul>	OFF
V+5EV	2	4.75 to 5.25 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>PNLB Assy</li> <li>PANEL CPU(IC501)</li> <li>SW</li> </ul>	ON
V+7R6DCDC	3	7.22 to 7.98 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>MAIN Assy</li> <li>MAIN CPU(IC103)</li> <li>SERVO DSP(IC201)</li> <li>AUDIO DSP(IC301)</li> <li>PNLB Assy</li> <li>FL V501</li> <li>JOG</li> <li>LED</li> <li>USB-A</li> </ul>	OFF
VFDP32	4	29.12 to 34.88 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>PNLB Assy</li> <li>FL</li> </ul>	OFF
V-7R6A	5	-7.22 to -7.98 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>MAIN Assy</li> <li>AUDIO/MUTE</li> </ul>	OFF
V+7R6A	6	7.22 to 7.98 V	<ul style="list-style-type: none"> <li>SMPS Assy</li> <li>MAIN Assy</li> <li>AUDIO/MUTE</li> </ul>	OFF

### Checking the voltage levels inside the various Assys

#### C MAIN ASSY

\*It is assumed that the SMPS Assy output level is normal.

Name	Point to be checked	Normal voltage level	Possible defective part
V+5R6	7	5.53 to 5.87 V	IC409
V+3R3	8	3.2 to 3.4 V	IC401
V+1R2	9	1.19 to 1.21 V	IC404 R426, R427
V+3R3A	10	3.27 to 3.33 V	IC402
V+1R25	11	1.24 to 1.26 V	IC403 R421, R422
V+5R6M	12	5.54 to 5.66 V	IC206
V+3R3S	13	3.27 to 3.33 V	IC408
VREF1R65	14	1.57 to 1.73 V	IC201, IC408
V+5A	15	4.95 to 5.05 V	IC406
V-AUDIO	16	7.22 to 7.98 V	SMPS Assy

#### E PNLB ASSY

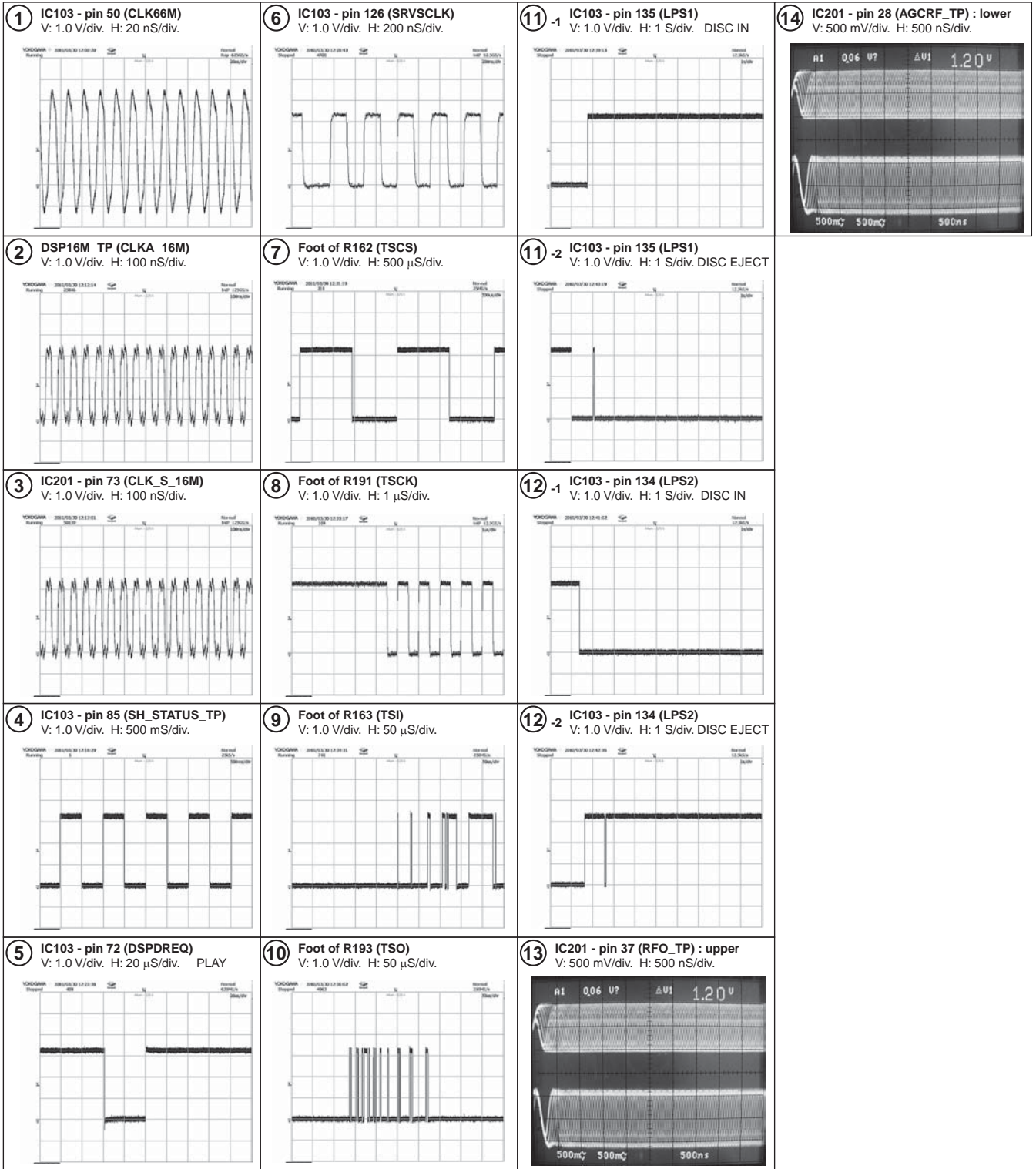
\*It is assumed that the SMPS Assy output level is normal.

Name	Point to be checked	Normal voltage level	Possible defective part
FL VH	17	28.8 to 35.2 V	Q502
FL VDD	18	4.5 to 5.5 V	D522
FL F+	19	5.54 to 5.66 V	V+5R6 power supply circuit (periphery of IC409)
FL F-	20	1.98 to 2.42 V	Q518, Q517
USB VBUS	21	4.75 to 5.25 V	IC505, IC504
V+5SW	22	4.65 to 5.35 V	D520

# 10.11 WAVEFORMS

## C MAIN ASSY

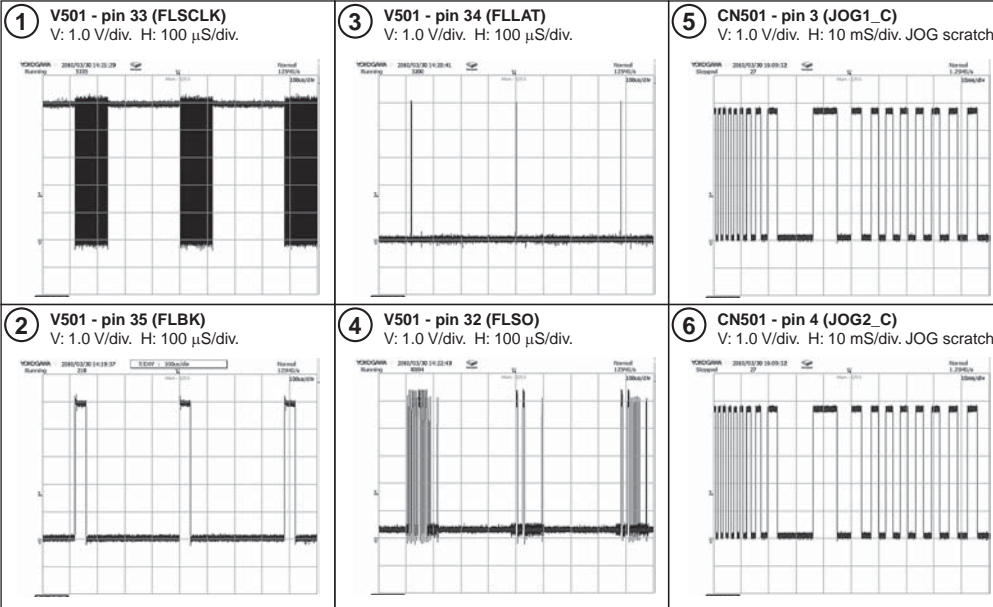
**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.



A

# E PNLB ASSY

**NOTE:** The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram and PCB diagram.



B

C

D

E

F



5



6



7



8



A



B



C



D



E



F



5



6

CDJ-350



7



8

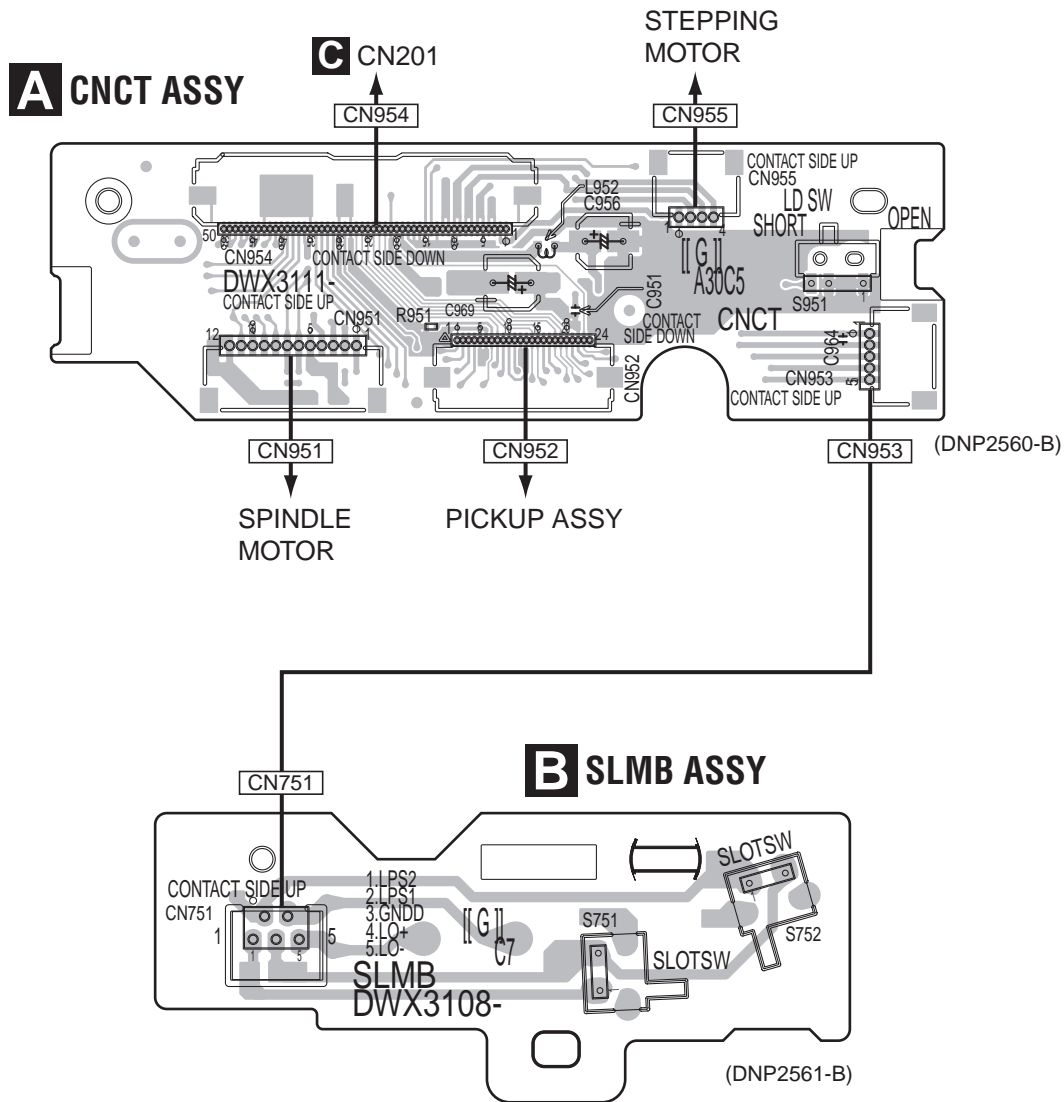


# 11. PCB CONNECTION DIAGRAM

## 11.1 CNCT and SLMB ASSYS

**SIDE A**

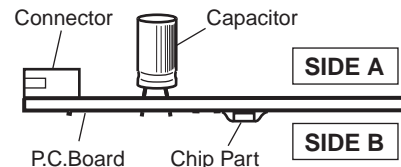
**SIDE A**



### NOTE FOR PCB DIAGRAMS :

1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



**A B**

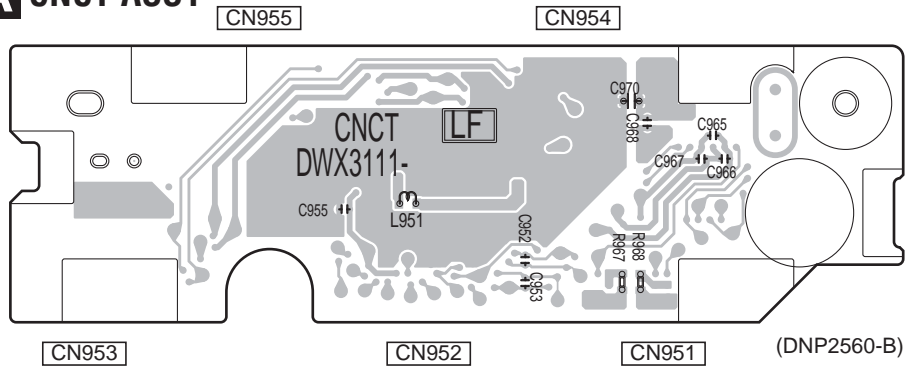


**SIDE B**

**SIDE B**

A

**A** CNCT ASSY

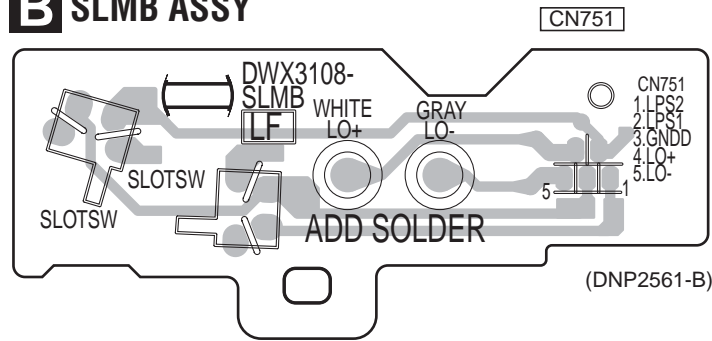


B

C

C

**B** SLMB ASSY



D

E

E

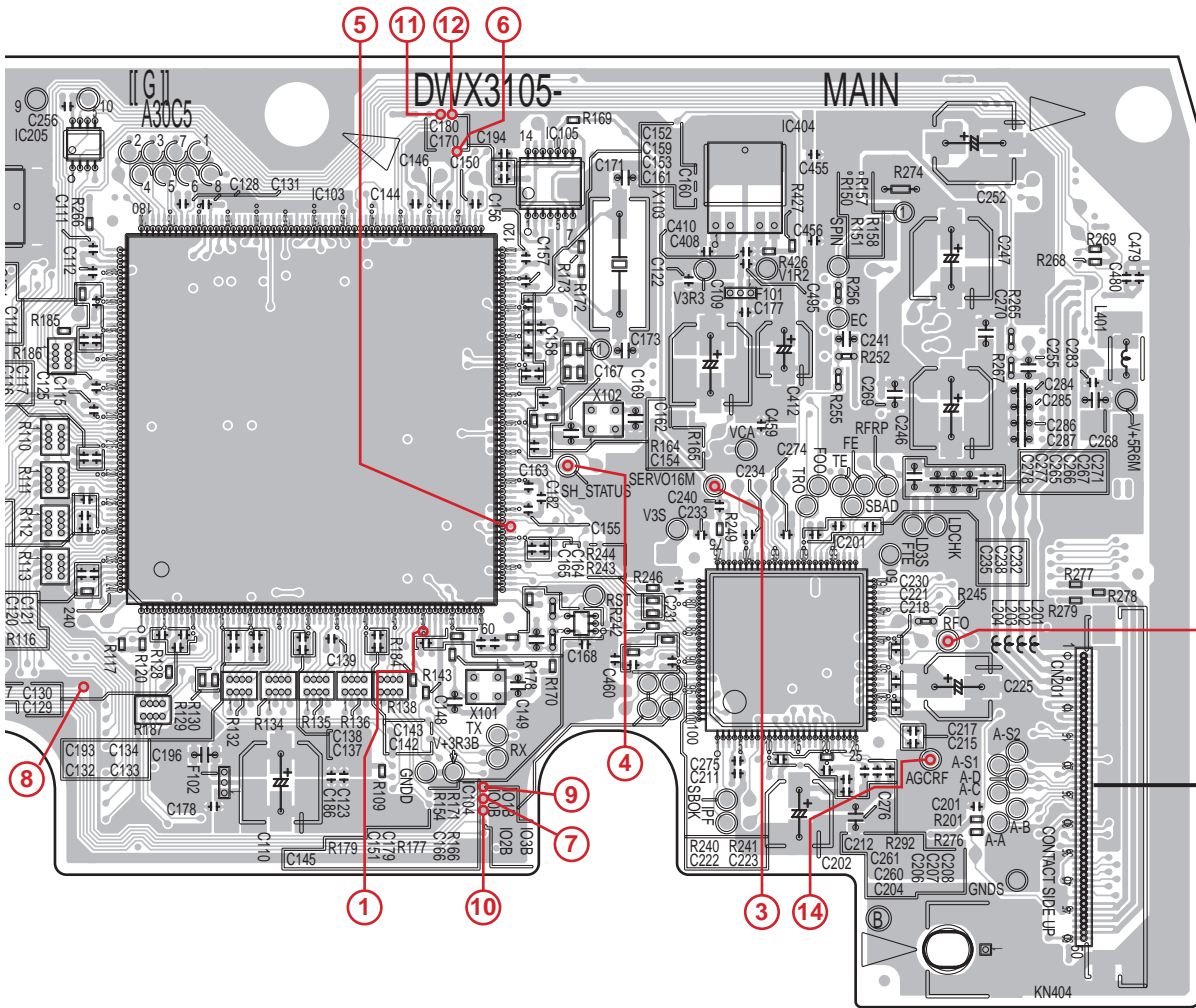
F

**A B**



**SIDE A**

**NOTE:** The encircled numbers denote measuring point.



(DNP2560-B)

IC205

IC103

IC105

IC404

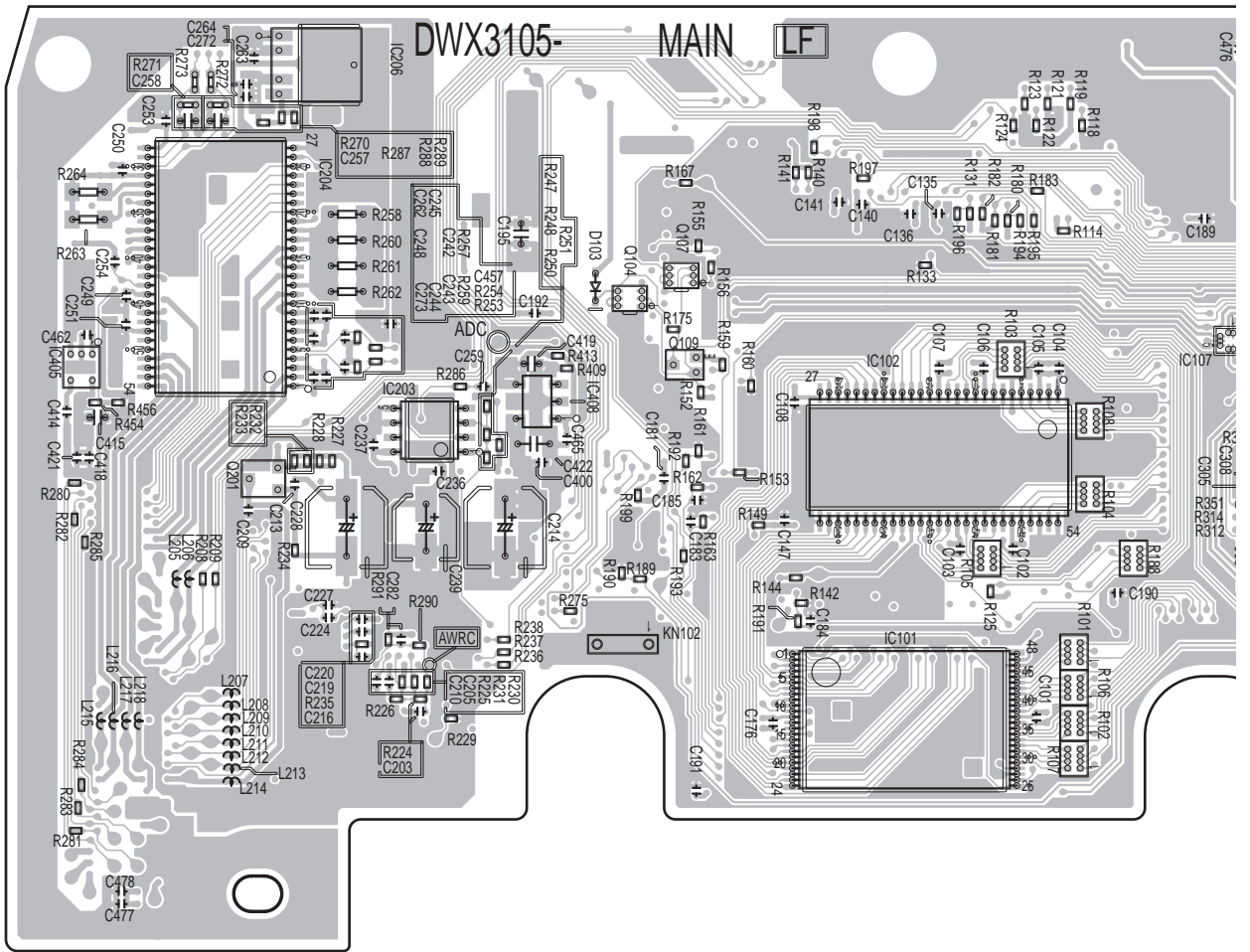
IC104

IC201

SIDE B

C MAIN ASSY

CN401

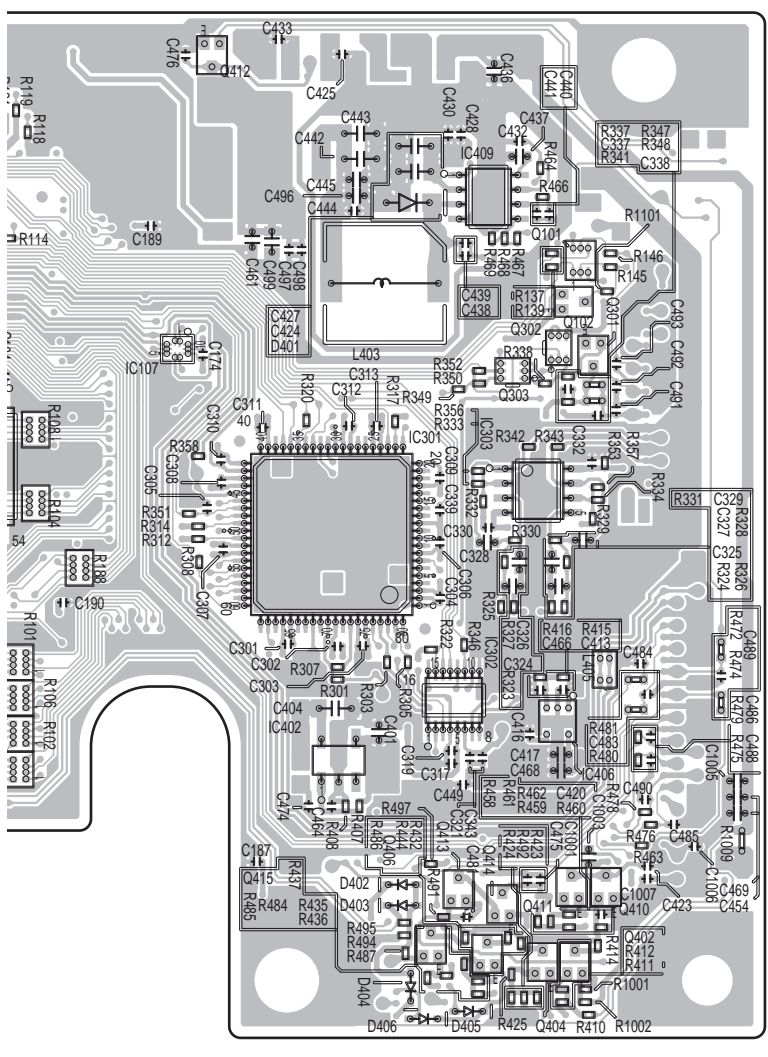


(DNP2560-B)

- IC405
- IC204
- Q201
- IC206
- IC203
- IC408
- Q104
- Q107
- Q109
- IC102
- IC101
- IC1

**SIDE B**

A  
B  
C  
D  
E  
F

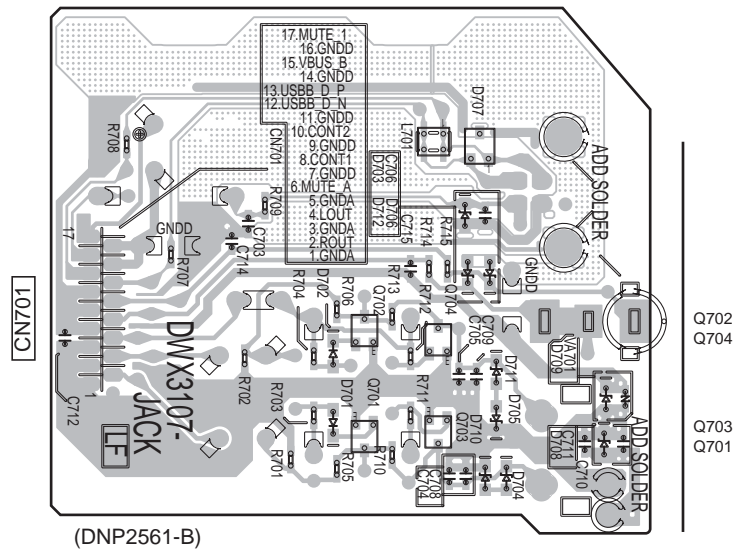


CN403

CN402

- Q412
- IC107
- IC301
- IC402
- IC302
- Q410-Q413
- Q415
- Q406
- Q404
- Q402
- Q102
- Q101
- Q303
- Q302
- Q301
- IC406
- Q404
- Q402

**D JACK ASSY**



CN701

Q702  
Q704  
Q703  
Q701

(DNP2561-B)

CDJ-350

**C D**

# 11.3 PNLB, TCHB and JOGB ASSYS

SIDE A

## **E** PNLB ASSY

A

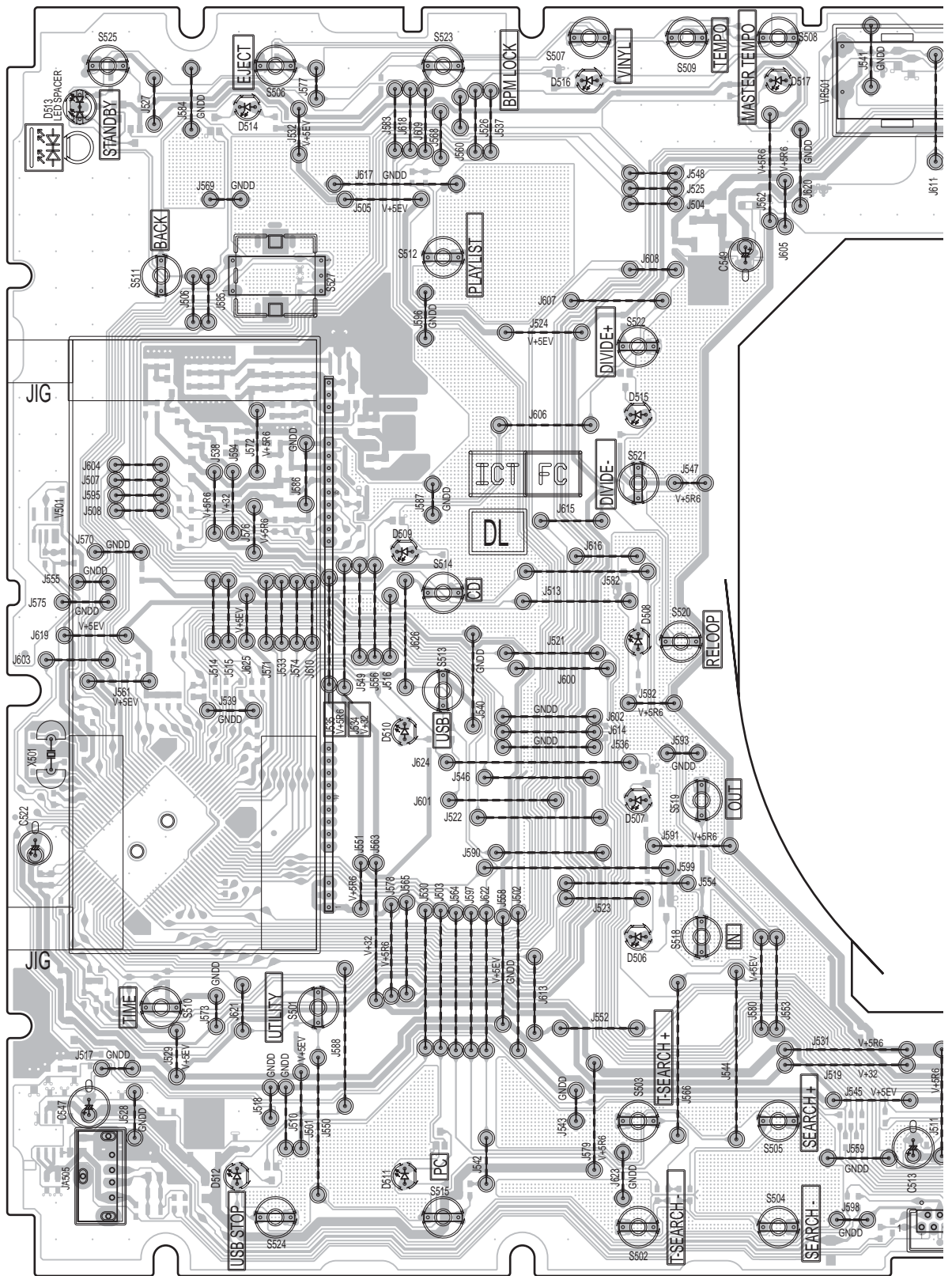
B

C

D

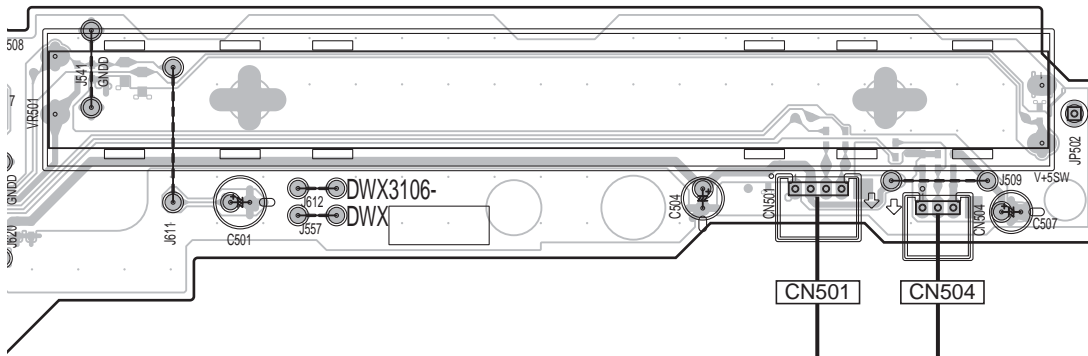
E

F

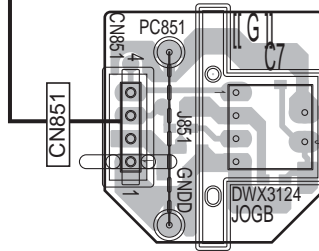


**SIDE A**

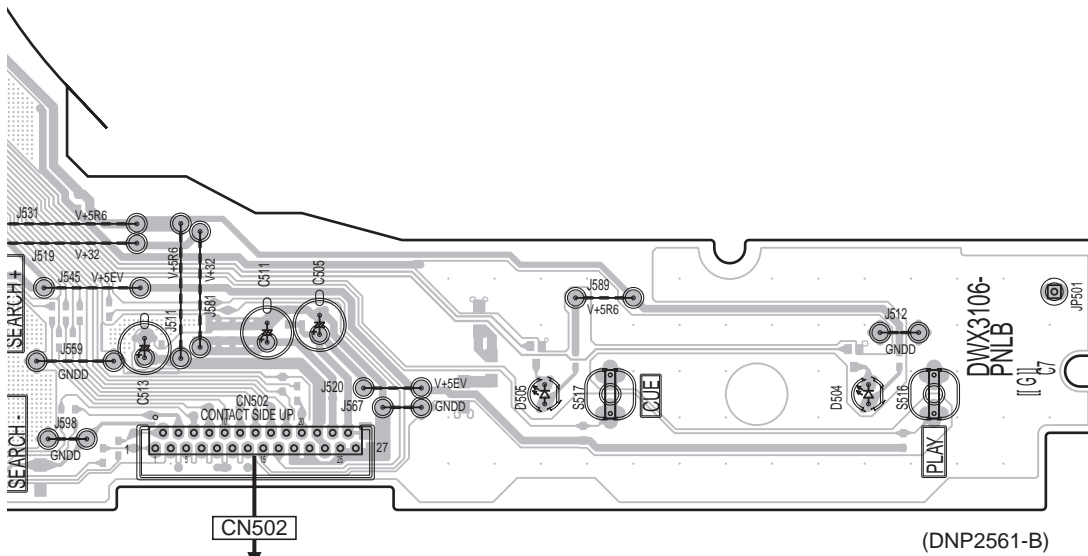
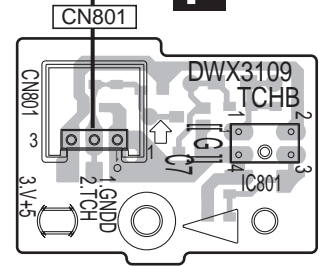
VR501



**G JOGB ASSY**



**F TCHB ASSY**



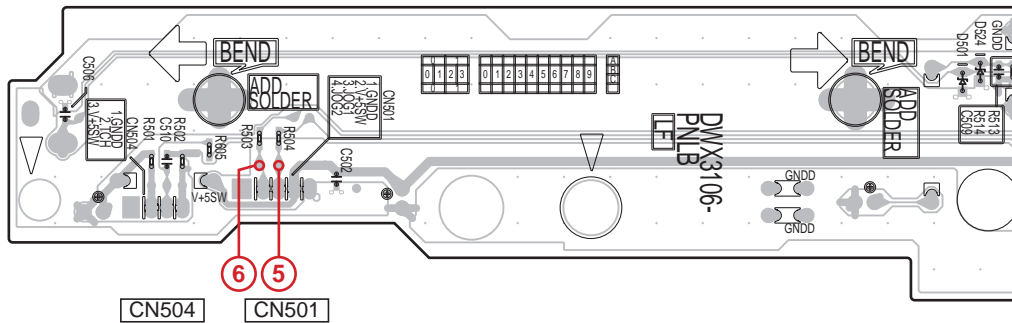
**C CN402**

(DNP2561-B)

**SIDE B**

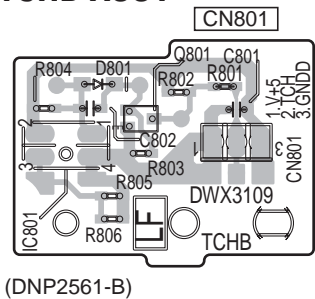
A

**E PNLB ASSY**



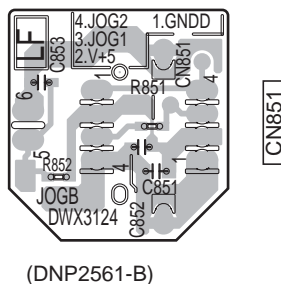
B

**F TCHB ASSY**



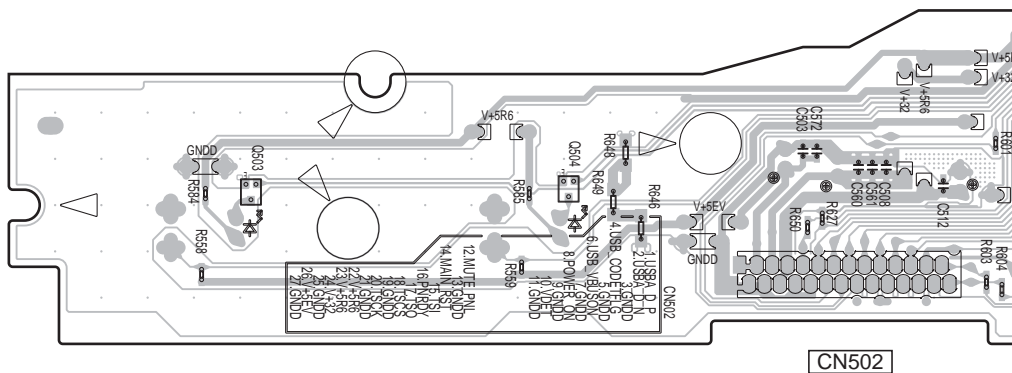
C

**G JOGB ASSY**



D

E



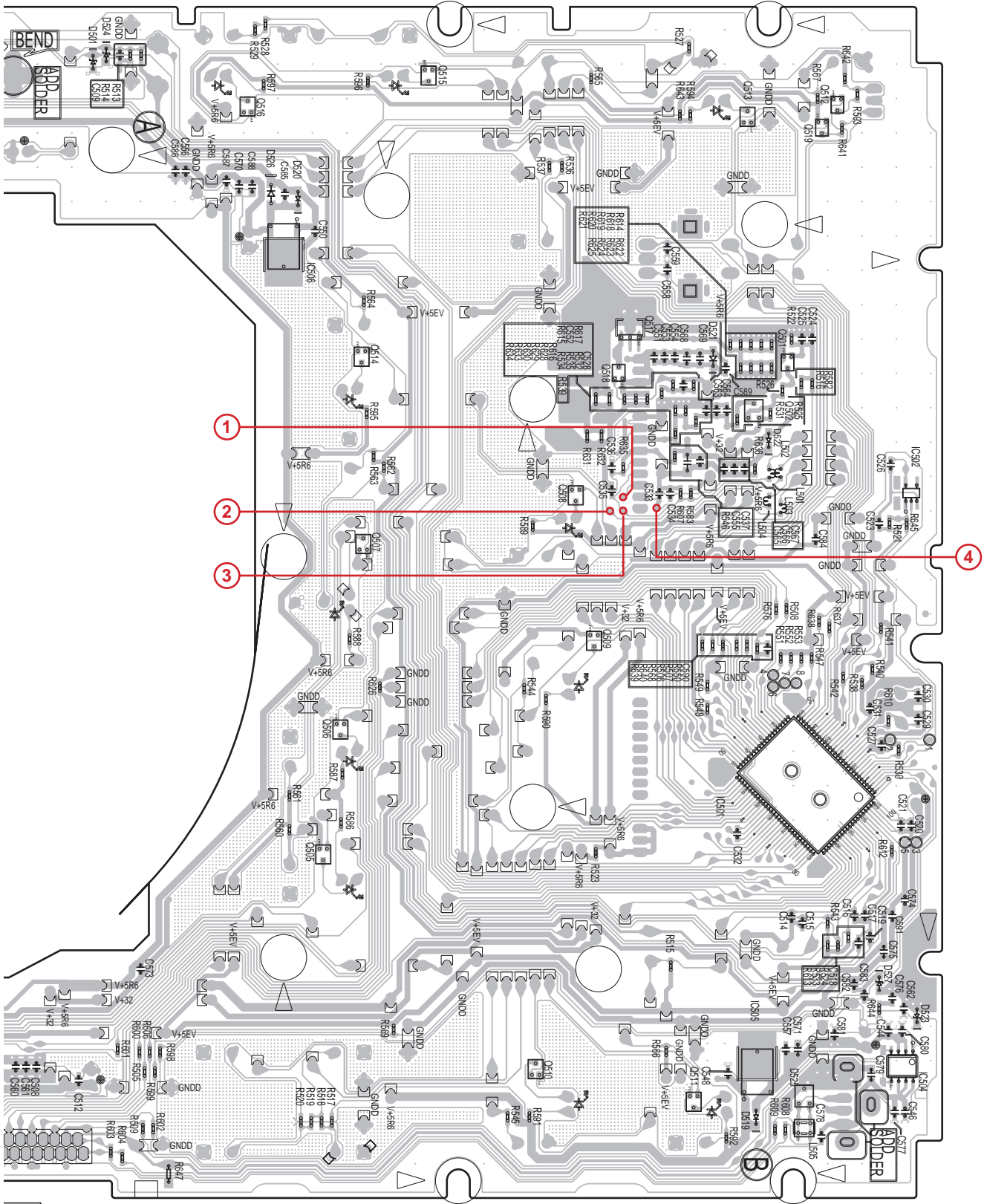
F

**E F G**



**SIDE B**

**NOTE:** The encircled numbers denote measuring point.



1502

(DNP2561-B)

Q516 IC506    Q514    Q515    Q517    Q513    Q519    Q512  
 Q505 Q506    Q507    Q518    Q502 Q501    IC502  
 Q510    Q508    Q509    IC505    IC501    IC504

**CDJ-350**

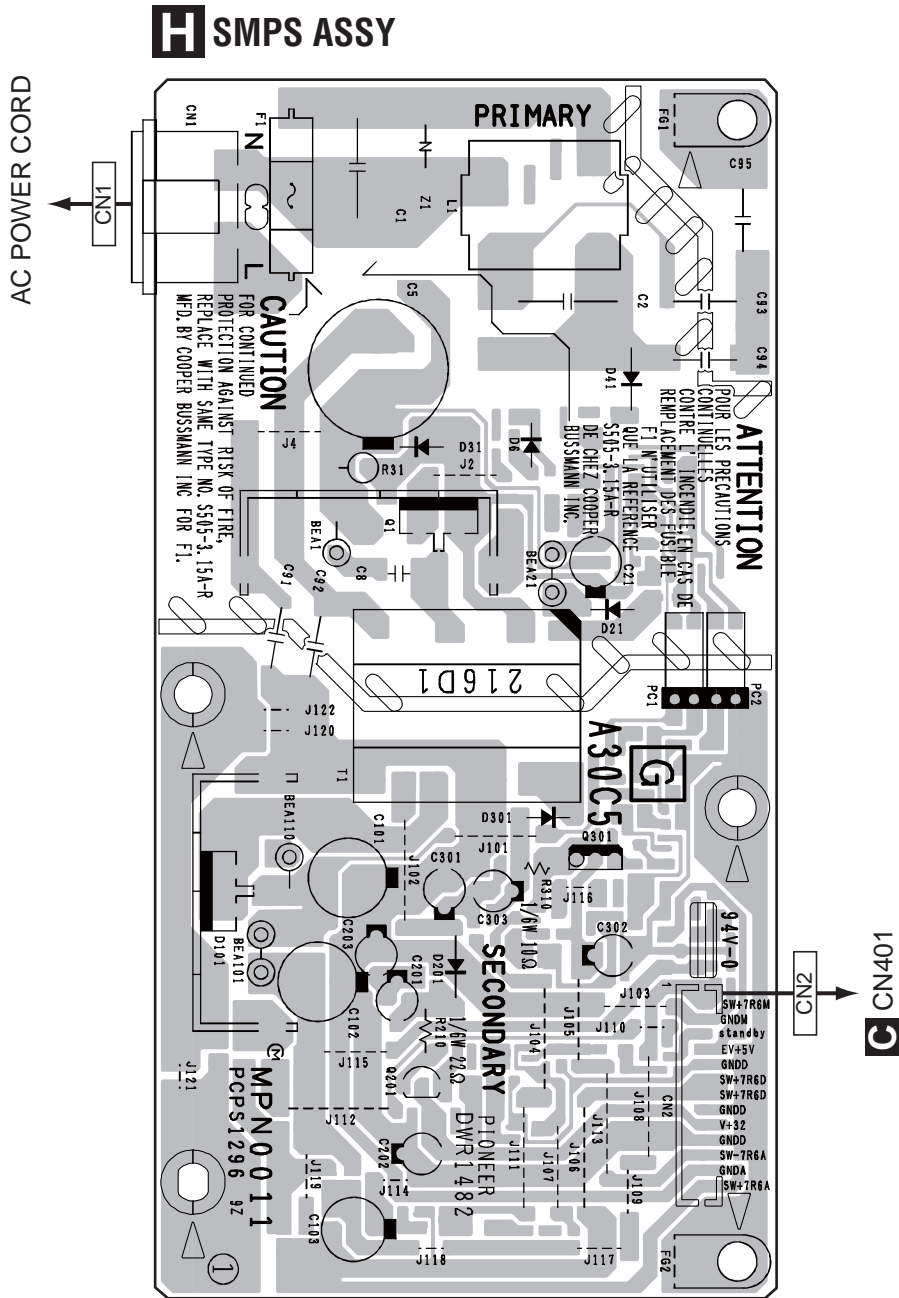


# 11.4 SMPS ASSY

**SIDE A**

**SIDE A**

● FOR SYXJ8, FLXJ, KXJ5 and AXJ5



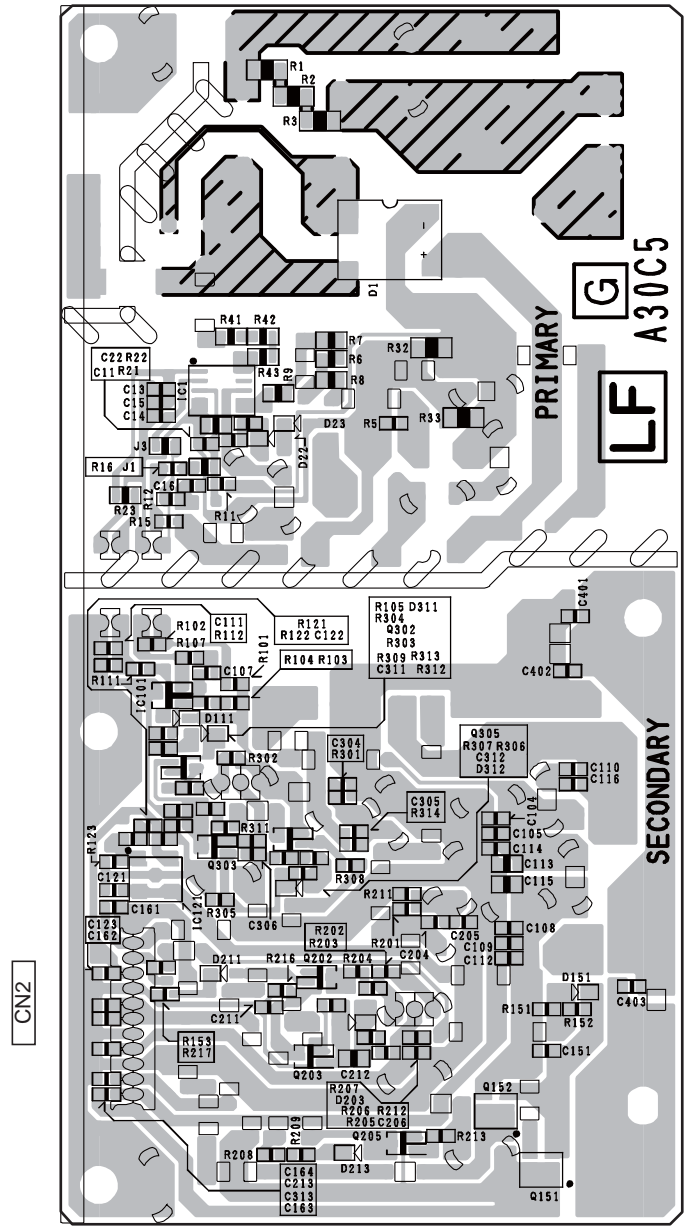
SIDE B

SIDE B

A

● FOR SYXJ8, FLXJ, KXJ5 and AXJ5

### SMPS ASSY



CN1

CN2

B

C

D

E

F



SIDE A

SIDE A

A

● FOR CUXJ

B

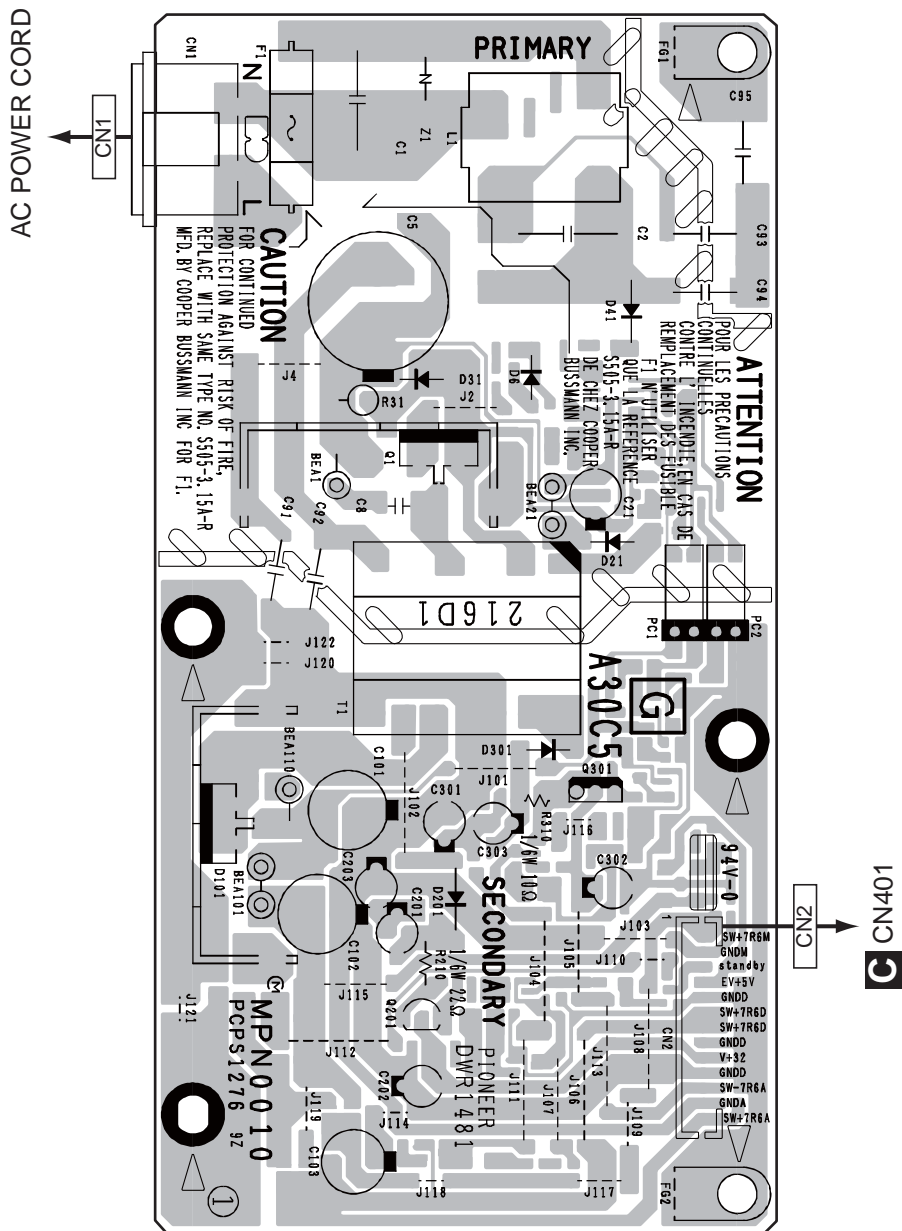
C

D

E

F

# SMPS ASSY

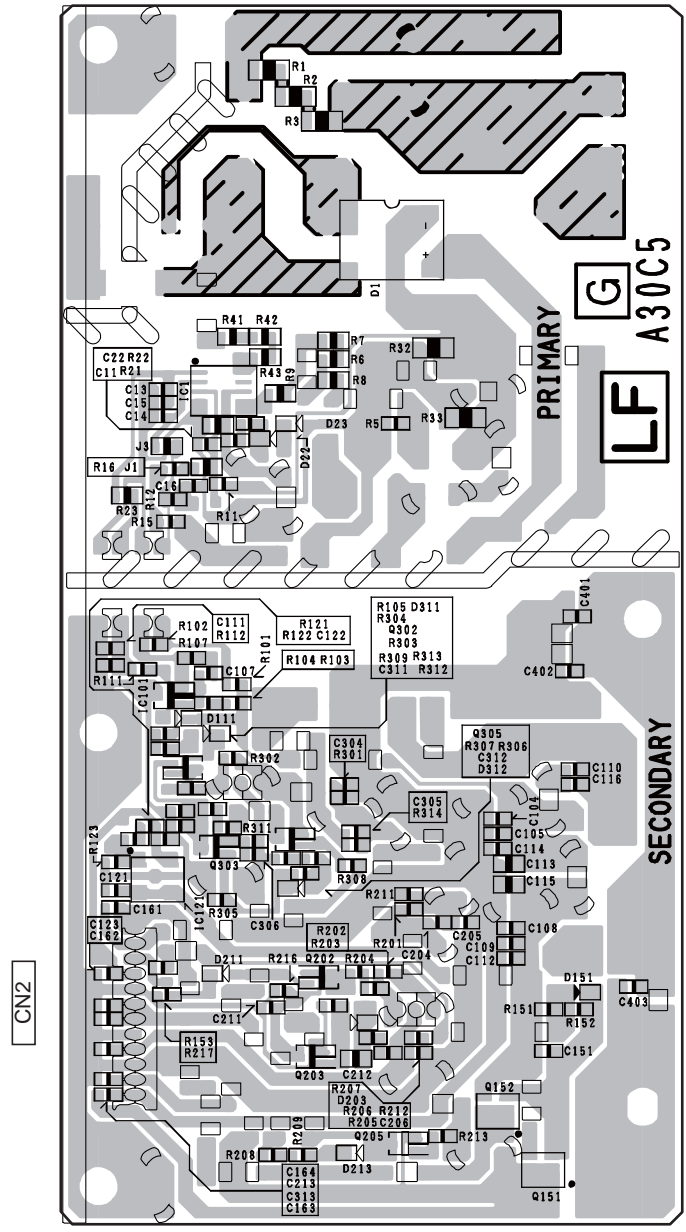


SIDE B

SIDE B

● FOR CUXJ

# SMPS ASSY



CN1

CN2

PRIMARY  
G  
LF A30C5

SECONDARY



# 12. PCB PARTS LIST

NOTES: ● Parts marked by "NSP" are generally unavailable because they are not in our Master Spare Parts List.

● The  $\Delta$  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

● When ordering resistors, first convert resistance values into code form as shown in the following examples.

Ex.1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47 k ohm (tolerance is shown by J = 5%, and K = 10%).

560	□	□	$56 \times 10^1$	□	561	.....	RD1/4PU	5	6	7	J
47 k	□	□	$47 \times 10^3$	□	473	.....	RD1/4PU	4	7	3	J
0.5	□	□	R50	.....		.....	RN2H	R	5	0	K
1	□	□	1R0	.....		.....	RSIP	7	R	0	K

Ex.2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62 k	□	□	$562 \times 10^1$	□	5621	.....	RN1/4PC	5	6	2	7	F
--------	---	---	-------------------	---	------	-------	---------	---	---	---	---	---

● Meaning of the figures and others in the parentheses in the parts list.

Example) IC 301 is on the point (face A, 91 of x-axis, and 111 of y-axis) of the corresponding PC board.

IC 301 (A, 91, 111) IC NJM2068V

**Mark No. Description** **Part No.**

**Mark No. Description** **Part No.**

## LIST OF ASSEMBLIES

NSP	1..PANL ASSY	DWM2380
	2..PNLB ASSY	DWX3106
	2..JACK ASSY	DWX3107
	2..SLMB ASSY	DWX3108
	2..TCHB ASSY	DWX3109
C	2..JOGB ASSY	DWX3124

NSP	1..MACN ASSY	DWM2391
	2..MAIN ASSY	DWX3105
	2..CNCT ASSY	DWX3111

$\Delta$	1..SMPS ASSY (SYXJ8,FLXJ,KXJ5,AXJ5)	DWR1482
$\Delta$	1..SMPS ASSY (CUXJ)	DWR1481

**Mark No. Description** **Part No.**

## A CNCT ASSY

### MISCELLANEOUS

L	951,952 INDUCTOR	CTF1410
S	951 SLIDE SWITCH	VSH1018
CN	951 12P FFC CONNECTOR	DKN1450
CN	952 24P FFC CONNECTOR	DKN1445
CN	953 5P CONNECTOR	DKN1402
CN	954 CONNECTOR	DKN1407
CN	955 4P CONNECTOR	DKN1288

### RESISTORS

R	967,968	RS1/10SR0R0J
	Other Resistors	RS1/16SS###J

### CAPACITORS

C	951,955	CKSSYB104K16
C	952,953,964,968	CKSSYB103K16
C	956,969	CEVQW220M16

## B SLMB ASSY

### MISCELLANEOUS

S	751,752 PUSH SWITCH	DSG1017
CN	751 5P CONNECTOR	VKN1265

## C MAIN ASSY SEMICONDUCTORS

IC	101	DYW1792
IC	102	K4S561632J-UC75
IC	103	R5S72630P200FP
IC	105	TC74VHCU04FT
IC	107	TS3USB30RSW

IC	201	TC94A15FG
IC	203	NJM2903M
IC	204	BD7956FS
IC	205	TC7W04FU
$\Delta$	IC 206	BA00BCOWFP

IC	301	DSPC56371AF180
IC	302	PCM1742KE
IC	303	RNB4580F
$\Delta$	IC 401	BA33BCOWFP
$\Delta$	IC 402,408	S-1170B33UC-OTS

$\Delta$	IC 403,404	BD00KA5WFP
$\Delta$	IC 405,406	NJM2872BF05
$\Delta$	IC 409	BD9326EFJ
	IC 410	TC74VHCT08AFTS1
	IC 411	TC74VHC08FTS1

Q	101,405,408	HN1C01FU
Q	102,410,412,413	RT1N241M
Q	104,107,302,303	RT3T22M
Q	109	RT1N141M-11
Q	201	2SA1036K

Q	301,402,404,406	2SA1576A
Q	411	LSC4081UB
Q	414	RT1P141M
Q	415	2SA1576A
D	101,103,304,405	1SS352

D	401	RSX201L-30
D	406	1SS352

### MISCELLANEOUS

L	201-218 INDUCTOR	CTF1545
L	403 INDUCTOR	CTH1254
F	101,102,301 EMI FILTER	DTL1106
KN	404 WRAPPING TERMINAL	CKF1089
X	101 CRYSTAL(33 MHz)	DSS1193
X	102 CRYSTAL (48 MHz)	ASS7099

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
X	103	CRYSTAL RESONATOR (16.9344 MHz)	VSS1084	C	171,173		CCSRCH180J50
CN	201	CONNECTOR	DKN1404	C	176-178,272,274		CCSSCH331J50
CN	401	CONNECTOR	AKM1299				
CN	402	27P CONNECTOR	RKN1068	C	180,187-193,211		VCG1063
				C	184,254,271,486		CCSSCH101J50
CN	403	17P CONNECTOR	RKN1058	C	185		CCSSCH150J50
				C	194,210,231,235		CKSSYB103K16
				C	201,204,209,212		CKSSYB104K10
<b>RESISTORS</b>							
R	101,102,106,107		RAB4CQ330J				
R	103-105,108		RAB4CQ560J	C	202,225,239,318		CEHVAW470M6R3
R	110-113,132		RAB4CQ330J	C	203		CCSSCH470J50
R	134-136,138		RAB4CQ330J	C	205,220		CKSSYB153K16
R	156		RS1/16SS5601F	C	206,207		CKSSYB223K16
				C	208		CKSSYB102K50
R	166,339,345		RS1/10SR0R0J				
R	186-188		RAB4CQ560J	C	213,217-219		CKSSYB104K10
R	189		RS1/16SS1002F	C	215		CKSSYB471K50
R	190		RS1/16SS2002F	C	216		CKSSYB681K50
R	255,347		RS1/10SR222J	C	221-224,230,233		CKSSYB104K10
				C	227		CCSSCH680J50
R	258,260-262		RS1/4SA1R0J				
R	263,264		RS1/4SA2R7J	C	228,246,247,252		CEHVAW470M16
R	265		RS1/10SR1002F	C	232,238		CKSSYB333K10
R	272,273		RS1/10SR683J	C	234,236,237,253		CKSSYB104K10
R	287		RS1/16SS1502F	C	241		CKSRYB333K25
				C	242		CKSSYB331K50
R	288		RS1/16SS1003F				
R	289,422,426		RS1/16SS3302F	C	243		CKSSYB271K50
R	323,324,356,357		RS1/16SS4702D	C	244,245,250,263		CKSSYB104K16
R	325,326		RS1/16SS2200D	C	248		CCSSCH471J50
R	327,328,469		RS1/16SS2201D	C	249,251,260,262		CKSSYB103K16
				C	255		CKSRYB122K50
R	329,332		RS1/16SS4701D				
R	330,331		RS1/16SS3301D	C	256,259,301-303		CKSSYB104K10
R	333,334		RS1/16SS5101D	C	257,258		CKSRYB222K50
R	421		RS1/16SS2202F	C	261,264,267,283		VCG1063
R	423		RS1/16SS4702F	C	265,436,454		CKSRYB104K50
				C	268,276,278,340		CKSQYB225K10
R	424		RS1/16SS1102F				
R	427		RS1/16SS5602F	C	275,308,311,335		CCSSCH331J50
R	467		RS1/16SS7500F	C	401,402,415		CKSRYB105K10
R	468		RS1/16SS1102D	C	445,468,471		CCSRCH102J50
R	470,471,483		RS1/4SA0R0J	C	304,305,307,342		CKSSYB103K16
				C	306,310,313,314		CKSSYB104K10
R	472-474,477,480		RS1/10SR330J				
R	481		RS1/10SR330J	C	309,312,317,400		VCG1063
R	1008,1009		RS1/8SQ0R0J	C	315,411,412		CEHVAW220M6R3
Other Resistors			RS1/16SS###J	C	316,1005		CCSRCH331J50
				C	319,321,403,407		CKSSYB104K10
				C	322,323,405,406		CEHVAW101M6R3
<b>CAPACITORS</b>							
C	101,103-105,107		CKSSYB104K10				
C	102,124,152,186		CKSSYB103K16	C	326,327		CCSRCH681J50
C	106,114,117,119		VCG1063	C	328,329		CCSRCH561J50
C	108,122,126,150		CCSSCH331J50	C	331,333,431,448		CEHVAW470M16
C	109,110,214,320		CEHVAW101M6R3	C	337		CKSSYB103K25
				C	341,499,1002		CKSQYB225K10
C	111-113,115,116		CKSSYB104K10				
C	118,120,125		CKSSYB104K10	C	404,422,424,427		DCH1165
C	121,123,130,131		VCG1063	C	408,420,423,425		CKSSYB104K10
C	127-129,132,133		CKSSYB104K10	C	409,410		CKSSYB105K6R3
C	134,138,143,154		VCG1063	C	413,428,432		CKSSYB104K16
				C	414,416,435,470		CKSSYB103K16
C	135-137,139-142		CKSSYB104K10				
C	144-147,151,153		CKSSYB104K10	C	417,419		CKSRYB105K10
C	148,169		CCSRCH100D50	C	418,430,467		VCG1063
C	149,167		CCSRCH9R0D50	C	421,434,497,1006		CCSSCH331J50
C	155-158,160		CKSSYB104K10	C	437		CKSRYB474K10
				C	438,444,446,447		CKSSYB104K10
C	159,161,165,179		VCG1063				
C	162-164,170,174		CKSSYB104K10	C	440		CKSSYB222K50
C	166,266,284,469		CKSRYB103K50	C	442,443		DCH1165

Mark	No.	Description	Part No.
	C	452	CEHVAW470M16
	C	453,455,458-460	CKSSYB104K10
	C	461	CKSRYB104K16
A	C	462,475,478,480	CKSSYB104K10
	C	472-474,495,1001	VCG1063
	C	483-485	CKSSYB221K50
	C	487,491-494	CCSSCH101J50
	C	496,1003	CKSRYB103K50
	C	498,1004	CKSSYB103K16
	C	1007	CCSSCH331J50

## D JACK ASSY SEMICONDUCTORS

Q	701-704	INC2002AC1
D	701,702	1SS352
D	703-706,708-712	RKZ5.6KG(B2)
D	707	NNCD6.2MF

## MISCELLANEOUS

JA	701	RCA 2 PIN JACK	XKB3057
JA	702	JACK	VKB1243
JA	703	USB-B CONNECTOR	DKN1237
CN	701	17P CONNECTOR	VKN1277

## RESISTORS

All Resistors	RS1/10SR###J
---------------	--------------

## CAPACITORS

C	701,702	CEANP101M16
C	703	CKSRYB105K10
C	704,705,710,711	CCSRCH102J50
C	707	CEAT471M16

## E PNLB ASSY SEMICONDUCTORS

IC	501	PEG740A8-K
IC	502	BU4242G
IC	504	BD2051AFJ
IC	505	NJM2845DL1-05
Q	501	LSC4081UB

Q	502	2SA2092
Q	503-511,513-516	RT1N241M
Q	512,519	RT1P241M-11
Q	517	2SD1898
Q	518	2SA1576A

D	501,523,524	RKZ5.6KG(B2)
D	504	SLI-343M8C(FGHJ)
D	505-508,515	SLI-343Y8C(KLMN)
D	509-511,514	SLR-343MC(NPQ)
D	512,517	SLR-343VC(NPQ)

D	513	SPR-39MVVF(MN)
D	516	SLR343BC4T(JKLM)
D	519,520,522	1SS352
D	525	NNCD6.2MF

## MISCELLANEOUS

L	501-504	INDUCTOR	CTF1378
JA	505	USB-A CONNECTOR	DKN1620
V	501	VFD	DEL1072
VR	501	VR	DCV1009
S	501-511,525	SWITCH	VSG1024

Mark	No.	Description	Part No.
S	512-515,518-524	TACT SWITCH	DSG1079
S	516,517	TACT SWITCH	DSG1117
S	527	ROTARY SW	YSD5019
X	501	CRYSTAL RESONATOR (15.975 MHz)	DSS1166
CN	501	L-PLUG(4P)	KM200NA4L
CN	502	27P CONNECTOR	VKN1287
CN	504	L-PLUG(3P)	KM200NA3L
0		LED SPACER	DEC3335

## RESISTORS

R	513,514	RS1/10SR2201F
R	616	RS1/10SR1001F
R	617	RS1/10SR2701F
R	631-634	RS1/8SQ1R8J
Other Resistors		RS1/10SR###J

## CAPACITORS

C	501	CEJQ101M16
C	502,506,508-510	CKSRYB103K50
C	504,507	CEJQ470M16
C	505,513	CEHAR101M10
C	511	CEHAR100M50

C	514-519	CKSRYB102K50
C	520,548	CKSRYB474K10
C	521,551,556,557	CCSRCH102J50
C	522	DCH1319
C	523,531,532,537	CKSRYB104K16

C	526,527,546,553	CKSRYB103K50
C	528,578	CKSRYB104K50
C	529,530,590	CCSRCH100D50
C	533,589	CCSRCH101J50
C	535	CCSRCH470J50

C	544,554	CKSRYB104K16
C	547	DCH1324
C	552,567	CKSRYB105K10
C	558,559,564,566	CKSRYB103K50
C	560,574,586	CCSRCH331J50

C	562	CCSRCH821J50
C	563,565,577,585	CCSRCH102J50
C	568,569,571,579	CKSQYB225K10
C	570	CKSQYB104K25
C	580,584,587,591	CKSRYB103K50

C	588	CKSQYB225K10
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## F TCHB ASSY SEMICONDUCTORS

IC	801	GP1S094HCZ0F
Q	801	LSC4081UB
D	801	1SS352

## MISCELLANEOUS

CN	801	L-PLUG(3P)	KM200NA3L
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## RESISTORS

All Resistors	RS1/10SR###J
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## CAPACITORS

C	801	CKSRYB104K16
---	-----	--------------



Mark	No.	Description	Part No.
------	-----	-------------	----------

## **G** JOGB ASSY

### MISCELLANEOUS

CN 851	CONNECTOR ASSY 4P	DKP3864
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### RESISTORS

All Resistors	RS1/10SR###J
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### MISCELLANEOUS

PC 851	PHOTO INTERRUPTER	SEDS-7573
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### CAPACITORS

C 851	CKSQYB225K10
C 852,853	CKSRYB103K50

## **H** SMPS ASSY

There is no service parts.