Pioneer

Service Manual

DDJ-S1

ORDER NO.
RRV4168

DJ CONTROLLER

DDJ-S1

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

Model	Type	Power Requirement	Remarks
DDJ-S1	SVYXJ8	AC 100 V to 240 V	
DDJ-S1	UXJCB	AC 100 V to 240 V	
DDJ-S1	FLPXJ	AC 100 V to 240 V	
DDJ-S1	KXJ5	AC 100 V to 240 V	
DDJ-S1	AXJ5	AC 100 V to 240 V	

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

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SAFETY INFORMATION

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

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

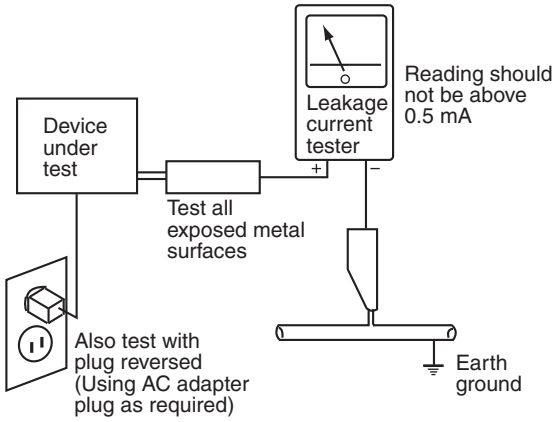
(FOR USA MODEL ONLY)

1. SAFETY PRECAUTIONS

The following check should be performed for the continued protection of the customer and service technician.

LEAKAGE CURRENT CHECK

Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester such as Simpson Model 229-2 or equivalent between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120 V AC 60 Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5 mA.



AC Leakage Test

ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER.

2. PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in the appliance have special safety related characteristics. These are often not evident from visual inspection nor the protection afforded by them necessarily can be obtained by using replacement components rated for voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this Service Manual.

Electrical components having such features are identified by marking with a ⚠ on the schematics and on the parts list in this Service Manual.
The use of a substitute replacement component which does not have the same safety characteristics as the PIONEER recommended replacement one, shown in the parts list in this Service Manual, may create shock, fire, or other hazards.

Product Safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current PIONEER Service Manual. A subscription to, or additional copies of, PIONEER Service Manual may be obtained at a nominal charge from PIONEER.

[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.

CONTENTS

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- 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 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC 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.

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 SERVICE NOTICE

Voltage Monitoring

This unit always monitors for power failure and will shut itself off immediately after an error is detected.
All LEDs are unlit after an error is generated.
After the unit shuts itself off because of an error, disconnect the AC adapter and USB cable and wait at least 1 minute before turning the unit back on.
Repair the unit according to the diagnostic procedures described in “5.3 VOLTAGE MONITORING.”

Limitations when the unit is operating on USB-bus power

There are some limitations in operations of this unit while it is operated on USB-bus power, as shown below.
- The JOG dial indicator does not light.
- No signal is output from MASTER OUT 1 (XLR output).
- The MIC 1, MIC 2, and AUX IN connectors cannot be used.
- Lighting of the indicators becomes dim.

On the EEPROM on the MAIN ASSY

No program has been stored in the EEPROM (IC511) on the MAIN Assy (blank ROM) when it is supplied as a part for service.
After the EEPROM is replaced, be sure to copy the program for the USB controller to it. For details, see “8.4 Copying the Program for the USB Controller.”

2. SPECIFICATIONS
2.1 SPECIFICATIONS

AC adapter
Power.....AC 100 V to 240 V, 50 Hz/ 60 Hz
Rated current.....300 mA
Rated output.....DC 5 V, 2 A

General – Main Unit
Power consumption (when using AC adapter).....1.4 A
Main unit weight.....5.0 kg (11 lb)
Max. dimensions.....680 mm (W) × 95.2 mm (H) × 318 mm (D)
(26.8 in. (W) × 3.7 in. (H) × 12.5 in. (D))
Tolerable operating temperature.....+5 °C to +35 °C (+41 °F to +95 °F)
Tolerable operating humidity.....5 % to 85 % (no condensation)

Audio Section (when using AC adapter/ when playing on computer)
Rated output level
MASTER OUT 1.....16 Vrms
MASTER OUT 2.....3 Vrms
Total harmonic distortion
MASTER OUT 1.....0.006 %
MASTER OUT 2.....0.006 %
Frequency characteristic
MASTER OUT 1.....20 Hz to 20 kHz
MASTER OUT 2.....20 Hz to 20 kHz
S/ N ratio
MASTER OUT 1.....101 dB or greater (at rated output)
MASTER OUT 2.....101 dB or greater (at rated output)

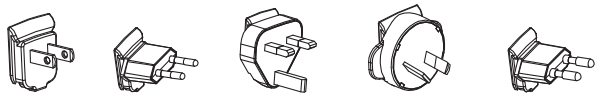
Input / Output terminals
USB terminal
B type.....1 set
MASTER OUT 1 output terminal
XLR connector.....1 set
MASTER OUT 2 output terminal
RCA pin jacks.....1 set
PHONES output terminal
Stereo phone jack (Ø 6.3 mm).....1 set
Stereo mini phone jack (Ø 3.5 mm).....1 set
AUX input terminal
RCA pin jacks.....1 set
MIC1 terminal
XLR connector/ phone jack (Ø 6.3 mm).....1 set
MIC2 terminal
Phone jack (Ø 6.3 mm).....1 set

- For improvement purposes, specifications and design of this unit and the included software are subject to change without notice.

Accessories

- AC adapter
  (DWR1491)

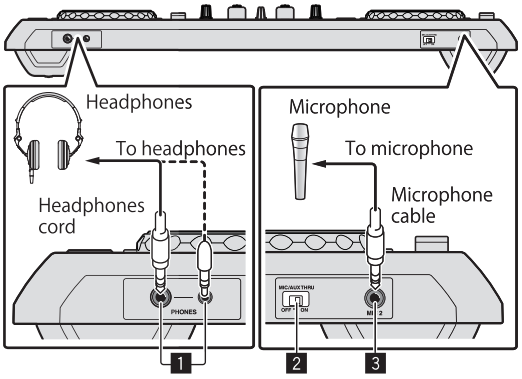
- Power plug
  (SVYXJ8: DKX1048, DKX1049)
  (UXJCB: DKX1047)
  (FLPXJ: DKX1048, DKX1049, DKX1047, DKX1050, DKX1051)
  (KXJ5: DKX1051)
  (AXJ5: DKX1052)



- CD-ROM
  (DXX2662)
- USB cable
  (DDE1128)
- Operating instructions
  (SVYXJ8: DRB1552, DRB1553, DRB1566)
  (UXJCB: DRB1551)
  (FLPXJ: DRB1554)
  (KXJ5: DRB1556)
  (AXJ5: DRB1555)

2.2 PANEL FACILITIES

Front panel

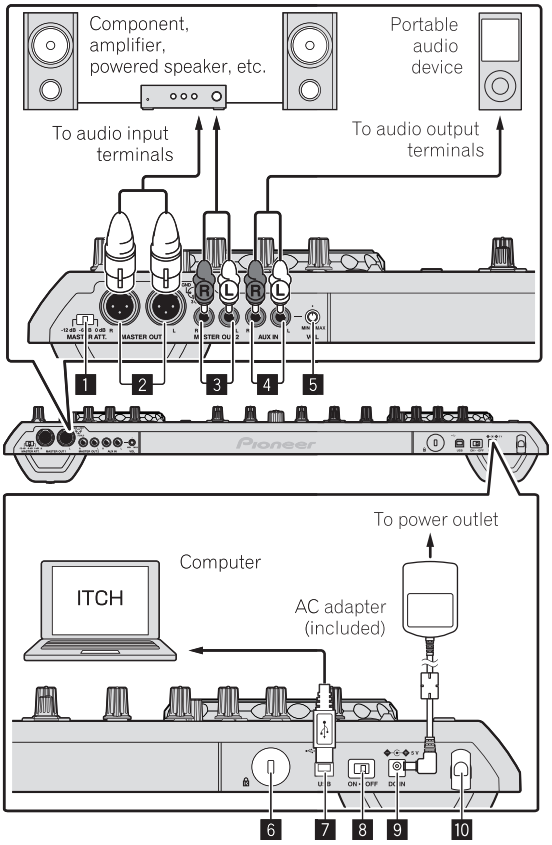


1 PHONES jacks
Connect headphones here.
Both stereo phone plugs (Ø 6.3 mm) and stereo mini phone plugs (Ø 3.5 mm) can be used.
For details, see *Monitoring sound with headphones* on page 26.
- There are two input jacks, both a stereo phones jack and a mini phones jack, but do not use both simultaneously. If both are used simultaneously, when one is disconnected and/or connected, the volume of the other may increase or decrease suddenly.

2 MIC/AUX THRU selector switch
Set this to [**ON**] if you want to output the [**MIC2**] and [**AUX**] channels directly.

3 MIC2 terminal
Connect a microphone here.

Rear panel



1 MASTER ATT.
Sets the attenuation level of the sound output from the [**MASTER1**] terminal.

2 MASTER OUT 1 terminal
Connect powered speakers, etc., here.

3 MASTER OUT 2 terminal
Connect to a power amplifier, etc.

4 AUX IN terminal
Connect to the output terminal of an external device (sampler, portable audio device, etc.)

5 VOL control
Adjusts the audio level input to the [**AUX IN**] terminals.

6 Kensington security slot

7 USB terminal
Connect to a computer.
- Connect this unit and the computer directly using the included USB cable.
- A USB hub cannot be used.

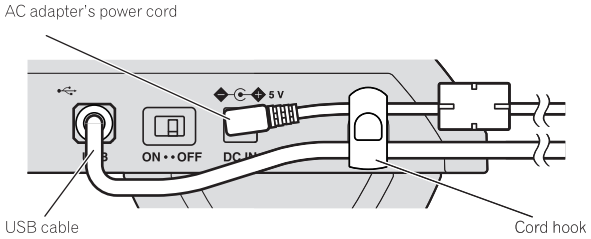
8 ON/OFF switch
Turns this unit's power on and off.

9 DC IN terminal
Connect to a power outlet using the included AC adapter (with the power plug mounted).
- Wait until connection of all equipment is completed before connecting the AC adapter.
- Only use the included AC adapter.

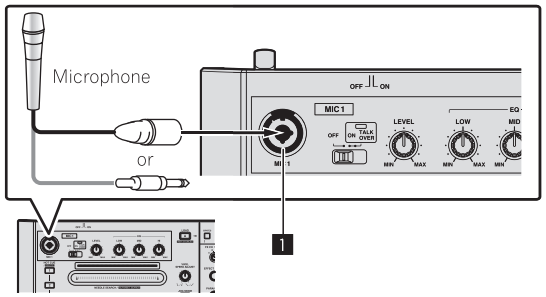
10 Cord hook
Catch the AC adapter's power cord and USB cable on this hook when using this unit.
- The sound will be interrupted if the AC adapter or USB cable is disconnected during playback.

❖ Cord hook

Hook the AC adapter's power cord in the top of the cord hook, the USB cable in the bottom.
Fasten the AC adapter's power cord and USB cable in place by hooking them on the cord hook. This prevents the power cord and USB cable from being accidentally pulled and the plugs from being disconnected from the terminals.
- The sound will be interrupted if the AC adapter or USB cable is disconnected during playback.

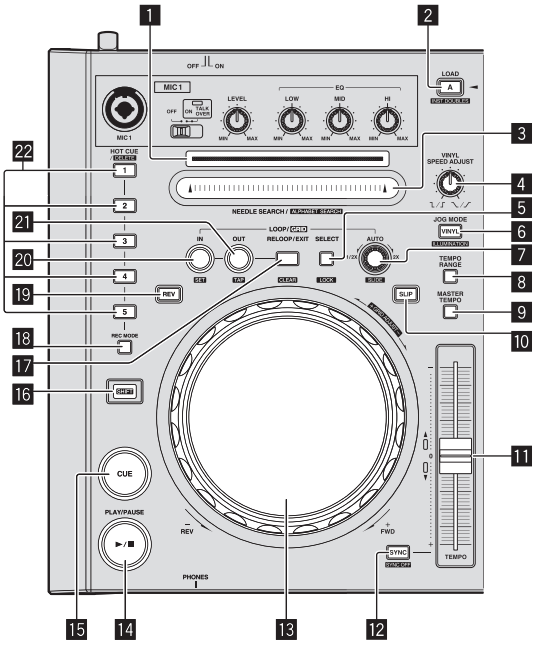


Upper left of control panel



1 MIC1 terminal
Connect a microphone here.
- Either an XLR connector or a phones plug (Ø 6.3 mm) can be used.

Deck section



1 Playing address indicator
The position in the track is displayed in 10 steps, with the beginning of the track at the left edge, the end of the track at the right edge. The indicator lights in sync with the elapsed playing time or remaining time display in the "ITCH" software.

2 LOAD (INST. DOUBLES) button
The selected tracks are loaded to the respective decks.
When the [**LOAD (INST. DOUBLES)**] button is pressed while pressing the [**SHIFT**] button, the track being played is doubled.

3 NEEDLE SEARCH (ALPHABET SEARCH) pad
- The sound is played from the position at which the pad is touched.
- The alphabet search function can be used.

4 VINYL SPEED ADJUST control
For track playing and stopping, this adjusts the speed at which playback slows until it stops and the speed at which the normal playback speed is reached from the stop mode.

5 LOOP SELECT (GRID LOCK) button
The loop you want to play can be selected from the loops that have been pre-registered in the loop bank.
The loop bank number switches each time the button is pressed.
When the [**LOOP SELECT (GRID LOCK)**] button is pressed while pressing the [**SHIFT**] button, the overall beat grid is locked so that it cannot be edited.

6 VINYL (ILLUMINATION) button
This switches the [**VINYL**] mode on/off.

7 AUTO LOOP (GRID SLIDE) control
This sets auto loops.
- The beat grid can be adjusted by turning the [**AUTO LOOP (GRID SLIDE)**] control while pressing the [**SHIFT**] button.

8 TEMPO RANGE button
This switches the [**TEMPO**] slider's adjustment range.

9 MASTER TEMPO button
Use this to turn the master tempo function on and off.

10 SLIP button
This turns the slip mode on/off.

11 TEMPO slider
Use this to adjust the track playing speed.

12 SYNC (SYNC OFF) button
When this button is pressed, the track on the deck whose button was pressed is synchronized to the BPM and beat grid of the track loaded in the other deck.

13 Jog dial
This can be used for such operations as scratching, pitch bending, etc.
- The top of the jog dial has an embedded switch. Do not place objects on the jog dial or subject it to strong forces. Also note that water or other liquids getting into the set will lead to malfunction.

14 PLAY/PAUSE ►/II button
Use this to play/pause tracks.

15 CUE button
This is used to set, play and call out temporary cue points.

16 SHIFT button
When another button is pressed while pressing the [**SHIFT**] button, a different function is called out.

17 RELOOP/EXIT (GRID CLEAR) button
Use this to return to loop playback (reloop) or cancel loop playback (loop exit).
The beat grid can be cleared by pressing the [**RELOOP/EXIT (GRID CLEAR)**] button while pressing the [**SHIFT**] button.

18 REC MODE button
This switches the function of the [**HOT CUE (DELETE)**] button (set/call-out).
- When the power is turned on, the button is set to the call-out mode.

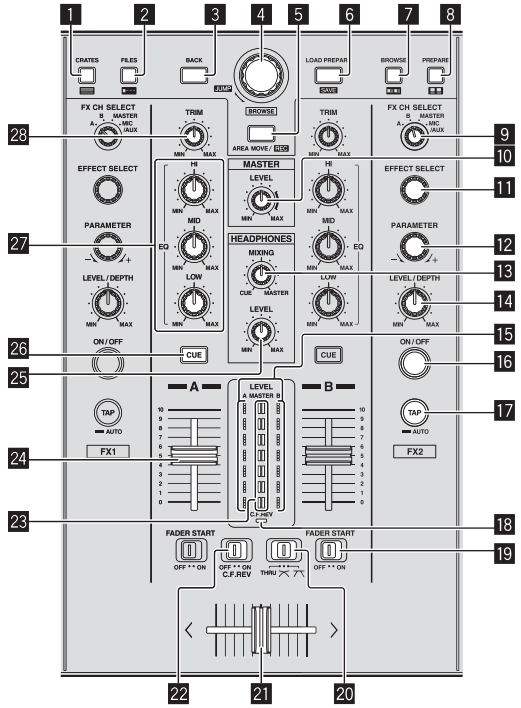
19 REV button
Use this to turn reverse playback on and off.

20 LOOP IN (GRID SET) button
When this button is pressed during playback at the position at which you want to start loop playback (the loop in point), the loop in point is set.
The beat grid can be set by pressing the [**LOOP IN (GRID SET)**] button while pressing the [**SHIFT**] button.

21 LOOP OUT (GRID TAP) button
When this button is pressed during playback at the position at which you want to end loop playback (the loop out point), the loop out point is set, playback returns to the loop in point and loop playback starts.
When the [**LOOP OUT (GRID TAP)**] button is pressed while pressing the [**SHIFT**] button, the beat grid can be adjusted during playback by tapping the button.

22 HOT CUE (DELETE) button
This is used to set and call out hot cues.

Mixer/Effect section



1 CRATES button
Moves the cursor to the crate list panel.

2 FILES button
Turns the display of the [**FILES**] panel on/off.

3 BACK button
Moves the cursor focus back one level.

4 Rotary selector
Moves the cursor within the panel. Use this to select files or tracks.

5 AREA MOVE (REC) button
Moves the cursor to a different panel.

6 LOAD PREPARE (SAVE) button
Loads tracks to the [**PREPARE**] panel.

7 BROWSE button
Turns the display of the [**BROWSE**] panel on/off.

8 PREPARE button
Turns the display of the [**PREPARE**] panel on/off.

9 FX CH SELECT control
Switches the channel to which the effect is applied.

10 MASTER LEVEL control
Adjusts the master sound level output.

11 EFFECT SELECT control
Selects the type of effect.

12 PARAMETER control
Adjusts the parameters provided for the various effects (time, harmonics etc.).

13 HEADPHONES MIXING control
Adjusts the monitor volume balance between the sound of channels for which the headphones [**CUE**] button is pressed and the sound of [**MASTER OUT 1**] and [**MASTER OUT 2**].

14 LEVEL/DEPTH control
Adjusts the quantitative parameter of the effect.

15 Channel level indicator

16 FX ON/OFF button
Turns the effect on/off.

17 TAP button
The BPM used as the base value for the effect is calculated by the interval at which the button is tapped with a finger.

18 C.F. REV indicator
Lights when the [**C.F. REV**] switch is set to [**ON**].

19 FADER START switch
These turn the fader start function on/off.

20 Crossfader curve selector switch
This switches the crossfader curve characteristics.

21 Crossfader
Switches between the audio output of the left and right decks.

22 C.F. REV switch
Reverses the deck to which the crossfader is assigned from right to left and vice versa.

23 Master level indicator

24 Channel fader
Adjusts the sound level output from the various decks.

25 HEADPHONES LEVEL control
Adjusts the audio level output from the [**PHONES**] terminal.

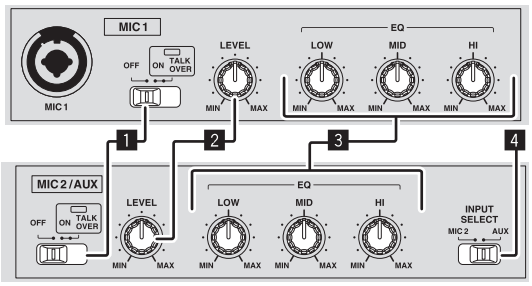
26 Headphones CUE button
The sound of decks for which the headphones [**CUE**] button is pressed can be monitored over headphones.

27 EQ (HI, MID, LOW) controls
Boosts or cuts frequencies for the different channels.

28 TRIM control
Adjusts the individual channel output gain.

Do not pull on the channel fader and crossfader knobs with excessive force. The knobs are not designed to be removed. Pulling the knobs strongly may result in damaging the unit.

Microphone/External input control section



1 OFF, ON, TALK OVER selector switch
Turns the microphone on/off.

2 LEVEL control
Adjusts the level of the output sound.

3 EQ (HI, MID, LOW) controls
Boosts or cuts frequencies in order to change the quality of the sound.

4 MIC2/AUX selector switch
Switches the audio input between the microphone and the external device.

- [**MIC2**]: Selects the microphone connected to the [**MIC2**] terminal.
- [**AUX**]: Selects the external device connected to the [**AUX IN**] terminals.

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedures	Check points
1	Confirm that the customer complaint has been resolved. If the problem pointed out by the customer occurs with a specific source or operation, such as PC input, AUX/MIC input, Fader, or VOL, input that specific source then perform that specific operation for checking.	The symptoms in question must not be reproduced. There must be no abnormality in audio signals or operations.
2	Check operations of the operating elements. Enter Service mode.	There must be no errors in operations of each button, the JOG dial, LEDs, NeedleSearch, VOL, fader control, and rotary encoder.
3	Check the analog audio output. Connect this unit with a PC with the DJ application (ITCH) installed, via USB, then play back audio.	There must be no errors, such as noise, in audio signals and operations of the MASTER/HEADPHONES outputs.
4	Check the analog audio input. Input an audio signal via AUX/MIC.	There must be no abnormality in audio signals or operations.
5	Check USB-bus Power. Disconnect the AC adapter and operate the unit only on USB-bus power.	There must be no abnormality in audio signals or operations.
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 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

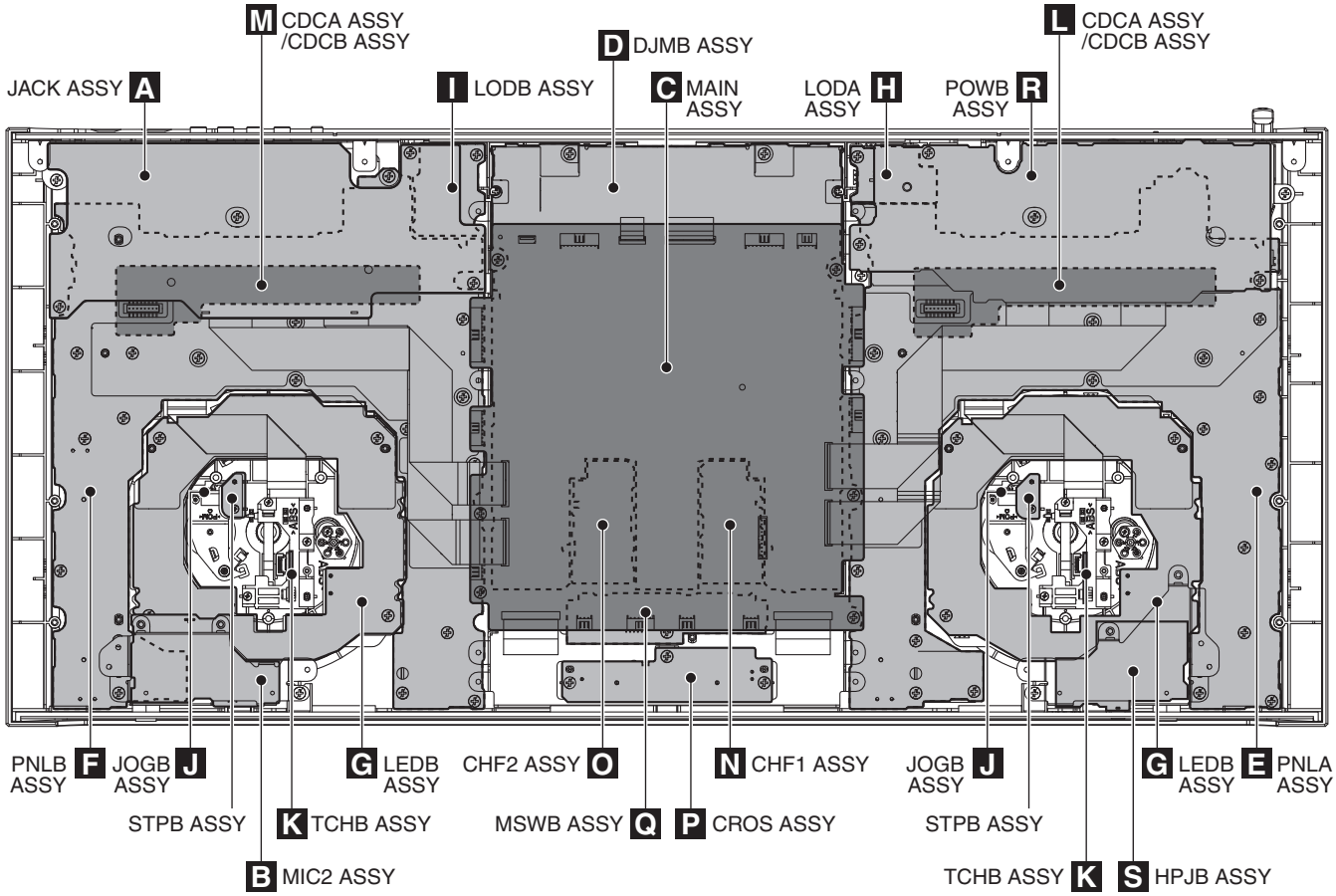
Jig Name	Part No.	Purpose of use / Remarks
USB cable	DDE1128	for PC connection, accessory
AC adapter	DWR1491	Accessory (Note: The power plug part is different.)

■ Lubricants and Glues List

Name	Part No.	Remarks
Lubricating oil	GYA1001	Refer to “9.6 JOG SECTION”.

3.3 PCB LOCATIONS

Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.



Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.

• Bottom view

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.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP	1..	MAJA ASSY	DWM2429
	2..	MAIN ASSY	DWX3227
	2..	CDCA ASSY	DWX3228
	2..	CDCB ASSY	DWX3229
	2..	JACK ASSY	DWX3230
NSP	1..	CDJA ASSY	DWM2430
	2..	PNLA ASSY	DWX3231
	2..	JOGB ASSY	DWX3238
	2..	TCHB ASSY	DWX3239
	2..	LEDB ASSY	DWX3240
	2..	LODA ASSY	DWX3249
	2..	STPB ASSY	DWX3280

Mark	No.	Description	Part No.
NSP	1..	CDJB ASSY	DWM2431
	2..	PNLB ASSY	DWX3237
	2..	JOGB ASSY	DWX3238
	2..	TCHB ASSY	DWX3239
	2..	LEDB ASSY	DWX3240
	2..	HPJB ASSY	DWX3241
	2..	MIC2 ASSY	DWX3242
	2..	CROS ASSY	DWX3246
	2..	LODB ASSY	DWX3250
	2..	STPB ASSY	DWX3280
NSP	1..	DJMP ASSY	DWM2432
	2..	DJMB ASSY	DWX3243
	2..	CHF1 ASSY	DWX3244
	2..	CHF2 ASSY	DWX3245
	2..	MSWB ASSY	DWX3247
	2..	POWB ASSY	DWX3248

A

B

C

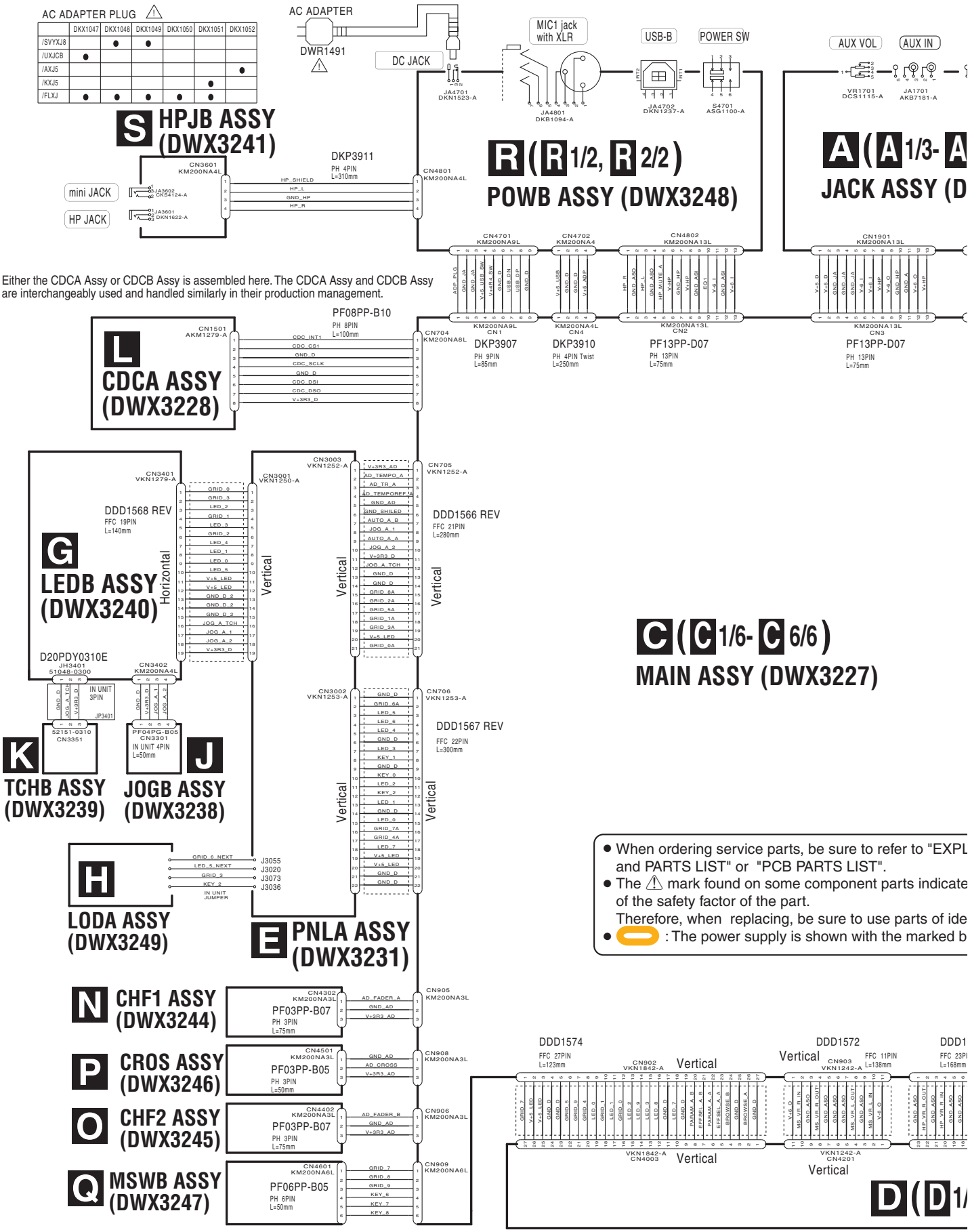
D

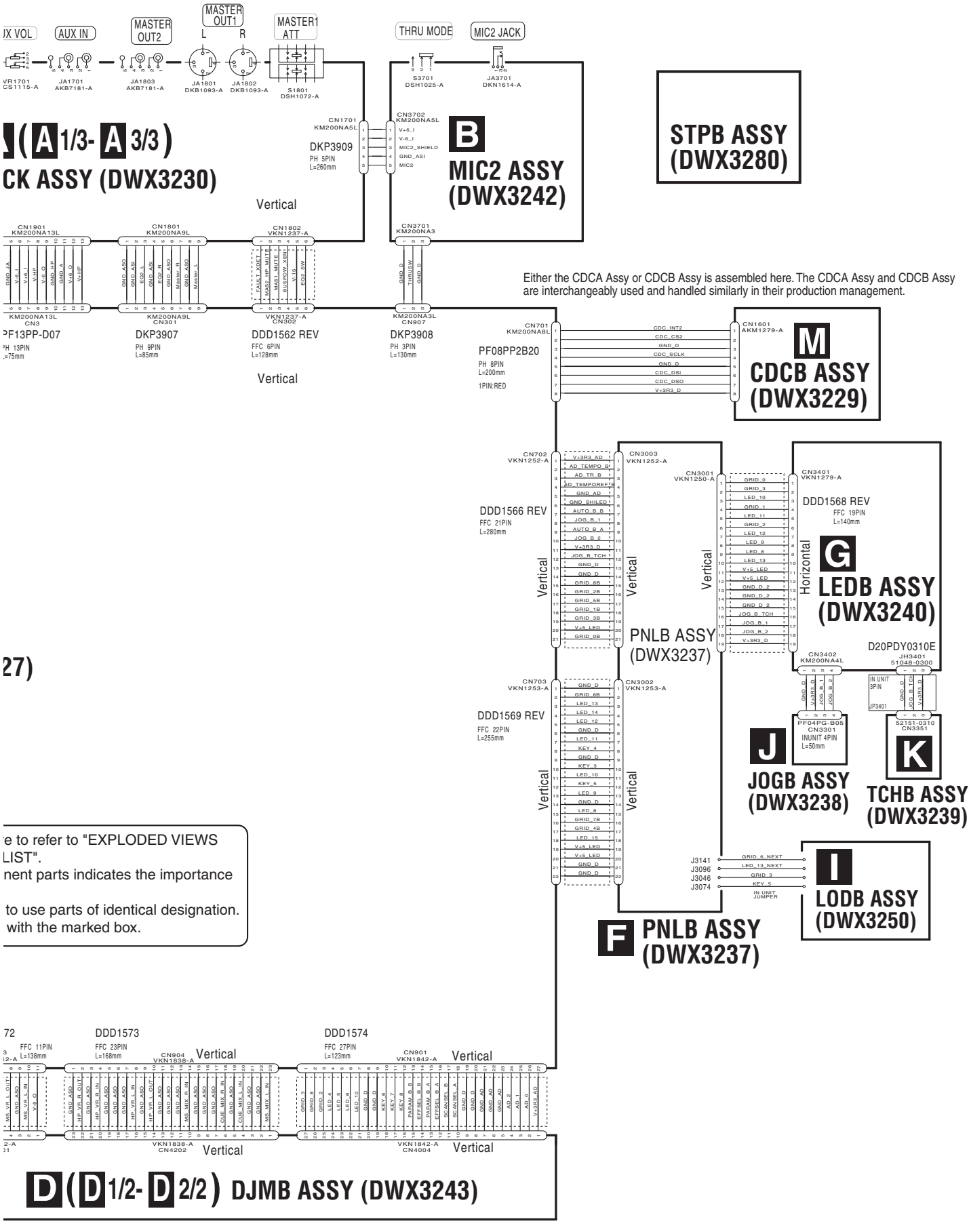
E

F

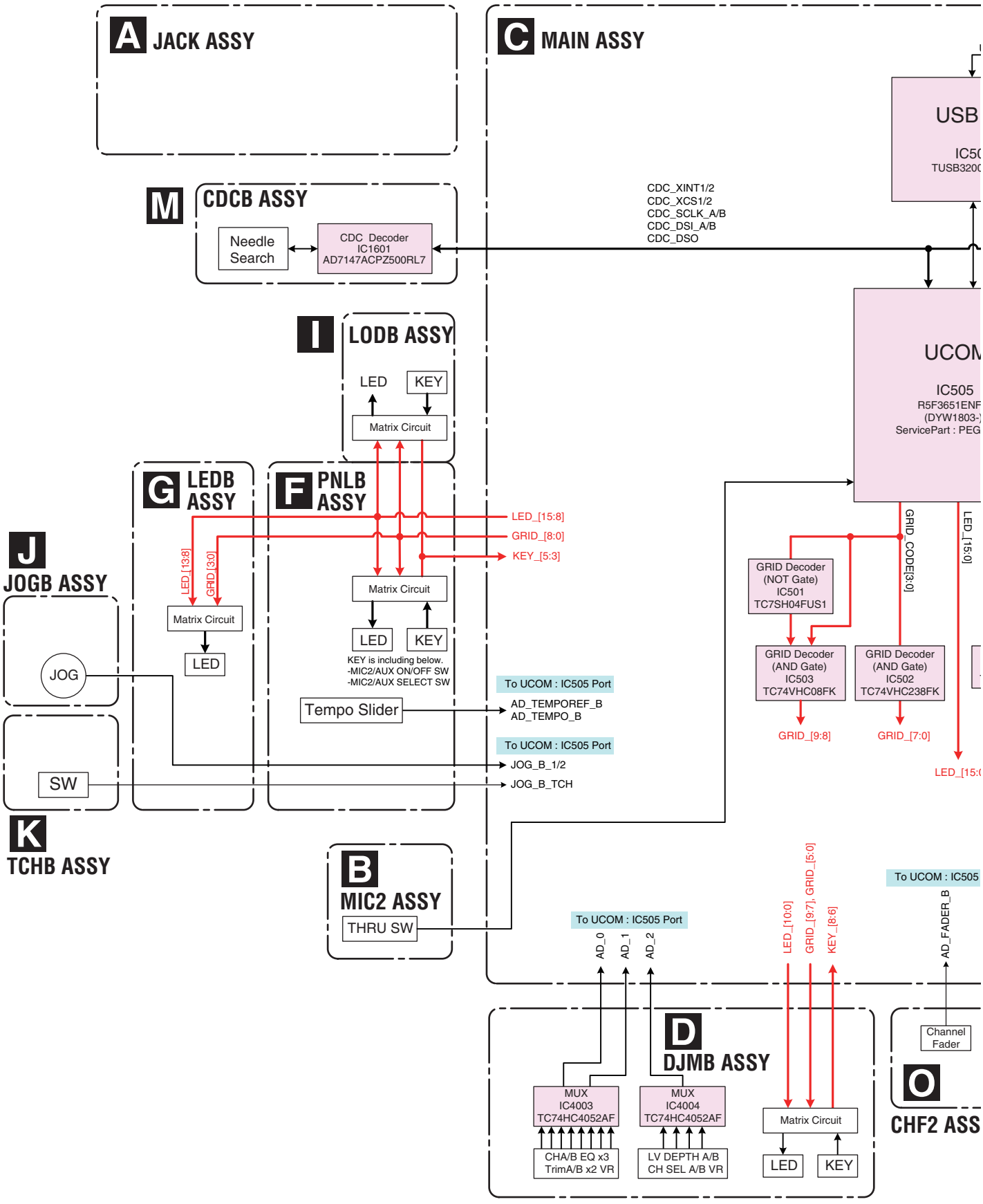
4. BLOCK DIAGRAM

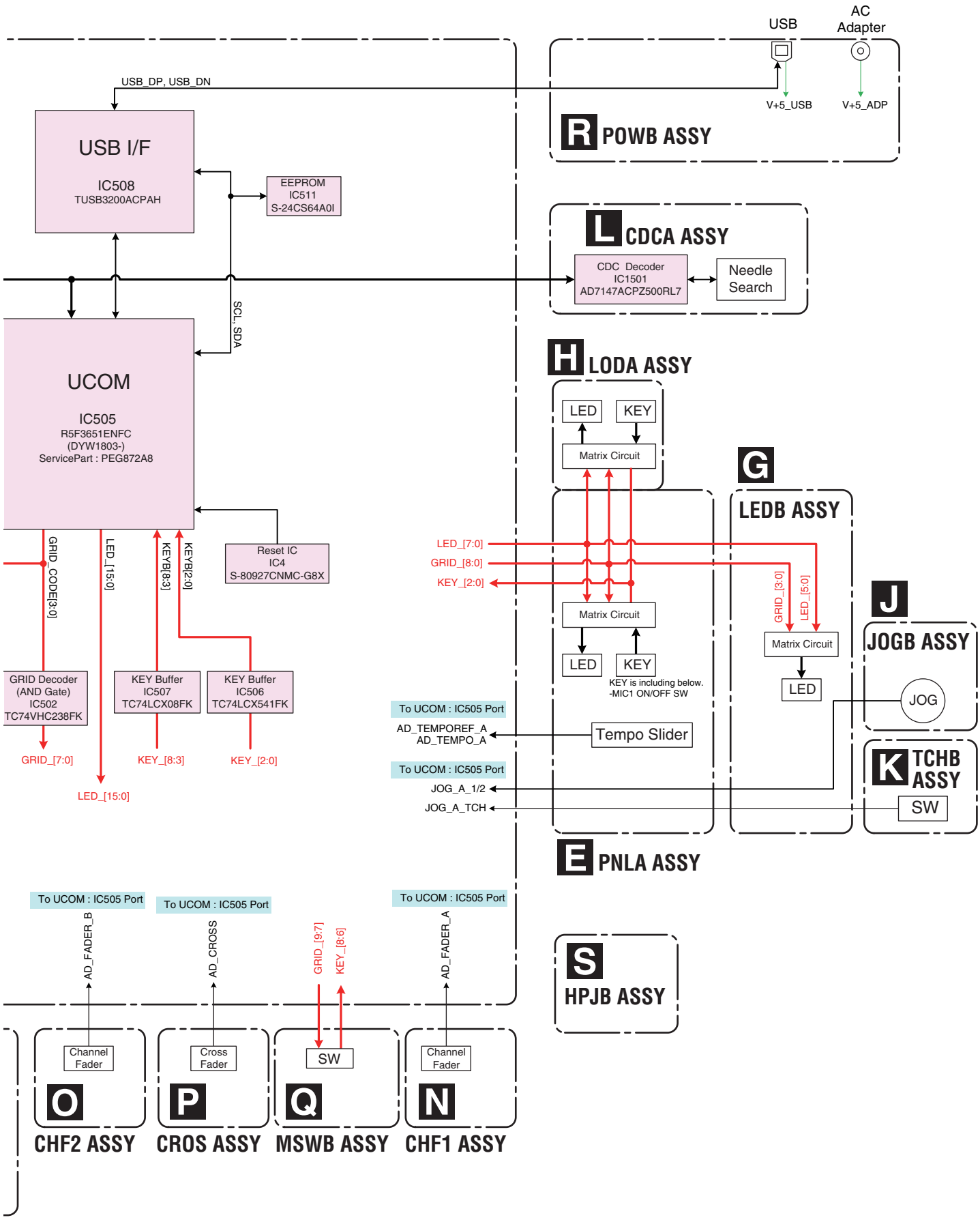
4.1 OVERALL WIRING DIAGRAM



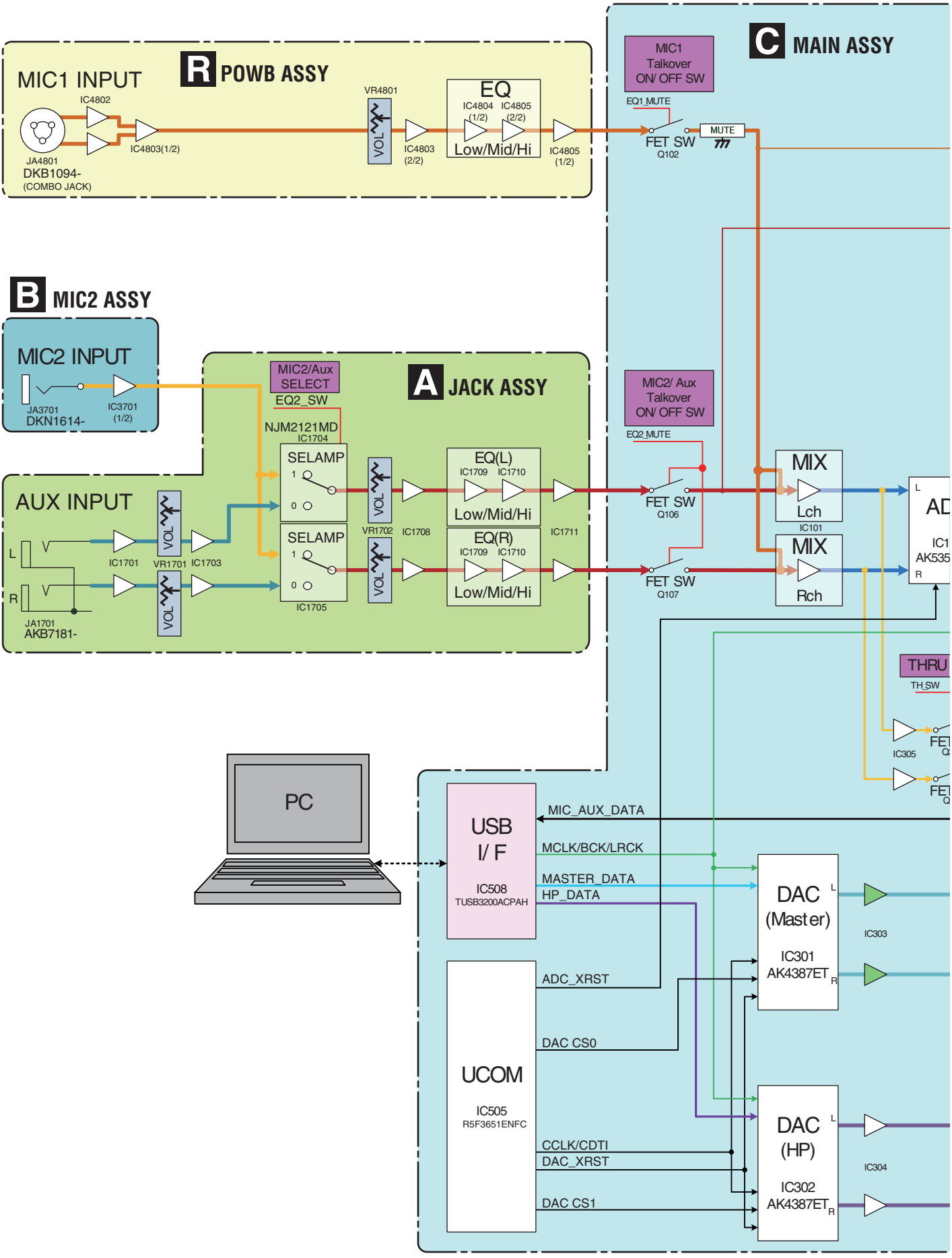

AUX IN
MASTER OUT2
MASTER OUT1
L
R
MASTER1 ATT
THRU MODE
MIC2 JACK
JA1701 AKB7181-A
JA1803 AKB7181-A
JA1801 DKB1093-A
JA1802 DKB1093-A
S1801 DSH1072-A
S3701 DSH1025-A
JA3701 DKN1614-A
CN1701 KM200NA5L
DKP3909
PH 5PIN
L=260mm
CN3702 KM200NA5L
V+6_I
V-6_I
MIC2_SHIELD
GND_ASI
MIC2
B
MIC2 ASSY (DWX3242)
STPB ASSY (DWX3280)
CK ASSY (DWX3230)
Vertical
CN1901 KM200NA13L
CN1801 KM200NA9L
CN1802 VKN1237-A
CN3701 KM200NA3
GND_A
V+6_I
V+6_I
V+HP
V+6_O
GND_HP
GND_A
V+6_O
V+HP
GND_ASO
GND_ASI
EQ2_L
GND_ASI
EQ2_R
MasterR
GND_ASO
MasterL
FAULT_XDET
MAS2_HP_MUTE
MAS1_MUTE
BUSSCVW_XRN
V+1B
EQ2_SW
GND_D
THRUSW
GND_D
KM200NA13L CN3
KM200NA9L CN301
VKN1237-A CN302
KM200NA3L CN907
F13PP-D07
PH 13PIN
=75mm
DKP3907
PH 9PIN
L=85mm
DDD1562 REV
FFC 6PIN
L=128mm
DKP3908
PH 3PIN
L=130mm
Vertical
Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.
CN701 KM200NA8L
CDC_INT2
CDC_CS2
GND_D
CDC_SCLK
GND_D
CDC_DSI
CDC_DSO
V+3R3_D
CN1601 AKM1279-A
PF08PP2B20
PH 8PIN
L=200mm
1PIN:RED
M
CDCB ASSY (DWX3229)
CN702 VKN1252-A
V+3R3_AD
AD_TEMPO_B
AD_TR_B
AD_TEMPOREF
GND_AD
GND_SHILED
AUTO_B_B
JOG_B_1
AUTO_B_A
JOG_B_2
V+3R3_D
JOG_B_TCH
GND_D
GND_D
GRID_8B
GRID_2B
GRID_5B
GRID_1B
GRID_3B
V+5_LED
GRID_0B
CN3003 VKN1252-A
CN3001 VKN1250-A
CN3401 VKN1279-A
DDD1566 REV
FFC 21PIN
L=280mm
DDD1568 REV
FFC 19PIN
L=140mm
Horizontal
G
LEDB ASSY (DWX3240)
PNLB ASSY (DWX3237)
GRID_0
GRID_3
LED_10
GRID_1
LED_11
GRID_2
LED_12
LED_9
LED_8
LED_13
V+5_LED
V+5_LED
GND_D_2
GND_D_2
GND_D_2
JOG_B_TCH
JOG_B_1
JOG_B_2
V+3R3_D
D20PDY0310E
CN3402 KM200NA4L
JH3401 51048-0300
GND_D
V+3R3_D
JOG_B_1
JOG_B_2
IN UNIT 3PIN
JP3401
GND_D
JOG_B_TCH
V+3R3_D
PF04PG-B05 CN3301
INUNIT 4PIN
L=50mm
52151-0310 CN3351
J
JOGB ASSY (DWX3238)
K
TCHB ASSY (DWX3239)
CN703 VKN1253-A
GND_D
GRID_6B
LED_13
LED_14
LED_12
GND_D
LED_11
KEY_4
GND_D
KEY_3
LED_10
KEY_5
LED_9
GND_D
LED_8
GRID_7B
GRID_4B
LED_15
V+5_LED
V+5_LED
GND_D
GND_D
CN3002 VKN1253-A
DDD1569 REV
FFC 22PIN
L=255mm
J3141
J3096
J3046
J3074
GRID_6_NEXT
LED_13_NEXT
GRID_3
KEY_5
IN UNIT JUMPER
I
LODB ASSY (DWX3250)
F
PNLB ASSY (DWX3237)
e to refer to "EXPLODED VIEWS
LIST".
nent parts indicates the importance
to use parts of identical designation.
with the marked box.
72
FFC 11PIN
L=138mm
DDD1573
FFC 23PIN
L=168mm
CN904 VKN1838-A
Vertical
DDD1574
FFC 27PIN
L=123mm
CN901 VKN1842-A
Vertical
MS_VR_L_OUT
MS_GND_ASO
MS_VR_L_IN
V+6_O
GND_ASO
HP_VR_R_OUT
GND_ASO
HP_VR_R_IN
GND_ASO
HP_VR_L_IN
GND_ASO
HP_VR_L_OUT
GND_ASO
MS_MIX_R_IN
GND_ASO
MS_MIX_R_IN
GND_ASO
CUE_MIX_R_IN
GND_ASO
CUE_MIX_L_IN
GND_ASO
MS_MIX_L_IN
GRID_3
GRID_8
GRID_2
LED_5
LED_6
LED_10
GND_D
GND_D
KEY_6
KEY_7
KEY_8
PARAM_B_B
EFFSEL_B_B
PARAM_B_A
EFFSEL_B_A
SCANSEL_B
SCANSEL_A
GND_D
GND_AD
GND_AD
GND_AD
AD_2
AD_1
AD_0
V+3R3_AD
VKN1838-A CN4202
VKN1842-A CN4004
Vertical
D
D(D1/2-D2/2) DJMB ASSY (DWX3243)

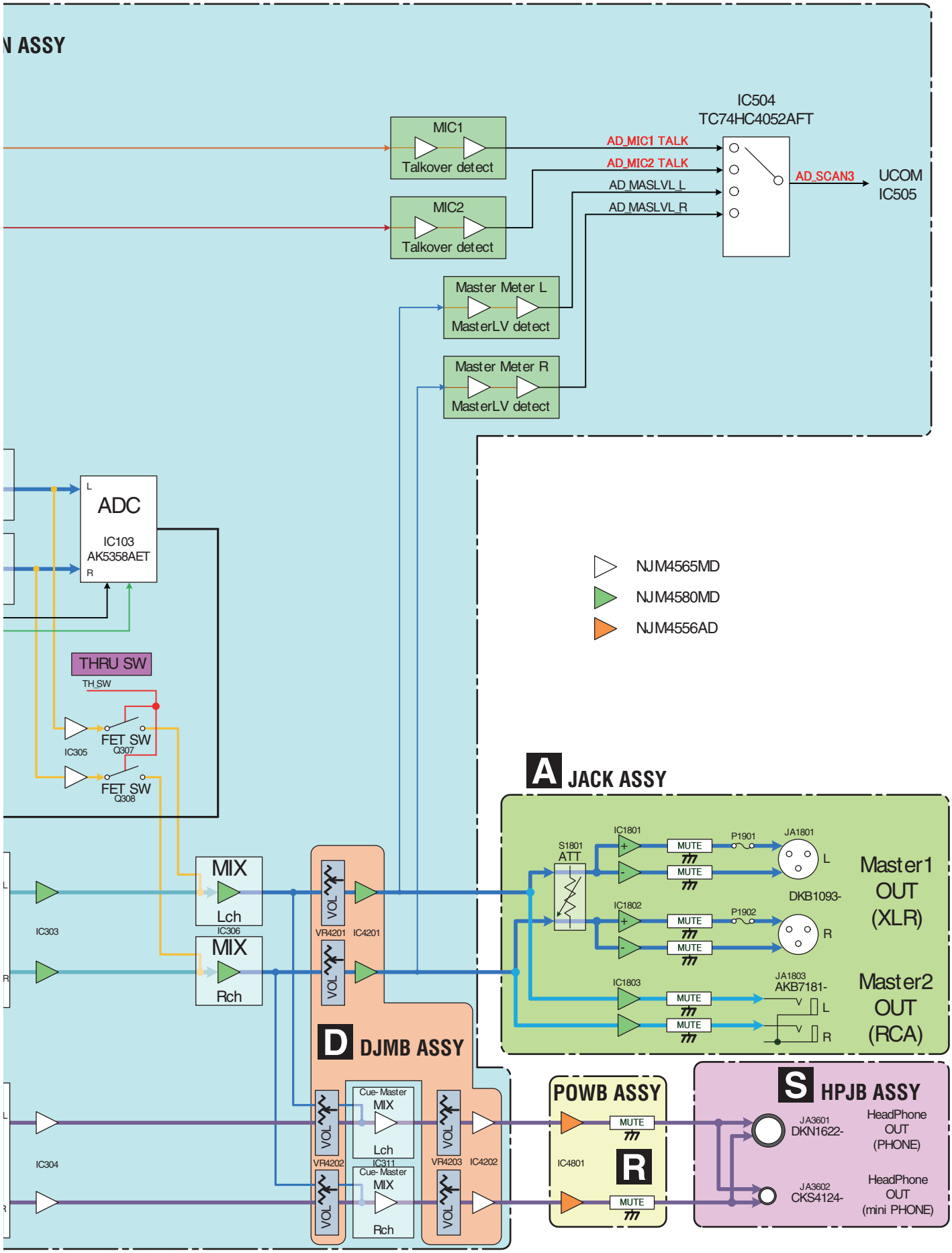
4.2 SYSTEM BLOCK DIAGRAM



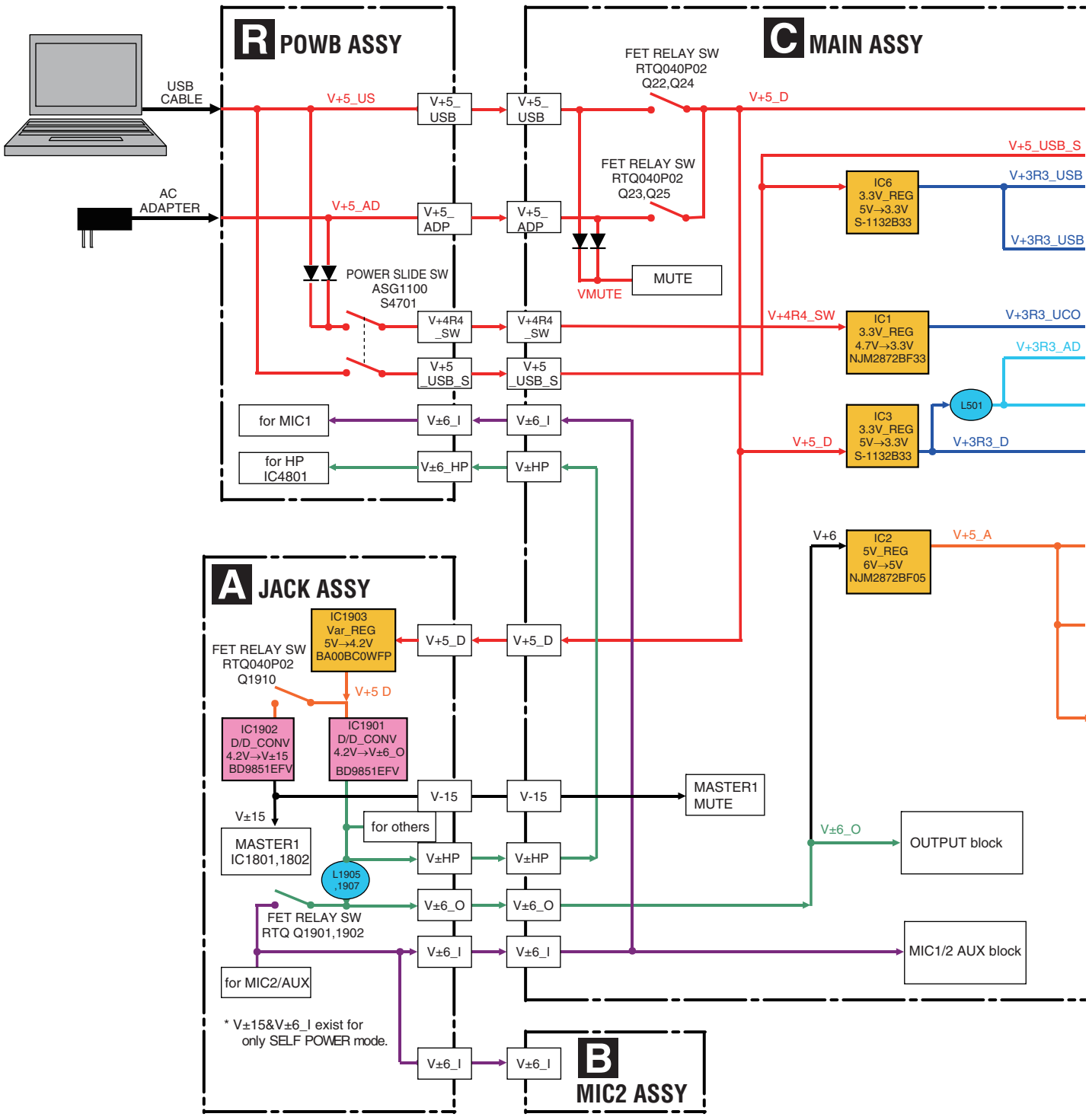

USB
AC Adapter
V+5_USB
V+5_ADP
R POWB ASSY
USB_DP, USB_DN
USB I/F
IC508
TUSB3200ACPAH
EEPROM
IC511
S-24CS64A0I
L CDCA ASSY
CDC Decoder
IC1501
AD7147ACPZ500RL7
Needle Search
SCL, SDA
UCOM
IC505
R5F3651ENFC
(DYW1803-)
ServicePart : PEG872A8
H LODA ASSY
LED
KEY
Matrix Circuit
G
LEDB ASSY
Reset IC
IC4
S-80927CNMC-G8X
LED_[7:0]
GRID_[8:0]
KEY_[2:0]
GRID_CODE[3:0]
LED_[15:0]
KEYB[8:3]
KEYB[2:0]
GRID_[3:0]
LED_[5:0]
J
JOGB ASSY
JOG
GRID Decoder
(AND Gate)
IC502
TC74VHC238FK
KEY Buffer
IC507
TC74LCX08FK
KEY Buffer
IC506
TC74LCX541FK
KEY is including below.
-MIC1 ON/OFF SW
To UCOM : IC505 Port
AD_TEMPOREF_A
AD_TEMPO_A
Tempo Slider
K TCHB ASSY
SW
GRID_[7:0]
KEY_[8:3]
KEY_[2:0]
LED_[15:0]
To UCOM : IC505 Port
JOG_A_1/2
JOG_A_TCH
E PNLA ASSY
To UCOM : IC505 Port
To UCOM : IC505 Port
To UCOM : IC505 Port
AD_FADER_B
AD_CROSS
GRID_[9:7]
KEY_[8:6]
AD_FADER_A
S
HPJB ASSY
Channel Fader
Cross Fader
SW
Channel Fader
O
P
Q
N
CHF2 ASSY
CROS ASSY
MSWB ASSY
CHF1 ASSY

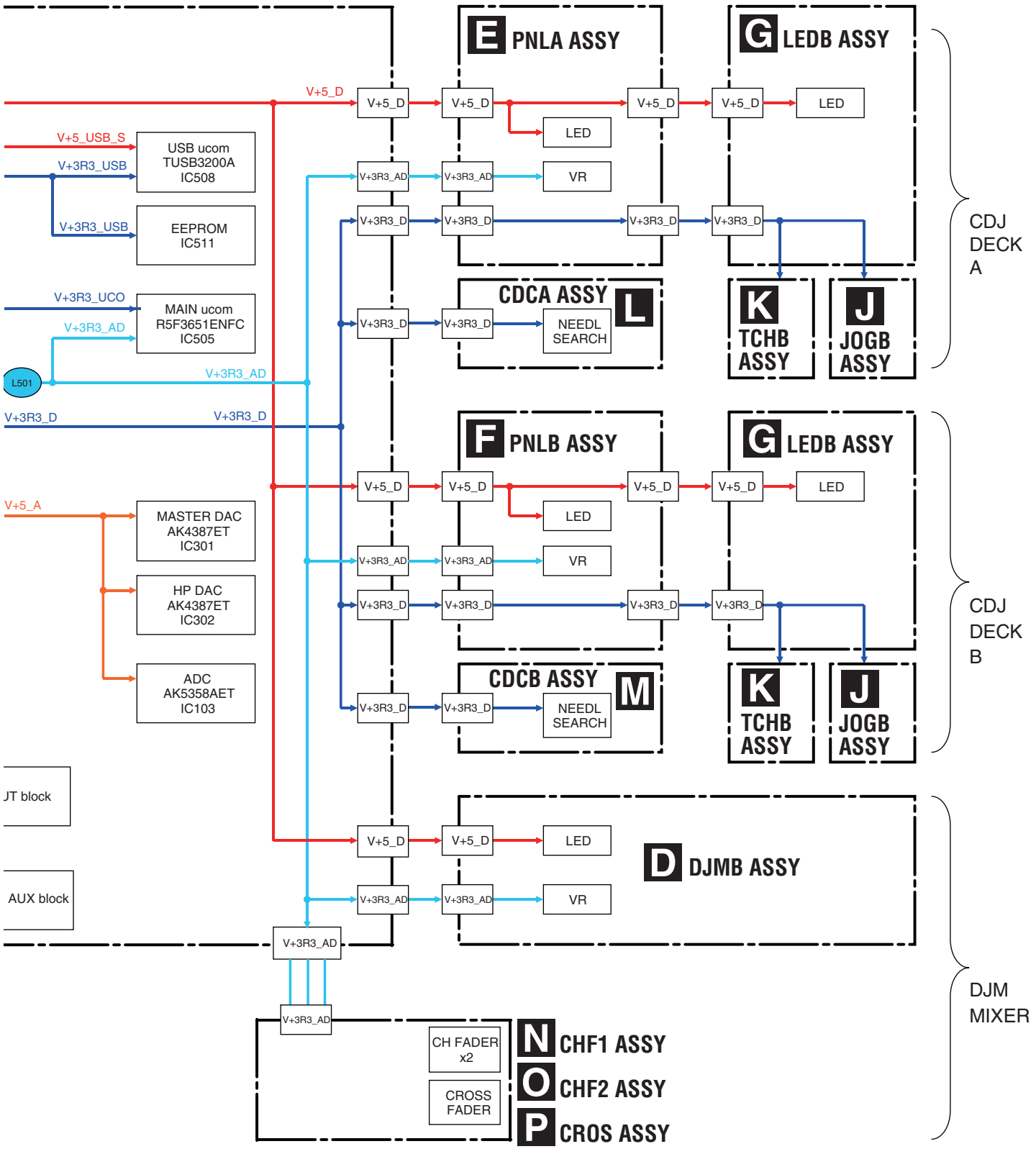
4.3 AUDIO BLOCK DIAGRAM



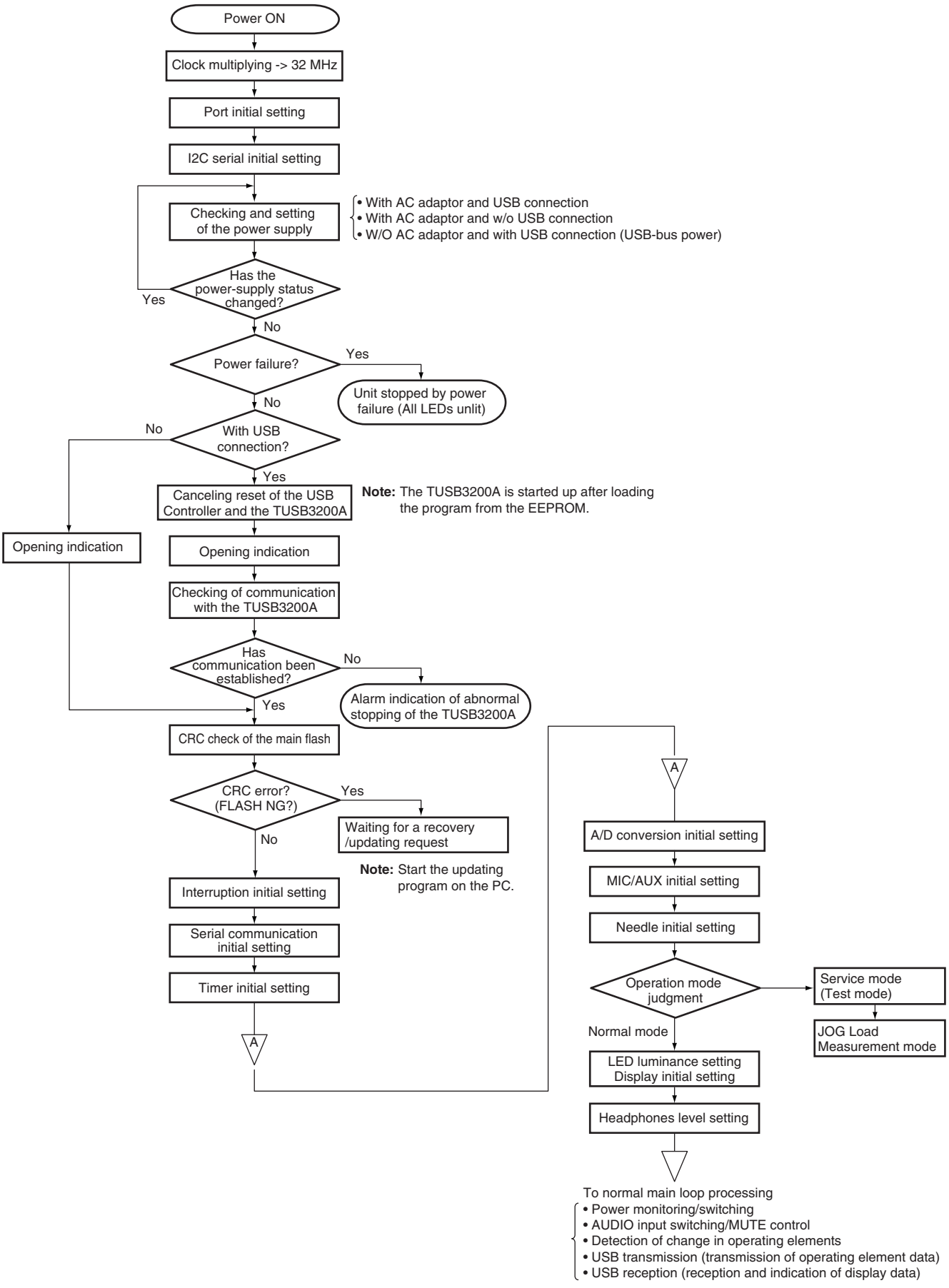

N ASSY
MIC1
Talkover detect
MIC2
Talkover detect
IC504
TC74HC4052AFT
AD_MIC1 TALK
AD_MIC2 TALK
AD_MASLVL_L
AD_MASLVL_R
AD_SCAN3
UCOM
IC505
Master Meter L
MasterLV detect
Master Meter R
MasterLV detect
ADC
IC103
AK5358AET
L
R
NJM4565MD
NJM4580MD
NJM4556AD
THRU SW
TH_SW
IC305
FET SW
Q307
FET SW
Q308
A JACK ASSY
S1801
ATT
IC1801
IC1802
IC1803
MUTE
P1901
P1902
JA1801
DKB1093-
JA1803
AKB7181-
Master1
OUT
(XLR)
Master2
OUT
(RCA)
IC303
MIX
Lch
IC306
MIX
Rch
VOL
VR4201
IC4201
D DJMB ASSY
Cue-Master
MIX
Lch
IC311
Cue-Master
MIX
Rch
VR4202
VR4203
IC4202
IC304
POWB ASSY
IC4801
R
S HPJB ASSY
JA3601
DKN1622-
HeadPhone
OUT
(PHONE)
JA3602
CKS4124-
HeadPhone
OUT
(mini PHONE)

4.4 POWER BLOCK DIAGRAM




E PNLA ASSY
G LEDB ASSY
V+5_D
V+5_D
V+5_D
V+5_D
V+5_D
LED
LED
V+5_USB_S
USB ucom
TUSB3200A
IC508
V+3R3_USB
V+3R3_AD
V+3R3_AD
V+3R3_AD
VR
V+3R3_USB
EEPROM
IC511
V+3R3_D
V+3R3_D
V+3R3_D
V+3R3_D
V+3R3_UCO
MAIN ucom
R5F3651ENFC
IC505
V+3R3_AD
CDCA ASSY
L
V+3R3_D
V+3R3_D
NEEDL
SEARCH
K
TCHB
ASSY
J
JOGB
ASSY
CDJ
DECK
A
L501
V+3R3_AD
V+3R3_D
V+3R3_D
F PNLB ASSY
G LEDB ASSY
V+5_A
V+5_D
V+5_D
V+5_D
V+5_D
LED
LED
MASTER DAC
AK4387ET
IC301
V+3R3_AD
V+3R3_AD
VR
HP DAC
AK4387ET
IC302
V+3R3_D
V+3R3_D
V+3R3_D
V+3R3_D
ADC
AK5358AET
IC103
CDCB ASSY
M
V+3R3_D
V+3R3_D
NEEDL
SEARCH
K
TCHB
ASSY
J
JOGB
ASSY
CDJ
DECK
B
JT block
V+5_D
V+5_D
LED
D DJMB ASSY
AUX block
V+3R3_AD
V+3R3_AD
VR
V+3R3_AD
V+3R3_AD
CH FADER
x2
CROSS
FADER
N CHF1 ASSY
O CHF2 ASSY
P CROS ASSY
DJM
MIXER

5. DIAGNOSIS
5.1 POWER ON SEQUENCE



5.2 TROUBLESHOOTING

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 or Service Mode.

For the relationship of each power-supply system, see “4.4 POWER 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 “8.3 UPDATING OF THE FIRMWARE.”

Contents

The waveform numbers and voltage confirmation-point numbers described in this section correspond to the numbers on the schematic diagrams and PCBs.
Be sure to check the failure points, as well as checking for failure in their peripheral circuits.

[0] Prior Confirmation

[0-1] Checking in Service Mode

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	–	Service Mode	Identify a failure point.	After a failure point is identified, see the section referenced in this manual.	6. SERVICE MODE

[0-2] Checking Internal Cables

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Disconnection, breakage, or loose connection of internal cables	Cables	Check that all the cables are securely connected. Check that there is no breakage in the cables.	Securely connect a cable if it is not connected. If a cable is broken, replace it. Note: If an FFC cable is disconnected, be careful of the orientation of the contacts when reconnecting it, referring to the printed guide on the board.	4.1 OVERALL CONNECTION DIAGRAM

[1] Failure in Startup (Failure in power-on, all LEDs unlit)

In a case where the unit does not start up, even after it is turned ON, when it is powered via the AC adapter or USB-bus power connection.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Failure in the AC adapter	POWB Assy V+5_ADP	Set the POWER switch to ON. Check that the voltage of the V+5_ADP power line is in the range of 4.75–5.25 V.	If the voltage is outside the range of 4.75–5.25 V, failure in the AC adapter and its periphery may be suspected. AC adapter (DWR1491), DC jack (JA4701), FETs (Q23, Q25).	4.4 POWER BLOCK DIAGRAM
2	Failure in USB-bus power	POWB Assy V+5_USB	Set the POWER switch to ON. Check that the voltage of the V+5_USB power line is in the range of 4.75–5.25 V.	If the voltage is outside the range of 4.75–5.25 V, failure in the USB-bus power and its periphery may be suspected. Check the USB cable and USB connector.	4.4 POWER BLOCK DIAGRAM
3	Power failure in the MAIN_UCOM on the MAIN Assy	MAIN Assy MAIN_UCOM	Set the POWER switch to ON. If V+3R3_UCOM is abnormal (2.7 V or less) and V+4R4_SW is normal (4.2–5.0 V)	The regulator (IC1), the MAIN_UCOM (IC505), or their peripheral circuits may be defective.	4.4 POWER BLOCK DIAGRAM
4	Power failure in the USB_UCOM on the MAIN Assy	MAIN Assy USB_UCOM	Set the POWER switch to ON. If V+3R3_USB is abnormal (2.7 V or less) and V+5_USB is normal (4.5–5.25 V)	The regulator (IC6), the USB_UCOM (IC508), or their peripheral circuits may be defective.	4.4 POWER BLOCK DIAGRAM
5	Power failure detected All LEDs go dark after the unit is turned on.	MAIN Assy JACK Assy	Check the voltage monitoring circuit (refer to 5.3 VOLTAGE MONITORING.)	Check the voltage monitoring circuit (refer to 5.3 VOLTAGE MONITORING.)	5.3 VOLTAGE MONITORING

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
6	MAIN_UCOM Reset circuit error	MAIN Assy	Check the Reset terminal (Pin 17) of the MAIN_UCOM (IC505). (High/Low) • MAIN_XRST	In normal operation, the voltage of the Reset terminal (Pin 17) is high. If the voltage of the Reset terminal is low, check the power line, resistors, capacitors, and the Reset IC (IC4). If the voltage level remains low after the Reset IC (IC4) is replaced, the MAIN_UCOM (IC505) may be defective.	10.25 WAVEFORMS MAIN UCOM start up
7	USB_UCOM Reset circuit error	MAIN Assy	Check the Reset terminal (Pin 10) of the USB_UCOM (IC508). (High/Low)	In normal operation, the voltage of the Reset terminal (Pin 10) is high. If the voltage of the Reset terminal is low, check the power line, resistors, capacitors. If the voltage level remains low, the USB_UCOM (IC508) or MAIN_UCOM (IC505) may be defective.	10.25 WAVEFORMS USB UCOM start up
8	MAIN Assy Defective MAIN_UCOM	MAIN Assy	Check the output waveforms of the GRID IC (IC505). • GRID CODE0 (81Pin)	If no waveform is output, the MAIN_UCOM(IC505) may be defective.	10.25 WAVEFORMS MAIN UCOM GRID
9	MAIN Assy Defective USB_UCOM	MAIN Assy	Check the MCLK (R626) of USB UCOM (IC508).	If no waveform is output, the USB_UCOM (IC508) may be defective.	10.25 WAVEFORMS MAIN UCOM MCLK

[2] Display (LED indicators)

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective LED	Relevant part	Check the connections.	If the connection is properly made, the LED may be defective. If improper connection is suspected, the lead for a resistor may be broken.	10.SCHEMATIC DIAGRAM
2	Defective transistors	Relevant part	Check the transistors.	The transistors may be defective.	10.SCHEMATIC DIAGRAM
3	Signal errors	Relevant part	Check for any loose connections between the MAIN_UCOM (IC505) and the LEDs. Check also that the control signal for the LEDs is output.	If the control signal is not output, check the mounting status of the MAIN_UCOM (IC505). If it is properly mounted, then the IC505 itself may be defective.	MAIN Assy (waveform of LED control signal)

[3] Operations (Buttons/VRs/Sliders/NeedleSearch/JOG)

Operation of all buttons, variable controls, and the JOG dial can be confirmed in Service mode.

[3-1] The push buttons are disabled.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective buttons	Relevant part	Check in Service mode.	The switch (part) may be defective.	6.1 SERVICE MODE

[3-2] Rotary selector/encoder not controllable

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective rotary selector /encoder	Relevant part	Check in Service mode.	The rotary selector/encoder (part) may be defective.	6.1 SERVICE MODE

[3-3] VRs or sliders not controllable

The variable controls on the PNLA and PNLB Assys or the sliders on the CHF1, CHF2 and CROS Assys are not controllable.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective VRs /sliders	Relevant part	Check in Service mode.	The volume/slider (part) may be defective.	6.1 SERVICE MODE

VRs on the DJMB Assy not controllable. (excepting HP MIX, Master VR and HP VR)

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
2	Defective VRs	Relevant part	Check in Service mode.	The volume (part) may be defective.	6.1 SERVICE MODE

VRs on the DJMB, POWB and JACK Assys not controllable.
HP VR, MASTER VR, HP_MIX VR, AUX INPUT VR,
MIC1 LV VR, MIC1 EQ LOW VR, MIC1 EQ MID VR, MIC1 EQ HIGH VR,
MIC2/AUX LV VR, MIC2/AUX EQ LOW VR, MIC2/AUX EQ MID VR, MIC2/AUX EQ HIGH VR
Above VR are analog VR.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
3	Noise is output during VR operation.	DJMB Assy POWB Assy JACKssy	Operate the VR and check the output.	If noise is output, the VR (part) may be defective.	—

The rotary SWs (S4015, S4018) on the DJMB Assy do not function.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
4	Defective rotary switch	Relevant part	Check in Service mode.	The rotary switch (part) may be defective.	6.1 SERVICE MODE

[3-4] NeedleSearch error

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective NeedleSearch (Error indications No. 4 and 5)	Relevant part	Check in Service mode.	The CDCA and/or CDCB Assy may be defective. If the symptom persists after replacement of these Assys, the MAIN_UCOM (IC505) may be defective.	6.1 SERVICE MODE

[3-5] 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 "8.5 JOG DIAL ROTATION LOAD ADJUSTMENT".)

Turning of the JOG dial is not detected.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Defective JOGB photo interrupter	MAIN Assy PNLA Assy /PNLB Assy LEDB Assy JOGB Assy	Check the waveforms on the JOGA_1, JOGA_2, JOGB_1, and JOGB_2 signal lines.	If any waveform cannot be recognized, connection of that signal line may be loose or the photo interrupter (PC3301) may be defective.	10.25 WAVEFORMS
2	Defective MAIN_UCOM (IC505)	MAIN Assy	If the symptom persists after the above corrections.	Check the mounting status of the MAIN_UCOM (IC505). If it is properly mounted, then the IC505 itself may be defective.	Basic Operation Check of the MAIN_UCOM

Pressing on the JOG dial cannot be detected.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
3	Defective TCHB photo interrupter	MAIN Assy PNLA Assy /PNLB Assy TCHB Assy LEDB Assy	Check the signal level of the JOG_A_TCH/B_TCH (Pins 46/47 of IC505) when the JOG dial is pressed.	If the signal level of the JOG_A_TCH/_B_TCH (Pins 46 /47 of IC505) does not become L when the dial is pressed and H when the dial is released (not pressed,) loose connection of the signal line or a defective photo interrupter (PC3351) may be suspected.	Each Signal Levels
4	Defective MAIN_UCOM (IC505)	MAIN Assy	If the symptom persists after the above corrections.	Check the mounting status of the MAIN_UCOM (IC505). If they are properly mounted, then the IC505 may be defective.	Basic Operation Check of the MAIN_UCOM

Noise is heard when the JOG dial is turned.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
5	Defective gear Defective JOG DIAL B	JOG Assy	There may be any scratches on the gear or some foreign matter between the gears.	If there are any scratches, replace the scratched gear with a new one. If there is any foreign matter, remove it then replace the gears with new ones. Gears to be replaced: Load gear, Encoder gear, JOG shaft	—
			There may be any scratches or some foreign matter on the JOG DIAL B or the Roller B Assy.	If there are any scratches, replace the scratched gear 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/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
6	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 "8.5 JOG Dial Rotation Load Adjustment."	If it is outside the specified range, adjust the position of the Adjust Plate to change the load value for the JOG dial, referring to "Load adjustment method" in "8.5 JOG Dial Rotation Load Adjustment."	8.5 JOG Dial Rotation Load Adjustment.
				During the above adjustment, if the upper-limit adjustment position of the Adjust Plate is reached, oil may have been spattered on the Adjust Plate. Replace the washer, load gear, and smoother with new ones, then reassemble.	8.5 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/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
7	Improper adjustment of the JOG dial or defective washer, gear, or smoother	JOG Assy	Check that the load value for the JOG dial is within the specified range, referring to "Measuring method" in "8.5 JOG Dial Rotation Load Adjustment."	If it is outside the specified range, adjust the position of the Adjust Plate to change the load value for the JOG dial, referring to "Load adjustment method" in "8.5 JOG Dial Rotation Load Adjustment."	8.5 JOG Dial Rotation Load Adjustment.
				During the above adjustment, if the lower-limit adjustment position of the Adjust Plate is reached, shavings from the worn-out washer may have increased the friction. Replace the washer, load gear, and smoother with new ones, then reassemble.	8.5 JOG Dial Rotation Load Adjustment.

[4] USB connection

[4-1] The unit cannot be recognized by the PC when connected to the PC via USB connection.

Check the following, with a Windows/MAC PC connected via the USB port of the unit, using the supplied USB cable:

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	Failure in startup	MAIN Assy	Check the lighting statuses of the LEDs during startup.	If no LED lights, see [1] Failure in Startup.	[1] Failure in Startup
2	Defective USB_UCOM	MAIN Assy	Check in Service mode.	If Error indication No. 3 is displayed, perform software update. If Error indication No. 3 is still displayed after updating, the USB_UCOM (IC508) may be defective.	6.1 SERVICE MODE

[5] AUDIO IN/OUT

Input signal: 1 kHz, 0 dB, etc.

No.	Cause/Symptom	Point to be checked	Item to be checked	How to distinguish a defective point and/or corrective action	Reference
1	No sound MASTER1	AUDIO blocks	Check the waveform of each block by referring to the AUDIO BLOCK DIAGRAM, along the audio signal paths (in ascending numerical order) indicated in the matrix table shown in the next column. In the table, MIC1 ON/OFF/Talkover SW: ① MIC2/AUX ON/OFF/Talkover SW: ② MIC2/AUX SELECT SW: ③ MIC/AUX THRU SW: ④	<table><tr><th>SW</th><th>Pattern 1</th><th>Pattern 2</th><th>Pattern 3</th><th>Pattern 4</th></tr><tr><td>①</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr><tr><td>②</td><td>ON</td><td>ON</td><td>ON</td><td>OFF</td></tr><tr><td>③</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>AUX</td></tr><tr><td>④</td><td>ON</td><td>OFF</td><td>ON</td><td>ON</td></tr><tr><td>Signal input pin</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>MIC1</td></tr></table> • Check Patterns 1 and 2. If both Patterns 1 and 2 are OK, normality of the circuit blocks after the ADC is secured. -> Check Patterns 3 and 4 (to check the circuit blocks before the ADC). If no audio signal is output from MIC 1 and MIC 2, the above-mentioned circuit blocks may be defective. If Pattern 1 is OK but Pattern 2 is NG, the circuit blocks between the ADC and the MASTER DAC may be defective. If Pattern 1 is NG but Pattern 2 is OK, the THRU switch or its peripheral circuits may be defective. If both Patterns 1 and 2 are NG: -> Check Pattern 3. If Pattern 3 is OK: The AUX connector or its peripheral circuits may be defective. If Pattern 3 is NG: Check Pattern 4. -> If Pattern 4 is OK: The circuit blocks between the AUX/MIC 2 connector and the ADC may be defective. -> If Pattern 4 is NG: The circuit blocks between the ADC and the MASTER 1 connector may be defective.	10.25 WAVEFORMS AUDIO block

Input signal: 1 kHz, 0 dB, etc.

<table>
<tr><th>No.</th><th>Cause/Symptom</th><th>Point to be checked</th><th>Item to be checked</th><th>How to distinguish a defective point and/or corrective action</th><th>Reference</th></tr>
<tr><td>2</td><td>No sound
MASTER2</td><td>AUDIO blocks</td><td>Check the waveform of each block by referring to the AUDIO BLOCK DIAGRAM, along the audio signal paths (in ascending numerical order) indicated in the matrix table shown in the next column.
In the table,
MIC1 ON/OFF/Talkover SW: ①
MIC2/AUX ON/OFF/Talkover SW: ②
MIC2/AUX SELECT SW: ③
MIC/AUX THRU SW: ④</td><td>
<table>
<tr><th>SW</th><th>Pattern 1</th><th>Pattern 2</th><th>Pattern 3</th><th>Pattern 4</th></tr>
<tr><td>①</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr>
<tr><td>②</td><td>ON</td><td>ON</td><td>ON</td><td>OFF</td></tr>
<tr><td>③</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>AUX</td></tr>
<tr><td>④</td><td>ON</td><td>OFF</td><td>ON</td><td>ON</td></tr>
<tr><td>Signal input pin</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>MIC1</td></tr>
</table>
• Check Patterns 1 and 2.
If both Patterns 1 and 2 are OK, normality of the circuit blocks after the ADC is secured.
-> Check Patterns 3 and 4 (to check the circuit blocks before the ADC).
If no audio signal is output from MIC 1 and MIC 2, the above-mentioned circuit blocks may be defective.

If Pattern 1 is OK but Pattern 2 is NG, the circuit blocks between the ADC and the MASTER DAC may be defective.

If Pattern 1 is NG but Pattern 2 is OK, the THRU switch or its peripheral circuits may be defective.

If both Patterns 1 and 2 are NG:
-> Check Pattern 3.
If Pattern 3 is OK: The AUX connector or its peripheral circuits may be defective.
If Pattern 3 is NG: Check Pattern 3.

-> If Pattern 3 is OK: The circuit blocks between the AUX/MIC 2 connector and the ADC may be defective.
-> If Pattern 3 is NG: The circuit blocks between the ADC and the MASTER 2 connector may be defective.</td><td>10.25 WAVEFORMS
AUDIO block</td></tr>
<tr><td>3</td><td>No sound
HEADPHONE</td><td>AUDIO blocks</td><td>Check the waveform of each block by referring to the AUDIO BLOCK DIAGRAM, along the audio signal paths (in ascending numerical order) indicated in the matrix table shown in the next column.
In the table,
MIC1 ON/OFF/Talkover SW: ①
MIC2/AUX ON/OFF/Talkover SW: ②
MIC2/AUX SELECT SW: ③
MIC/AUX THRU SW: ④</td><td>
<table>
<tr><th>SW</th><th>Pattern 1</th><th>Pattern 2</th><th>Pattern 3</th><th>Pattern 4</th></tr>
<tr><td>①</td><td>OFF</td><td>OFF</td><td>OFF</td><td>ON</td></tr>
<tr><td>②</td><td>ON</td><td>ON</td><td>ON</td><td>OFF</td></tr>
<tr><td>③</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>AUX</td></tr>
<tr><td>④</td><td>ON</td><td>OFF</td><td>ON</td><td>ON</td></tr>
<tr><td>Signal input pin</td><td>AUX</td><td>AUX</td><td>MIC2</td><td>MIC1</td></tr>
</table>
• Check Patterns 1 and 2.
If both Patterns 1 and 2 are OK, normality of the circuit blocks after the ADC is secured.
-> Check Patterns 3 and 4 (to check the circuit blocks before the ADC).
If no audio signal is output from MIC 1 and MIC 2, the above-mentioned circuit blocks may be defective.

If Pattern 1 is OK but Pattern 2 is NG, the circuit blocks between the ADC and the HP DAC may be defective.

If Pattern 1 is NG but Pattern 2 is OK, the THRU switch or its peripheral circuits may be defective.

If both Patterns 1 and 2 are NG:
-> Check Pattern 3.
If Pattern 3 is OK: The AUX connector or its peripheral circuits may be defective.
If Pattern 3 is NG: Check Pattern 3.

-> If Pattern 3 is OK: The circuit blocks between the AUX/MIC 2 connector and the ADC may be defective.
-> If Pattern 3 is NG: The circuit blocks between the ADC and the HP connector may be defective.</td><td>10.25 WAVEFORMS
AUDIO block</td></tr>
</table>

5.3 VOLTAGE MONITORING

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

● **Content to be monitored**
Any power failure generated inside the Power block on the MAIN Assy, such as voltage drop and voltage rise.
Power to be monitored: V+5_A, V+6_O, V-6_O, V+15, V-15, V+3R3D

● **Microcomputer Detection terminal and its terminal voltage**
IC505(MAIN_UCOM) 54-pin [V_XERR_INT] terminal
Normal: 3.3 V
Abnormal: 0 V

● **Timing of monitoring start**
2 sec after the unit is turned ON

● **Timing upon judgment as a failure**
400 msec after an error is detected

● **LED indication when an error is generated**
All LEDs are unlit after an error is generated.
With other models, the Standby LED flashes to notify of a power failure. However, this does not apply to this model, because a Standby LED is not provided with it.

● **Restoration method**
After the unit shuts itself off because of an error, after completing diagnosis, disconnect the AC adapter and USB cable and wait at least 1 minute before turning the unit back on.

● **Diagnostic procedure**
① Turn the power switch off.

② Disconnect the AC adapter and USB cable.

③ Reconnect the AC adapter and USB cable and turn the power switch on.

④ As the unit is turned on and remains on for about 2 seconds, check each voltage in this state.
As the unit shuts itself off in about 2 seconds, set the POWER switch to ON again for measurement of each voltage.
Note: Because power will be forcibly supplied even if any voltage is abnormal, the defective point may produce heat, which may be dangerous. So you must be careful during diagnosis.

⑤ If the voltage of any power IC is abnormal, the circuit that uses that power or the power IC itself may be defective.

⑥ Repair the defective part then check that the voltage of the repaired part becomes normal.

5.4 HOW TO CHECK OPERATIONS USING THE ITCH SOFTWARE

● Preparations

Install ITCH PIONEER DDJ-S1 EDITION. (Installation of the driver software is subsequently required for a PC with Windows installed.)

- No initial settings are required for the ITCH software.
- A PC and the peripheral devices with the following specifications are required for operation of ITCH:

[Minimum operating envlonment]

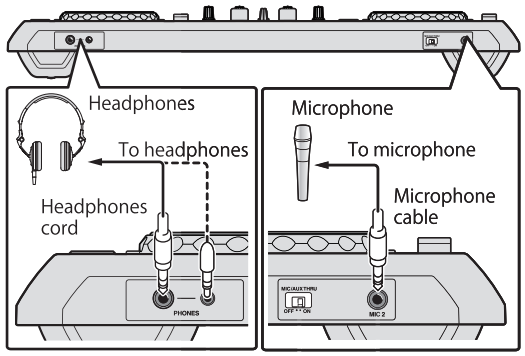
Supported operating systems		CPU and required memory
Mac OS X 10.4.11		Intel® processor, Core™ Duo 1.8 GHz or better
		1 GB or more of RAM
Mac OS X 10.5.8		Intel® processor, Core™ Duo 1.8 GHz or better
		1 GB or more of RAM
Mac OS X 10.6	32-bit version	Intel® processor, Core™ Duo 1.8 GHz or better
		1 GB or more of RAM
	64-bit version	Intel® processor, Core™ Duo 2.4 GHz or better
		4 GB or more of RAM
Windows® 7 Home Premium/ Professional/ Ultimate	32-bit version	Intel® processor, Core™ 2 Duo 1.8 GHz or better
		2 GB or more of RAM
	64-bit version	Intel® processor, Core™ 2 Duo 2.4 GHz or better
		4 GB or more of RAM
Windows Vista® Home Basic/ Home Premium/ Business/Ultimate	32-bit version	Intel® processor, Core™ 2 Duo 1.8 GHz or better
		2 GB or more of RAM
	64-bit version	Intel® processor, Core™ 2 Duo 2.2 GHz or better
		4 GB or more of RAM
Windows® XP Home Edition/ Professional (SP2 or later)	32-bit version	Intel® processor, Core™ 2 Duo 1.8 GHz or better
		1 GB or more of RAM

For the latest information on the operating environment and compatibility, and to acquire the latest operating system, please visit the following Serato Audio Research website:
http://serato.com

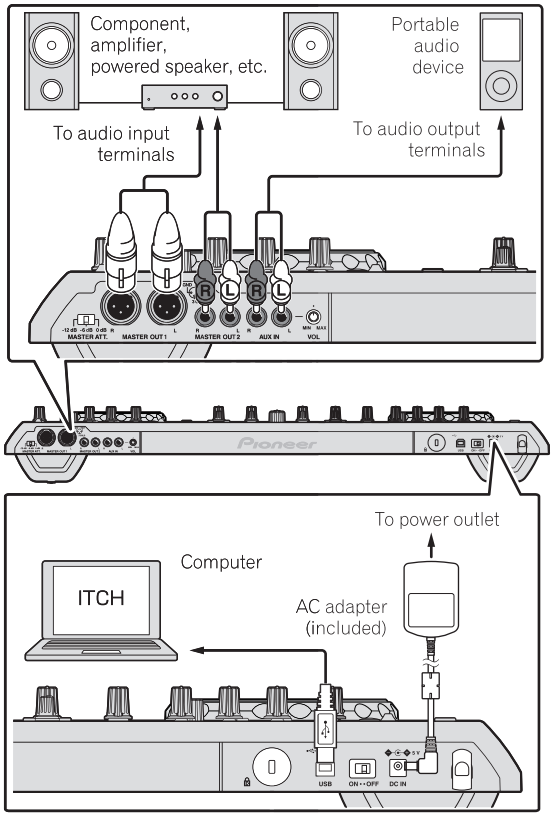
Others	
Hard disk	Sufficient free hard disk space for music data
CD drive	Optical disc drive on which the CD-ROM can be read
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1 024 x 768 or greater

[Connection Example]

Front panel



Rear panel

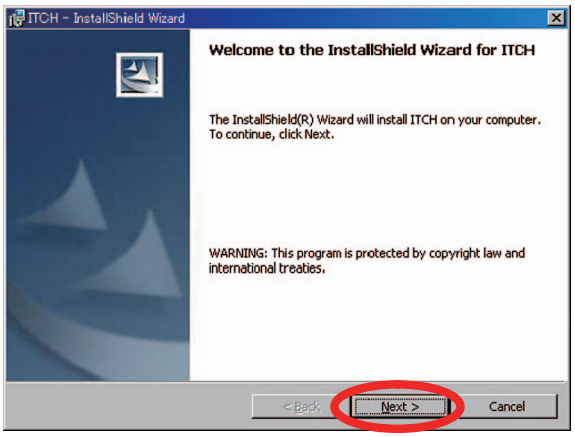


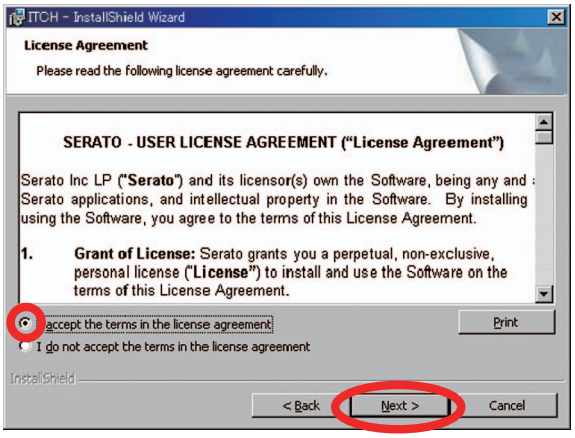
● Installation of ITCH PIONEER DDJ-S1 Edition (Bundled Software)

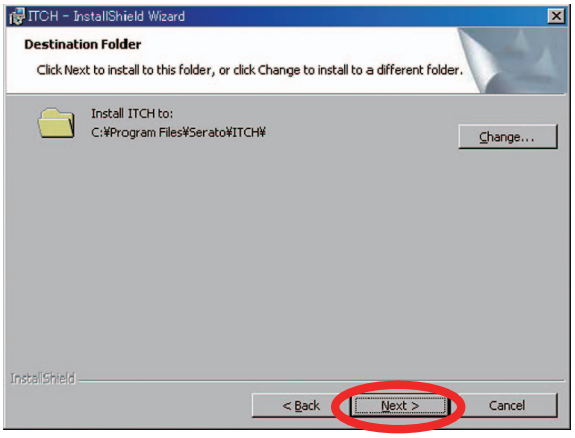
Windows : Start up the "ITCH_installer.exe" program on the CD-ROM.

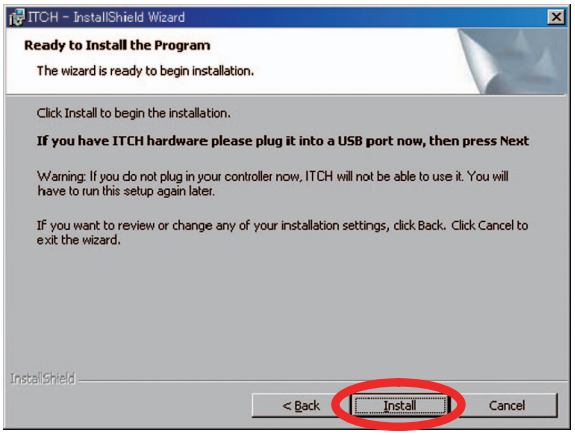
Macintosh: Start up the "ITCH_installer.mpkg" program on the CD-ROM.

<Example for Windows>

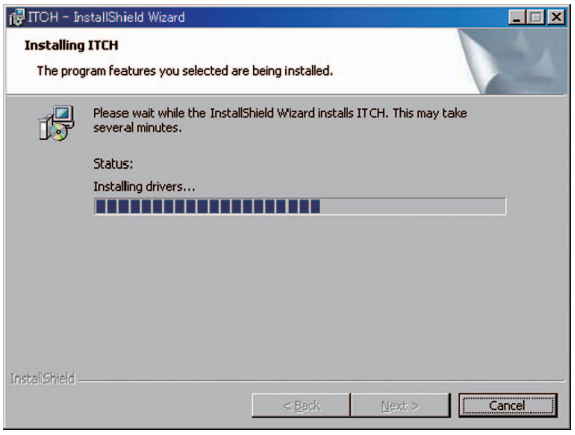


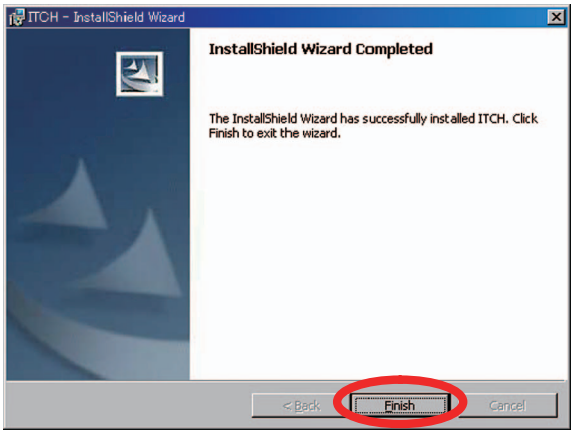






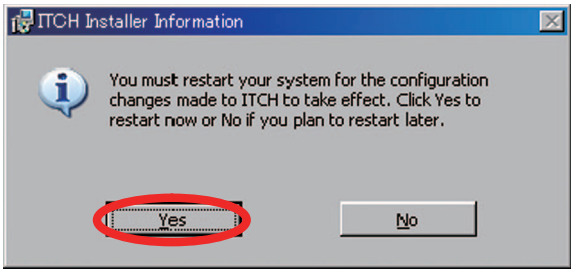
Connect the DDJ-S1 unit to the PC at this stage.
If it is not connected, installation of the driver cannot be performed after installation of ITCH. (Be careful when you install both ITCH and the driver for the first time.)





After installation of the ITCH software is completed, installation of the driver software will start. (Details on the procedures for driver installation omitted)

After installation of the driver is completed, a dialog prompting PC restart is displayed.



Note:
You can download ITCH freely from the Website of Serato Audio Research, and no further procedure such as license registration is required. However, ITCH cannot be properly used without the hardware specified by Serato Audio Research, such as the DDJ-S1.

With the DDJ-S1 connected to the PC, ITCH can be used without making any initial settings.

For protection of the software, license registration is used for TRAKTOR, but for ITCH a combination with the specified hardware is required for its proper operation, although the software itself is delivered freely.

● How to Check Operations

[Startup of the System]
1. Turn on the connected microphone(s) and external equipment.
2. Connect the unit and a PC, with the USB cable.
3. Start the PC.
4. Slide the ON/OFF switch to ON.
5. After the indicators of this unit light, start up ITCH.

After the PC and this unit are linked properly, two virtual deck panels will be displayed on the ITCH software screen.

[Operations of the Library]
• Adding music files to the library
1. Press the FILES button to display content on the PC and the devices connected to the PC on the FILES panel.
2. With the mouse of the PC, click on a folder in which the track you wish to add to the library on the panel is included.
3. Drag and drop the selected folder onto the “crate” list panel. You can “crate” the folder with the track included. The track is added to the library.

[Loading and Playing of a Track]
1. Move the cursor on the track you wish to load, by turning the rotary selector of this unit.
2. Press the LOAD (INST. DOUBLES) button of the deck into which you wish to load the selected track, to load it.
3. Press the PLAY/PAUSE button to check that the selected track is played properly.

[Checking Audio Output]
• MASTER Output
1. Adjust the audio input level, by turning the TRIM control of corresponding deck.
2. Adjust the audio output level, using the channel fader of the corresponding deck.
3. Using the Cross Fader, switch the speaker audio output to that from the corresponding deck.
4. Check that sound is output properly via the connected MASTER connector. The audio output level can be adjusted with the MASTER LEVEL control.

• Monitoring with the Headphones
1. Connect the headphones to the PHONES connector.
2. Check that the headphones CUE button for a channel to be monitored lights when pressed and that sound of the selected channel is properly output through the headphones.
   For monitoring the audio signal from the microphone or external equipment, click on the corresponding CUE button on the ITCH software screen. The CUE button will be highlighted and sound will be output through the headphones.
   To adjust the monitoring volume balance between the CUE and MASTER channels, turn the HEADPHONES MIXING control.
   To adjust the volume of the headphones, turn the HEADPHONES LEVEL control.

[Checking Audio Input]
• Microphone Input
1. Plug a microphone into the MIC connector.
   When using the MIC 2 connector, set the MIC 2/AUX selector to MIC 2.
2. Set the microphone OFF/ON/TALKOVER selector to ON or TALKOVER.
   When the selector is set to TALKOVER, the audio level of the track being played will be automatically decreased if sound is input to the microphone.
3. Check that sound input to the microphone is properly output.
   The audio output level can be adjusted with the MIC LEVEL control.

• Input signal from external equipment
1. Set the MIC 2/AUX selector to AUX.
2. Check that sound being played by the external equipment is properly output.
   The audio output level can be adjusted with the MIC/AUX LEVEL control.

[Direct Output of MIC/AUX Audio Signal]
When the MIC/AUX THRU selector is set to ON, the audio signal from the connected external equipment and microphone can be directly output, without going through the PC. You cannot apply effects to such audio signals.
1. Set the MIC/AUX THRU selector to ON.
2. Check that the audio signal that is input to the microphone or played by the external equipment is properly output.

6. SERVICE MODE
6.1 OUTLINE OF SERVICE MODE

The following test modes are prepared for this machine.

① Check of operator input and a display function
It is the mode which checks each input and display function of buttons, JOG dials, slide switches, rotary switch, volumes, encoders, and needle-pads.
This mode is divided into the following sub modes.
① -1) Version display
① -2) Check of input and display of button and needle-pad
① -3) Check of slide-swich (2/3 posi) input and a display
① -4) Check of input and display of JOG dial, volume, encoder, and rotary switch

② Quality judging of JOG dial load
It is the mode which judges the quality of the load when rotating JOG dial.

③ Error display
Error detection and its display method of a device are shown.

④ Firmware update
Explanation of the method of firmware update.
Refer to the "8.3 UPDATING OF THE FIRMWARE."

⑤ Writing of EEPROM for USB controllers
It is explanation of the method of writing a program in EEPROM for USB controllers only by DDJ-S1.
Refer to the "8.4 COPYING THE PROGRAM OF THE EEPROM FOR THE USB CONTROLLER."

6.2 DETAILS OF SERVICE MODE

[1]Check of operator input and a display function

When it spends a power supply while pushing a HOT CUE[1] button and a LOOP-IN button of left deck simultaneously, enters into this mode. (Please continue pushing until an opening display is completed.)

In this mode, the input of each buttons, JOG dials, slide switches, rotary switch, volumes, encoders, and needle-pads are correct, and it can check that a display can also be performed correctly.

If HOT CUE[1]-[4] button of left deck is pushed, it will branch in the following sub modes.

Sub Mode

(1) Version display
It will become this mode if HOT CUE [1] button is pushed.
Three numbers are continued and displayed on the display part of level meter.
Example) Ver1.05: "1" ⇒ "0" ⇒ "5" ⇒ "1" ⇒ "0" ⇒ "5" . . .

(2) Check of input and display of button and needle-pad
It will become this mode if HOT CUE [2] button is pushed.
Only while pushing, related LED lights up, if each button is pushed.
And if a needle pad is touched, playing address LED corresponding to the place which is touching will light up.

(3) Check of slide-swich(2/3 posi) input and a display.
It will become this mode if HOT CUE [3] button is pushed.
The state of a slide switch is displayed on a level meter display part.

(4) Check of input and display of JOG dial, volume, encoder, and rotary switch.
It will become this mode if HOT CUE [4] button is pushed.
The state of a slide switch is displayed on a level meter display part.
The state of JOG dial or an encoder is displayed on JOG illuminations.
And the state of a rotary switch is displayed on a playing address display part.

PART	OPERATOR	DEVICE	LED DISPLAY	SUB-MODE
DECK	HOT CUE 1 (*1)	BUTTON	HOT CUE 1	2
	HOT CUE 2 (*1)	BUTTON	HOT CUE 2	2
	HOT CUE 3 (*1)	BUTTON	HOT CUE 3	2
	HOT CUE 4 (*1)	BUTTON	HOT CUE 4	2
	HOT CUE 5	BUTTON	HOT CUE 5	2
	REC MODE	BUTTON	REC MODE	2
	LOOP IN	BUTTON	LOOP IN	2
	LOOP OUT	BUTTON	LOOP OUT	2
	RELOOP/EXIT	BUTTON	RELOOP/EXIT	2
	SELECT	BUTTON	LOOP IN	2
	AUTO LOOP	ENCODER	JOG LED ROTATION	4
	AUTO LOOP PUSH	ENCODER	LOOP OUT	2
	NEEDLE SEARCH	PAD	PLAYNG ADDRESS	2
	VINYL SPEED ADJUST	ROTARY VOLUME	LEVEL METER (A/B)	4
	VINYL	BUTTON	VINYL	2
	TEMPO RANGE	BUTTON	TEMPO(-)	2
	MASTER TEMPO	BUTTON	MASTER TEMPO	2
	SYNC	BUTTON	SYNC	2
	TEMPO	SLIDE VOLUME	LEVEL METER (A/B)	4
	REV	BUTTON	REV	2
	SLIP	BUTTON	SLIP	2
	CUE	BUTTON	CUE	2
	PLAY/PAUSE	BUTTON	PLAY/PAUSE	2
	JOG ROTATION	DIAL	JOG LED ROTATION	4
	JOG TOUCH	DIAL	JOG LED ALL ON	4

PART	OPERATOR	DEVICE	LED DISPLAY	SUB-MODE
MIXER	TRIM	ROTARY VOLUME	LEVEL METER (A/B)	4
	HI	ROTARY VOLUME	LEVEL METER (A/B)	4
	MID	ROTARY VOLUME	LEVEL METER (A/B)	4
	LOW	ROTARY VOLUME	LEVEL METER (A/B)	4
	CHANNEL FADER	SLIDE VOLUME	LEVEL METER (A/B)	4
	FADER START A	SLIDE SWITCH (2 pos)	LEVEL METER [7] (MAX)	3
	FADER START B	SLIDE SWITCH (2 pos)	LEVEL METER [5]	3
	CROSS FADER	SLIDE VOLUME	LEVEL METER (MASTER)	4
	CROSS FADER CURVE	SLIDE SWITCH (3 pos)	LEVEL METER [6]	3
	C.F.REV	SLIDE SWITCH (2 pos)	C.F.REV	3
	MASTER LEVEL	ROTARY VOLUME	*3	-
	HEADPHONE CUE	BUTTON	HEADPHONE CUE	2
	HEADPHONE MIXING	ROTARY VOLUME	*3	-
	HEADPHONE LEVEL	ROTARY VOLUME	*3	-
EFFECT	FX CH SELECT	ROTARY SWITCH (4 pos)	PLAYNG ADDRESS	4
	EFFECT SELECT	ENCODER	JOG LED ROTATION	4
	PARAMETER	ENCODER	JOG LED ROTATION	4
	LEVEL/DEPTH	ROTARY VOLUME	LEVEL METER (A/B)	4
	ON/OFF	BUTTON	ON/OFF	2
	TAP	BUTTON	ON/OFF	2
BROWSE	BROWSE	ENCODER	JOG LED ROTATION	4
	BROWSE PUSH	ENCODER	ALL LED BRIGHT→DARK→OFF→ (Cyclic)	2
	BACK	BUTTON	FILES	2
	AREA MOVE	BUTTON	AREA MOVE	2
	LOAD	BUTTON	LOAD	2
	LOAD PREPARE	BUTTON	BROWSE	2
	CRATES	BUTTON	CRATES	2
	FILES	BUTTON	FILES	2
	BROWSE	BUTTON	BROWSE	2
	PREPARE	BUTTON	PREPARE	2
MIC/AUX	MIC1 OFF/ON/TALK OVER	SLIDE SWITCH (3 pos)	LEVEL METER [4]	3
	MIC2 OFF/ON/TALK OVER	SLIDE SWITCH (3 pos)	LEVEL METER [3]	3
	MIC INDICATOR	LED	*2	-
	LEVEL	ROTARY VOLUME	*3	-
	LOW	ROTARY VOLUME	*3	-
	MID	ROTARY VOLUME	*3	-
	HI	ROTARY VOLUME	*3	-
	MIC2/AUX INPUT SELECT	SLIDE SWITCH (2 pos)	LEVEL METER [2]	3
	MIC/AUX THRU	SLIDE SWITCH (2 pos)	LEVEL METER [1] (MIN)	3
OTHERS	SHIFT	BUTTON	TEMPO(+)	2
	MASTER ATT.	SLIDE SWITCH (3 pos)	*3	-
	AUX IN VOL	ROTARY VOLUME	*3	-

*1 The button of the left deck turns into the change button in the sub mode.
*2 It checks by all LED lightings (BROWSE PUSH). Moreover, in the usual mode, it becomes "ON=lighting / TALK OVER=blink". (at the time of AC adapter use).
*3 It checks in inputting a sound into MIC/AUX in the usual mode. It is not necessary to use especially ITCH.

[2] Quality judging of JOG dial load

When it spends a power supply while pushing a HOT CUE[1] button and a RELOOP button of left deck simultaneously, MASTER TEMPO LED of both the decks lights up, and it goes into this mode.
(Please continue pushing until an opening display is completed.)
it is the mode which judges the load (light/heavy) when rotating JOG dial.

It goes into this mode, when JOG dial was turned with sufficient vigor, the following top speed and rotation fall time are measured and top speed becomes more than 7 times, rotation fall time is evaluated, and it judges whether it goes into the range of regular, and a result is displayed on LED.
The rotation direction, right rotation and left rotation, either is OK.

TOP SPEED: Top speed (let the time of turning one rotation in 1.8 second be 1 time speed)
ROTATION FALL TIME: Time taken for rotation to fall to 1.5 times speed from 3 times speed

It is necessary to make it rotate top speed to 7.0 or more times to measure the rotation fall time required.
Not more than 7.0 times faster , it is made to blink 3 times and warns of JOG illuminations.

4 times displays the number of times of measurement on LED.

The 1st end HOT CUE 1 lighting
The 2nd end HOT CUE 2 lighting
The 3rd end HOT CUE 3 lighting
The 4th end HOT CUE 4 lighting

After measurement finishes 4 times, an average is taken, and rotation fall time judges whether it goes into the range of regular, and displays a result on LED.
Regulation value is 100 ± 40 [msec].

OK	RELOOP lighting
NG (Light)	LOOP OUT lighting
NG (Heavy)	LOOP IN lighting

Measurement is performed although the number of times is not displayed 5th henceforth.
Each time, an average is taken and a result is displayed on LED.

[3] Error display

When abnormalities are detected during the time of carrying out power supply ON, or operation, it displays by LED.

	Abnormalities	LED/Display	Note
1	Abnormalities of a power supply	All LED put out the light.	When abnormalities are detected by the state of DC power supply and USB bus power supply, it will be in this state. Opening display is not performed, either,when abnormalities are detected at the time of starting.
2	Abnormalities in FLASH ROM of MAIN microcomputer	Left deck/LOOP-IN Lighting	When update goes wrong and FLASH-ROM is not written correctly, it will be in this state. Even in this case, update can be performed succeedingly. However, "3" is displayed while it can be communicating neither with the case where USB cable is not connected, nor USB controller, correctly also at this time.
3	Aabnormalities of USB controller	Left deck/LOOP-OUT Blinks in a cycle of 0.5 seconds.	When the time when it cannot communicate with USB controller correctly although USB cable is connected at the time of starting, and controllers are abnormalities, it will be in this state.
4	Abnormalities of the needle pad controller of the left deck	Right deck/LOOP-IN Blinks in a cycle of 0.5 seconds.	When the time when it cannot communicate with a needle pad controller correctly, and controllers are abnormalities, it will be in this state. However, this display is performed at the time of "(1) Check of operator input and a display function." It will be used in usual use, with a needle pad not operating.
5	Abnormalities of the needle pad controller of the right deck	Right deck/LOOP-OUT Blinks in a cycle of 0.5 seconds.	

[4] Firmware update

Refer to the "8.3 UPDATING OF THE FIRMWARE."

[5] Writing of EEPROM for USB controllers

Refer to the "8.4 COPYING THE PROGRAM OF THE EEPROM FOR THE USB CONTROLLER."

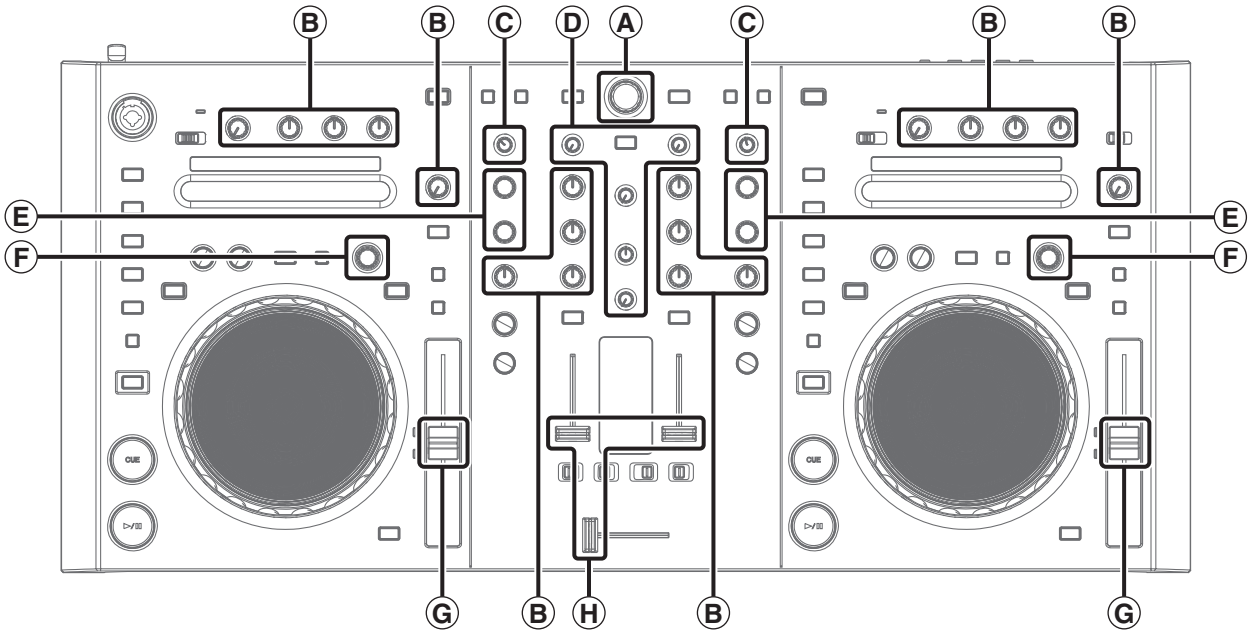
6.3 ABOUT THE DEVICE

Device Name	Function	Part No.	Ref No.	Assy
MAIN UCOM	Main microcomputer, All operating elements/LED control	DWY1803 PEG872A8	IC505	MAIN Assy
USB UCOM	USB control, audio control	TUSB3200ACPAH	IC508	MAIN Assy
CDC	Needle search control	AD7147ACPZ500RL7	IC1501 IC1601	CDCA Assy CDCB Assy

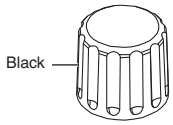
7. DISASSEMBLY

Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

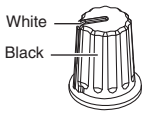
Knobs and Volumes Location



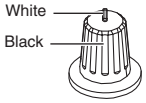
Ⓐ Dial Knob (DAA1259) ×1



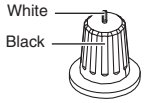
Ⓑ Rotary Knob L (Black) (DAA1261) ×18



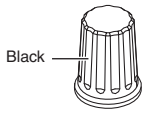
Ⓒ Rotary Knob S2 (B) (DAA1275) ×2



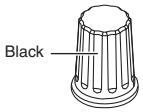
Ⓓ Rotary Knob S (Black) (DAA1262) ×5



Ⓔ Dial Knob S2 (B) (DAA1274) ×4



Ⓕ Dial Knob S (B) (DAA1273) ×2

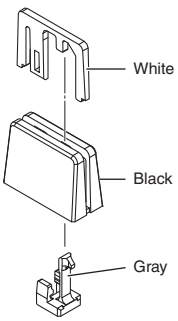


Ⓗ Slider Knob 1 (DAC2684) ×3 + Slider Knob 2 (DAC2685) ×3 + Slider Knob Stopper (DNK5888) ×3

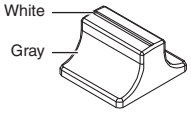
Slider Knob 2

Slider Knob 1

Slider Knob Stopper



Ⓖ Slide Knob (Metal) (DNK5876) ×2

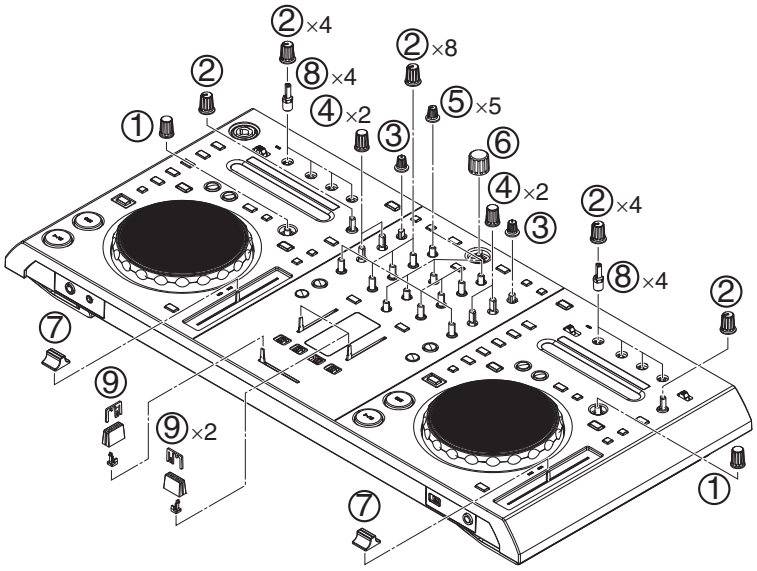


Disassembly

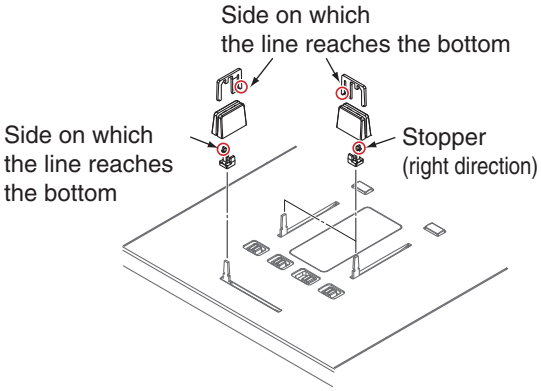
[1] Chassis Section

[1-1] Volumes and knobs

(1) Remove the two dial knobs S (B).
(2) Remove the 18 rotary knob L (Black).
(3) Remove the two rotary knob S2 (B).
(4) Remove the four dial knobs S2 (B).
(5) Remove the five rotary knob S (Black).
(6) Remove the one dial knob.
(7) Remove the two slide knobs (Metal).
(8) Remove the eight shafts/EXT.
(9) Remove the five silider knobs 2, five slider knobs 1, five slider knob stoppers. (See below.)



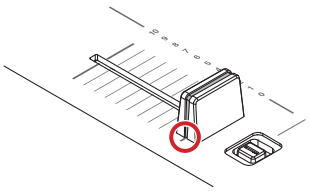
The reference of the direction



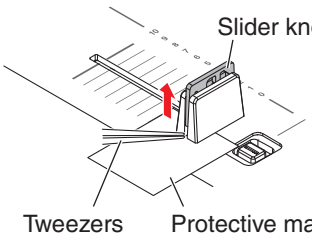
• Disassembly of the slider knob

The new slider knob adopted by this product is designed so that it is not pulled out easily. Therefore, the method for removing the slider knob is different from the conventional method; it can only be pulled out after slider knob 2 is removed.

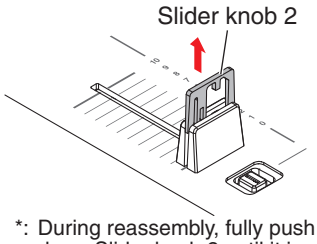
① Find the side on which the line reaches the bottom.



② Insert a pair of tweezers etc. beneath the line then push the slider knob 2 upward. To protect the panel from being scratched, use protective material.

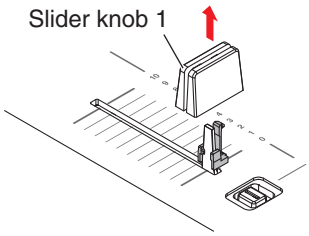


③ Remove the slider knob 2.

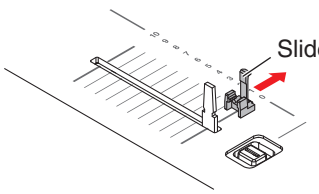


*: During reassembly, fully push down Slider knob 2 until it is dented into Slider knob 1.

④ Remove the slider knob 1.

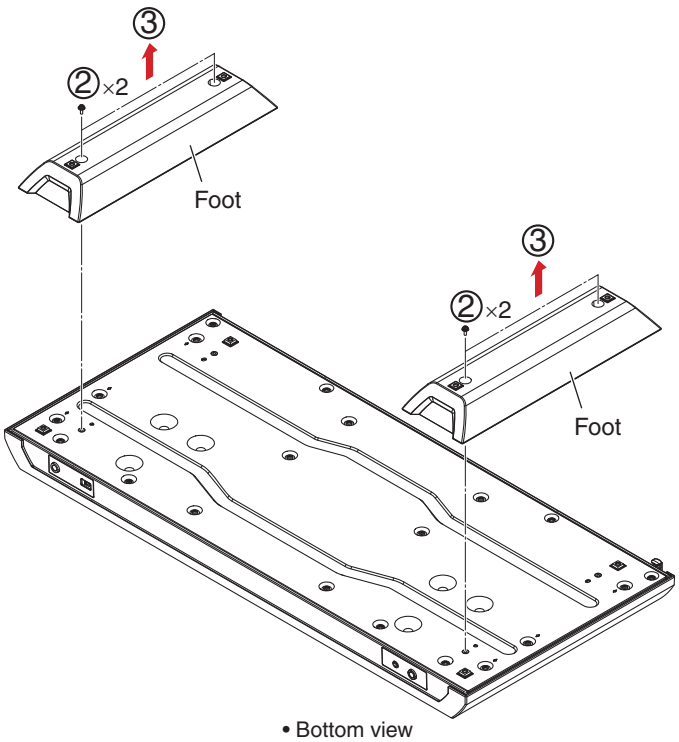


⑤ Remove the slider knob stopper.



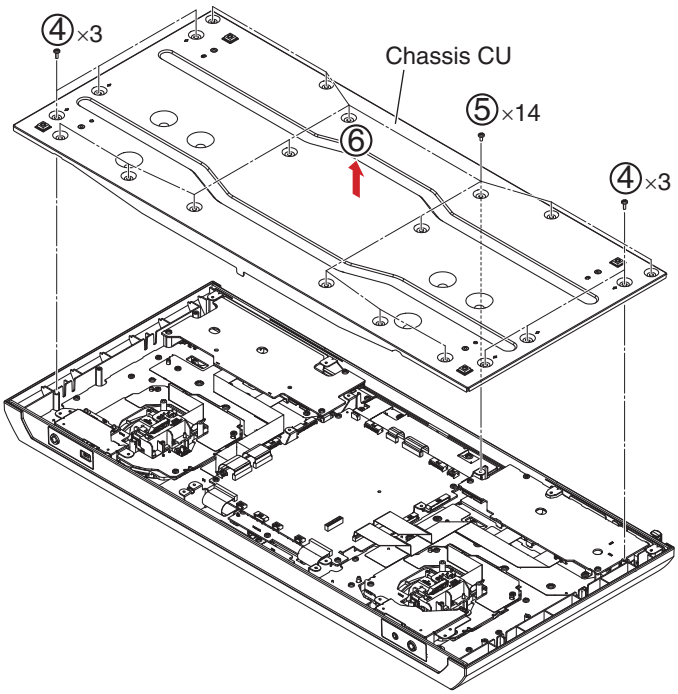
[1-2] Chassis section

(1) Reverse the product.
(2) Remove the four screws. (PMB30P080FTB)
(3) Remove the two foots.



• Bottom view

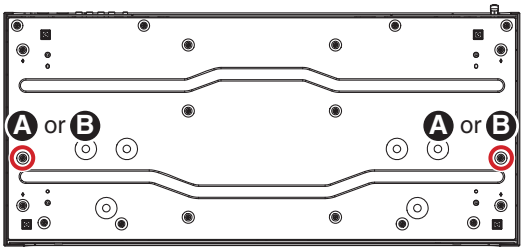
(4) Remove the six screws. (BPZ30P080FNI)
(5) Remove the 14 screws. (BBZ30P060FTC)
(6) Remove the chassis CU.



• Bottom view

Screw tightening order

The other screws are random order.



[2] JACK, MIC2, POWB and HPJB ASSEMBLIES

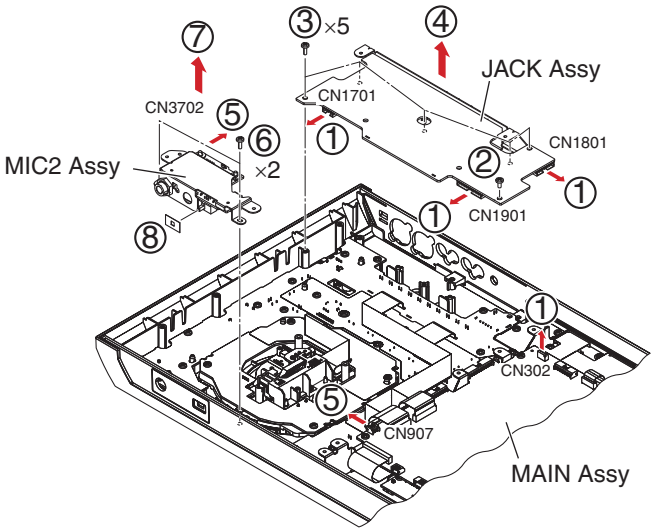
[2-1] JACK and MIC2 Assemblies

• JACK Assy

(1) Disconnect the three connectors and one flexible cable.
(CN1701, 1801, 1901, 302)
(2) Remove the one screw. (BBZ30P060FTC)
(3) Remove the five screws. (BPZ30P080FNI)
(4) Remove the JACK Assy.

• MIC2 Assy

(5) Disconnect the two connectors.
(CN3702, 907)
(6) Remove the two screws. (BPZ30P080FNI)
(7) Remove the MIC2 Assy.
(8) Remove the slide SW packing (B).



• Bottom view

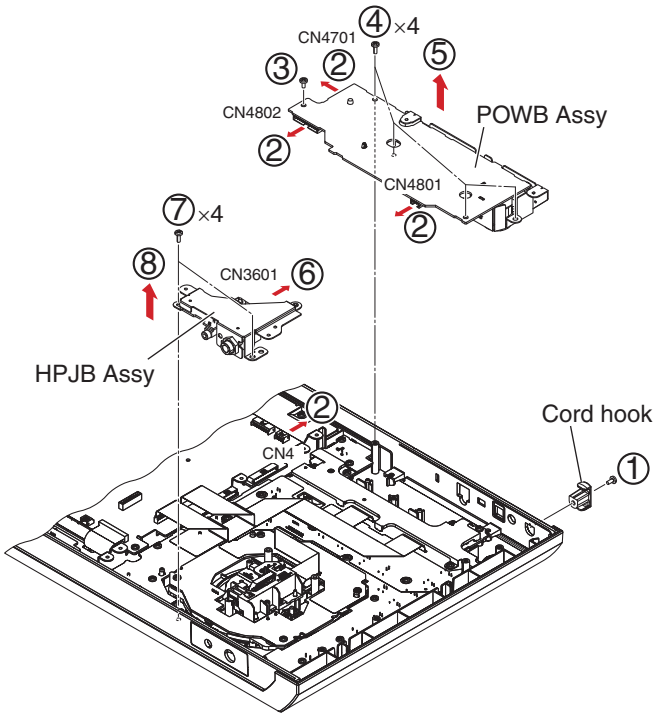
[2-2] POWB and HPJB Assemblies

• POWB Assy

(1) Remove the one screw and remove the cord hook. (BBZ30P060FTB)
(2) Disconnect the four connectors.
(CN4701, 4801, 4802, 4)
(3) Remove the one screw. (BBZ30P060FTC)
(4) Remove the four screws. (BPZ30P080FNI)
(5) Remove the POWB Assy.

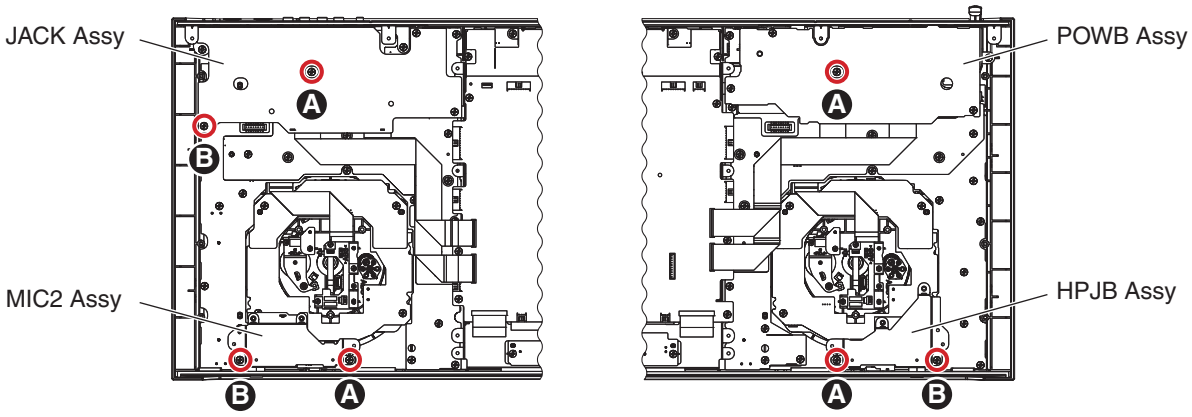
• HPJB Assy

(6) Disconnect the one connector. (CN3601)
(7) Remove the two screws. (BPZ30P080FNI)
(8) Remove the HPJB Assy.

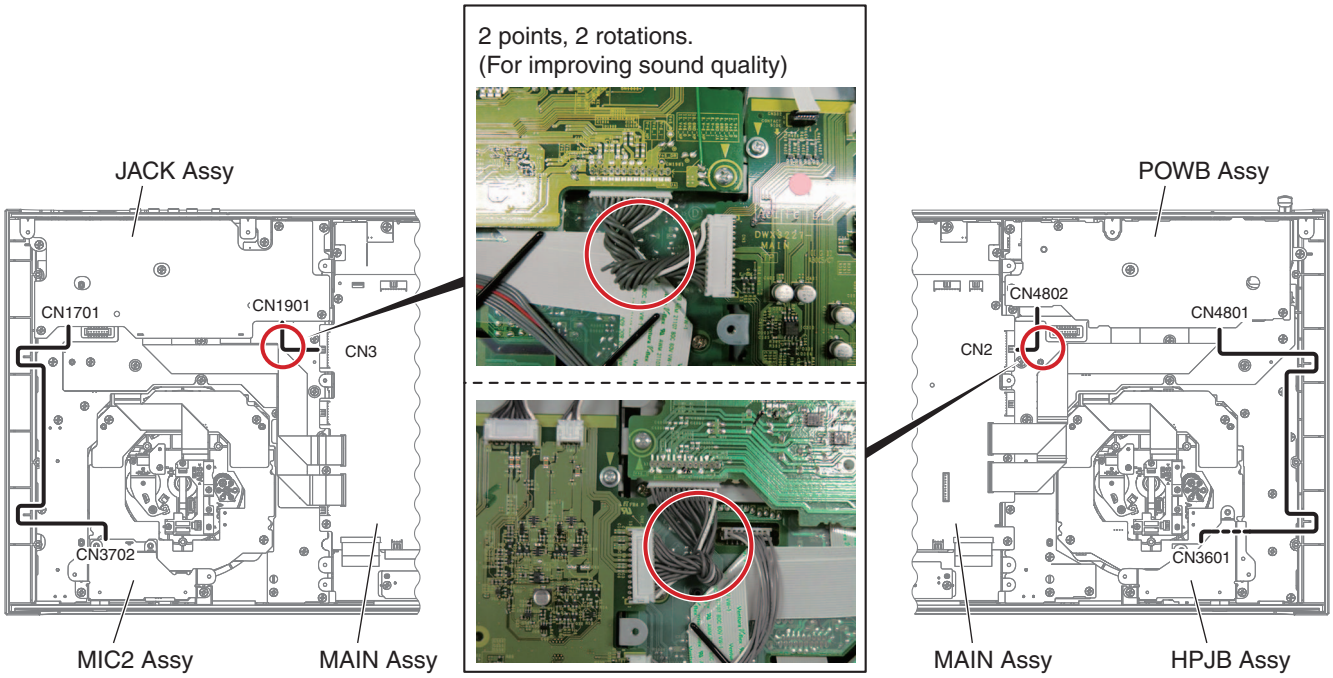


• Bottom view

Screw tightening order
The other screws are random order.



Jumper wire styling



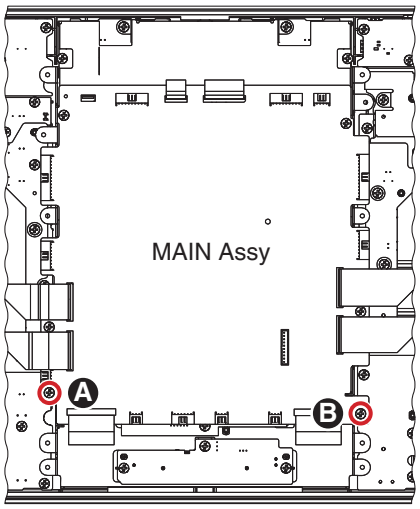
Confirm points :
White wire is same side or not.
If it's same side, it's correct.
If it's not same side, it means a half rotation so it's incorrect.

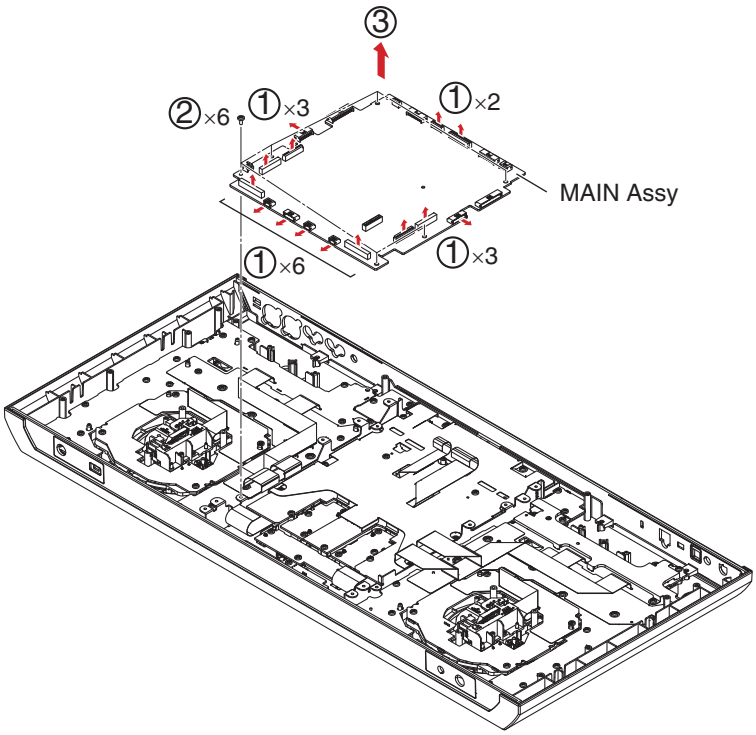
[3] Mixer and Fader Section

[3-1] MAIN Assy

(1) Disconnect the eight flexible cables and six connectors.
(CN701 to 706, 901 to 906, 908, 909)
(2) Remove the six screws. (ABZ30P060FTC)
(3) Remove the MAIN Assy.

Screw tightening order
The other screws are random order.



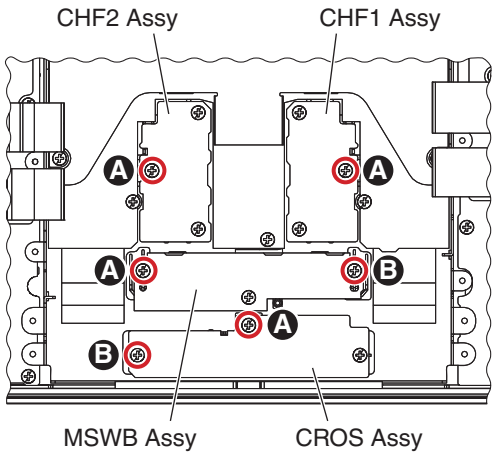


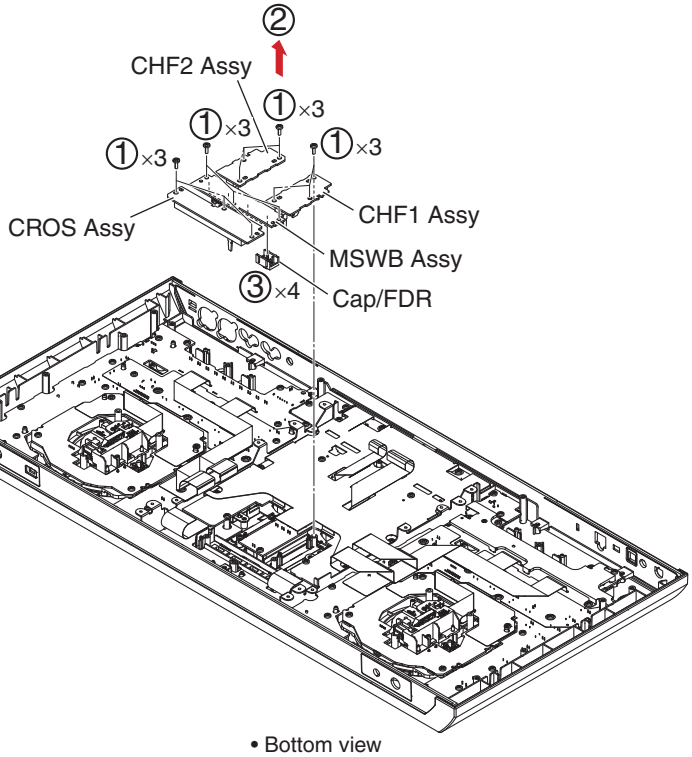
• Bottom view

[3-2] Fader section

(1) Remove the 12 screws. (BPZ30P080FNI)
(2) Remove the CHF1, CHF2, CROS and MSWB Assemblies.
(3) Remove the four caps/FDR.

Screw tightening order
The other screws are random order.



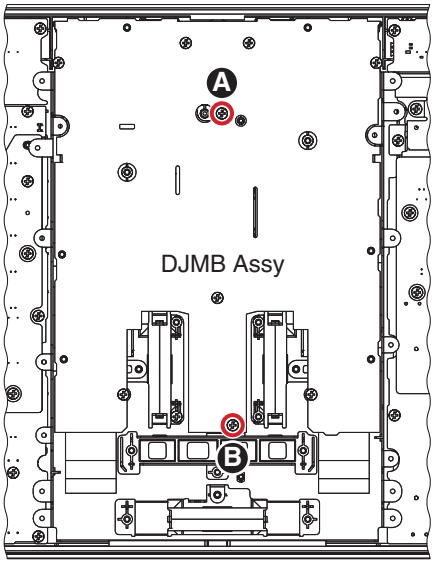


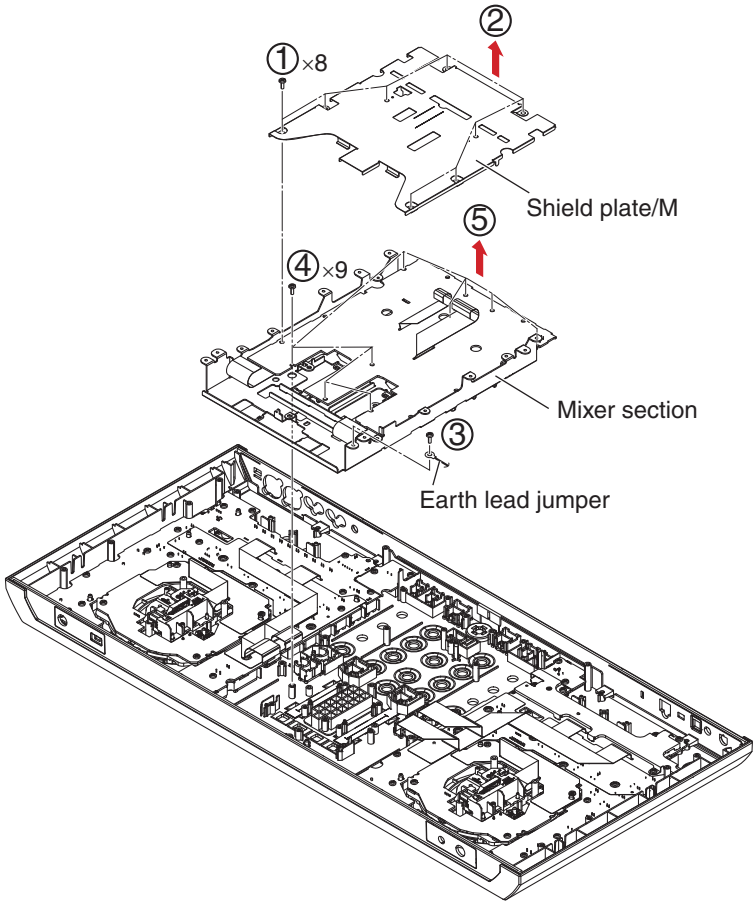
• Bottom view

[3-3] Mixer section

(1) Remove the eight screws. (BPZ30P080FNI)
(2) Remove the shield plate/M.
(3) Remove the one screw and remove the earth lead jumper. (BBZ30P060FTC)
(4) Remove the nine screws. (BPZ30P080FNI)
(5) Remove the mixer section.

Screw tightening order
The other screws are random order.



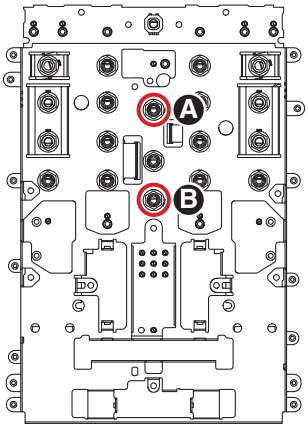


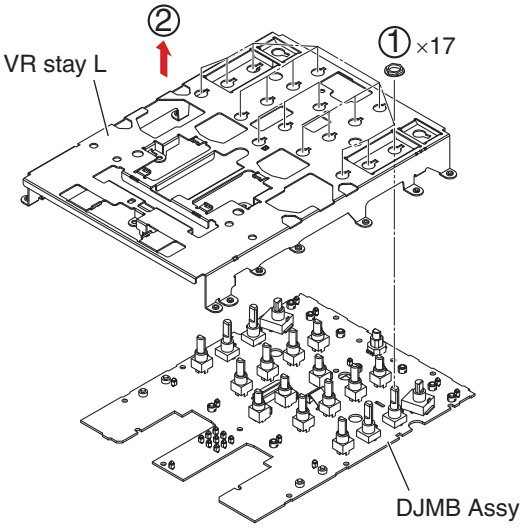
• Bottom view

[3-4] DJMB Assy

(1) Remove the 17 flange nuts M9.
(2) Remove the VR stay L.

Nut tightening order
The other screws are random order.





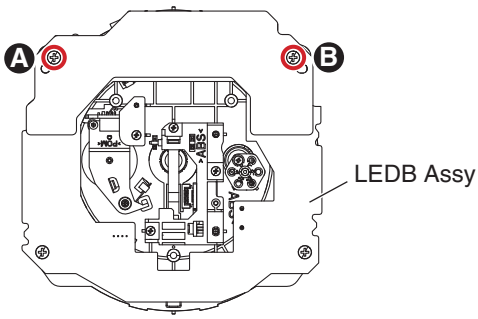
[4] Deck Section

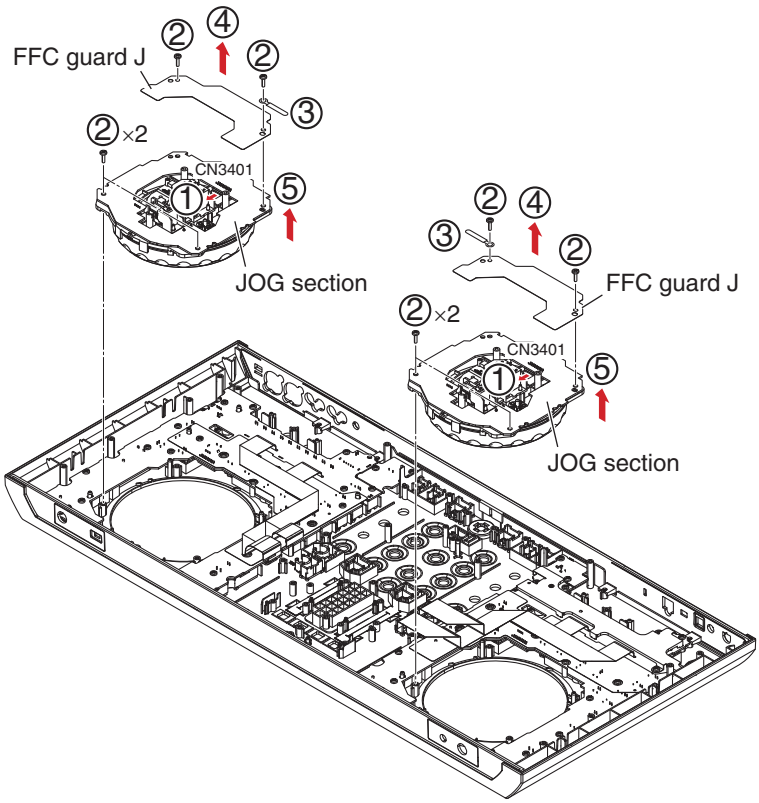
[4-1] JOG section

• JOG section

(1) Disconnect the two flexible cables. (CN3401)
(2) Remove the eight screws. (BPZ30P100FTB)
(3) Remove the two cord clamper.
(4) Remove the two FFC guards J.
(5) Remove the two JOG sections.

Screw tightening order
The other screws are random order.

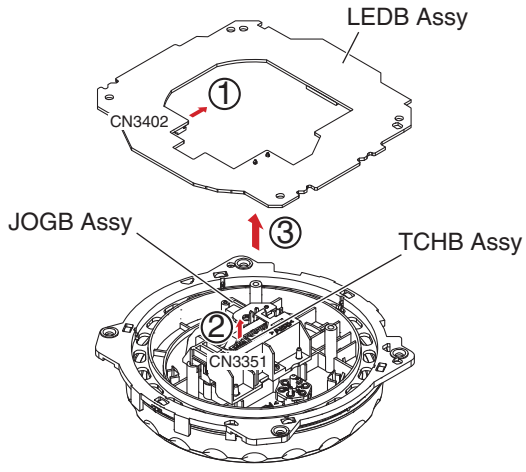




• Bottom view

• LEDB Assy

(1) Disconnect the one connector. (CN3402)
(2) Disconnect the one connector. (CN3351)
(3) Remove the LEDB Assy.



• Bottom view

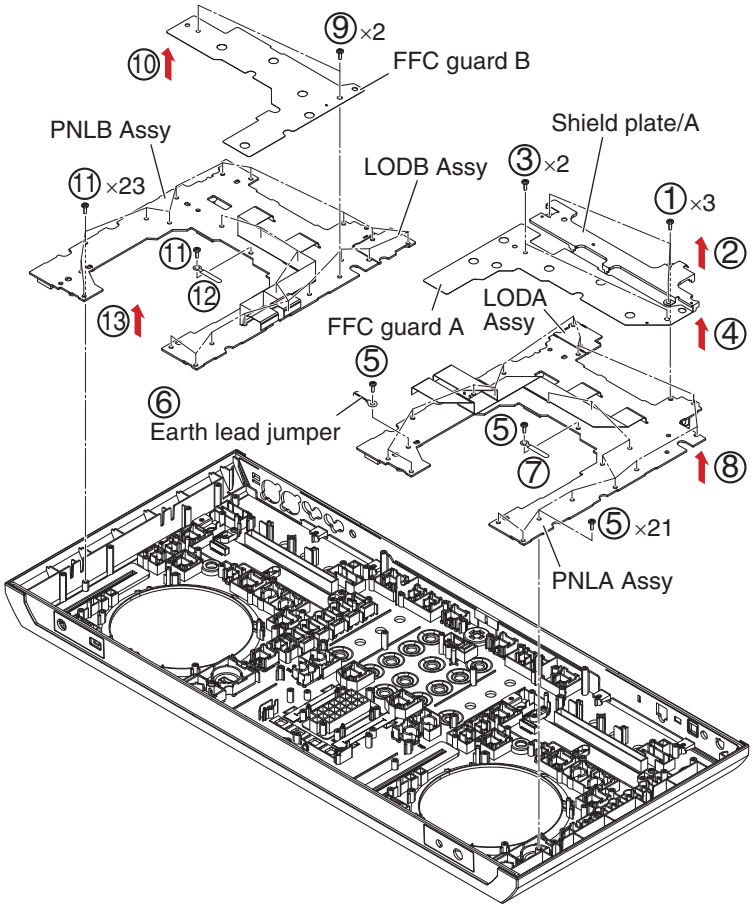
[4-2] PNLA, LODA, PNLB and LODB Assemblies

• PNLA and LODA Assemblies

(1) Remove the three screws. (BPZ30P080FNI)
(2) Remove the shield plate/A.
(3) Remove the two screws. (BPZ30P080FNI)
(4) Remove the FFC guard A.
(5) Remove the 23 screws. (BPZ30P080FNI)
(6) Remove the earth lead jumper.
(7) Remove the cord clamper.
(8) Remove the PNLA and LODA Assemblies.

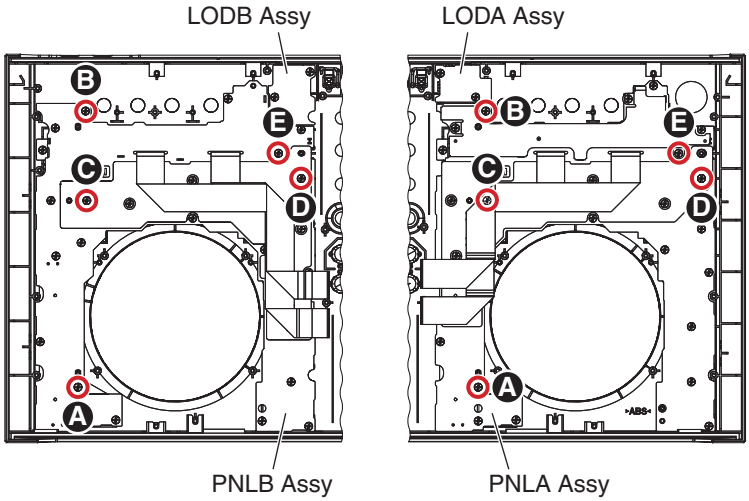
• PNLB and LODB Assemblies

(9) Remove the two screws. (BPZ30P080FNI)
(10) Remove the FFC guard B.
(11) Remove the 24 screws. (BPZ30P080FNI)
(12) Remove the cord clamper.
(13) Remove the PNLB and LODB Assemblies.



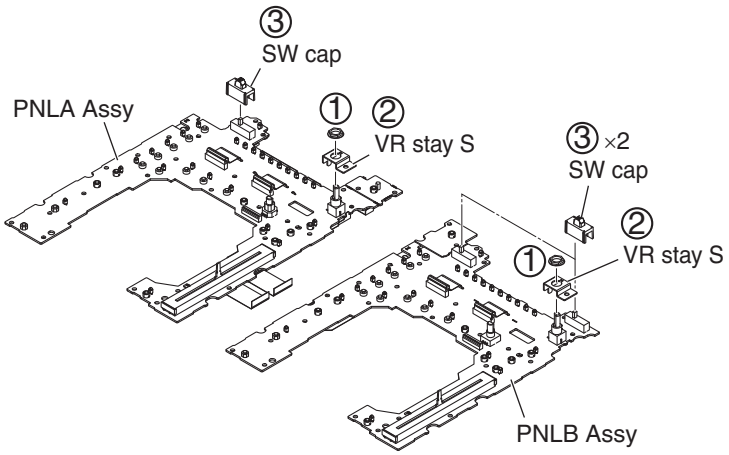
• Bottom view

Screw tightening order
The other screws are random order.



• **Stay**

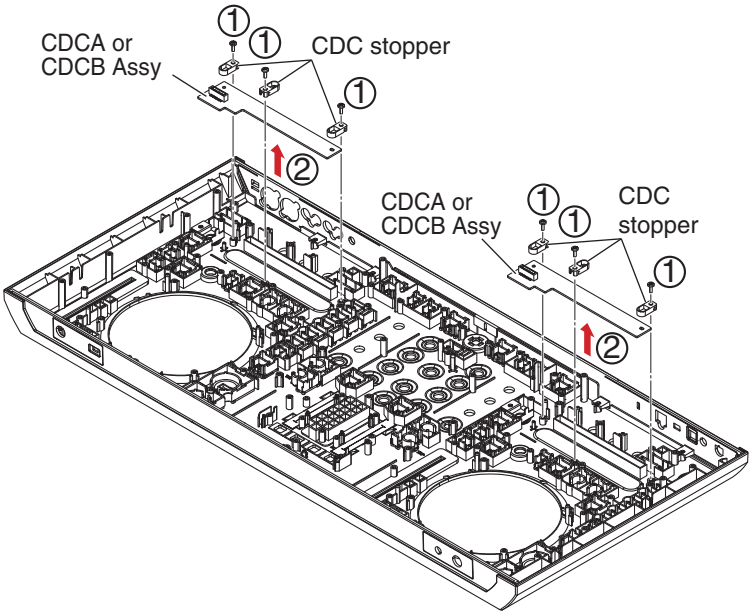
(1) Remove the two flange nuts M9.
(2) Remove the two VR stays S.
(3) Remove the three SW Caps.



[4-3] CDCA and CDCB Assemblies

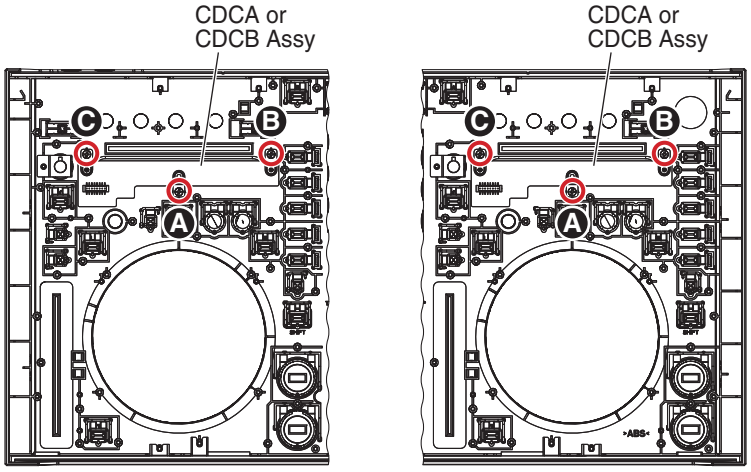
(1) Remove the six screws and remove the six CDC stoppers. (BPZ30P080FNI)
(2) Remove the CDCA and CDCB Assemblies.

Note:
Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.



• Bottom view

Screw tightening order



8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

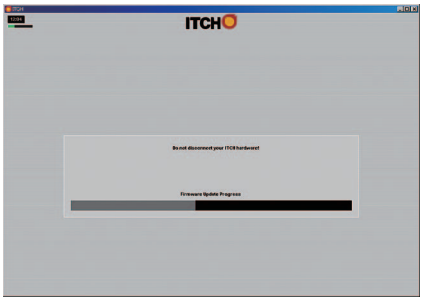
Before repairing, be sure to check the version of the firmware, and if it is not the latest one, update to the latest version.
Perform the each item when the following parts are replaced.

- MAIN ASSY (MAIN UCOM: IC505) ⇒
  - Confirmation of the version of the firmware
  - Updating to the latest version of the firmware
- EEPROM on the MAIN ASSY: IC511 ⇒
  - Copying the program for the USB controller
  - Updating to the latest version of the firmware
- Component parts of the JOG dial section ⇒
  - JOG dial rotation load adjustment

8.2 UPDATING OF THE FIRMWARE WITH ITCH

If the version of the DDJ-S1 firmware that is included in ITCH is later than that of the firmware installed in the connected DDJ-S1, the “UPDATE FIRMWARE” button will be displayed.

Note: Updating of the DDJ-S1 firmware to the latest one can only be performed at the time of ITCH updating. Therefore, disclosure of the update tool by Pioneer via the Website will be required if updating of the firmware becomes urgently required. (Refer to “8.3 Updating of the Firmware” .)



Note: After updating of the DDJ-S1 firmware is completed, the DDJ-S1 will automatically restart, be connected to ITCH, then become available.

8.3 UPDATING OF THE FIRMWARE

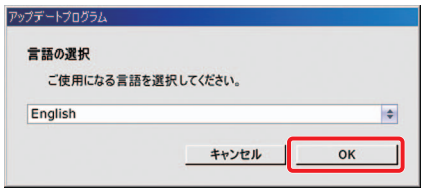
The devices which update a firmware are MAIN microcomputer and USB controller.
USB connection of the controller is made at PC/MAC, and it updates by performing the update program of exclusive use.

File name

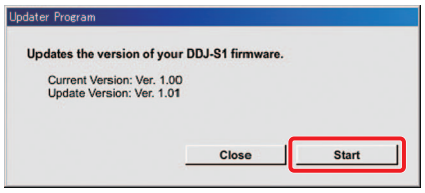
Windows	DDJS1_xxx.exe	* xxx is version number. If it is Ver1.00, it is DDJS1_100.exe/DDJS1_100.dmg.
Mac	DDJS1_xxx.dmg	* In the case of Mac, since an icon will appear if dmg file is double-clicked, it is performed.

CAUTION: When you update, please terminate all DJ applications, such as ITCH.

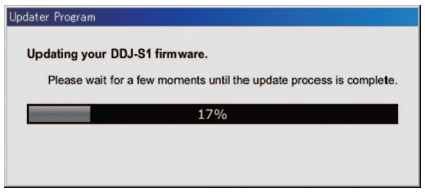
Example (Windows)



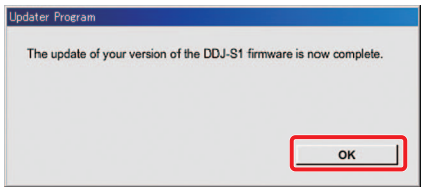
Starting/Selection of a language
(English is chosen.)



Check of a version.



Progress display.



End.
Controller is re-started automatically.

Recovery when failing

When update goes wrong, USB cable is extracted on the way or the power supply has been turned off, usual DJ operation becomes impossible after that.
In this case, the recovery mode which only updates operates (State of 2 or 3 in "(3)Error display" of "6.2 DETAILS ON SERVICE MODE").
Update program can be used like usual also at this time.

8.4 COPYING THE PROGRAM FOR THE USB CONTROLLER

Copy the program for the USB controller according to the following procedure after the EEPROM (IC511) on the MAIN Assy is replaced:

① Turn the DDJ-S1 off then connect this unit with a PC, via USB.
② Set the POWER switch to ON while simultaneously holding the HOT CUE [1] and REV buttons on the left deck pressed.
③ Copying of the program is successfully completed if the MIC 1 LED on the left deck lights then goes dark in about 3 seconds.
(The MIC 1 LED flashes if nothing is connected to the USB port of this unit or copying failed for some reason.)

After copying is completed, turn the unit off then back on again.

8.5 JOG DIAL ROTATION LOAD ADJUSTMENT

1. How to Enter JOG Load Measurement Mode

Set the POWER switch to ON while holding the HOT CUE [1] and RELOOP buttons on the left panel pressed.
=> JOG Load Measurement mode is entered when the MASTER TEMPO LEDs on the left and right panels light.

2. Measurement Method

Rotate the JOG dial clockwise swiftly.*
*If the rotation speed is high enough (successful measurement)
When the 1st measurement is finished, HOT CUE 1 lights.
When the 2nd measurement is finished, HOT CUE 2 lights.
When the 3rd measurement is finished, HOT CUE 3 lights.
When the 4th measurement is finished, HOT CUE 4 lights.
If the rotation speed is not high enough (measurement fails)
The JOG dial flashes 3 times, after which it goes dark.

Perform measurements four times, each time after confirming that the previous measurement was successfully finished, which is shown as mentioned above.

3. Judgment

After four measurements are successfully finished, the level of the measured JOG load value with regard to the reference value will be displayed.
Reference value: 100 ±40 (msec)
OK: RELOOP lit
NG (measured value is smaller than the reference value): LOOP OUT lit
NG (measured value is larger than the reference value): LOOP IN lit

4. Adjustment When the JOG Load Value is Outside the Specified Range

When LOOP OUT is lit:
Because the load value is too small, detach and shift the Adjust Plate toward the + direction then secure it.
When LOOP IN is lit:
Because the load value is too large, detach and shift the Adjust Plate toward the – direction then secure it.

After adjustment of the Adjust Plate location, repeat Steps 1 to 3 until the measurement result becomes OK.

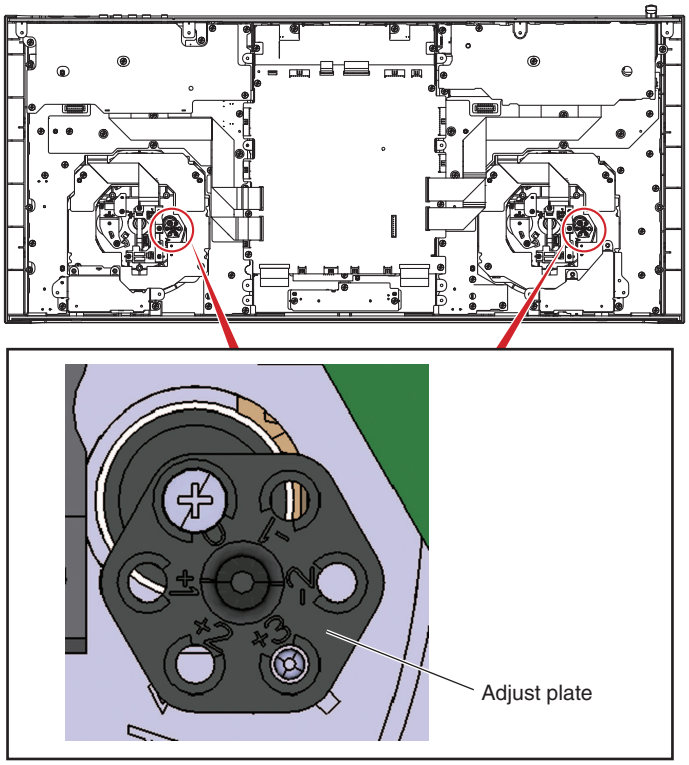
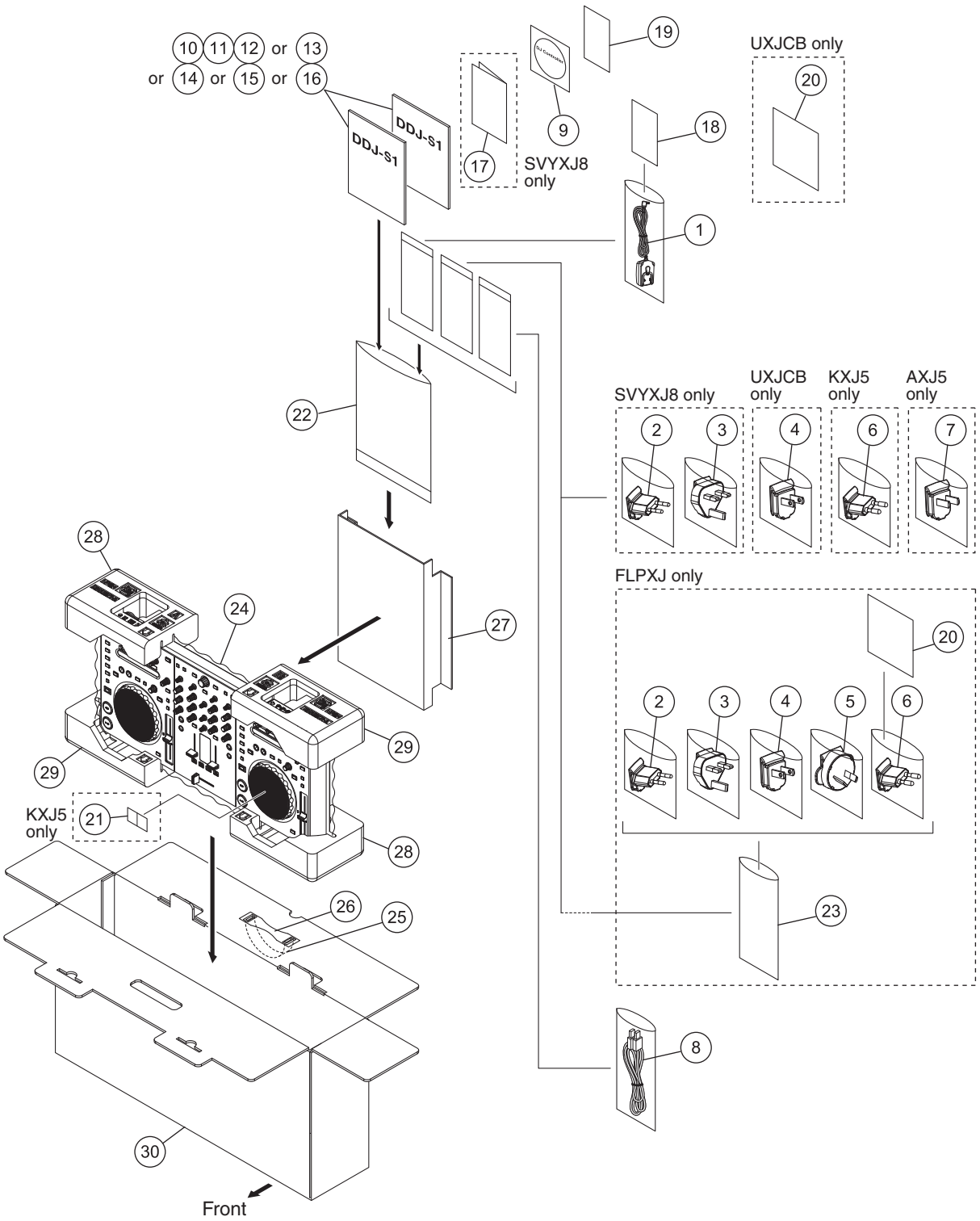


Fig. 1

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 ⚠ 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 ▼ 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

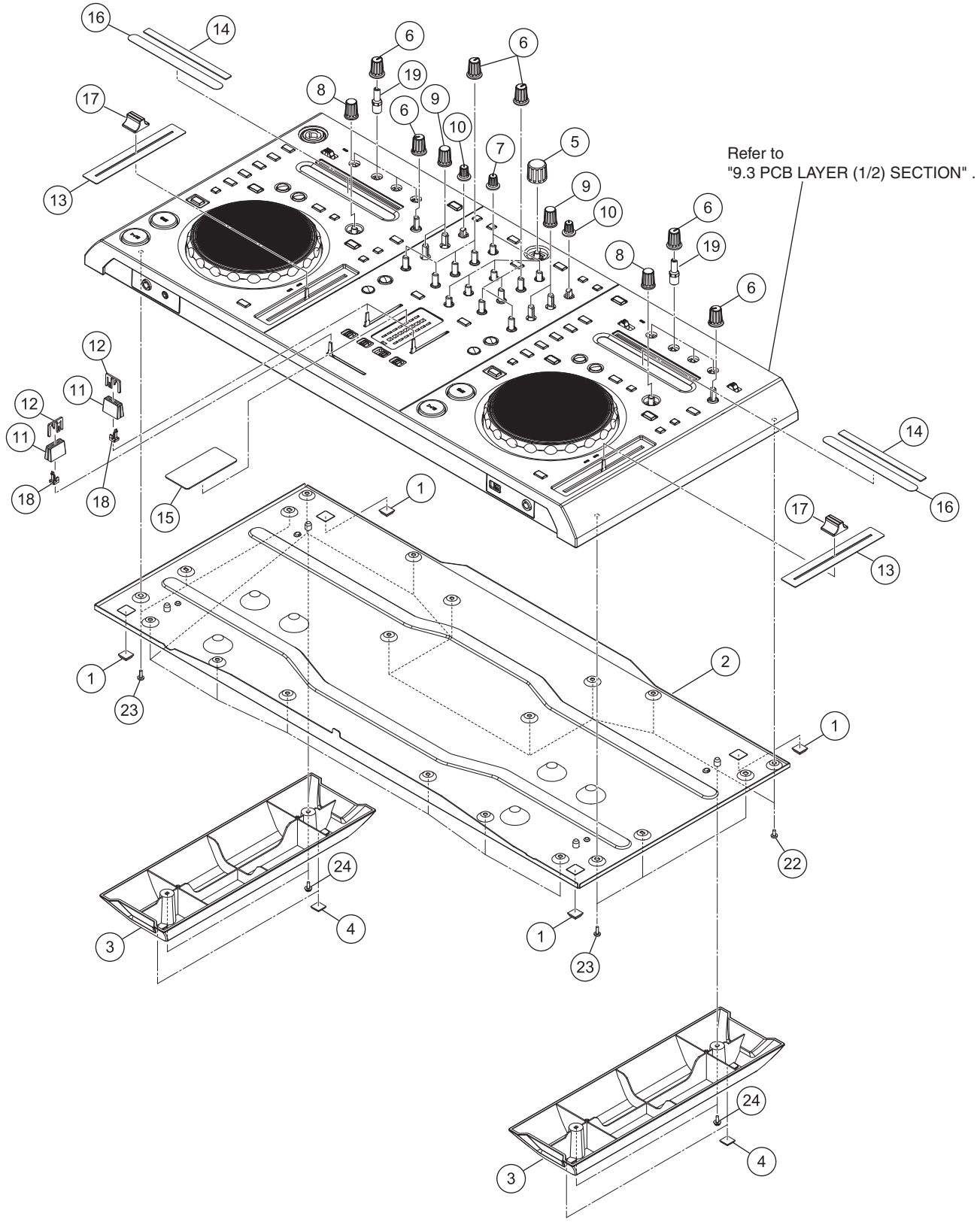
Mark	No.	Description	Part No.
⚠	1	AC Adapter	DWR1491
⚠	2	Power Plug (EU)	See Contrast table (2)
⚠	3	Power Plug (UK)	See Contrast table (2)
⚠	4	Power Plug (US)	See Contrast table (2)
⚠	5	Power Plug (AUS)	See Contrast table (2)
⚠	6	Power Plug (KO)	See Contrast table (2)
⚠	7	Power Plug (CHI)	See Contrast table (2)
	8	USB Cable	DDE1128
	9	CD-ROM	DXX2662
	10	Operating Instructions	See Contrast table (2)
	11	Operating Instructions	See Contrast table (2)
	12	Operating Instructions	See Contrast table (2)
	13	Operating Instructions	See Contrast table (2)
	14	Operating Instructions	See Contrast table (2)
	15	Operating Instructions	See Contrast table (2)
	16	Operating Instructions	See Contrast table (2)
NSP	17	Warranty Card	See Contrast table (2)
	18	Caution Card/ADP	DRM1345
	19	Caution Card/VUP	DRM1355
	20	Caution Card/PLG	See Contrast table (2)
	21	Recycle Label (M)	See Contrast table (2)
NSP	22	Polyethylene Bag	AHG7117
	23	Vinyl Bag	See Contrast table (2)
	24	Packing Sheet	RHC1023
	25	Plastic Handle (PE)	VEC2292
	26	Spacer (PE)	VEC2293
	27	Accessary Pad	DHA1875
	28	Pad A	DHA1871
	29	Pad B	DHA1872
	30	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

DDJ-S1/SVYXJ8, UXJCB, FLPXJ, KXJ5 and AXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-S1 /SVYXJ8	DDJ-S1/ UXJCB	DDJ-S1/ FLPXJ	DDJ-S1/ KXJ5	DDJ-S1/ AXJ5
⚠	2	Power Plug (EU)	DKX1048	Not used	Not used	Not used	Not used
⚠	3	Power Plug (UK)	DKX1049	Not used	Not used	Not used	Not used
⚠	4	Power Plug (US)	Not used	DKX1047	DKX1047	Not used	Not used
⚠	5	Power Plug (AUS)	Not used	Not used	DKX1050	Not used	Not used
⚠	6	Power Plug (KO)	Not used	Not used	DKX1051	DKX1051	Not used
⚠	7	Power Plug (CHI)	Not used	Not used	Not used	Not used	DKX1052
	10	Operating Instructions (En/Fr/De)	DRB1552	Not used	Not used	Not used	Not used
	11	Operating Instructions (It/Nl/Es/Ru)	DRB1553	Not used	Not used	Not used	Not used
	12	Operating Instructions (?????)	DRB1566	Not used	Not used	Not used	Not used
	13	Operating Instructions (En)	Not used	DRB1551	Not used	Not used	Not used
	14	Operating Instructions (En/Es/Zhtw)	Not used	Not used	DRB1554	Not used	Not used
	15	Operating Instructions (Ko)	Not used	Not used	Not used	DRB1556	Not used
	16	Operating Instructions (Zhcn/En)	Not used	Not used	Not used	Not used	DRB1555
NSP	17	Warranty Card	ARY7107	Not used	Not used	Not used	Not used
	20	Caution Card/PLG	Not used	Not used	DRM1346	Not used	Not used
	21	Recycle Label (M)	Not used	Not used	Not used	DRW2307	Not used
	23	Vinyl Bag	Not used	Not used	Z21-013	Not used	Not used
	30	Packing Case	DHG3012	DHG3013	DHG3014	DHG3017	DHG3015

9.2 EXTERIOR SECION

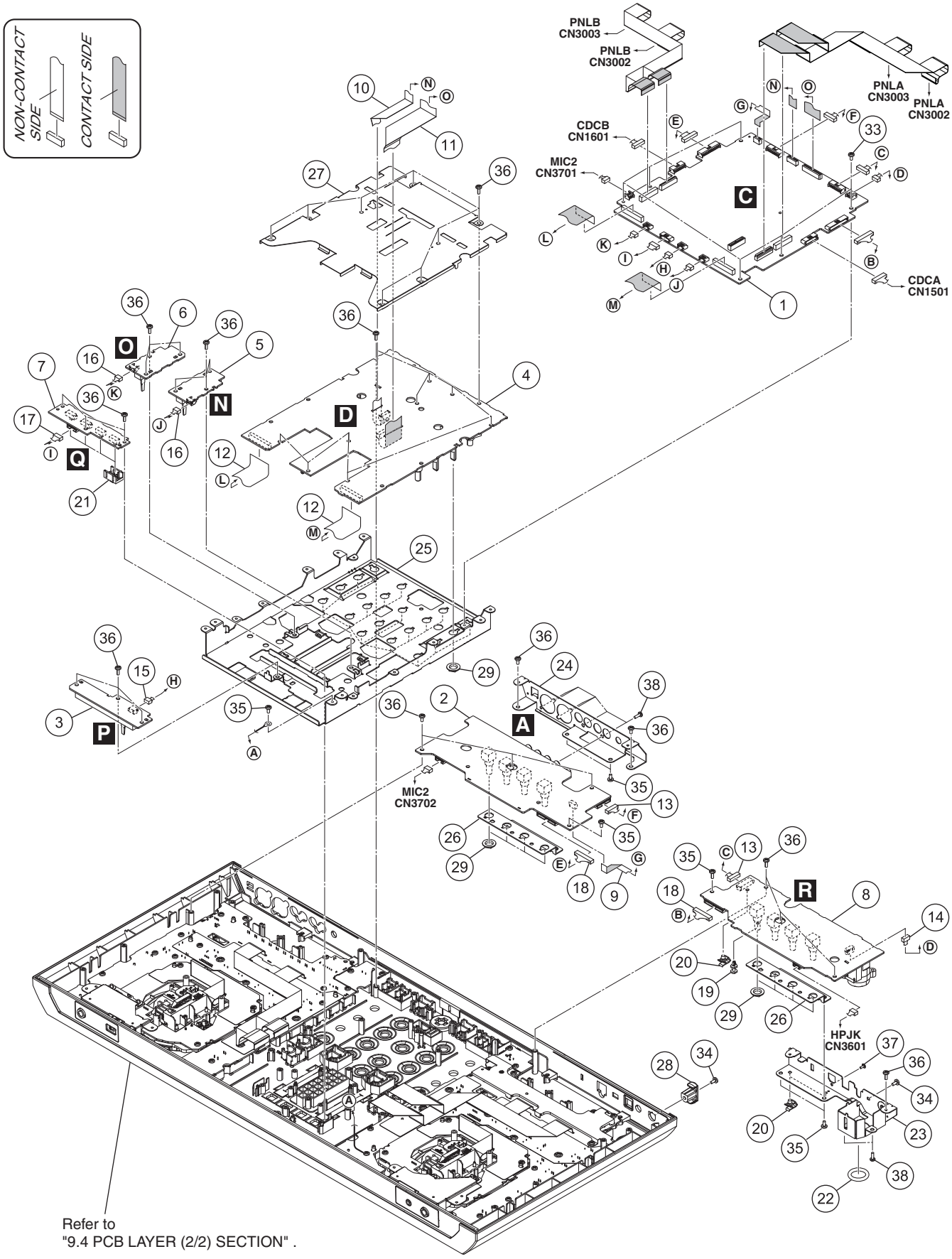


EXTERIOR SECION SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	Rubber Foot (H6)	DEB1996
	2	Chassis CU	DNA1425
	3	Foot	DNK5864
	4	Rubber Foot	VEB1349
	5	Dial Knob	DAA1259
	6	Rotary Knob L (Black)	DAA1261
	7	Rotary Knob S (Black)	DAA1262
	8	Dial Knob S (B)	DAA1273
	9	Dial Knob S2 (B)	DAA1274
	10	Rotary Knob S2 (B)	DAA1275
	11	Slider Knob 1	DAC2684
	12	Slider Knob 2	DAC2685
	13	Slide Sheet 1C	DAH2404
	14	Address Plate	DAH2849
	15	Level Plate	DAH2851
	16	CDC Sheet	DEC3357
	17	Slide Knob (Metal)	DNK5876
	18	Slider Knob Stopper	DNK5888
	19	Shaft/EXT	DNK5980
	20	•••••	
	21	•••••	
	22	Screw	BBZ30P060FTC
	23	Screw	BPZ30P080FNI
	24	Screw	PMB30P080FTB

9.3 PCB LAYER SECTION (1/2)

• Bottom view



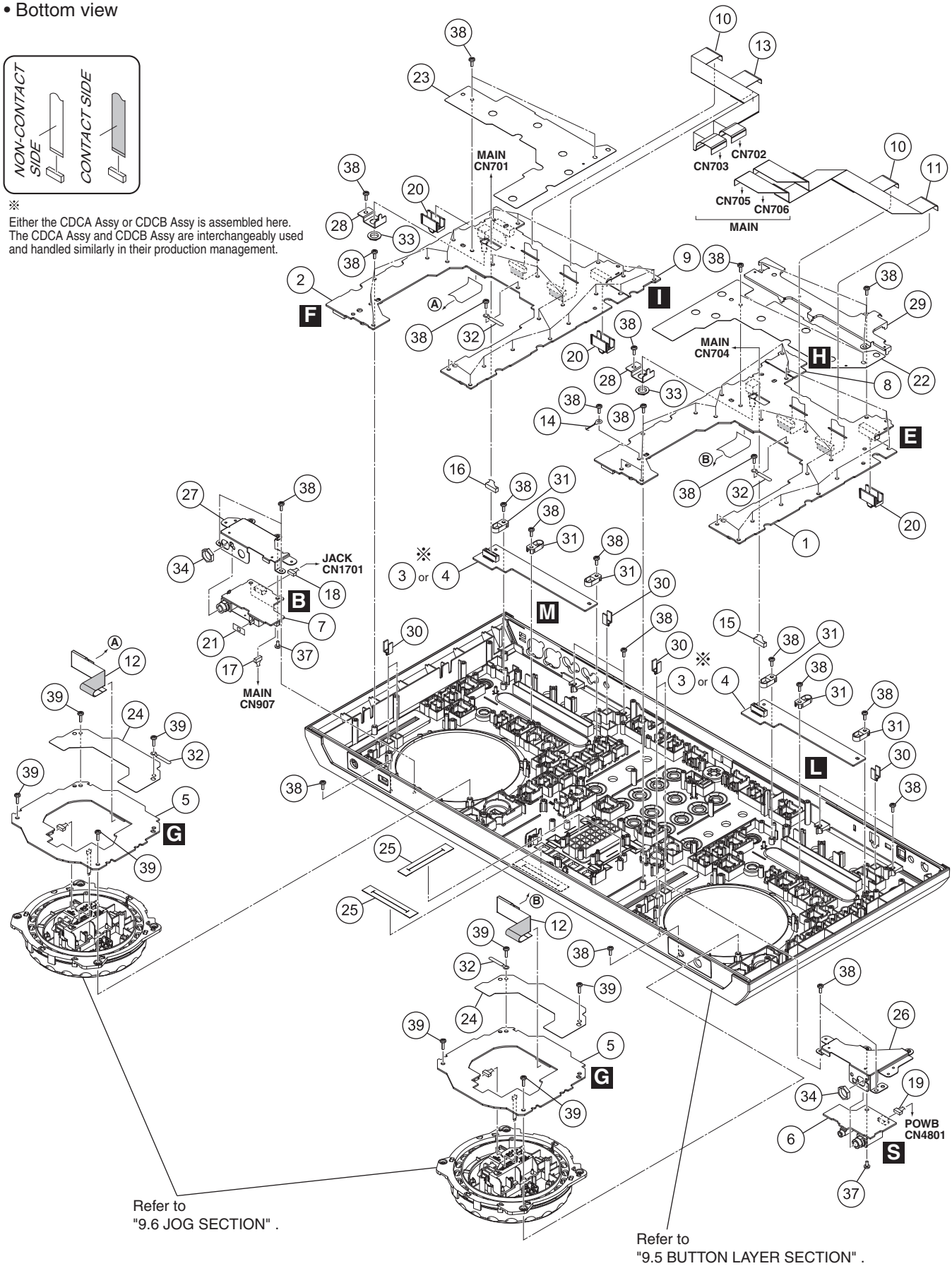
PCB LAYER SECTION (1/2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3227
	2	JACK Assy	DWX3230
	3	CROS Assy	DWX3246
	4	DJMB Assy	DWX3243
	5	CHF1 Assy	DWX3244
	6	CHF2 Assy	DWX3245
	7	MSWB Assy	DWX3247
	8	POWB Assy	DWX3248
	9	FFC/6P	DDD1562
	10	FFC/11P	DDD1572
	11	FFC/23P	DDD1573
	12	FFC/27P	DDD1574
	13	Crimp Connector/9P	DKP3907
	14	Crimp Connector/4P	DKP3910
	15	Connector Assy	PF03PP-B05
	16	Connector Assy	PF03PP-B07
	17	Crimp Connector	PF06PP-B05
	18	Connector Assy	PF13PP-D07
NSP	19	PCB Spacer	AEC1371
	20	Mini Clamp	AEC7507
	21	Cap/FDR	DAC2771
	22	Blind/MIC	DEC3369
	23	Rear Stay L	DNH2969
	24	Rear Stay R	DNH2970
	25	VR Stay L	DNH2971
	26	VR Stay M	DNH2972
	27	Shield Plate/M	DNH2983
	28	Cord Hook	DNK5928
	29	Flange Nut M9	DBN1008
	30	•••••	
	31	•••••	
	32	•••••	
	33	Screw	ABZ30P060FTC
	34	Screw	BBZ30P060FTB
	35	Screw	BBZ30P060FTC
	36	Screw	BPZ30P080FNI
	37	Screw (M3*5)	DBA1340
	38	Screw	PPZ30P080FTB

9.4 PCB LAYER SECTION (2/2)

• Bottom view

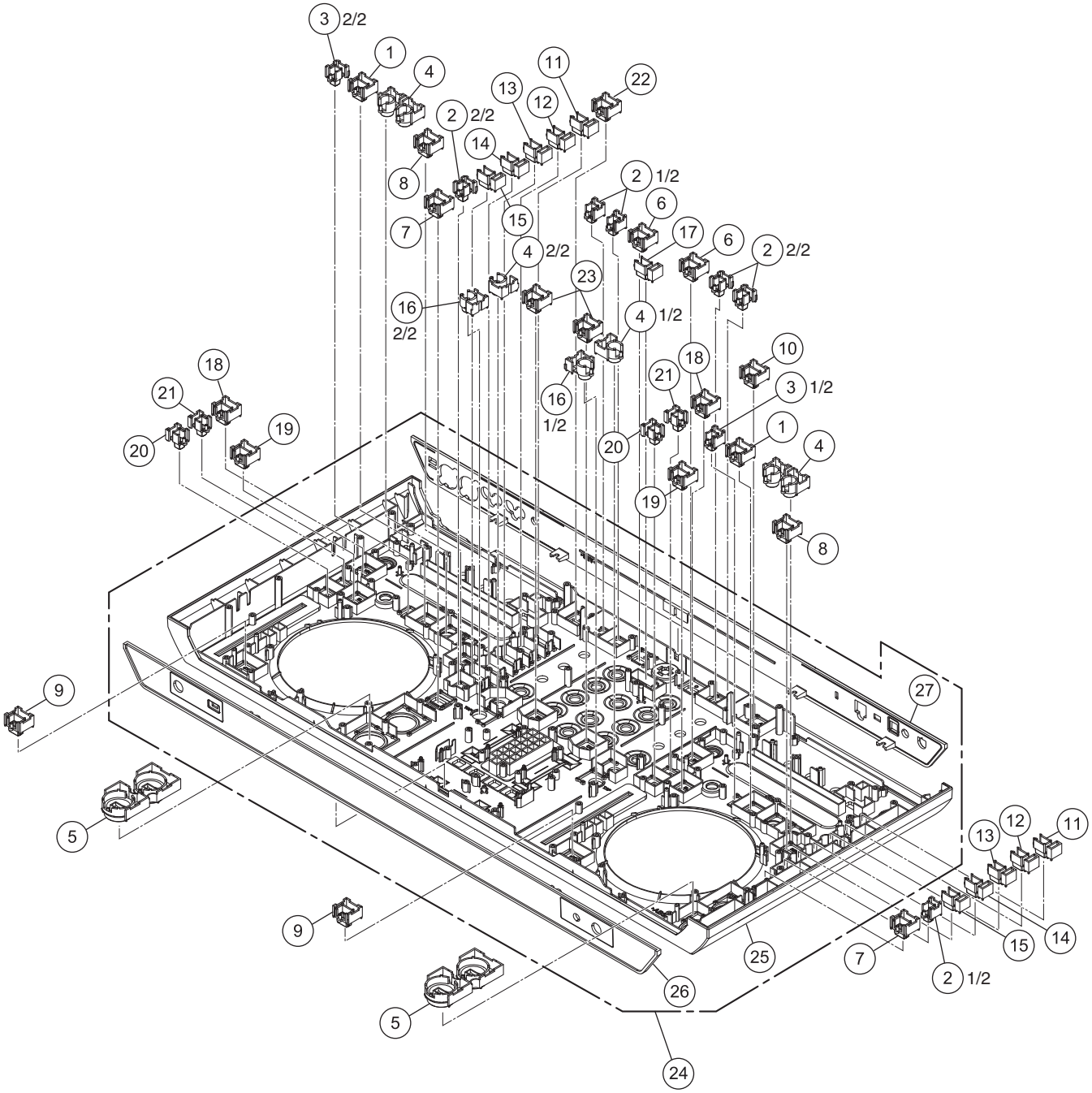
※
Either the CDCA Assy or CDCB Assy is assembled here.
The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.



PCB LAYER SECTION (2/2) SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	PNLA Assy	DWX3231
	2	PNLB Assy	DWX3237
	3	CDCA Assy	DWX3228
	4	CDCB Assy	DWX3229
	5	LEDB Assy	DWX3240
	6	HPJB Assy	DWX3241
	7	MIC2 Assy	DWX3242
	8	LODA Assy	DWX3249
	9	LODB Assy	DWX3250
	10	FFC/21P	DDD1566
	11	FFC/22P	DDD1567
	12	FFC/19P	DDD1568
	13	FFC/22P	DDD1569
NSP	14	Cord with Plug	DE005VF0
	15	Connector Assy	PF08PP-B10
	16	Crimp Connector	PF08PP2B20
	17	Crimp Connector/3P	DKP3908
	18	Crimp Connector/5P	DKP3909
	19	Crimp Connector/4P	DKP3911
	20	SW Cap	DAC2753
	21	Slide Sw Packing (B)	DEC2590
	22	FFC Guard A	DEC3358
	23	FFC Guard B	DEC3359
	24	FFC Guard J	DEC3361
	25	Slit/SV	DEC3368
	26	Front Stay L	DNH2959
	27	Front Stay R	DNH2960
	28	VR Stay S	DNH2964
	29	Shield Plate/A	DNH2979
	30	Lens	DNK5862
	31	CDC Stopper	DNK5863
	32	Cord Clamper (Steel)	RNH-184
	33	Flange Nut M9	DBN1008
	34	Nut M12	DBN1018
	35	•••••	
	36	•••••	
	37	Screw	BBZ30P060FTC
	38	Screw	BPZ30P080FNI
	39	Screw	BPZ30P100FTB

9.5 BUTTON LAYER SECTION



(1) BUTTON LAYER SECTION PARTS LIST

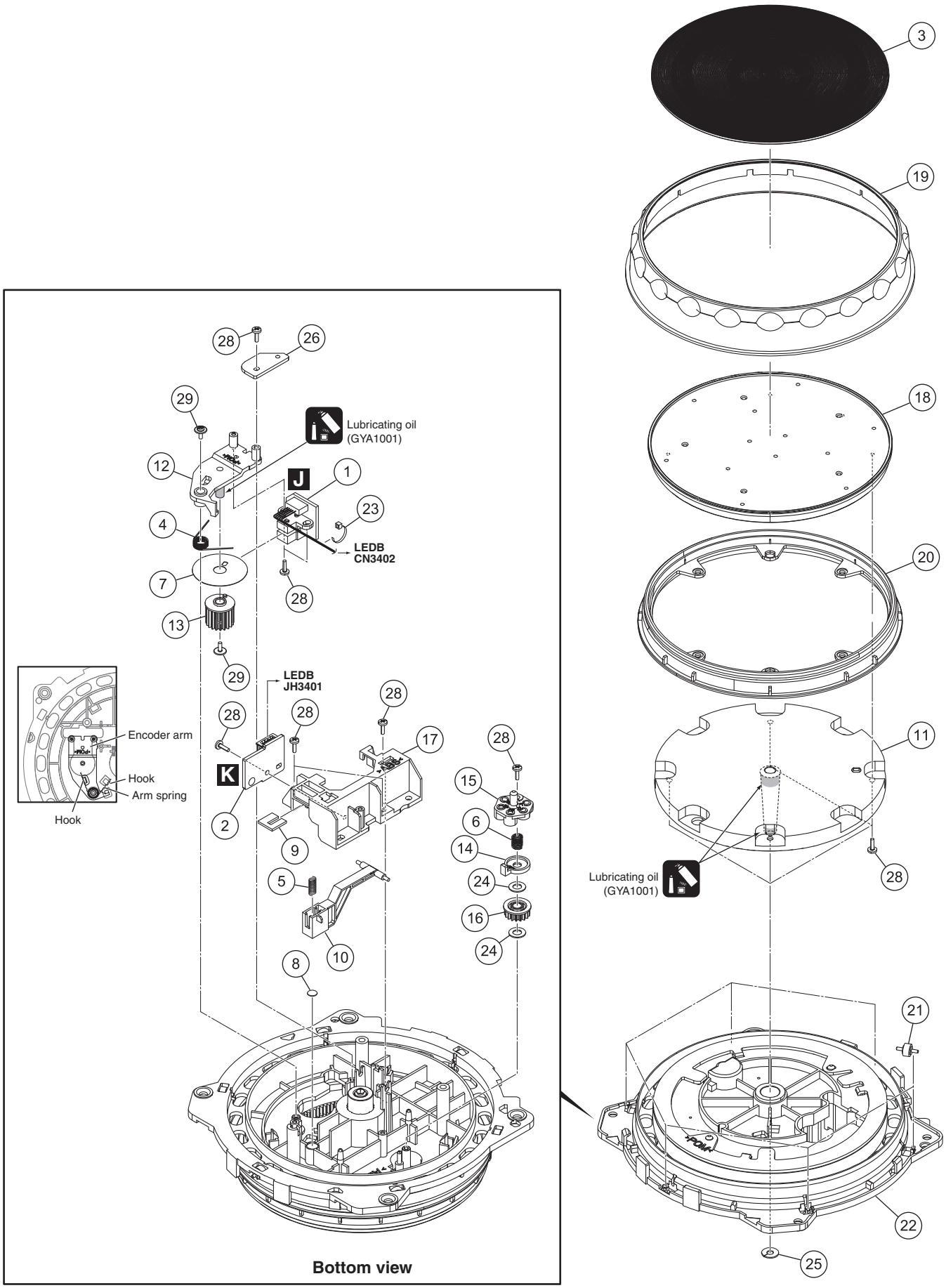
Mark	No.	Description	Part No.
	1	Button L (Opal)	DAC2657
	2	Button S (Opal)	DAC2662
	3	Button S (Black)	DAC2663
	4	Loop Button	DAC2671
	5	Play Button	DAC2682
	6	Button L (Black)	DAC2738
	7	Shift Button	DAC2740
	8	Rev Button	DAC2741
	9	Sync Button	DAC2742
	10	Load A Button	DAC2743
	11	HC1 Button	DAC2744
	12	HC2 Button	DAC2745
	13	HC3 Button	DAC2746
	14	HC4 Button	DAC2747
	15	HC5 Button	DAC2748
	16	TAP Button	DAC2749
	17	Button L Opal 1	DAC2750
	18	Vinyl Button	DAC2751
	19	Slip Button	DAC2752
	20	Button S (Opal) 1H	DAC2754
	21	Button S (Black) 1H	DAC2755
	22	Load B Button	DAC2756
	23	CUE Button	DAC2757
	24	1..Panel Assy/SY	See Contrast table (2)
	25	2..Control Panel	DNK5930
	26	2..Front Panel	DNK5931
	27	2..Rear Panel SY	See Contrast table (2)

(2) CONTRAST TABLE

DDJ-S1/SVYXJ8, UXJCB, FLPXJ, KXJ5 and AXJ5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-S1/ SVYXJ8	DDJ-S1/ UXJCB	DDJ-S1/ FLPXJ	DDJ-S1/ KXJ5	DDJ-S1/ AXJ5
	24	1..Panel Assy/SY	DXB2112	DXB2111	DXB2111	DXB2116	DXB2114
	27	2..Rear Panel SY	DNK5932	DNK5933	DNK5933	DNK5937	DNK5935

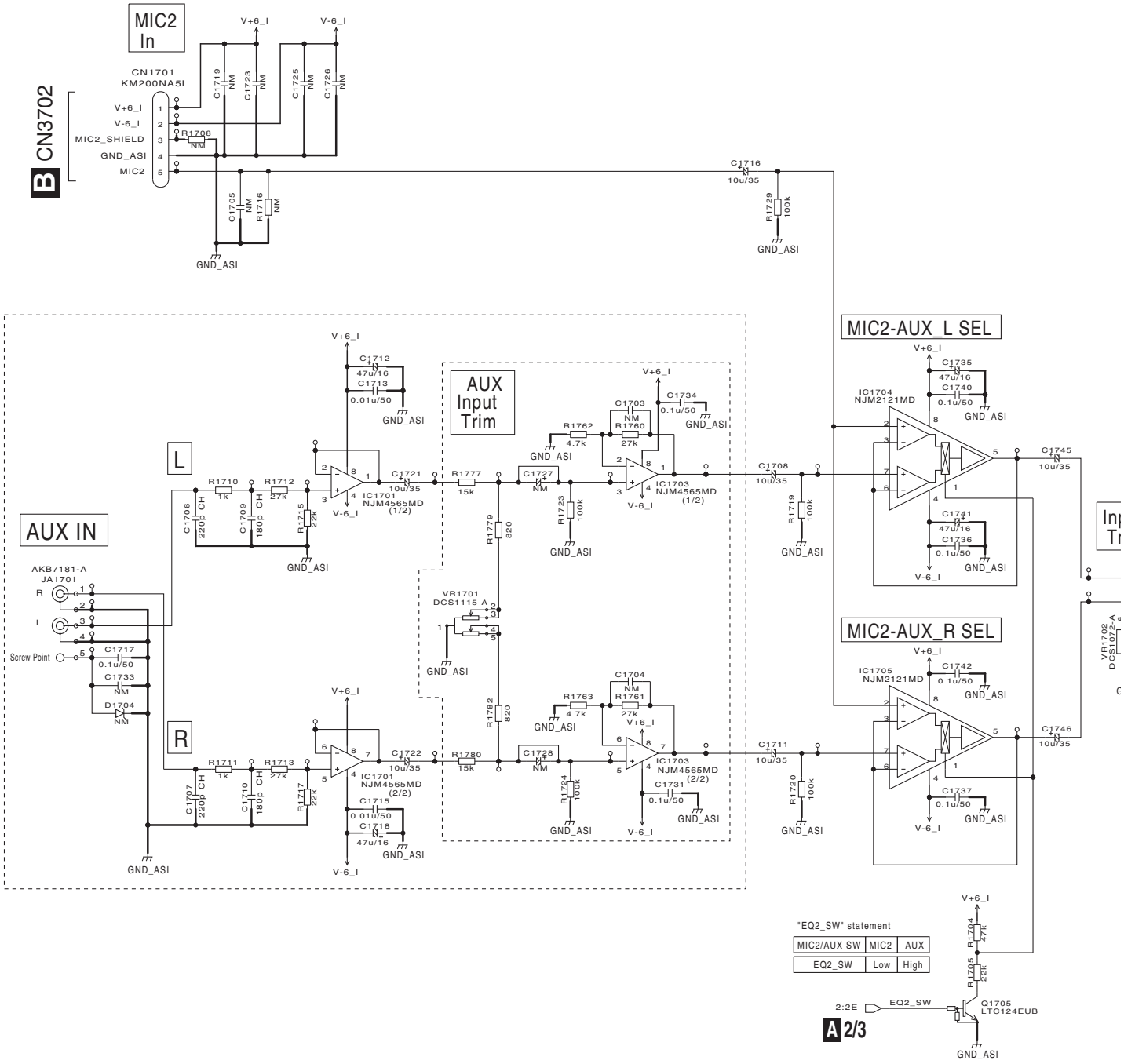
9.6 JOG SECTION



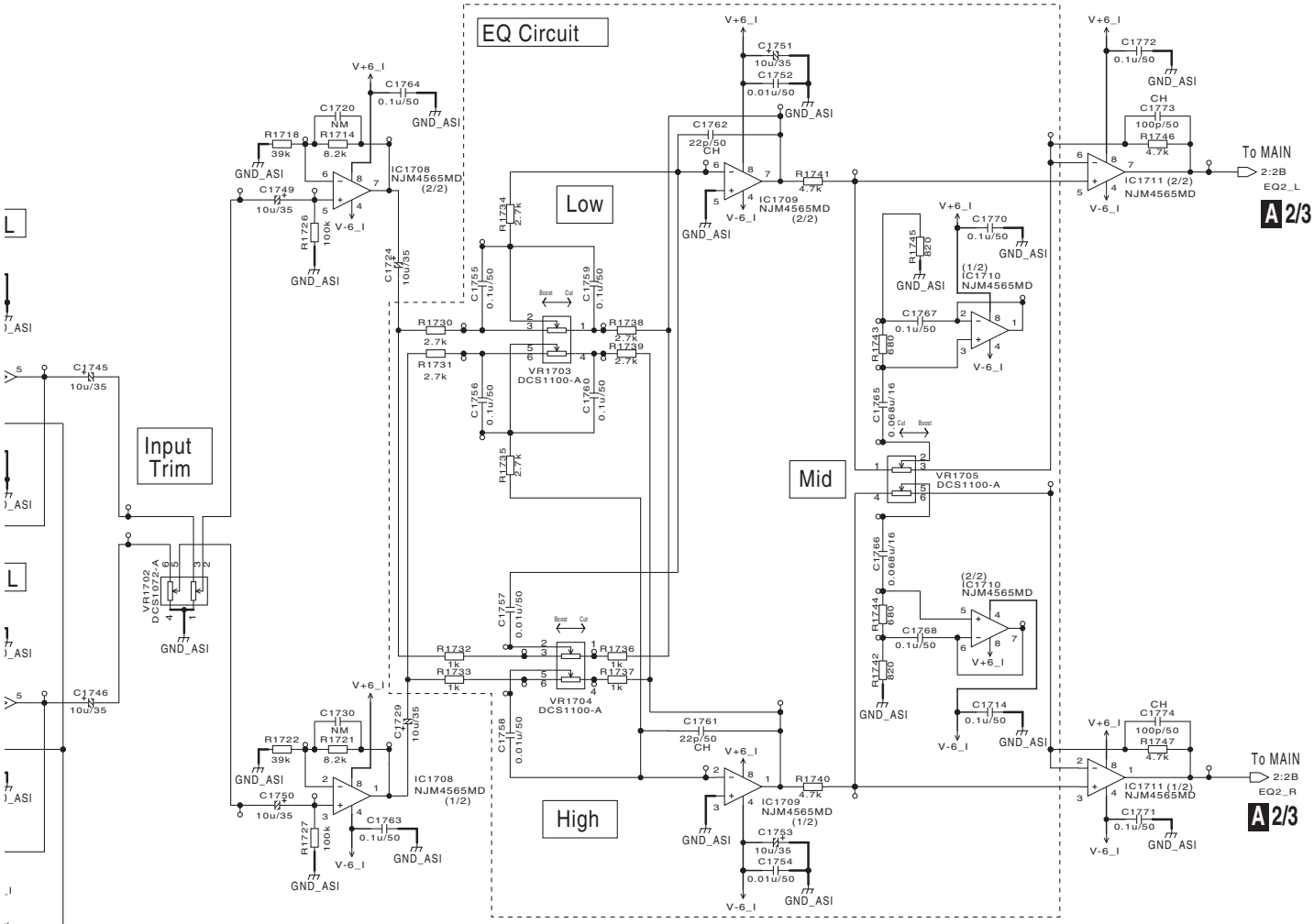
JOG SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	JOGB Assy	DWX3238
	2	TCHB Assy	DWX3239
	3	JOG Plate	DAH2837
	4	Arm Spring	DBH1612
	5	Lever Spring	DBH1626
	6	Load Spring	DBH1676
	7	Encorder Plate	DEC2889
	8	Lever Cushion (A)	DEC3001
	9	Lever Cushion (B)	DEC3002
	10	JOG Lever	DNK4763
	11	JOG Shaft	DNK4934
	12	Encorder Arm	DNK4936
	13	Encorder Gear	DNK4937
	14	Load Smoother	DNK4939
	15	Adjust Plate	DNK4943
	16	Load Gear	DNK5178
	17	Lever Holder	DNK5206
	18	JOG Dial A	DNK5860
	19	JOG Dial B	DNK5861
	20	Ring Lens	DNK5945
	21	Roller B Assy	DXB1877
	22	JOG Holder Assy	DXB2002
	23	Binder	ZCA-SKB90BK
	24	Washer	WA41D070D025
	25	Washer	WT32D080D050
	26	STPB Assy	DWX3280
	27	•••••	
	28	Screw	BPZ20P060FTC
	29	Screw (FE)	DBA1265

10. SCHEMATIC DIAGRAM
10.1 JACK ASSY (1/3)



A 1/3 JACK ASSY (DWX3230)

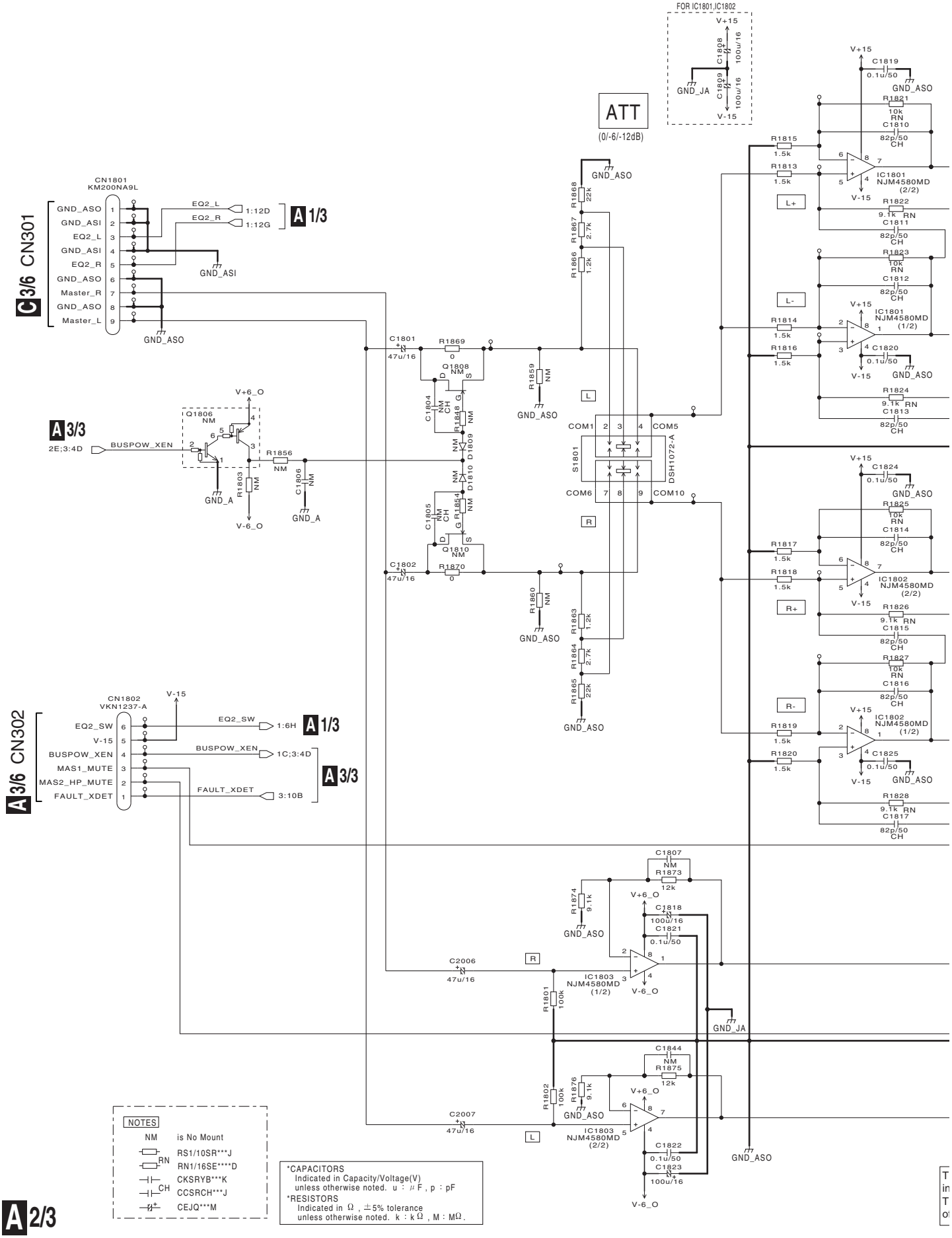


*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

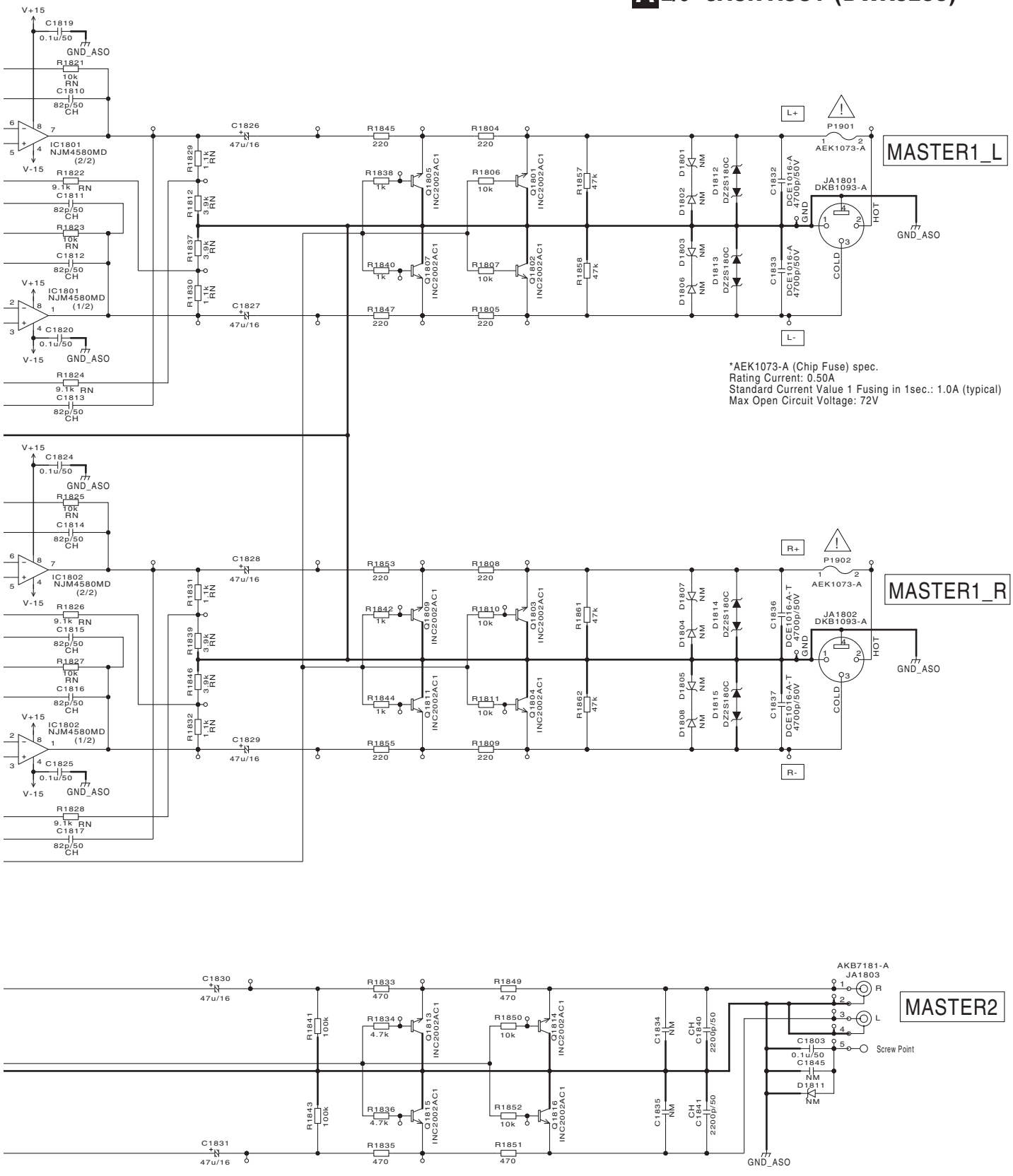
NOTES

NM	is No Mount
	RS1/10SR***J
CH	CKSRYB***K
	CCSRCH***J
	CEJQ***M

10.2 JACK ASSY (2/3)



A 2/3 JACK ASSY (DWX3230)

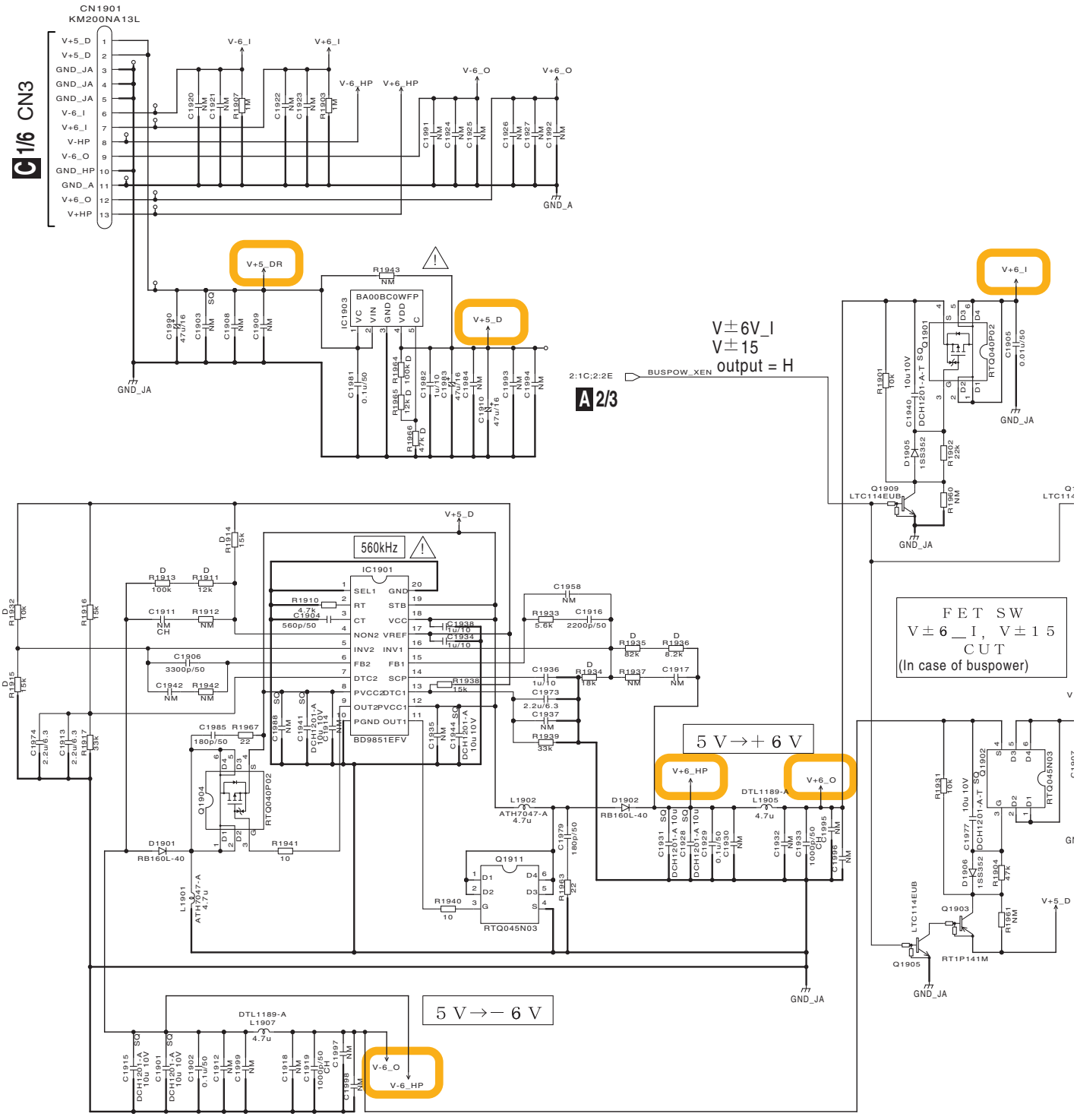


*AEK1073-A (Chip Fuse) spec.
Rating Current: 0.50A
Standard Current Value 1 Fusing in 1sec.: 1.0A (typical)
Max Open Circuit Voltage: 72V

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.

⚠ 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。

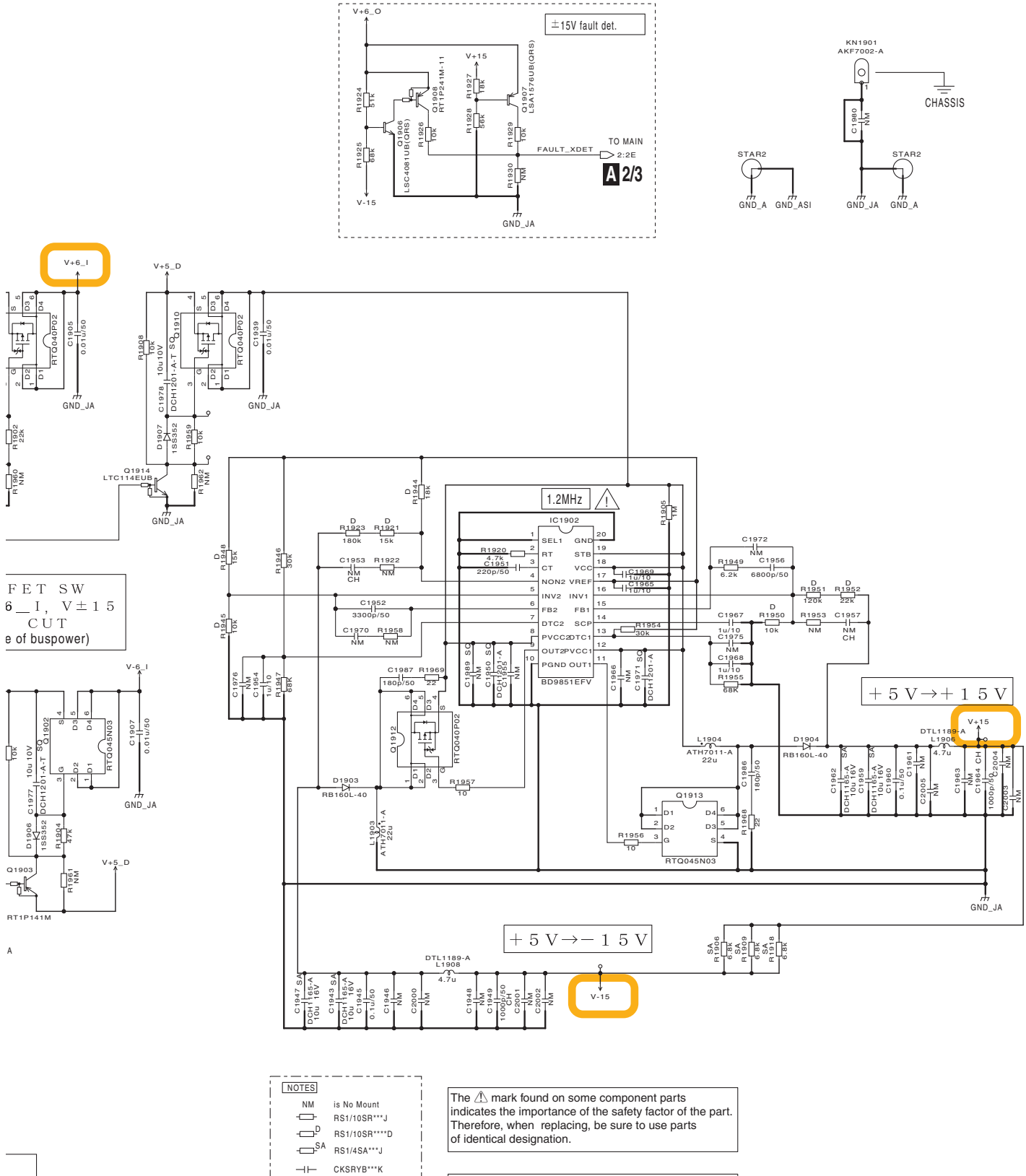
10.3 JACK ASSY (3/3)



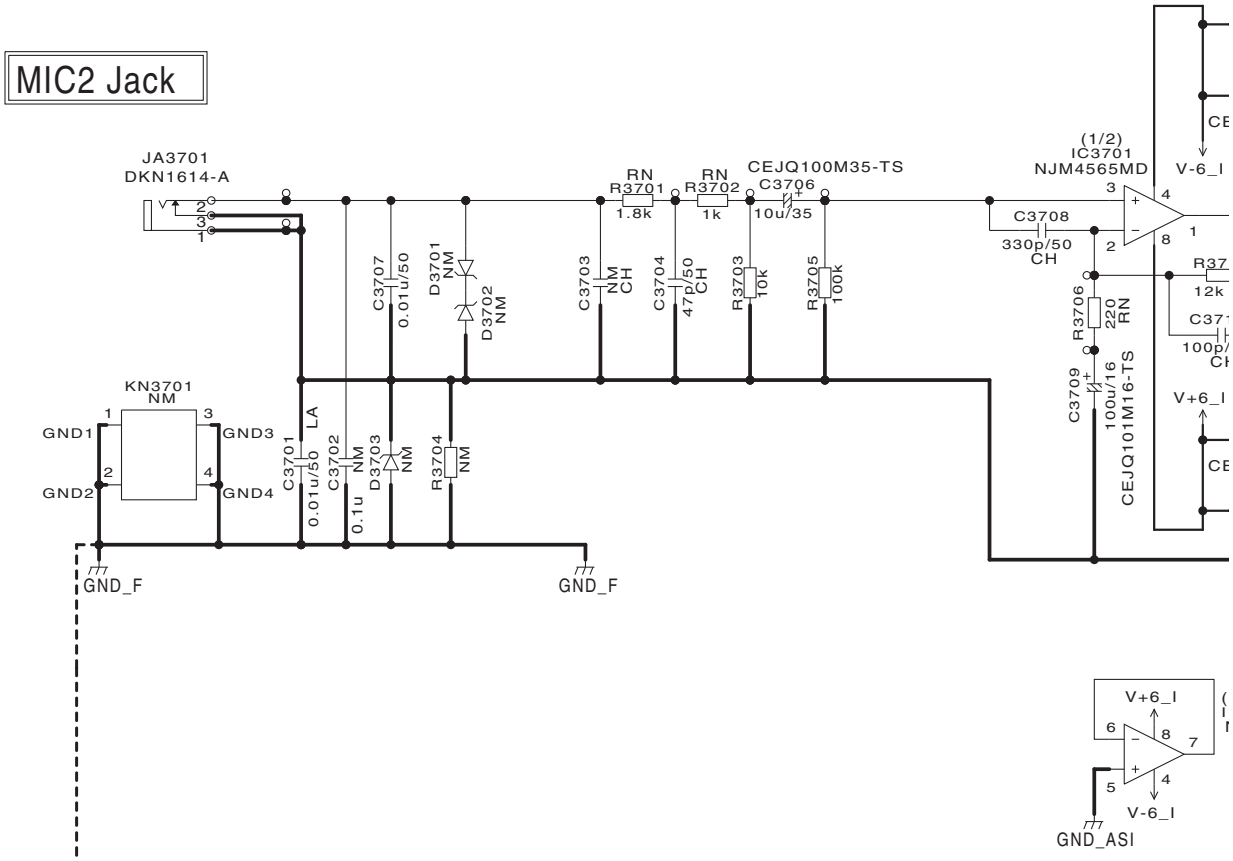
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

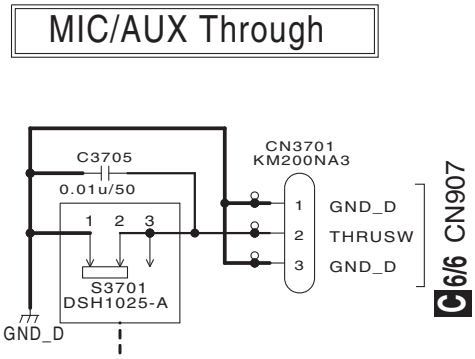
A 3/3

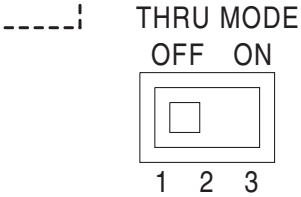
A 3/3 JACK ASSY (DWX3230)



10.4 MIC2 ASSY



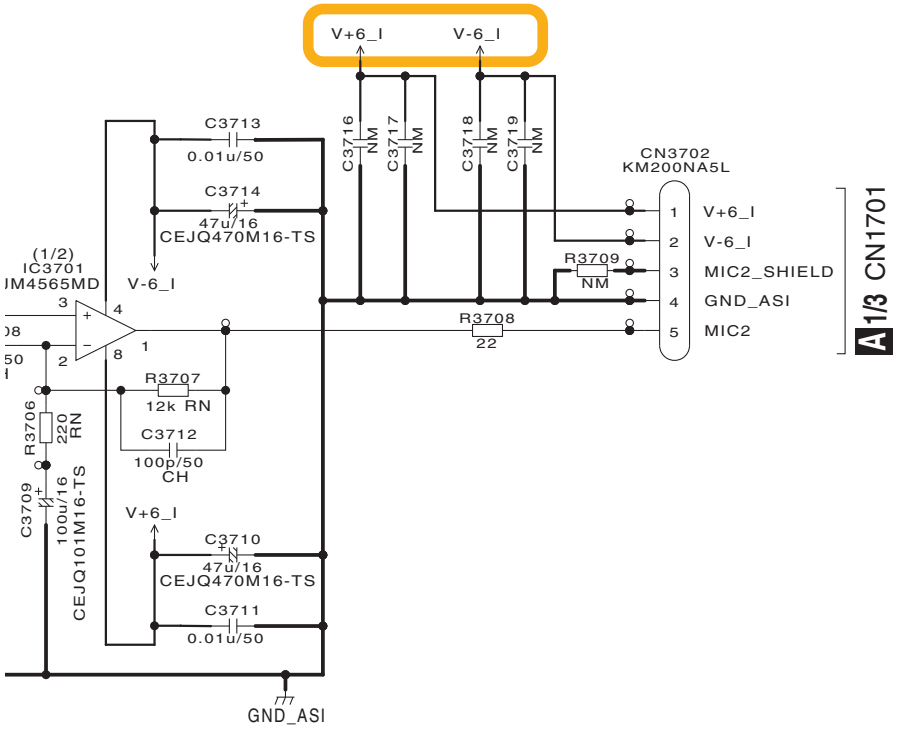


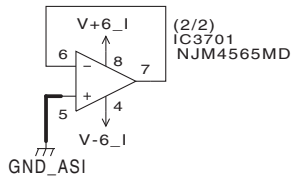


THRU MODE OFF	PC	L
THRU MODE ON	THRU	H

*CAP
Ind
unl
*RES
Inc
un

B MIC2 ASSY (DWX3242)



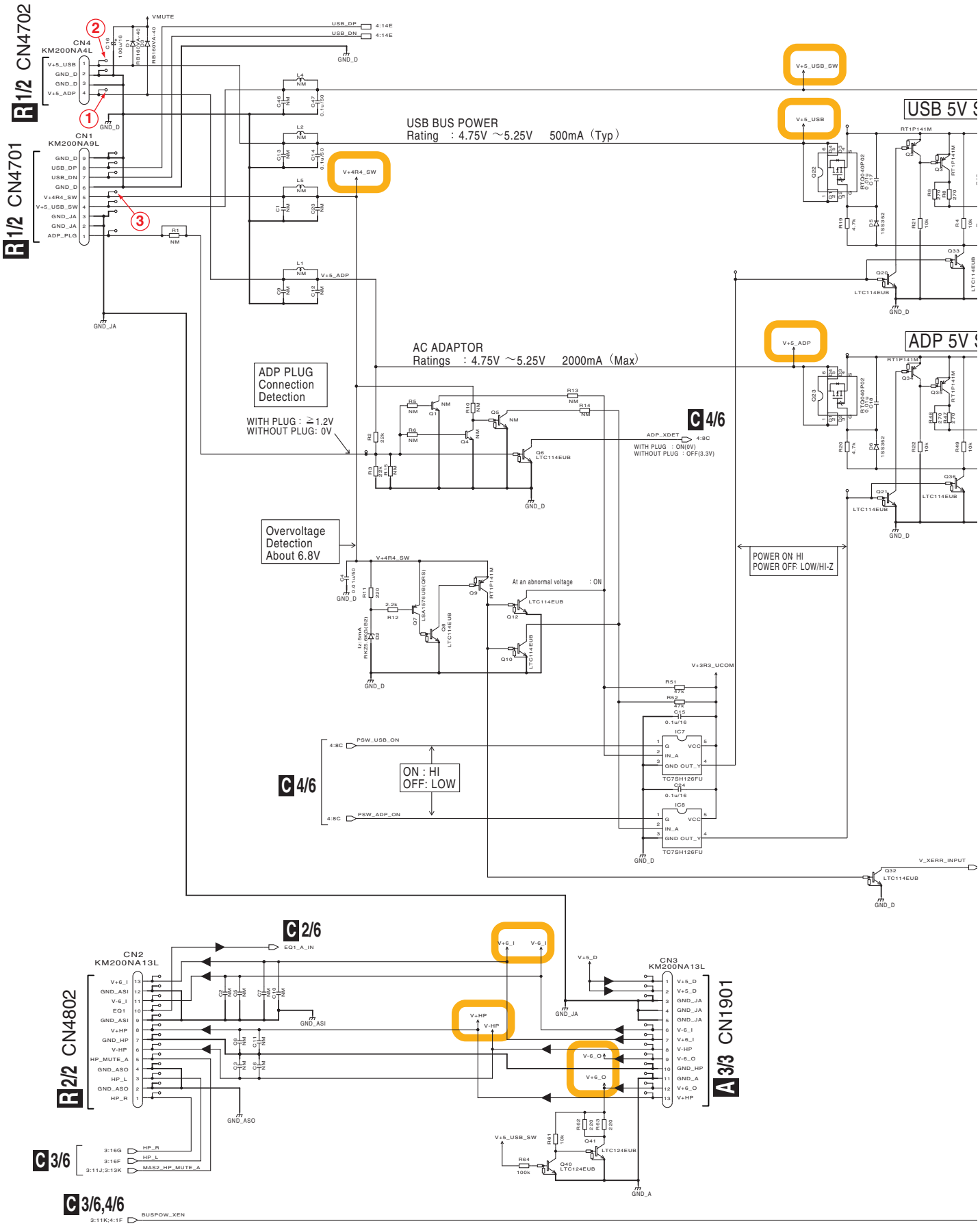


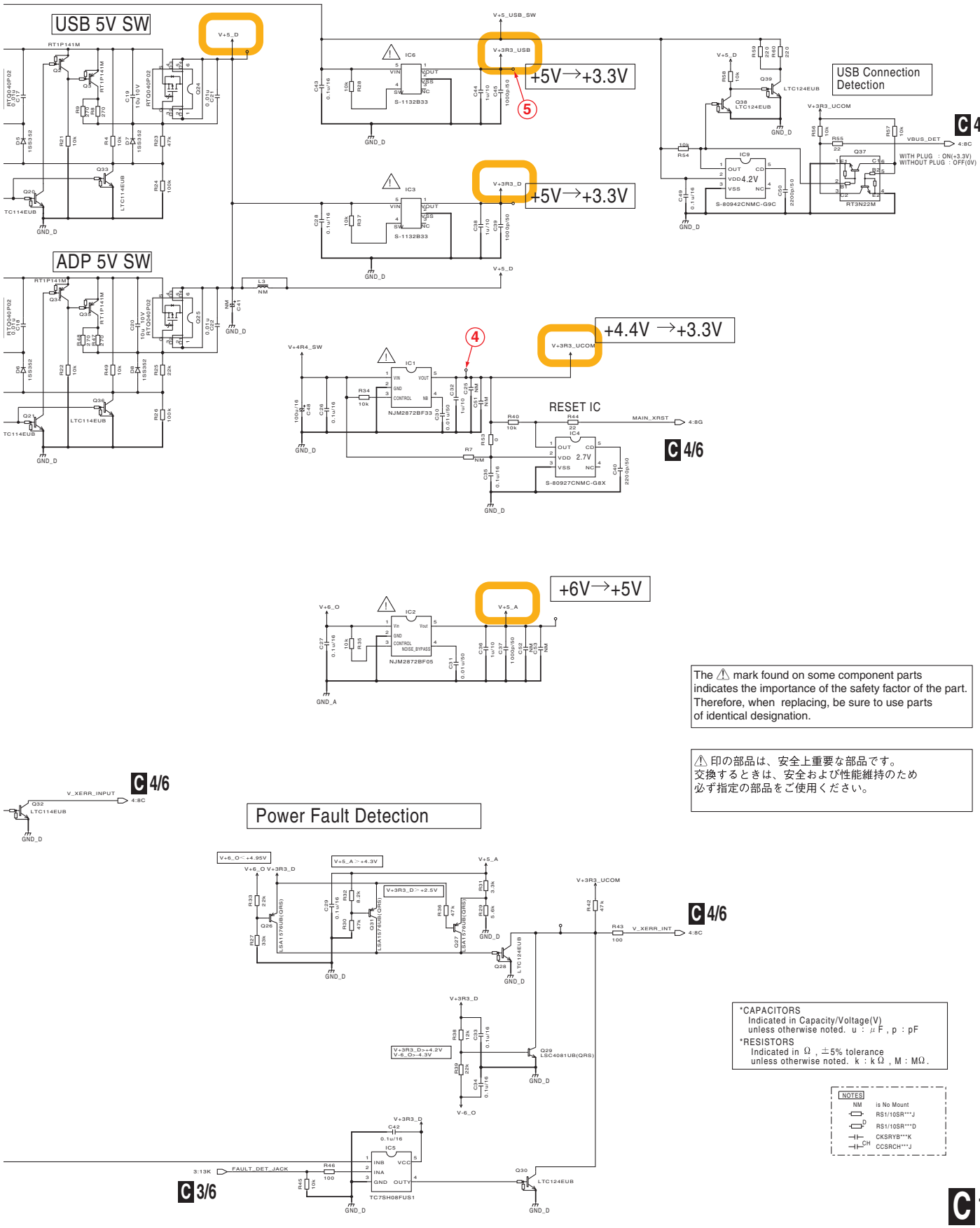
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES

NM	is No Mount
	RS1/10SR***J
RN	RN1/16SE***D
	CKSRYB***K
CH	CCSRCH***J
LA	CFTLA***J

10.5 MAIN ASSY (1/6)





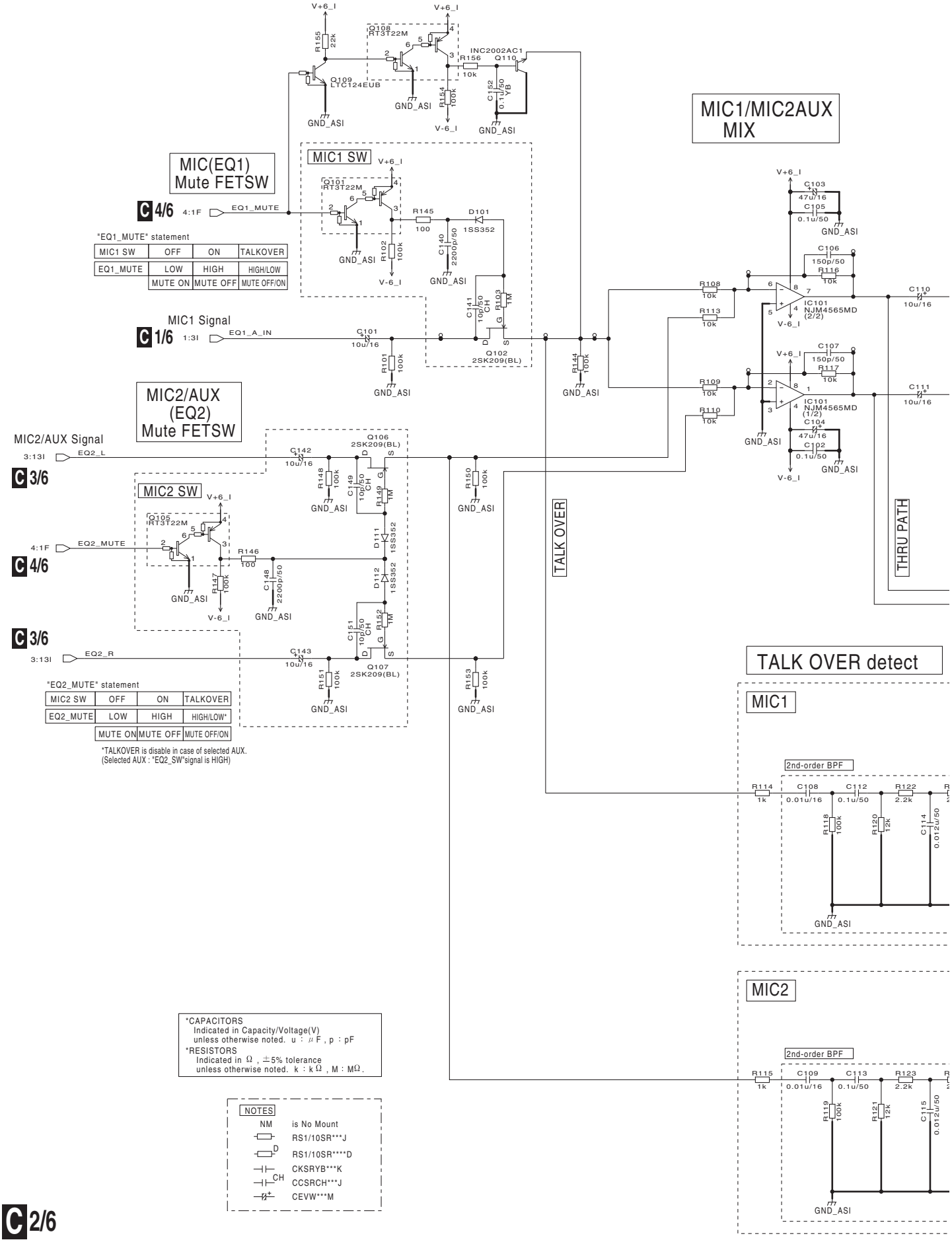
The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

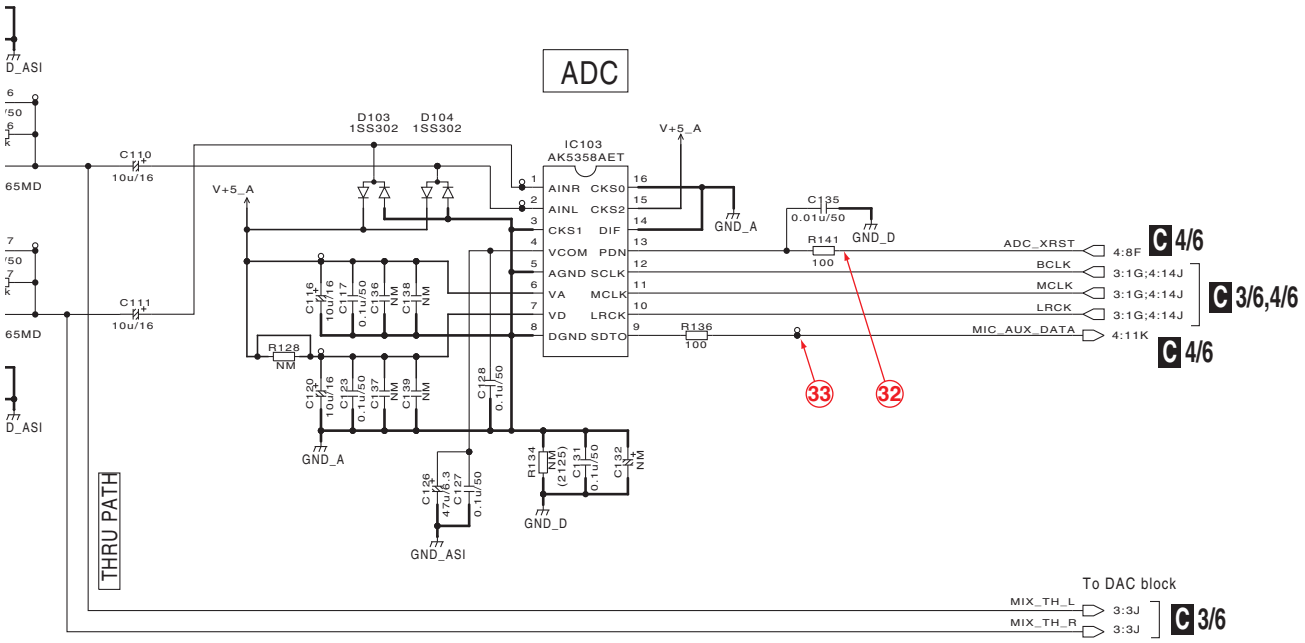
⚠ 印の部品は、安全上重要な部品です。
交換するときは、安全および性能維持のため
必ず指定の部品をご使用ください。

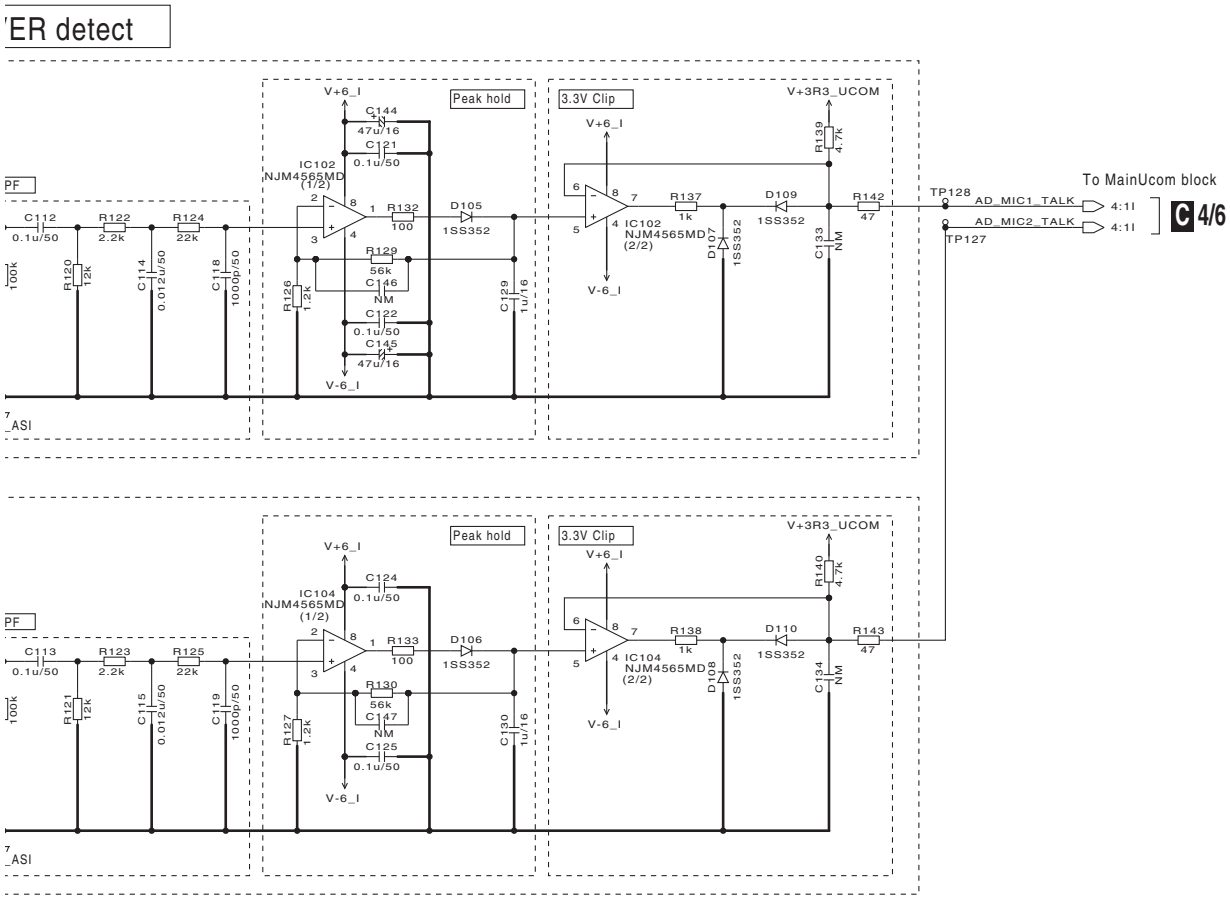
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
NM is No Mount
RS1/10SR***J
RS1/10SR***D
CKSRYB***K
CCSRCH***J

10.6 MAIN ASSY (2/6)

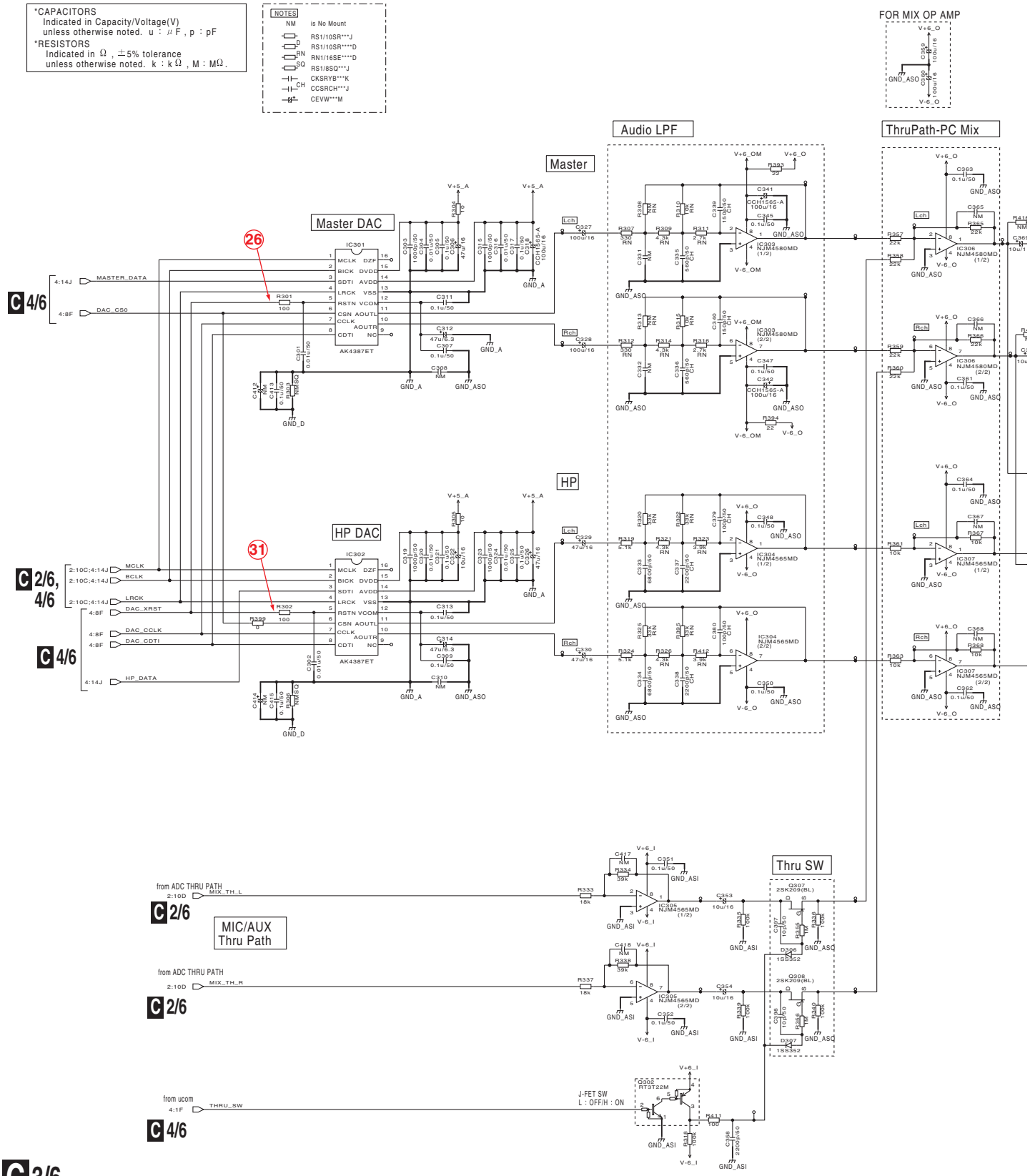


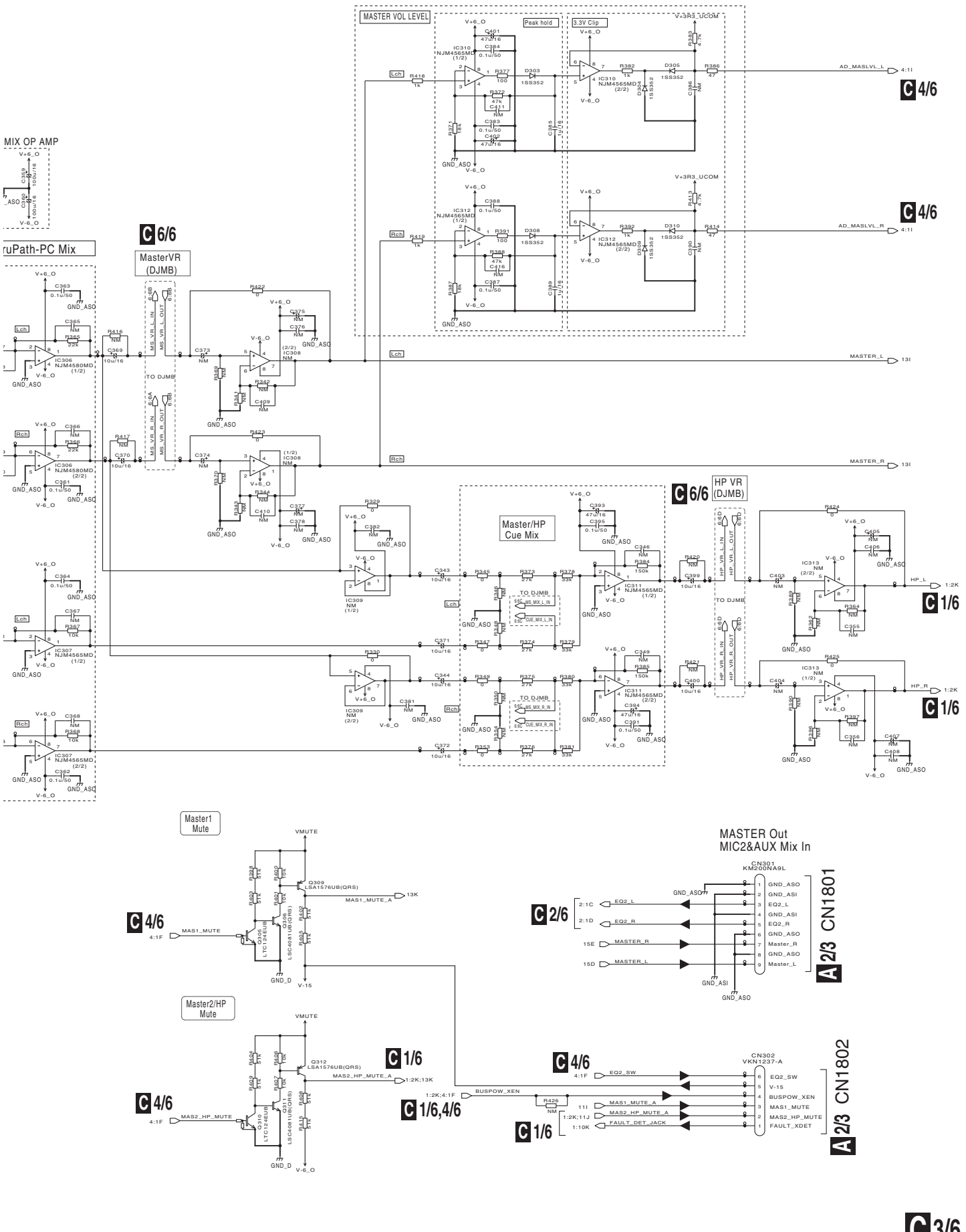

ADC
IC103
AK5358AET
AINR CKS0
AINL CKS2
CKS1 DIF
VCOM PDN
AGND SCLK
VA MCLK
VD LRCK
DGND SDTO
D103 1SS302
D104 1SS302
V+5_A
GND_A
GND_D
GND_ASI
C110 10u/16
C111 10u/16
C135 0.01u/50
R141 100
R136 100
R128 NM
THRU PATH
ADC_XRST 4:8F
BCLK 3:1G;4:14J
MCLK 3:1G;4:14J
LRCK 3:1G;4:14J
MIC_AUX_DATA 4:11K
C 4/6
C 3/6,4/6
C 4/6
To DAC block
MIX_TH_L 3:3J
MIX_TH_R 3:3J
C 3/6


'ER detect
Peak hold
3.3V Clip
V+6_I
V-6_I
V+3R3_UCOM
IC102
NJM4565MD
(1/2)
(2/2)
IC104
NJM4565MD
(1/2)
(2/2)
D105 1SS352
D109 1SS352
D107 1SS352
D106 1SS352
D110 1SS352
D108 1SS352
TP128
TP127
AD_MIC1_TALK 4:1I
AD_MIC2_TALK 4:1I
To MainUcom block
C 4/6

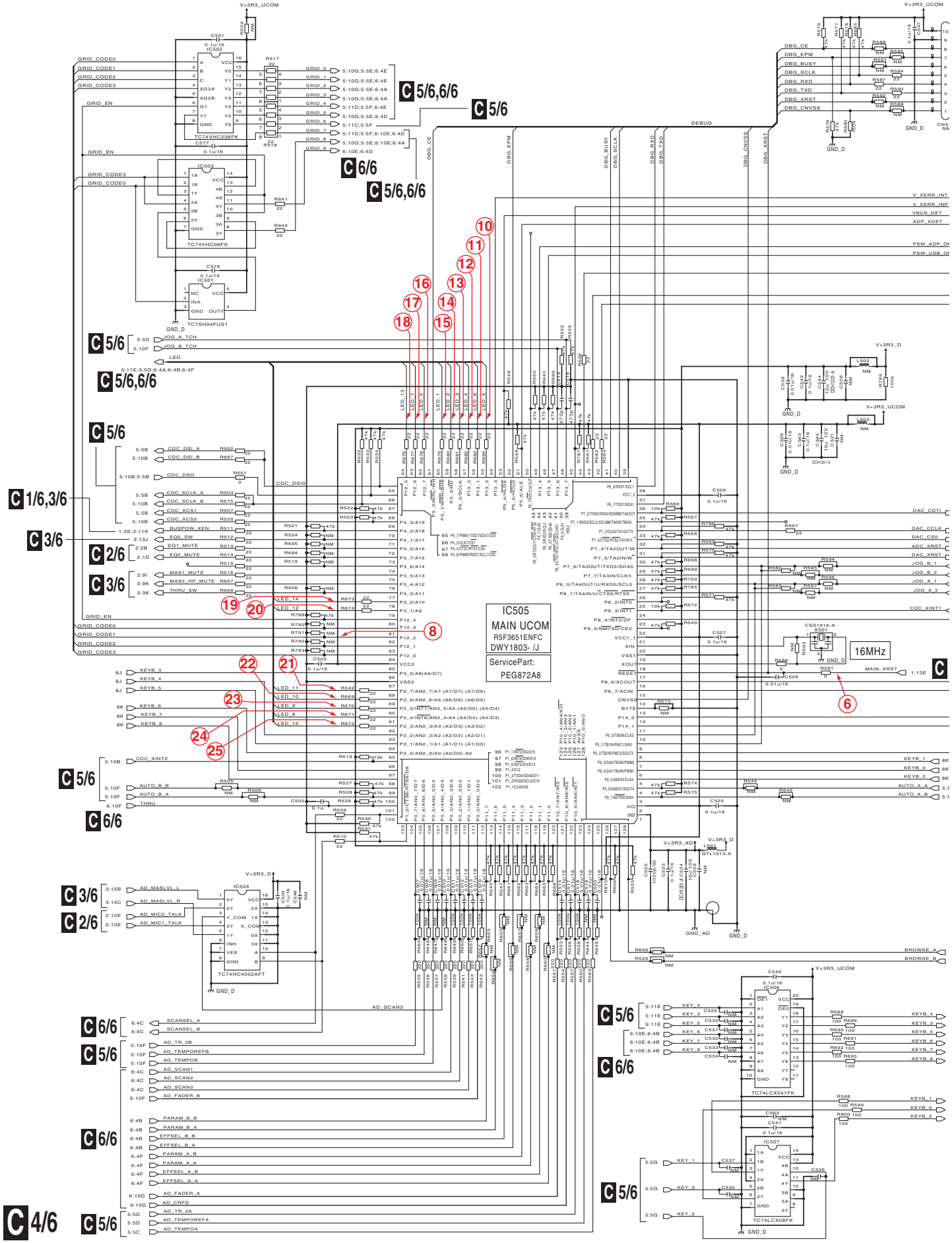
10.7 MAIN ASSY (3/6)

C 3/6 MAIN ASSY (DWX3227)

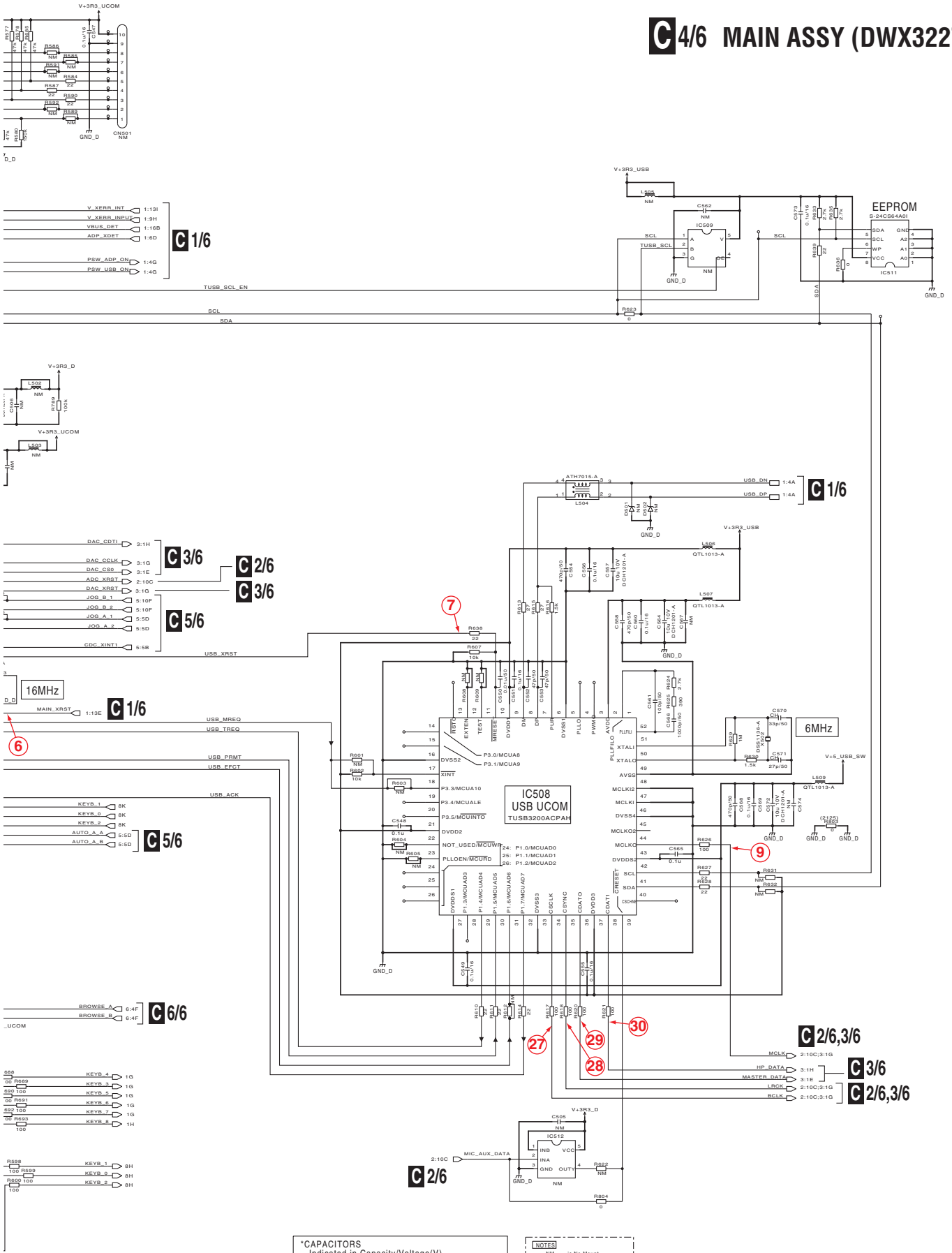



MASTER VOL LEVEL
Peak hold
3.3V Clip
V+3R3_UCOM
IC310 NJM4565MD (1/2)
IC312 NJM4565MD (1/2)
IC311 NJM4565MD (1/2)
IC306 NJM4580MD (1/2)
IC307 NJM4565MD (1/2)
IC308 NM (1/2)
IC309 NM (1/2)
Lch
Rch
AD_MASLVL_L
AD_MASLVL_R
MIX OP AMP
C 6/6
MasterVR (DJMB)
uPath-PC Mix
TO DJMB
MASTER_L
MASTER_R
Master/HP Cue Mix
C 6/6
HP VR (DJMB)
HP_L
HP_R
1:2K
C 1/6
Master1 Mute
Master2/HP Mute
VMUTE
MAS1_MUTE_A
MAS2_HP_MUTE_A
MAS1_MUTE
MAS2_HP_MUTE
MASTER Out
MIC2&AUX Mix In
CN301 KM200NA9L
CN302 VKN1237-A
A 2/3 CN1801
A 2/3 CN1802
EQ2_L
EQ2_R
MASTER_R
MASTER_L
EQ2_SW
BUSPOW_XEN
FAULT_DET_JACK
C 4/6
C 2/6
C 1/6,4/6
C 3/6

10.8 MAIN ASSY (4/6)



C 4/6 MAIN ASSY (DWX3227)

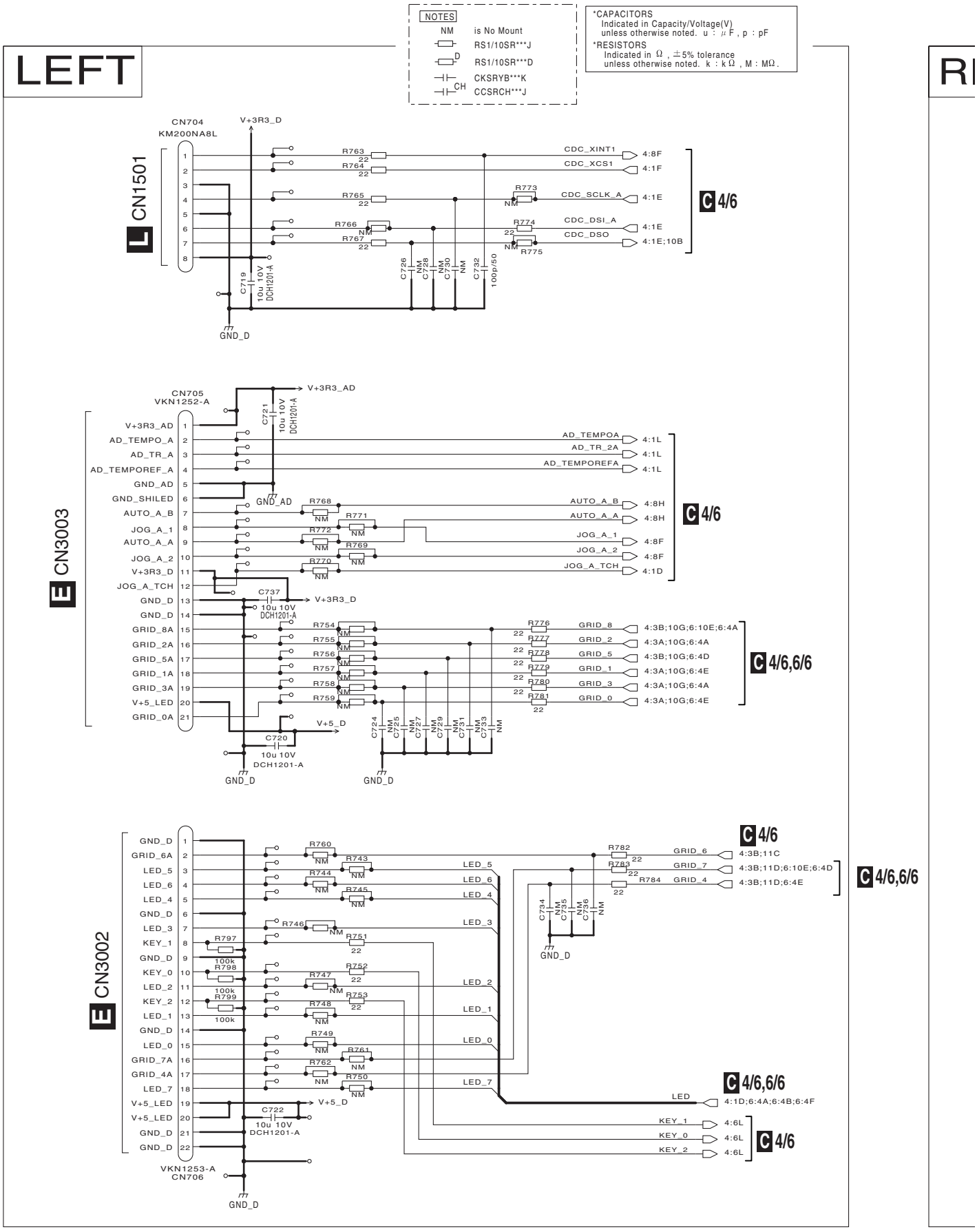


*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
NM is No Mount
RS1/10SR***J
RS1/10SR***D
CKSRYB***K
CCSRCH***J

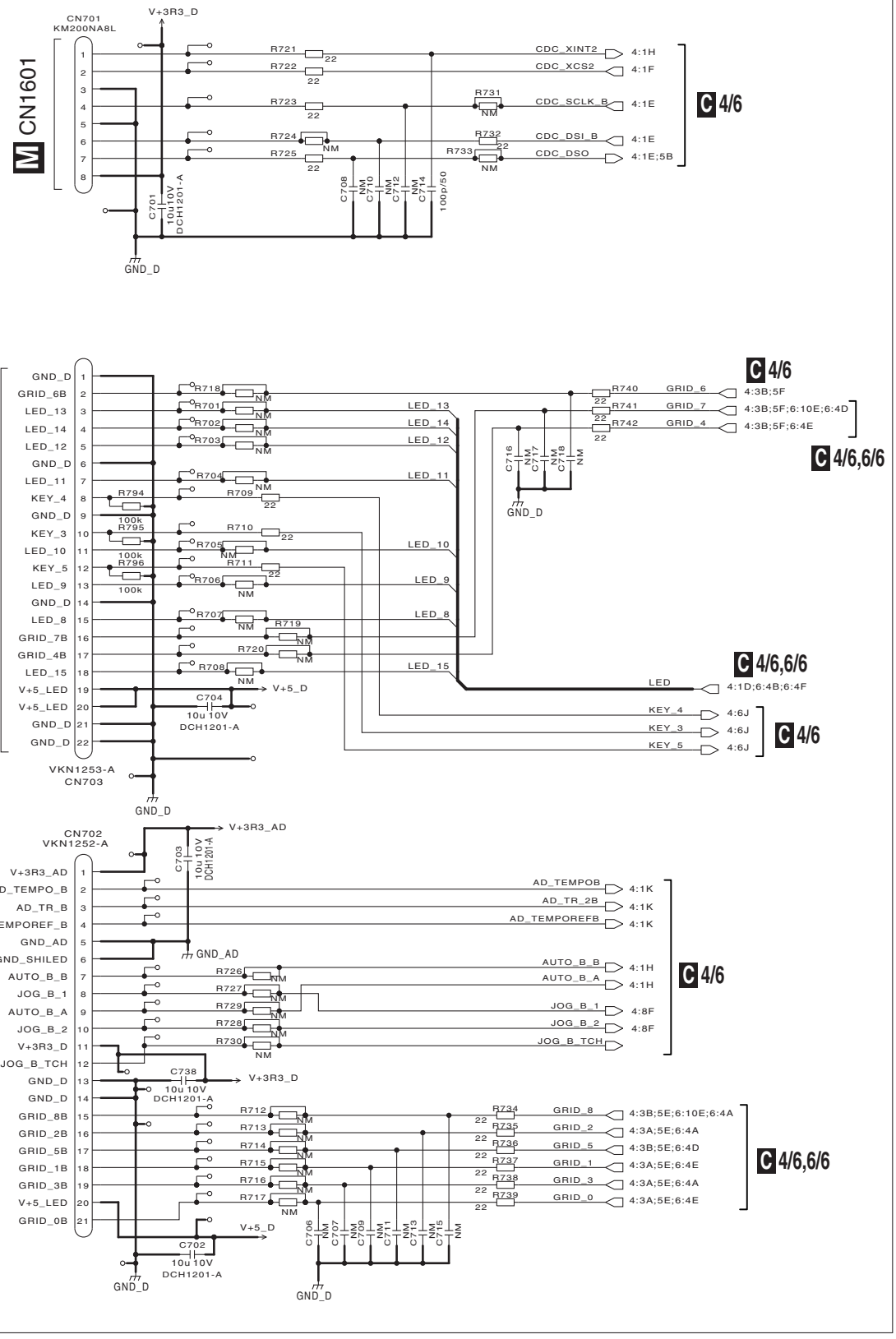
C 4/6

10.9 MAIN ASSY (5/6)

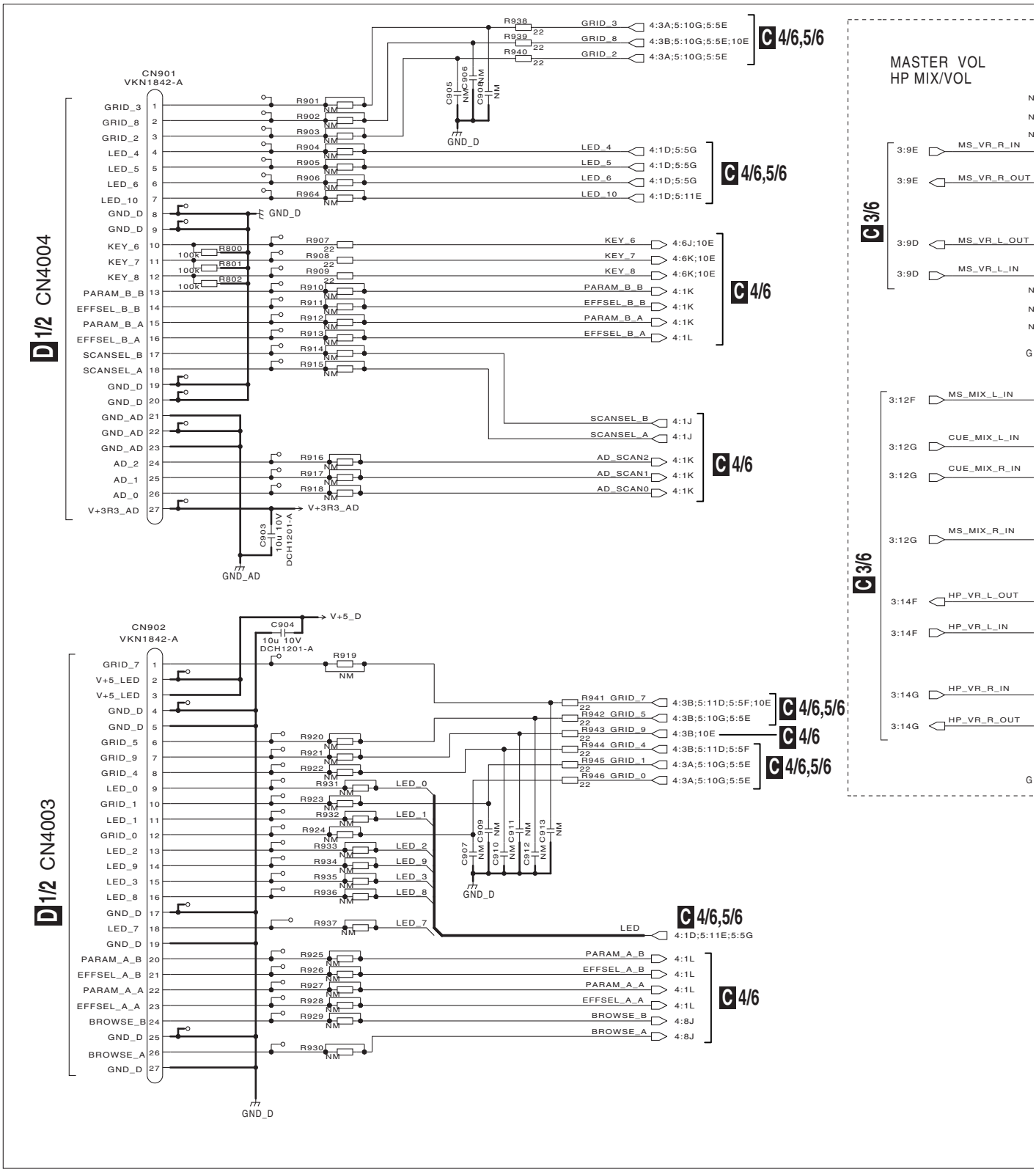


C 5/6

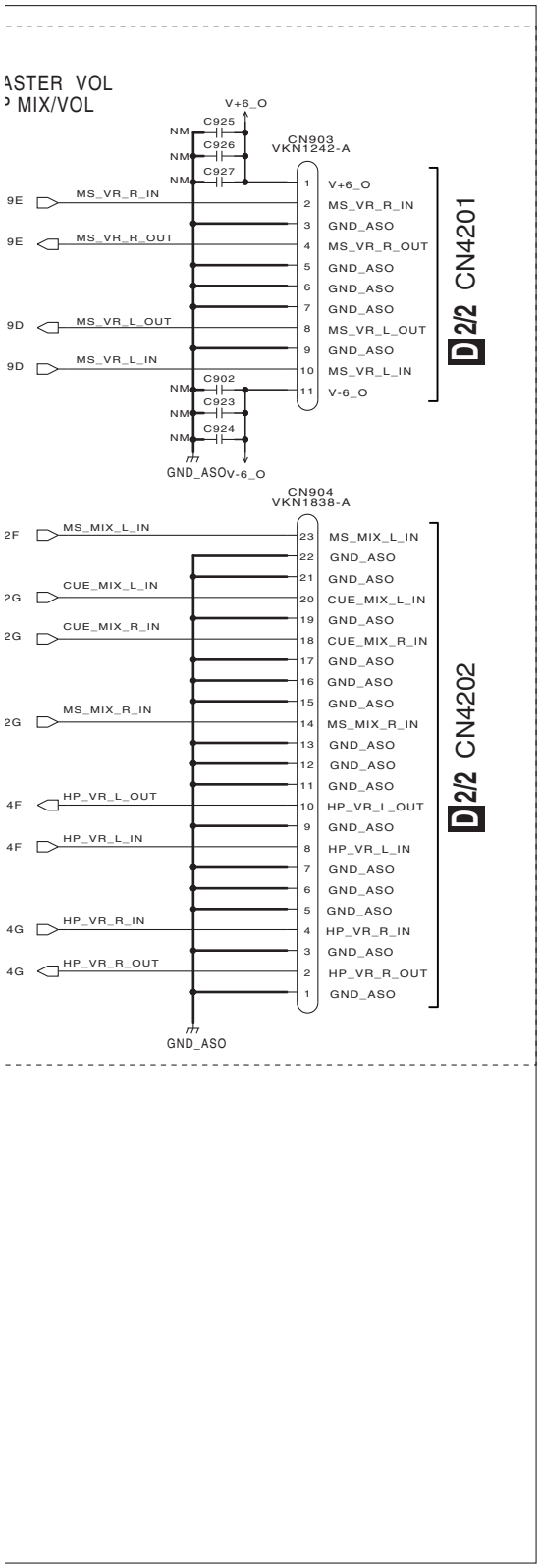
RIGHT

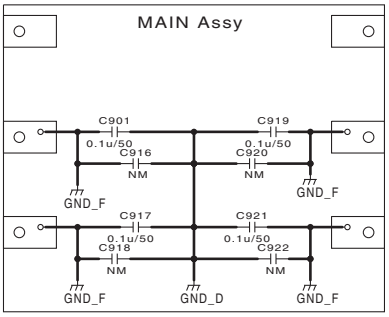

M CN1601
CN701
KM200NA8L
V+3R3_D
R721 22
R722 22
R723 22
R724 NM
R725 22
R731 NM
R732 22
R733 NM
CDC_XINT2
CDC_XCS2
CDC_SCLK_B
CDC_DSI_B
CDC_DSO
4:1H
4:1F
4:1E
4:1E
4:1E;5B
C 4/6
C701 10u 10V DCH1201-A
C708 NM
C710 NM
C712 NM
C714 NM
100p/50
GND_D
F CN3002
VKN1253-A
CN703
GND_D
GRID_6B
LED_13
LED_14
LED_12
LED_11
KEY_4
KEY_3
LED_10
KEY_5
LED_9
LED_8
GRID_7B
GRID_4B
LED_15
V+5_LED
R794 100k
R795 100k
R796 100k
R718 NM
R701 NM
R702 NM
R703 NM
R704 NM
R709 22
R710 22
R705 NM
R711 22
R706 NM
R707 NM
R719 NM
R720 NM
R708 NM
C704 10u 10V DCH1201-A
V+5_D
LED_13
LED_14
LED_12
LED_11
LED_10
LED_9
LED_8
LED_15
R740 22
R741 22
R742 22
GRID_6
GRID_7
GRID_4
4:3B;5F
4:3B;5F;6:10E;6:4D
4:3B;5F;6:4E
C 4/6
C 4/6,6/6
C716 NM
C717 NM
C718 NM
C719 NM
GND_D
LED
4:1D;6:4B;6:4F
C 4/6,6/6
KEY_4
KEY_3
KEY_5
4:6J
4:6J
4:6J
C 4/6
F CN3003
CN702
VKN1252-A
V+3R3_AD
AD_TEMPO_B
AD_TR_B
AD_TEMPOREF_B
GND_AD
GND_SHILED
AUTO_B_B
JOG_B_1
AUTO_B_A
JOG_B_2
V+3R3_D
JOG_B_TCH
GND_D
GND_D
GRID_8B
GRID_2B
GRID_5B
GRID_1B
GRID_3B
V+5_LED
GRID_0B
C703 10u 10V DCH1201-A
GND_AD
R726 NM
R727 NM
R729 NM
R728 NM
R730 NM
AD_TEMPOB
AD_TR_2B
AD_TEMPOREFB
AUTO_B_B
AUTO_B_A
JOG_B_1
JOG_B_2
JOG_B_TCH
4:1K
4:1K
4:1K
4:1H
4:1H
4:8F
4:8F
C 4/6
C738 10u 10V DCH1201-A
V+3R3_D
R712 NM
R713 NM
R714 NM
R715 NM
R716 NM
R717 NM
R734 22
R735 22
R736 22
R737 22
R738 22
R739 22
GRID_8
GRID_2
GRID_5
GRID_1
GRID_3
GRID_0
4:3B;5E;6:10E;6:4A
4:3A;5E;6:4A
4:3B;5E;6:4D
4:3A;5E;6:4E
4:3A;5E;6:4A
4:3A;5E;6:4E
C 4/6,6/6
C702 10u 10V DCH1201-A
V+5_D
GND_D
C706 NM
C707 NM
C709 NM
C711 NM
C713 NM
C715 NM
GND_D
C 4/6,6/6

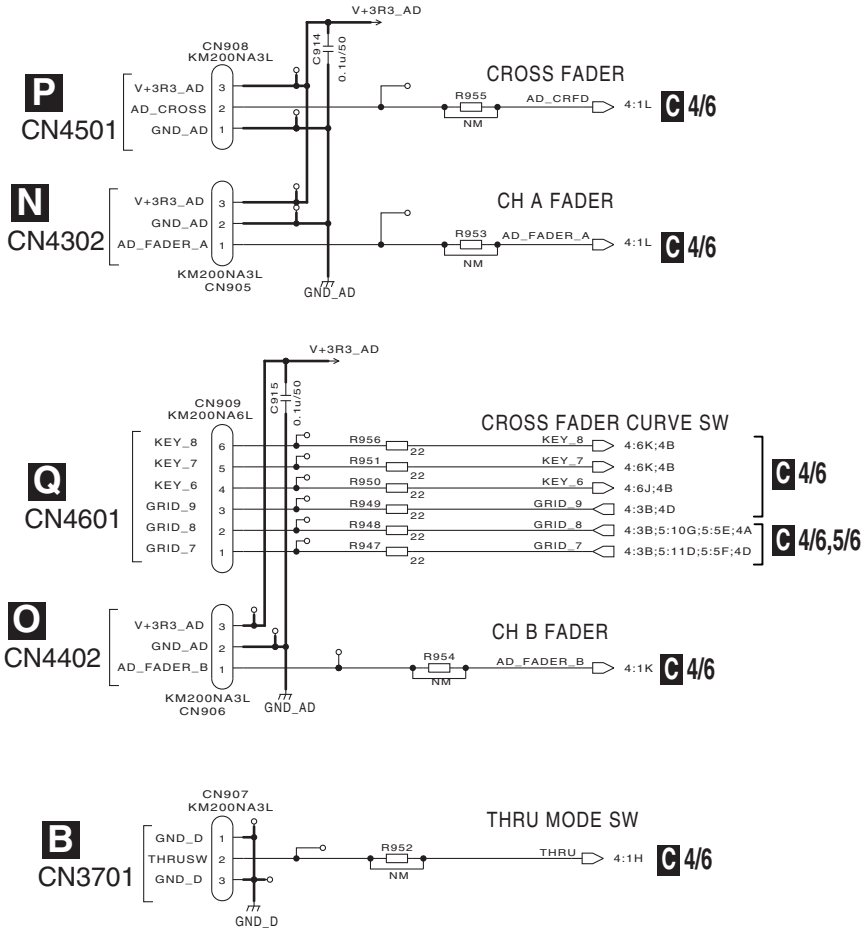
10.10 MAIN ASSY (6/6)



C 6/6



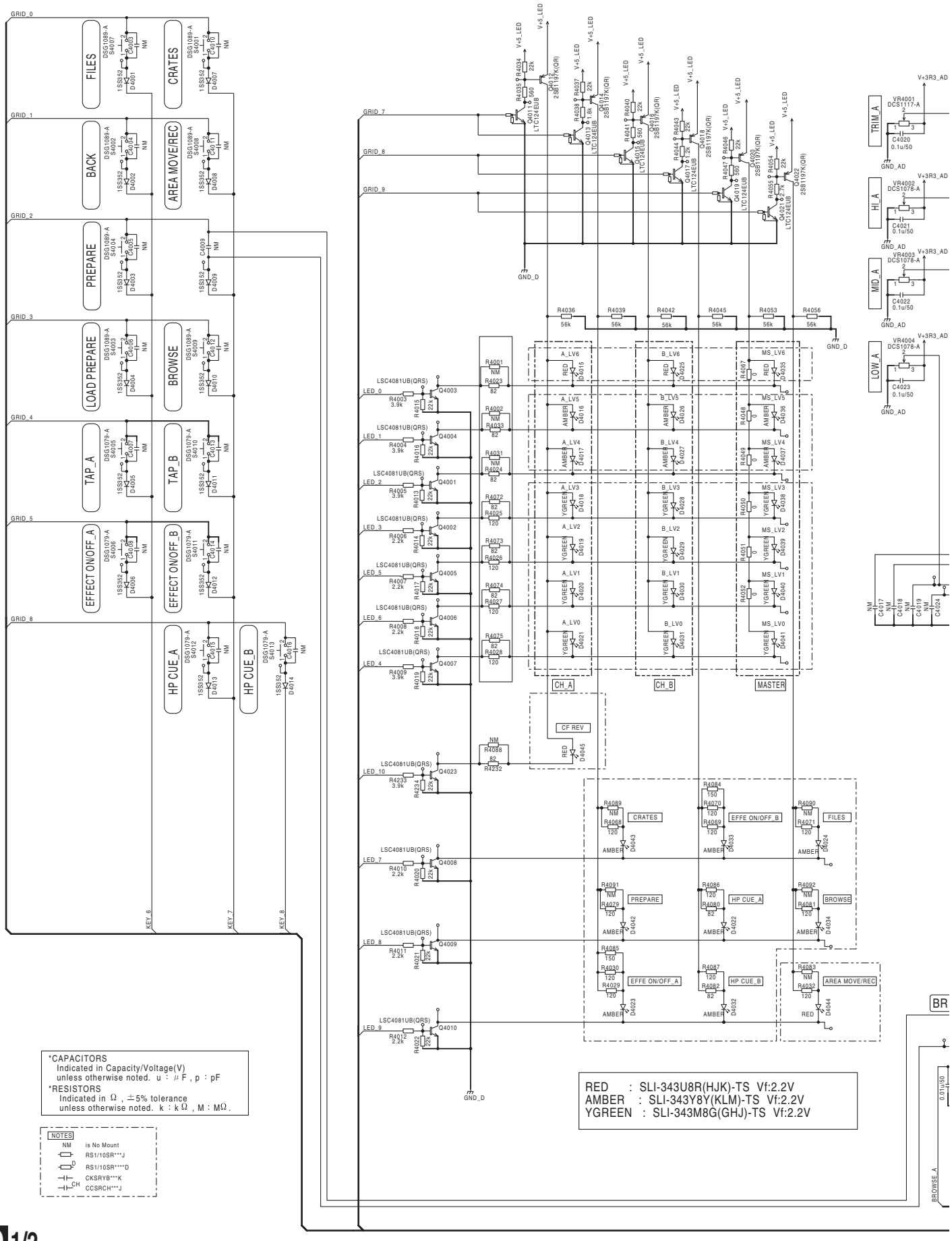




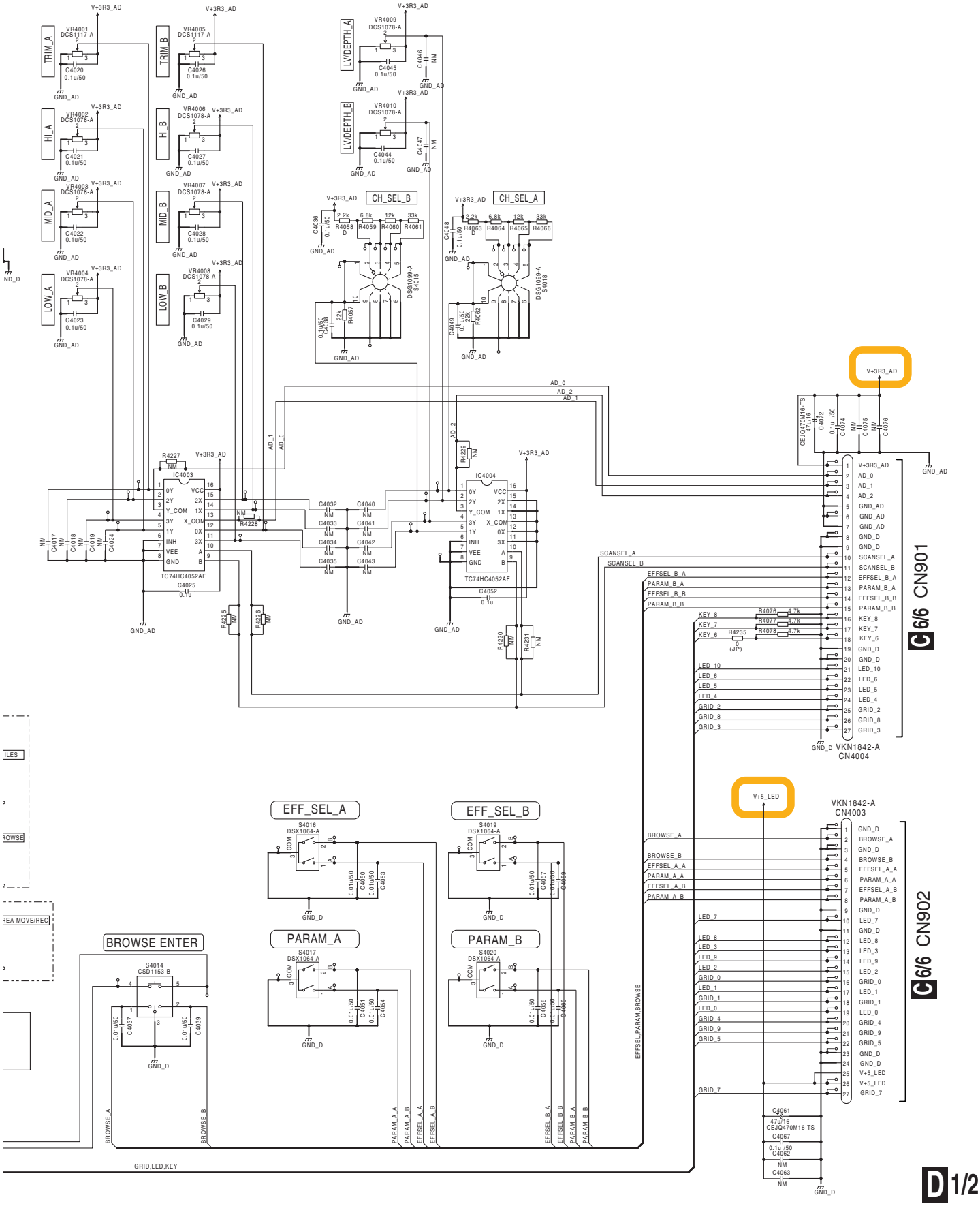
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
NM is No Mount
RS1/10SR***J
D RS1/10SR***D
CH CKSRYB***K
CCSRCH***J

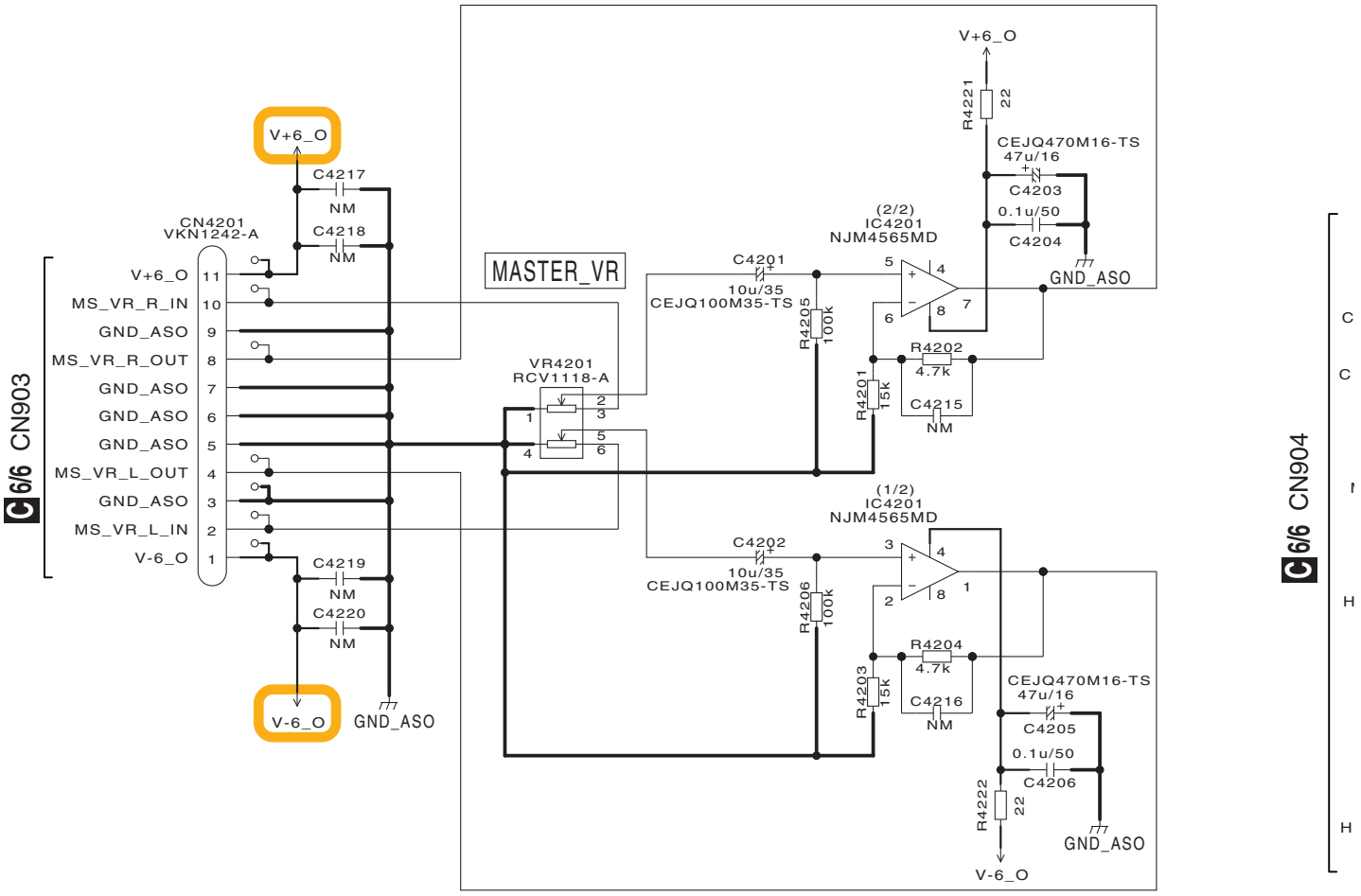
10.11 DJMB ASSY (1/2)



D 1/2 DJMB ASSY (DWX3243)



10.12 DJMB ASSY (2/2)

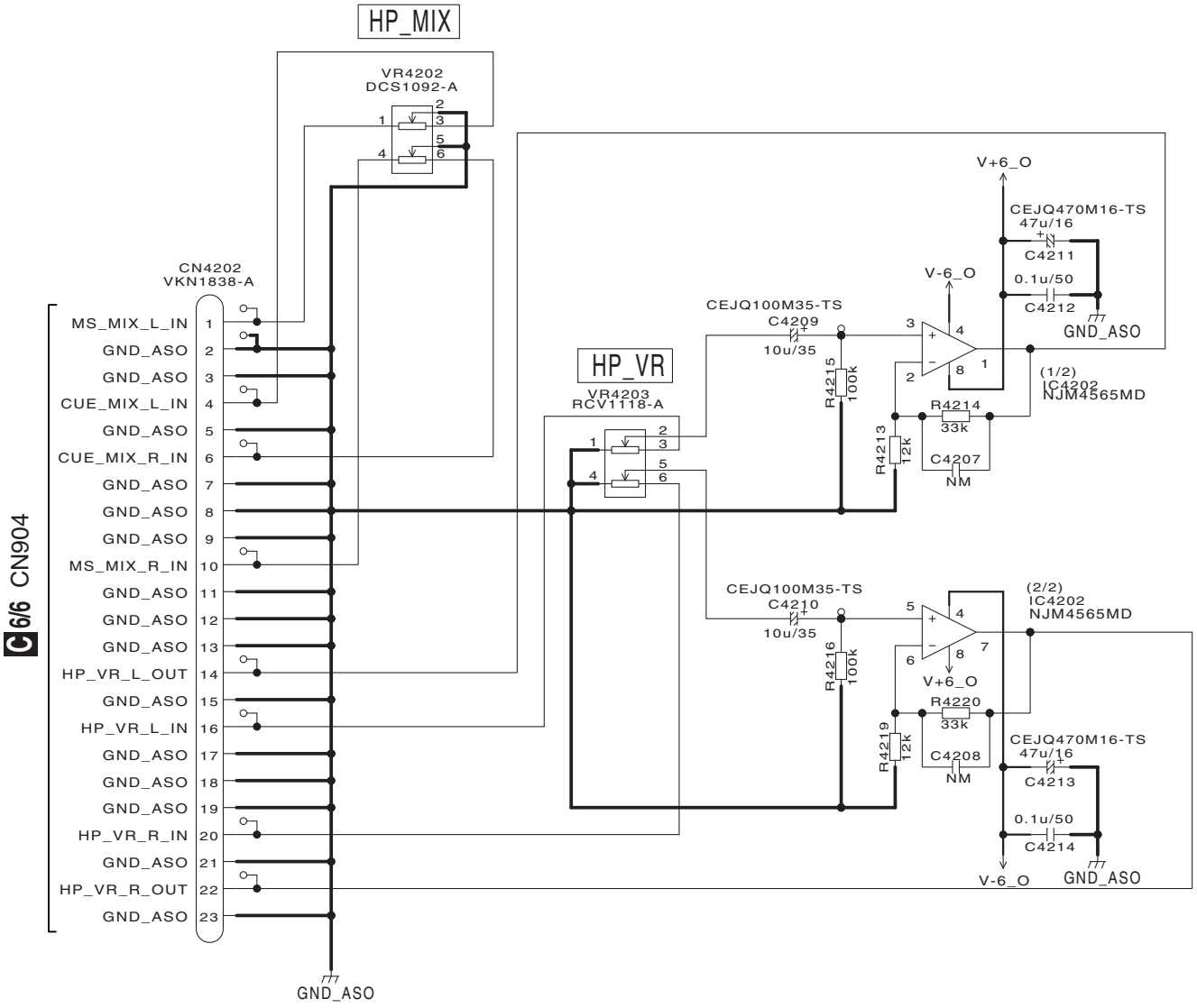


*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

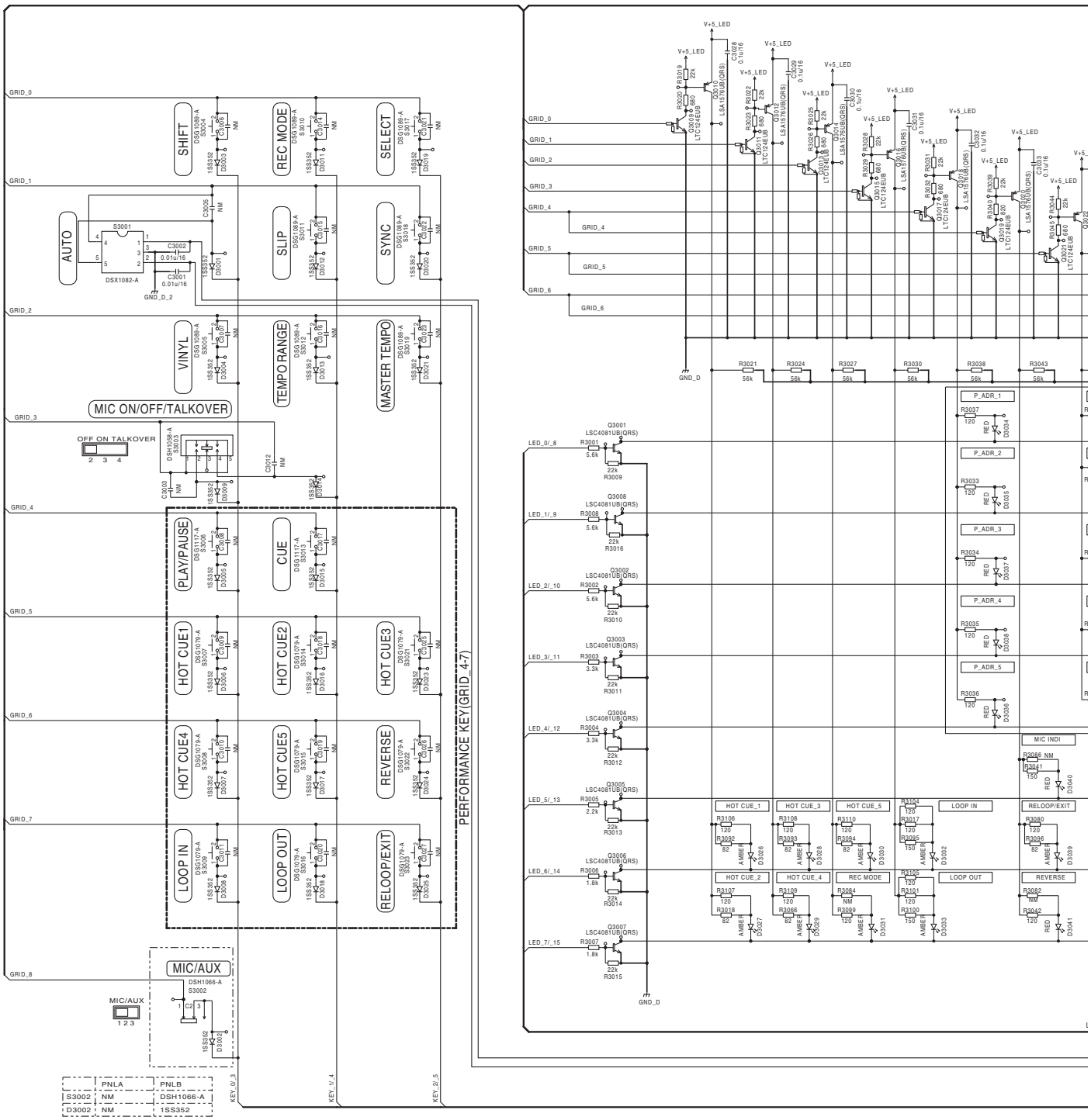
NOTES
NM is No Mount
RS1/10SR***J
CKSRYB***K
CCSRCH***J

D 2/2

D 2/2 DJMB ASSY (DWX3243)



10.13 PNLA and PNLB ASSYS



	PNLA	PNLB
S3002	NM	DSH1066-A
D3002	NM	1SS352

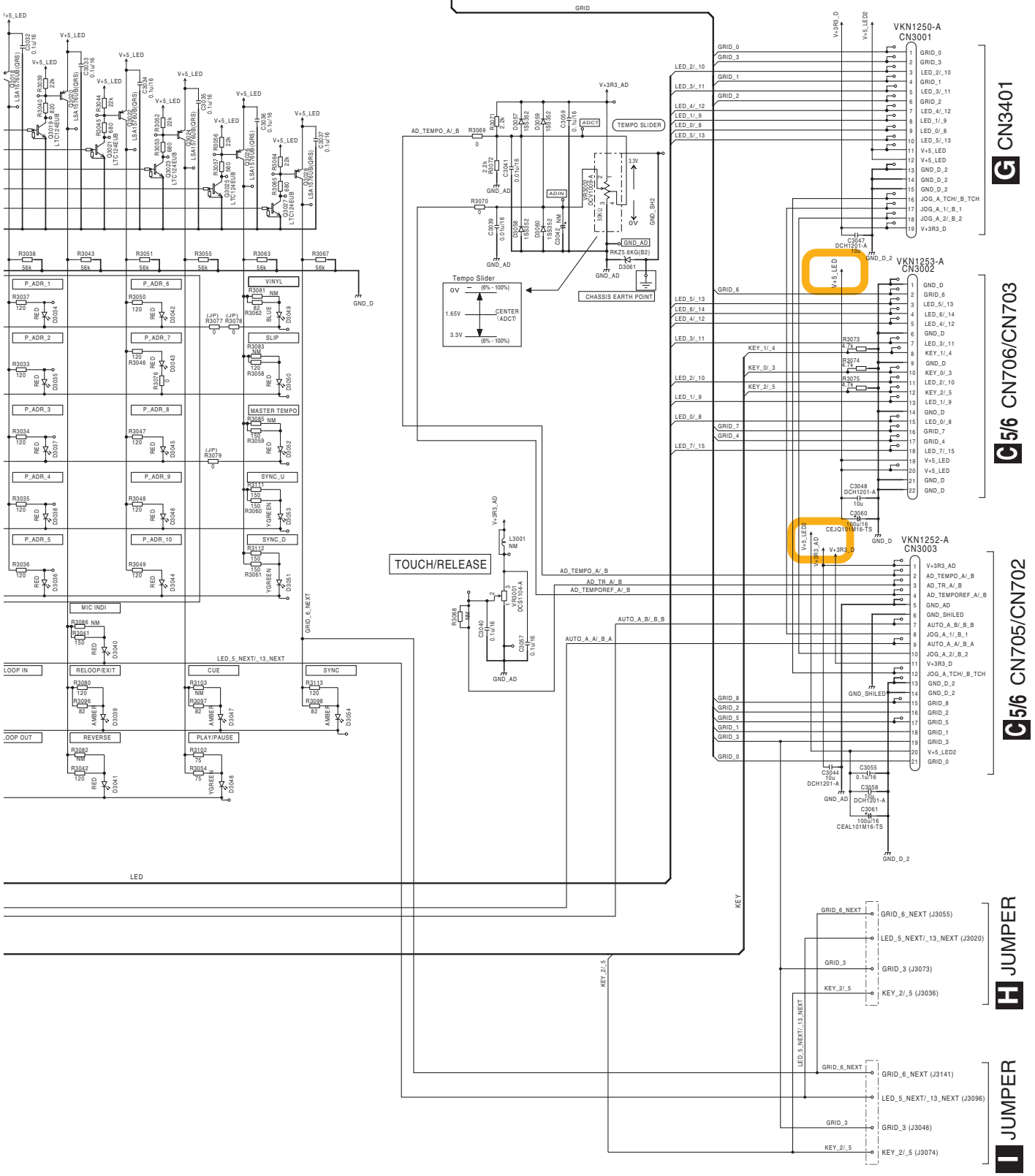
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

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

RED : SLI-343U8R(HJK)-TS Vf:2.2V
AMBER : SLI-343Y8Y(KLM)-TS Vf:2.2V
YGREEN : SLI-343M8C(FGHJ)-TS Vf:2.2V
BLUE : SLR343BC4T(JK)-TS Vf:3.2V

E PNLA ASSY (DWX3231)

F PNLB ASSY (DWX3237)



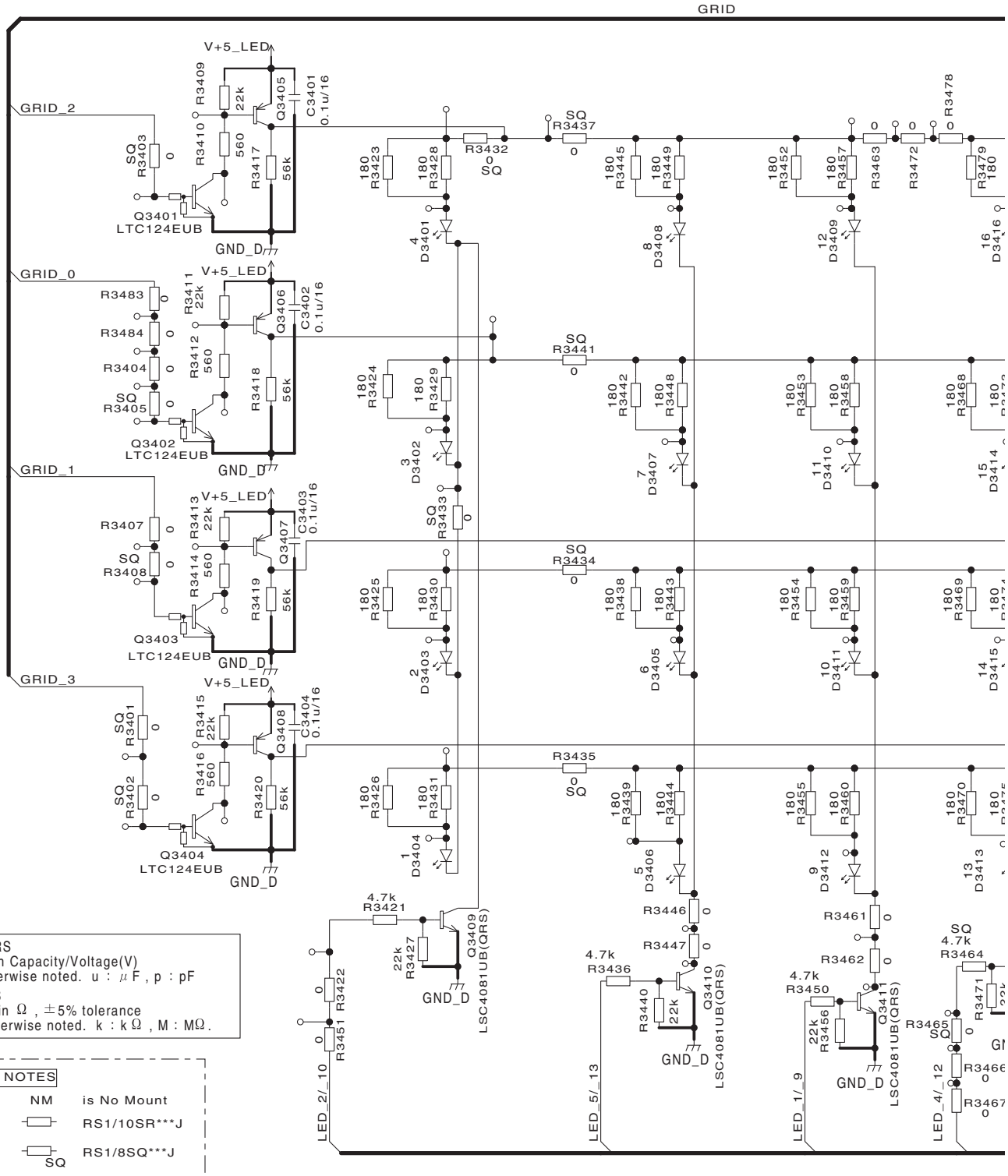
10.14 LEDB ASSY

D3401～D3424 : SLI-343U3R(HJKL)-TS (AMBER RED) Vf:2.2V

Q3405～Q3408 : LSA1576UB(QRS)-TLB

Q3409～Q3414 : LSC4081UB(QRS)-TLB

Q3401～Q3404 : LTC124EUB-TLB



*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES

NM is No Mount

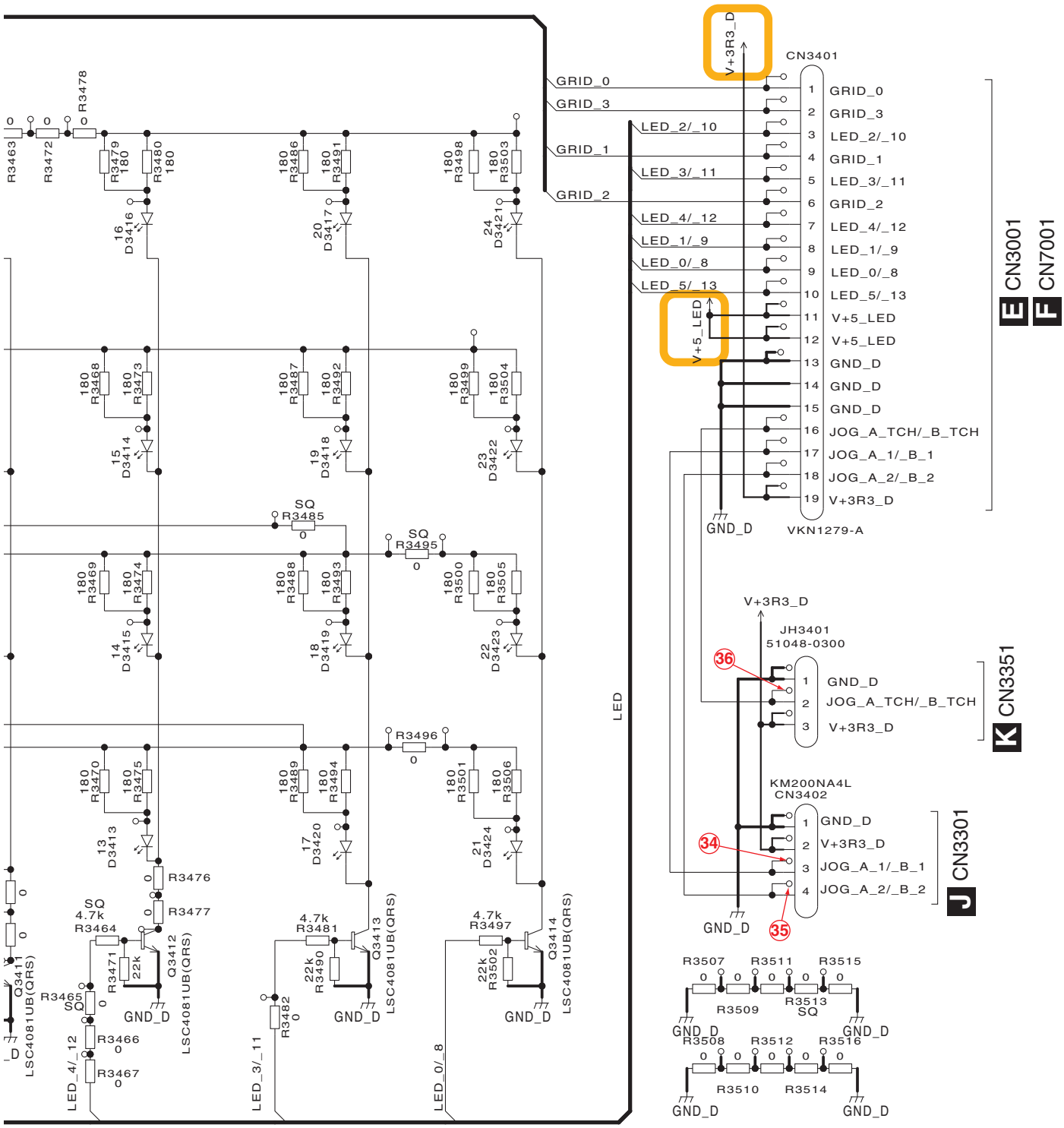
RS1/10SR***J

RS1/8SQ***J

CKSRYB***K

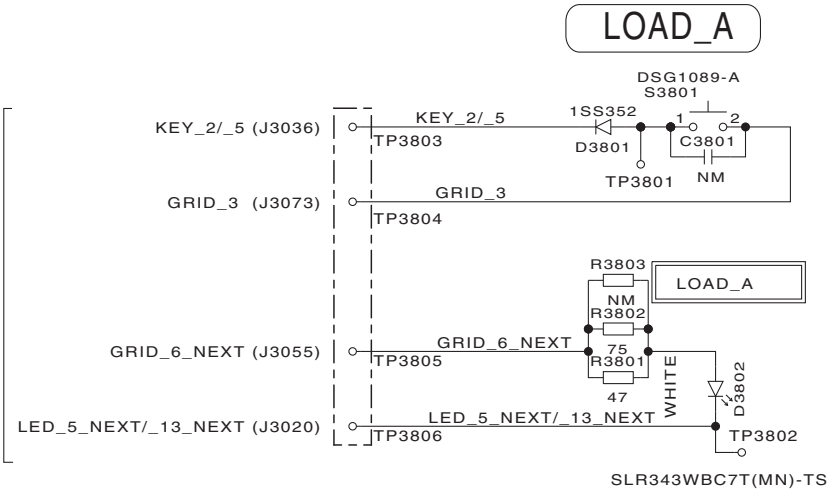
0Ω is Chip JP

G LEDB ASSY (DWX3240)



10.15 LODA and LODB ASSYS

H LODA ASSY (DWX3249)



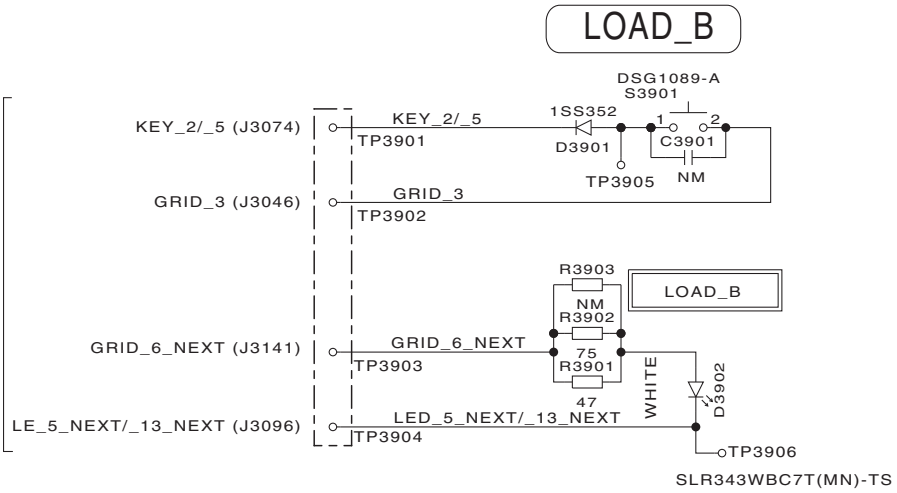
WHITE : SLR343WBC7T(MN)-TS Vf:3.2V

NOTES

NM	is No Mount
⊣⊢	CKSRYB***K
▭	RS1/10SR***J

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

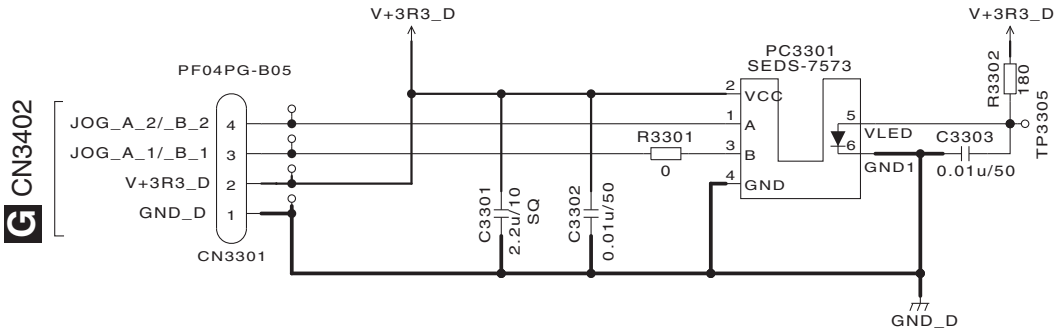
I LODB ASSY (DWX3250)



WHITE : SLR343WBC7T(MN)-TS Vf:3.2V

10.16 JOGB and TCHB ASSYS

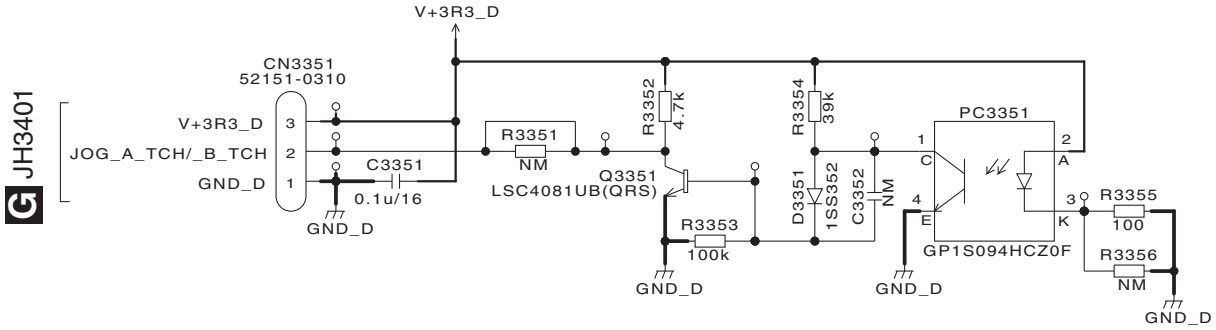
J JOGB ASSY (DWX3238)



*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
RS1/10SR***J
CKSRYB or CKSYB
CKSQYB***K

K TCHB ASSY (DWX3239)

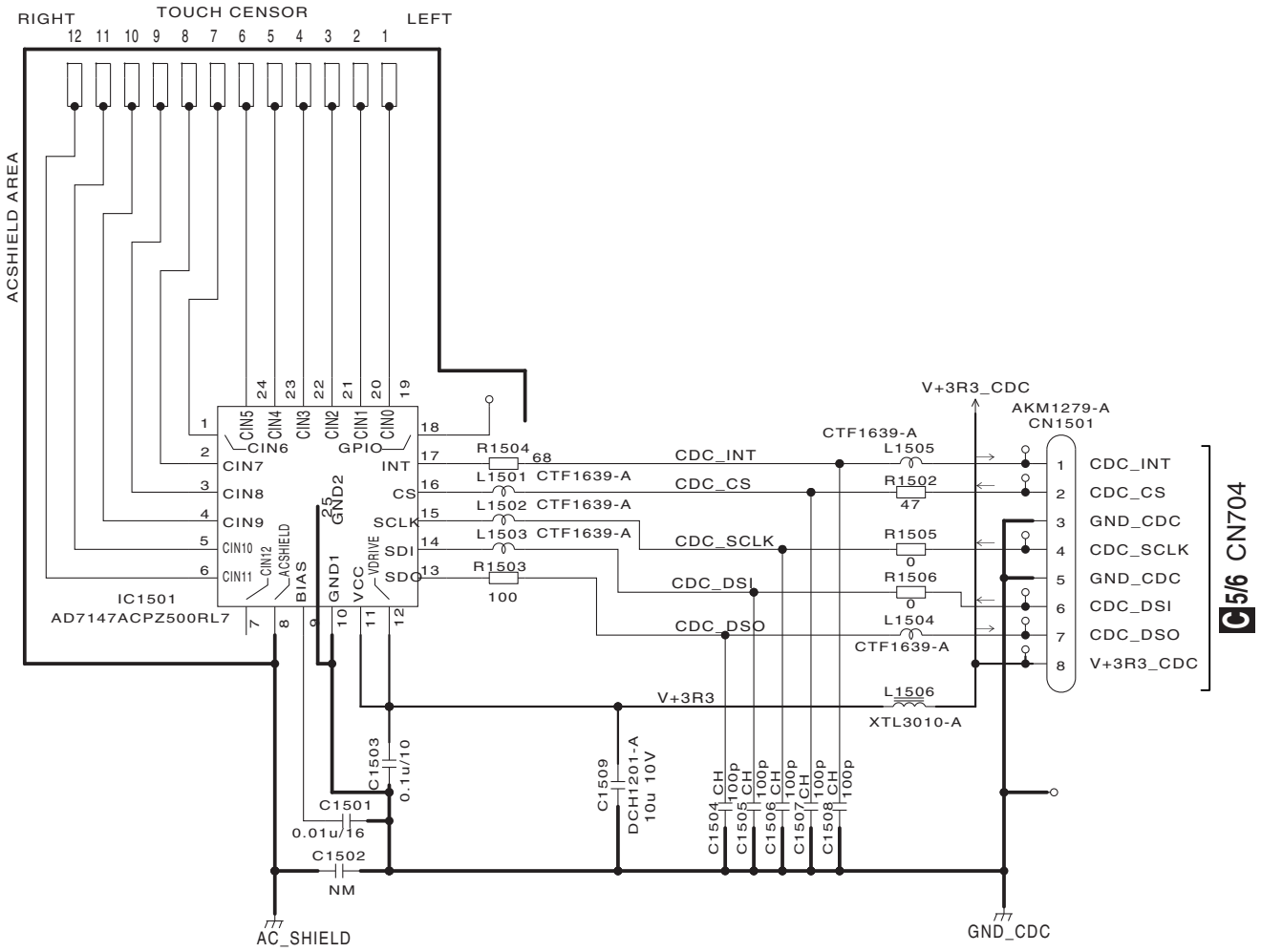


NOTES
NM is No Mount
RS1/10SR***J
CKSRYB***K

10.17 CDCA ASSY

L CDCA ASSY (DWX3228)

Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.



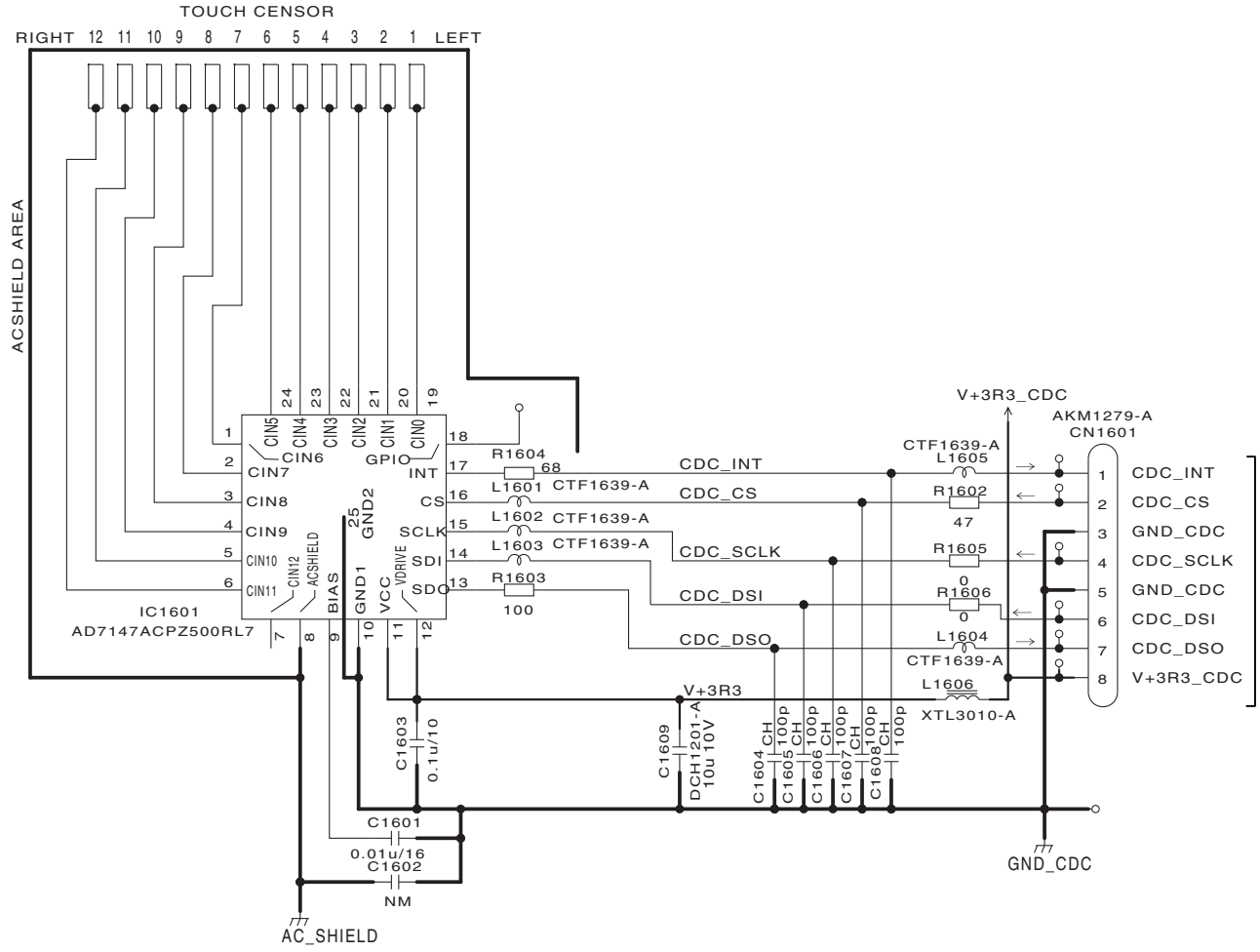
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
NM is No Mount
RS1/16SS***J
CKSSYB***K
CCSSCH***J

10.18 CDCB ASSY

M CDCB ASSY (DWX3229)

Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.

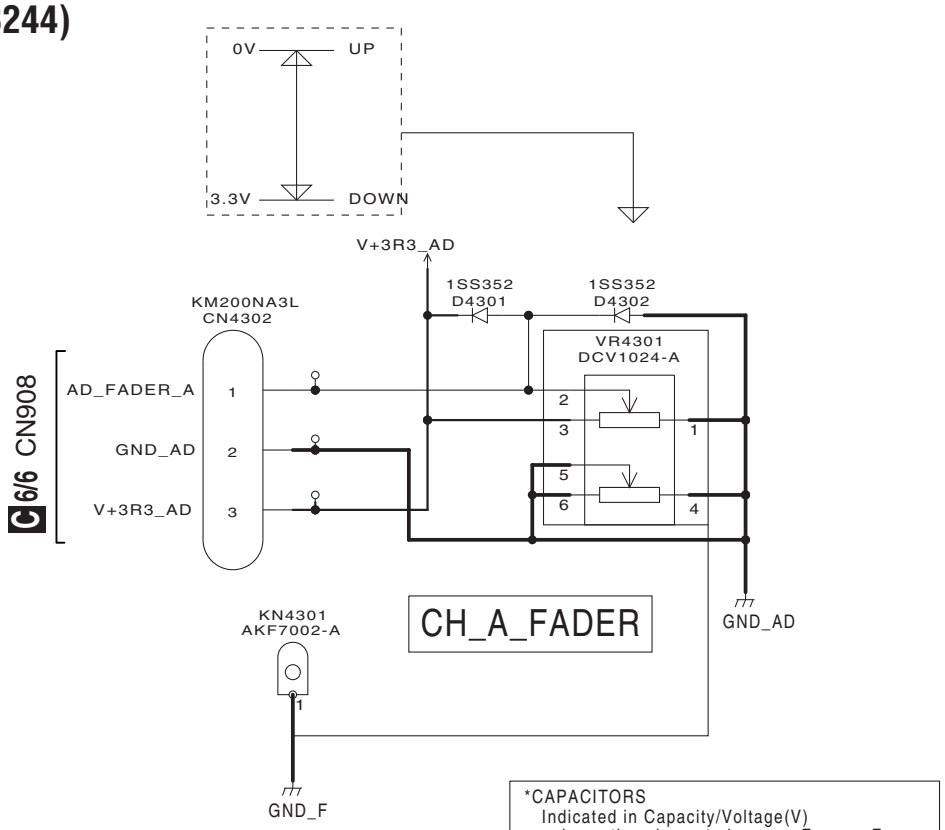


*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES
NM is No Mount
RS1/16SS***J
CKSSYB***K
CH CCSSCH***J

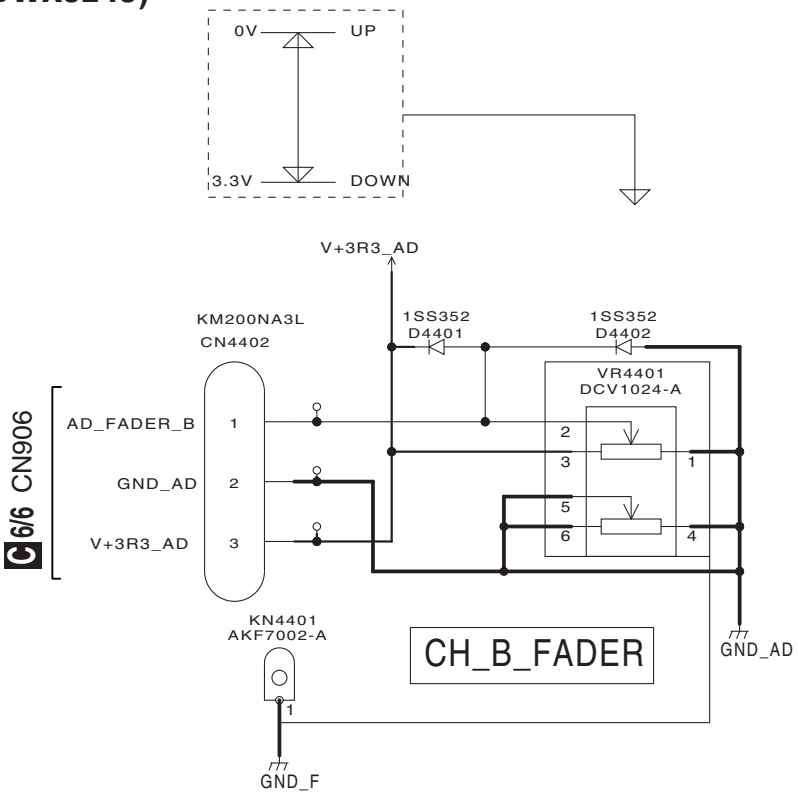
10.19 CHF1 and CHF2 ASSYS

N CHF1 ASSY (DWX3244)



*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

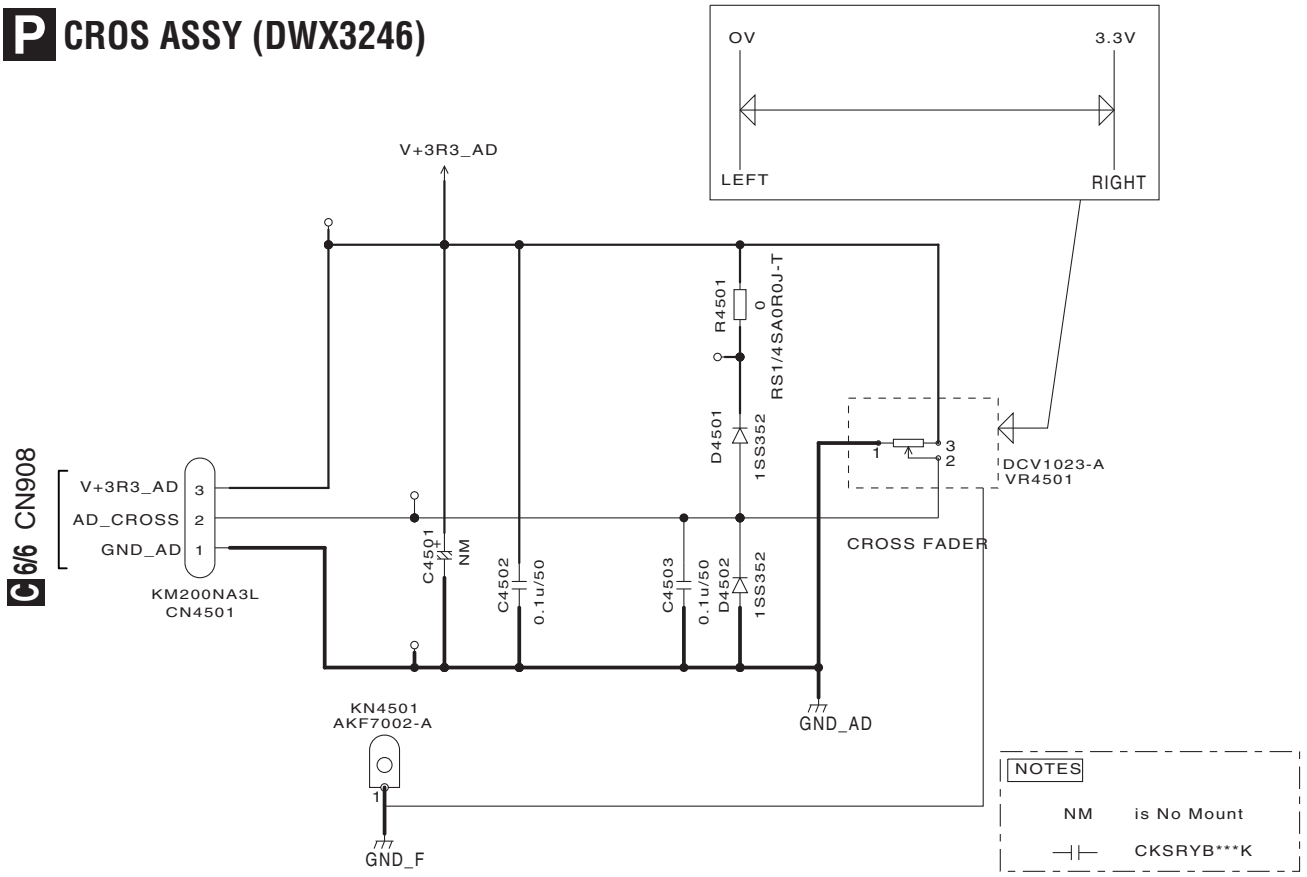
O CHF2 ASSY (DWX3245)



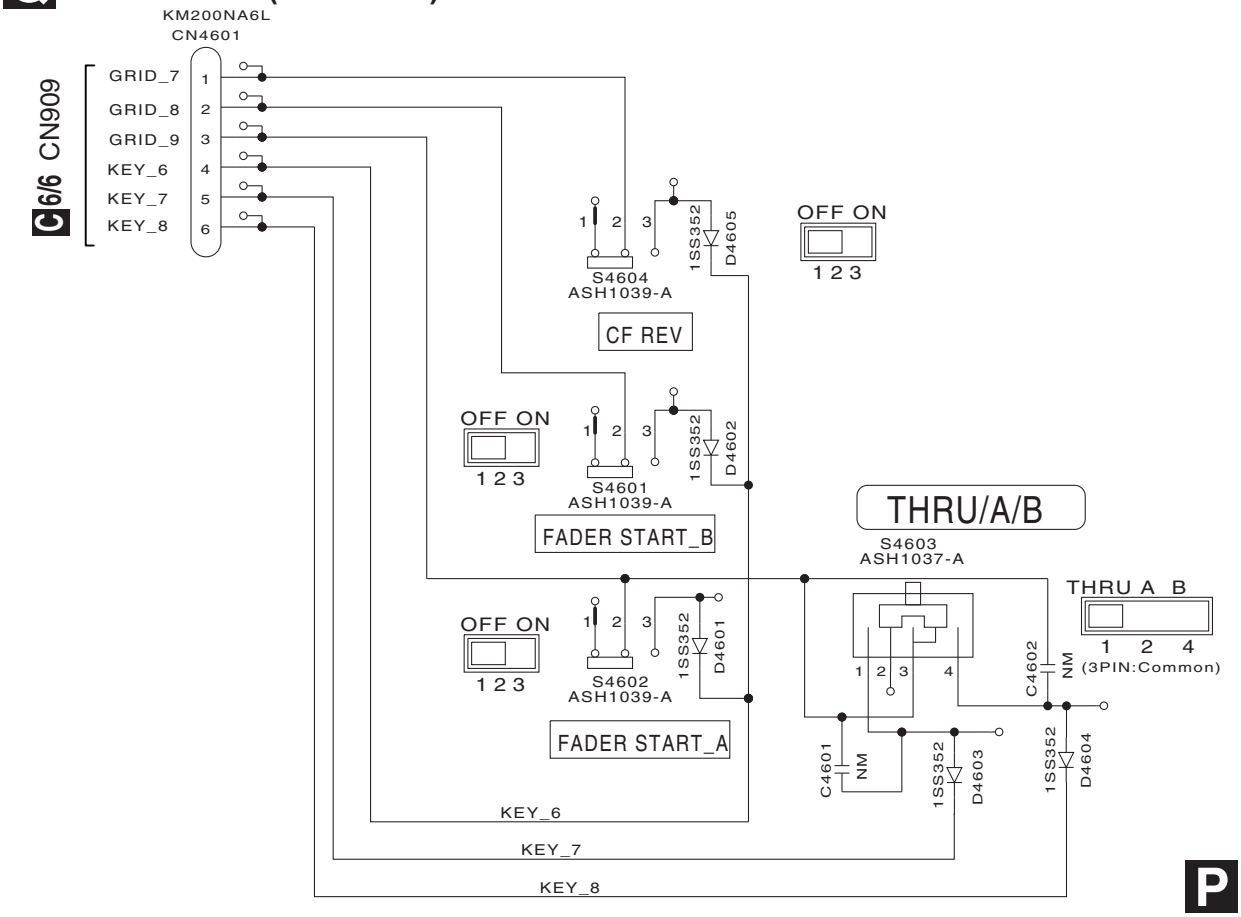
N O

10.20 CROS and MSWB ASSYS

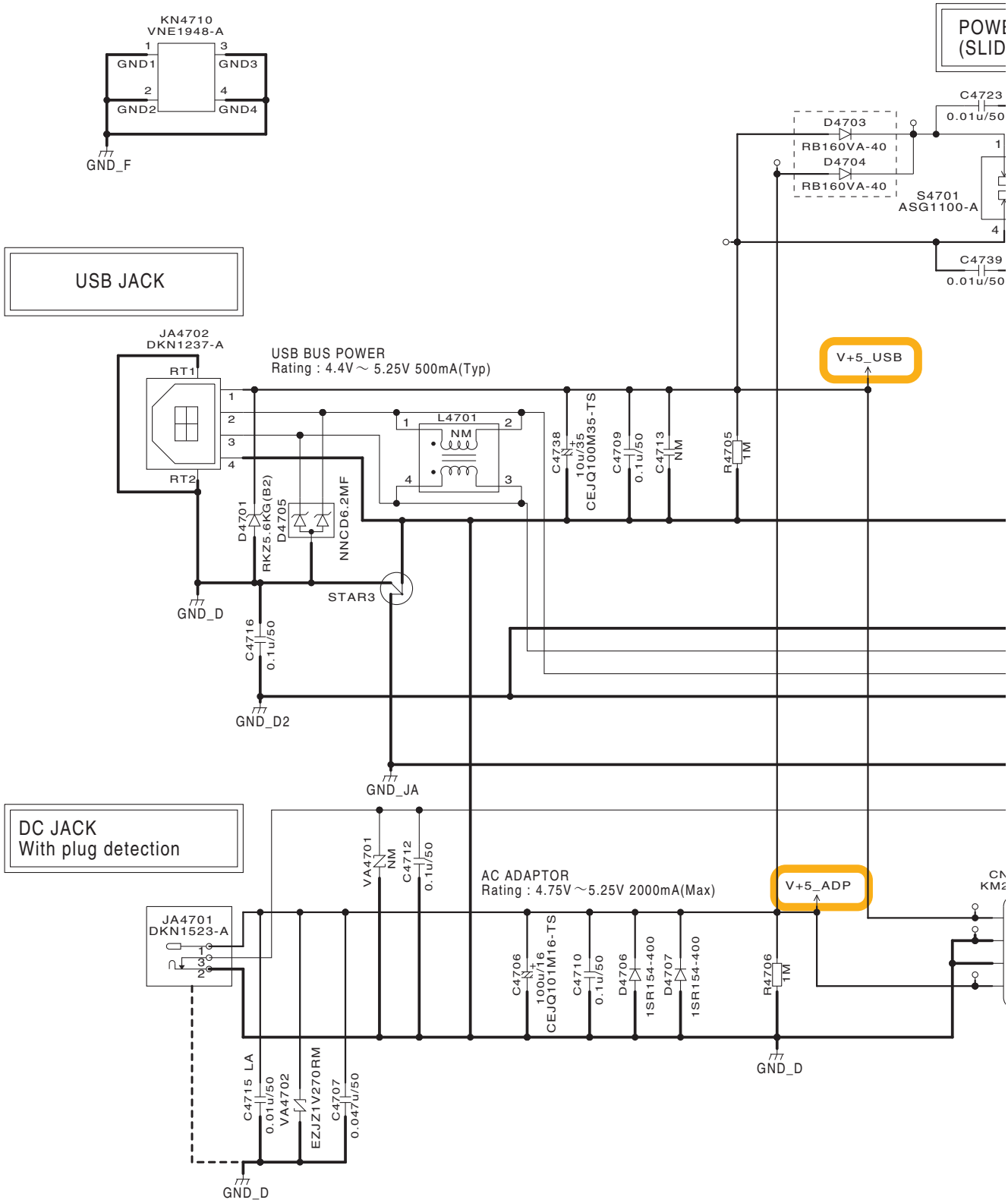
P CROS ASSY (DWX3246)



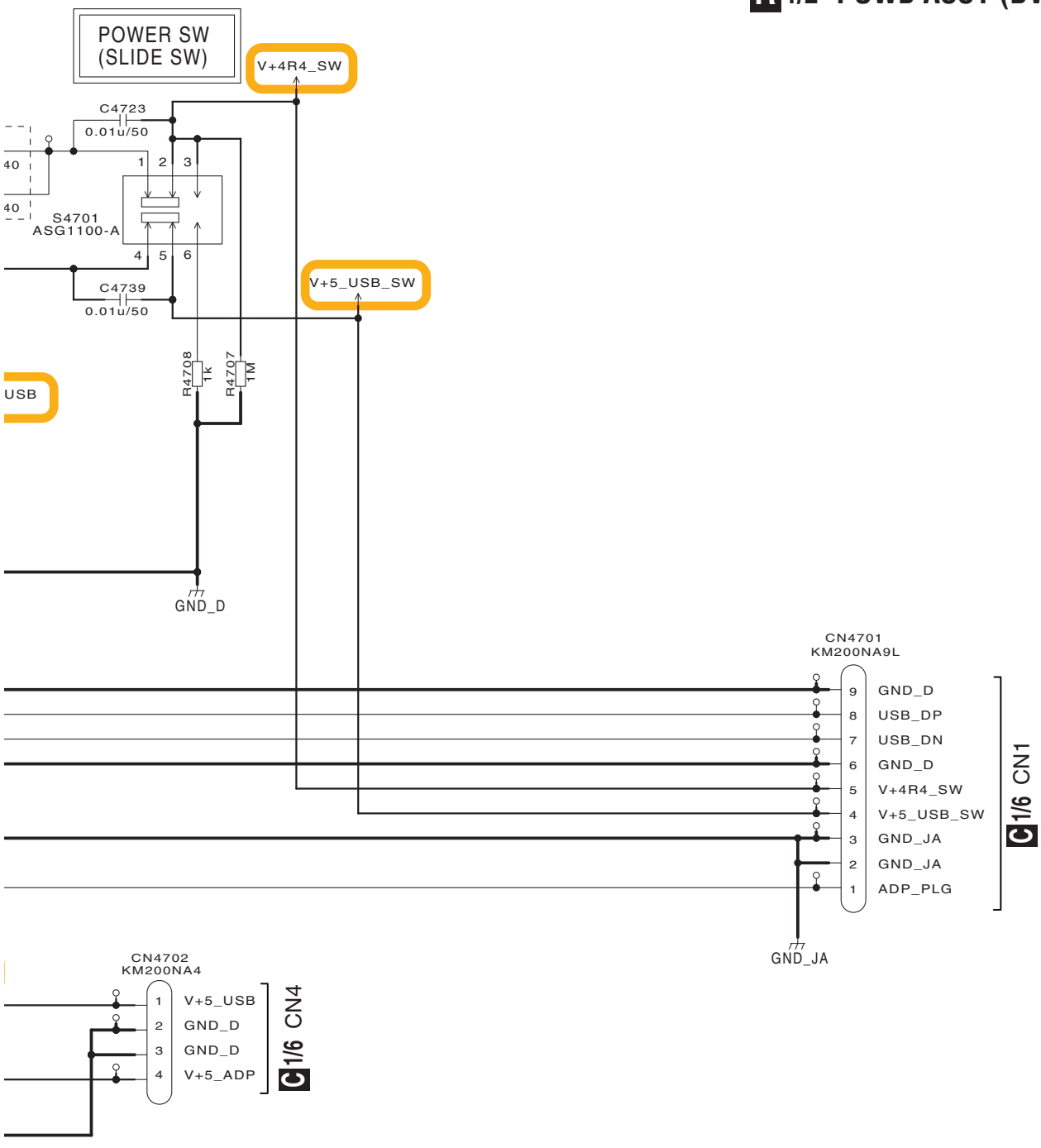
Q MSWB ASSY (DWX3247)



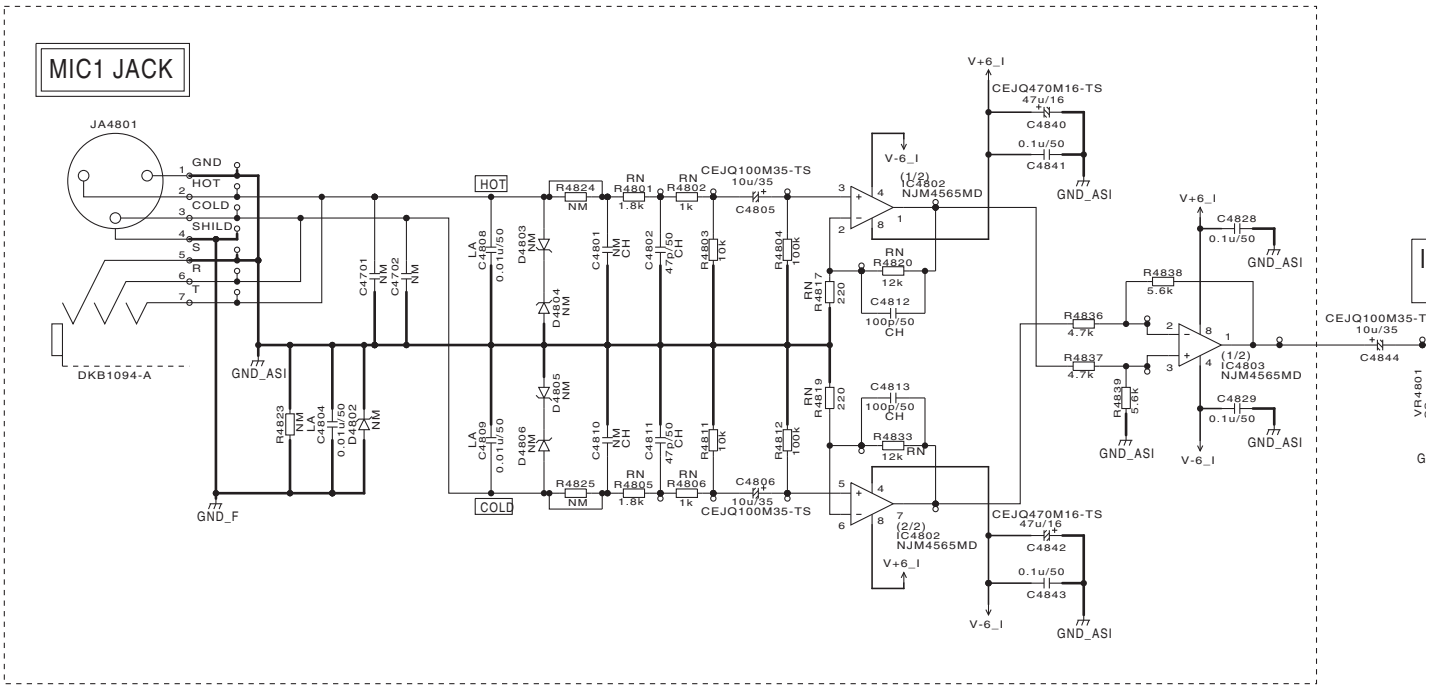
10.21 POWB ASSY (1/2)

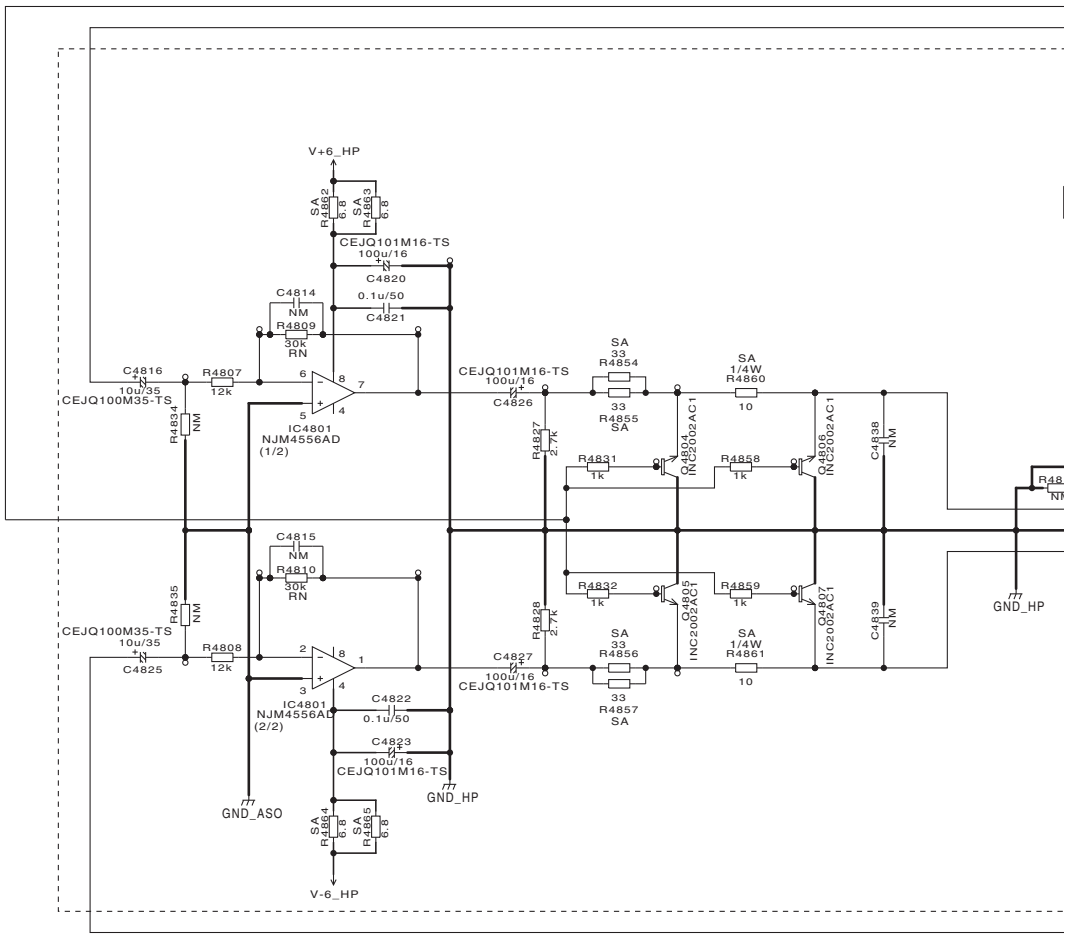


R 1/2 POWB ASSY (DWX3248)

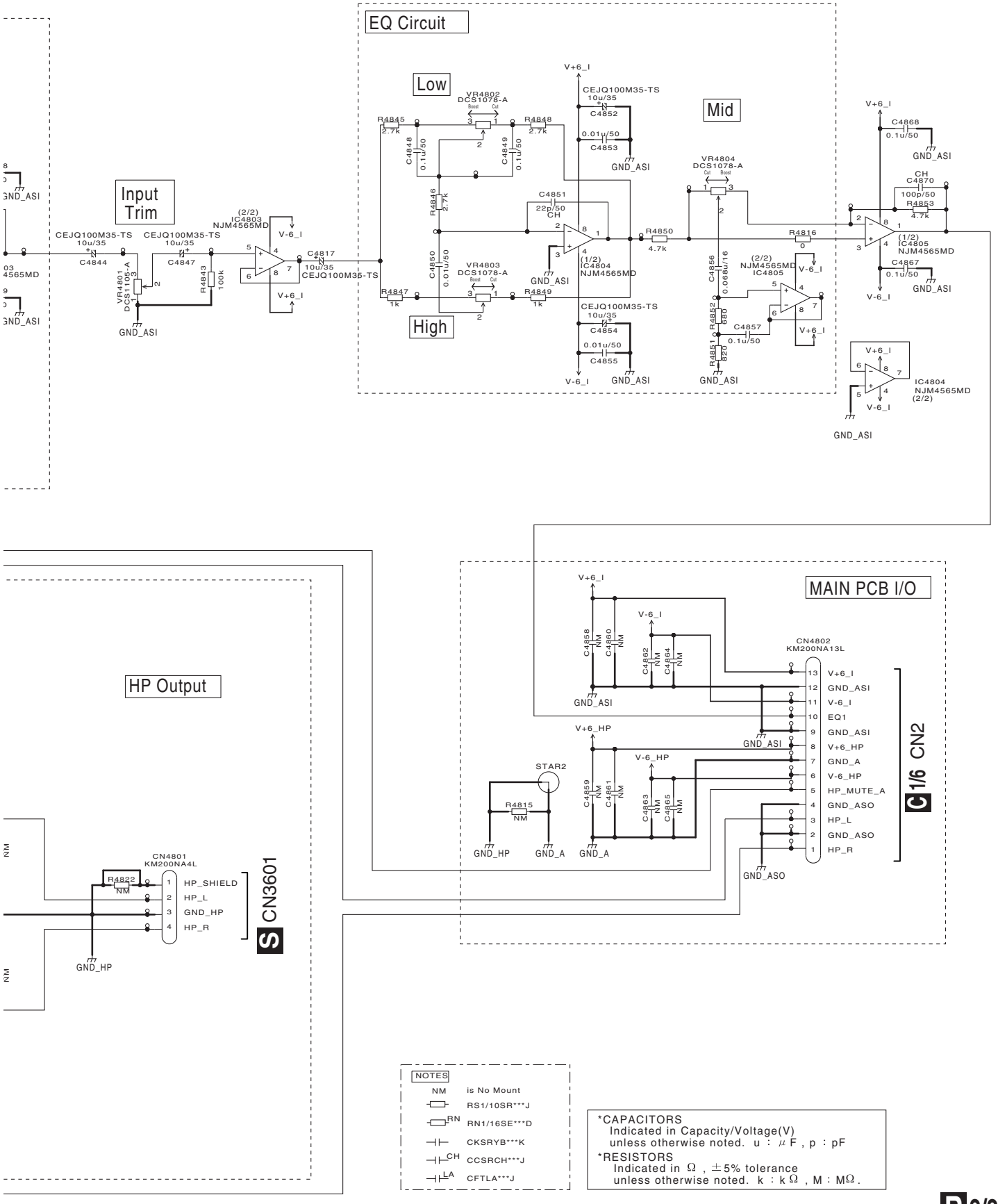


10.22 POWB ASSY (2/2)





R2/2 POWB ASSY (DWX3248)



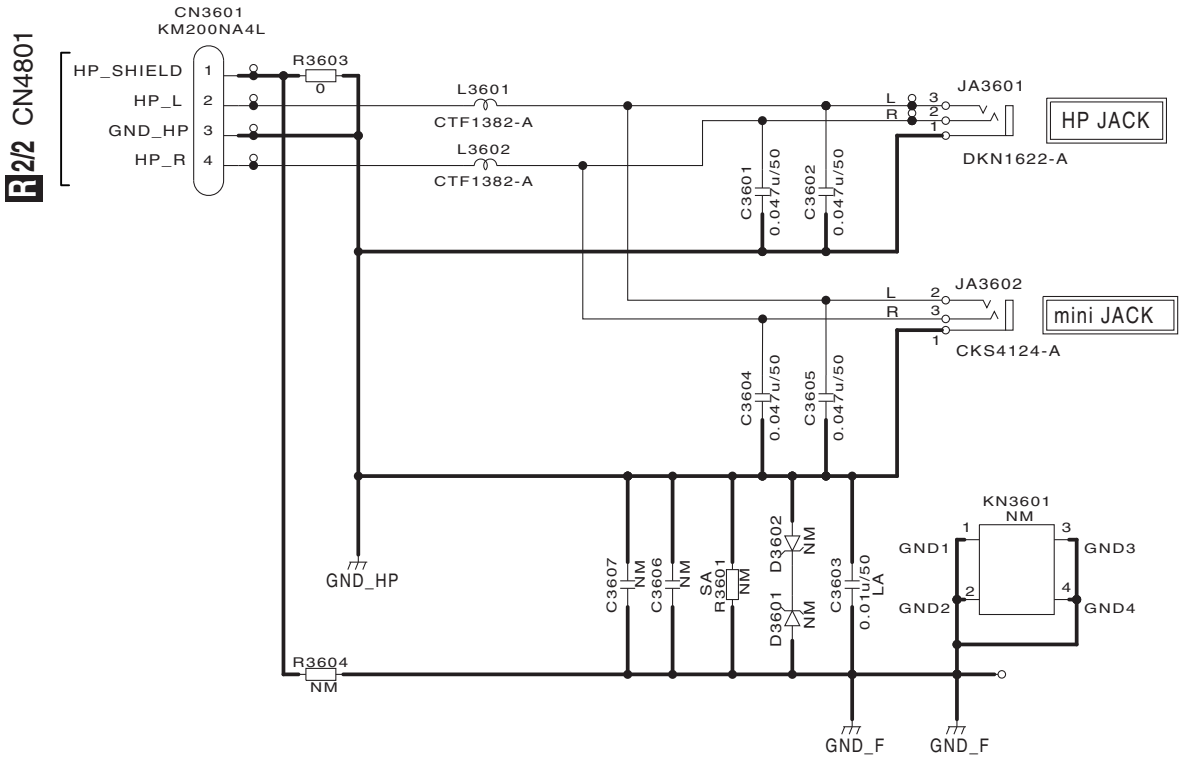
NOTES	
NM	is No Mount
	RS1/10SR***J
RN	RN1/16SE***D
	CKSRYB***K
CH	CCSRCH***J
LA	CFTLA***J

*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ .

R2/2

10.23 HPJB ASSY

S HPJB ASSY (DWX3241)



*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

NOTES

NM	is No Mount
	RS1/10SR***J
	CKSRYB***K
LA	CFTLA***J

10.24 VOLTAGES

● Power supply system

Name	Normal Voltage Level[V]	Relevant Assy
V+5_USB	4.7 to 5.3	POWB Assy MAIN Assy
V+5_ADP	4.7 to 5.3	POWB Assy MAIN Assy
V+5_USB_SW	4.7 to 5.3	POWB Assy MAIN Assy
V+4R4_SW	4.4 to 5.0	POWB Assy MAIN Assy
V+3R3_USB	3.1 to 3.5	MAIN Assy
V+3R3_UCOM	3.1 to 3.5	MAIN Assy
V+5_D V+5_LED	4.7 to 5.3	MAIN Assy PNLA/PNLB Assy LEDB Assy DJMB Assy
V+5_D	4.7 to 5.3	JACK Assy
V+3R3_D	3.1 to 3.5	MAIN Assy CDCA/CDCB Assy PNLA/PNLB Assy LEDB Assy TCHB Assy JOGB Assy
V+3R3_AD	3.1 to 3.5	MAIN Assy PNLA/PNLB Assy DJMB Assy CHF1/CHF2 Assy CROS Assy
V+6_O	5.7 to 6.3	UCOM Assy MICB Assy JACB Assy HPJB Assy
V-6_O	-5.7 to -6.3	UCOM Assy MICB Assy JACB Assy HPJB Assy
V+6_I	5.7 to 6.3	JACK Assy MAIN Assy POWB Assy MIC1 Assy MIC2 Assy
V-6_I	-5.7 to -6.3	JACK Assy MAIN Assy POWB Assy MIC1 Assy MIC2 Assy
V+HP	5.7 to 6.3	JACK Assy MAIN Assy POWB Assy HPJB Assy
V-HP	-5.7 to -6.3	JACK Assy MAIN Assy POWB Assy HPJB Assy
V+15	14.2 to 15.8	JACK Assy MAIN Assy
V-15	-14.2 to -15.8	JACK Assy MAIN Assy
V+5_A	4.7 to 5.3	MAIN Assy

* For details, refer to section “4.3 POWER BLOCK DIAGRAM.”

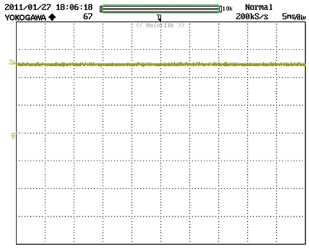
10.25 WAVEFORMS

Measuring condition: Conect an AC adapter and conect a USB cable with the PC, then turn the power on.

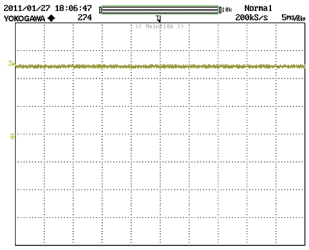
C MAIN ASSY

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

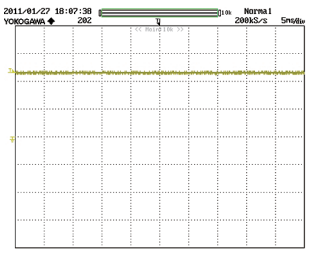
1 **L1 (V+5_ADP)**
V: 2 V/div. H: 5 mS/div.



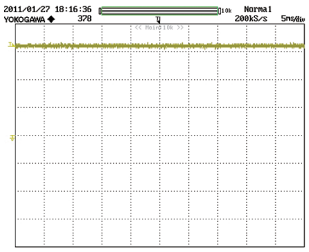
2 **L2 (V+5_USB)**
V: 2 V/div. H: 5 mS/div.



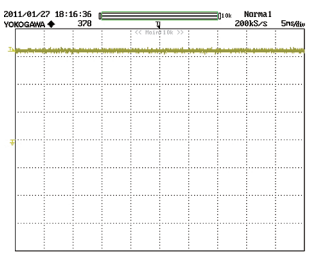
3 **L5 (V+4R4_SW)**
V: 2 V/div. H: 5 mS/div.



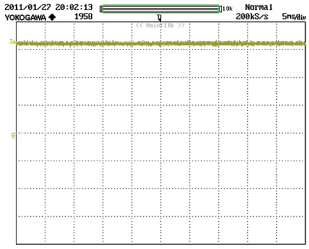
4 **C32 (V+3R3_UCOM)**
V: 1 V/div. H: 5 mS/div.



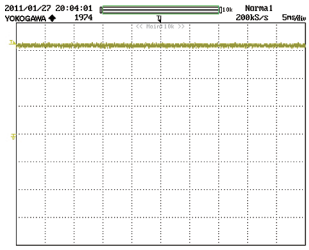
5 **IC6-1 pin (V+3R3_USB)**
V: 1 V/div. H: 5 mS/div.



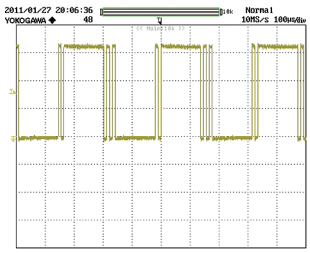
6 **R581 (MAIN_XRST)**
V: 1 V/div. H: 5 mS/div.



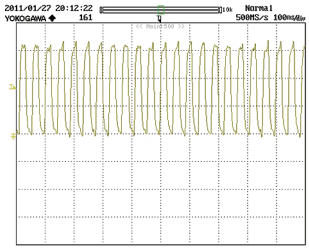
7 **R638 (USB_XRST)**
V: 1 V/div. H: 5 mS/div.



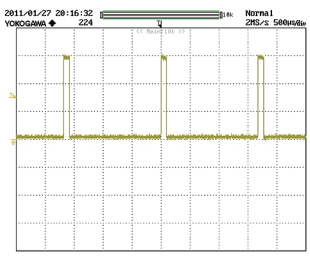
8 **R790 (GRID_CODE0)**
V: 1 V/div. H: 100 µS/div.



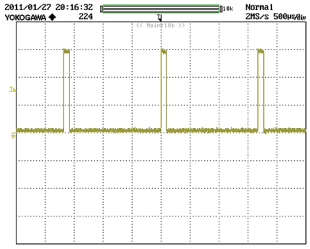
9 **R626 (MCLK)**
V: 1 V/div. H: 100 mS/div.



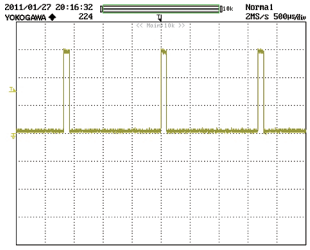
10 **R684 (LED_5)**
V: 1 V/div. H: 500 µS/div.



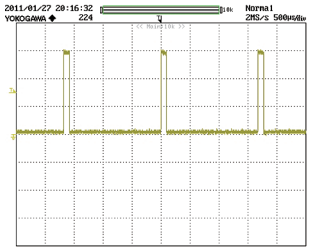
11 **R683 (LED_6)**
V: 1 V/div. H: 500 µS/div.



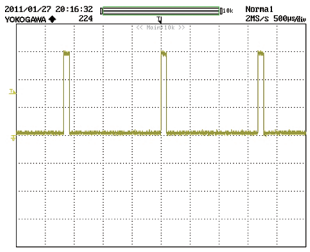
12 **R682 (LED_4)**
V: 1 V/div. H: 500 µS/div.



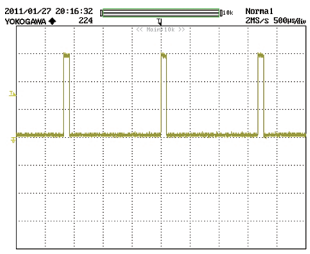
13 **R681 (LED_3)**
V: 1 V/div. H: 500 µS/div.



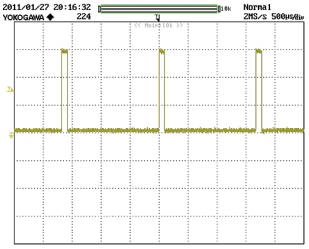
14 **R680 (LED_2)**
V: 1 V/div. H: 500 µS/div.



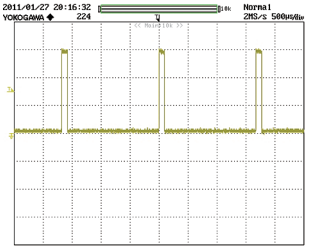
15 **R679 (LED_1)**
V: 1 V/div. H: 500 µS/div.



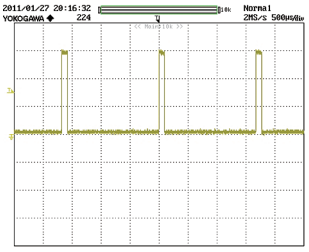
16 **R678 (LED_0)**
V: 1 V/div. H: 500 µS/div.



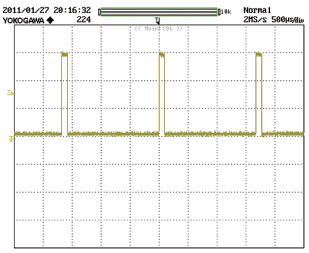
17 **R677 (LED_7)**
V: 1 V/div. H: 500 µS/div.



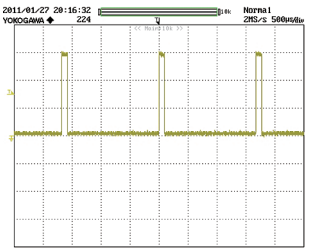
18 **R676 (LED_13)**
V: 1 V/div. H: 500 µS/div.



19 **R673 (LED_14)**
V: 1 V/div. H: 500 µS/div.



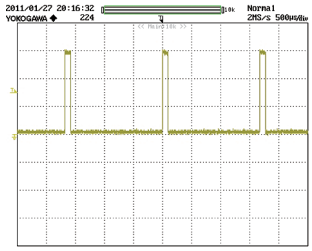
20 **R674 (LED_12)**
V: 1 V/div. H: 500 µS/div.



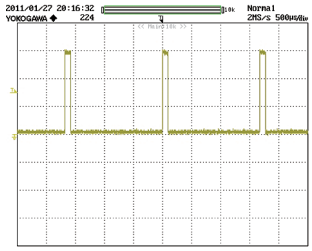
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

C MAIN ASSY

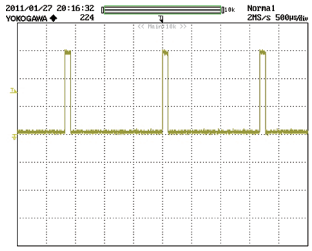
(21) R542 (LED_11)
V: 1 V/div. H: 500 µS/div.



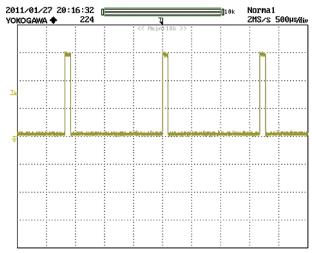
(22) R669 (LED_10)
V: 1 V/div. H: 500 µS/div.



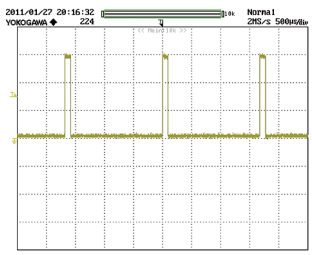
(23) R670 (LED_9)
V: 1 V/div. H: 500 µS/div.



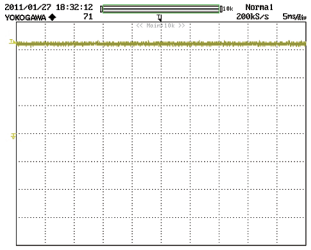
(24) R671 (LED_8)
V: 1 V/div. H: 500 µS/div.



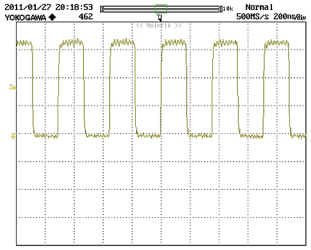
(25) R672 (LED_15)
V: 1 V/div. H: 500 µS/div.



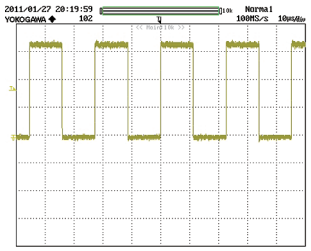
(26) R301 (DAC_XRST)
V: 1 V/div. H: 5 mS/div.



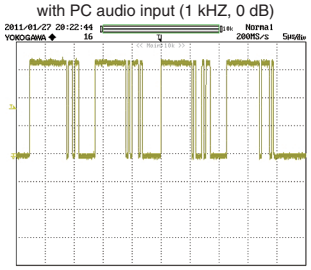
(27) R617 (BCLK)
V: 1 V/div. H: 200 nS/div.



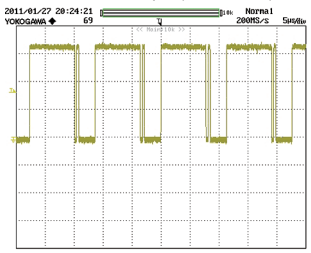
(28) R618 (LRCK)
V: 1 V/div. H: 10 µS/div.



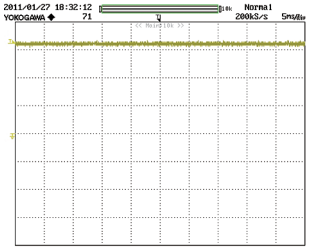
(29) R620 (MASTER_DATA)
V: 1 V/div. H: 5 µS/div.
with PC audio input (1 kHZ, 0 dB)



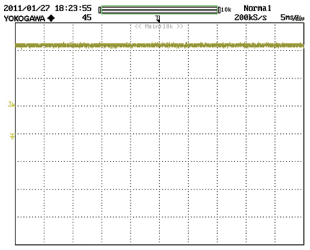
(30) R621 (HP_DATA)
V: 1 V/div. H: 5 µS/div.
with PC audio input (1 kHZ, 0 dB)



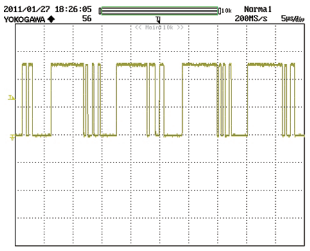
(31) R302 (DAC_XRST)
V: 1 V/div. H: 5 mS/div.



(32) R141 (ADC_XRST)
V: 1 V/div. H: 5 mS/div.

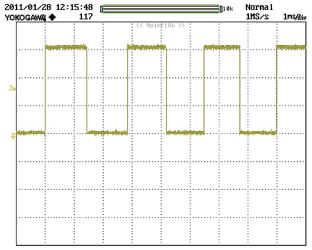


(33) R136 (MIC_AUX_DATA)
V: 2 V/div. H: 5 µS/div.

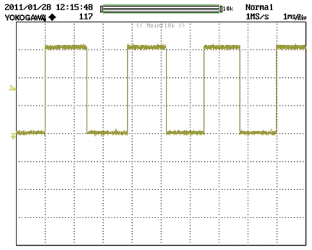


G LEDB ASSY

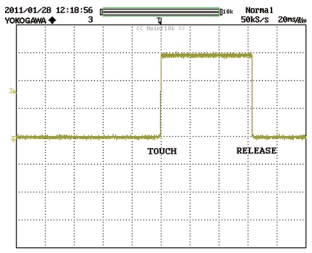
(34) CN3402-3 pin (JOG_A_1/_B_1)
V: 1 V/div. H: 1 mS/div.
at JOG rotation



(35) CN3402-4 pin (JOG_A_2/_B_2)
V: 1 V/div. H: 1 mS/div.
at JOG rotation

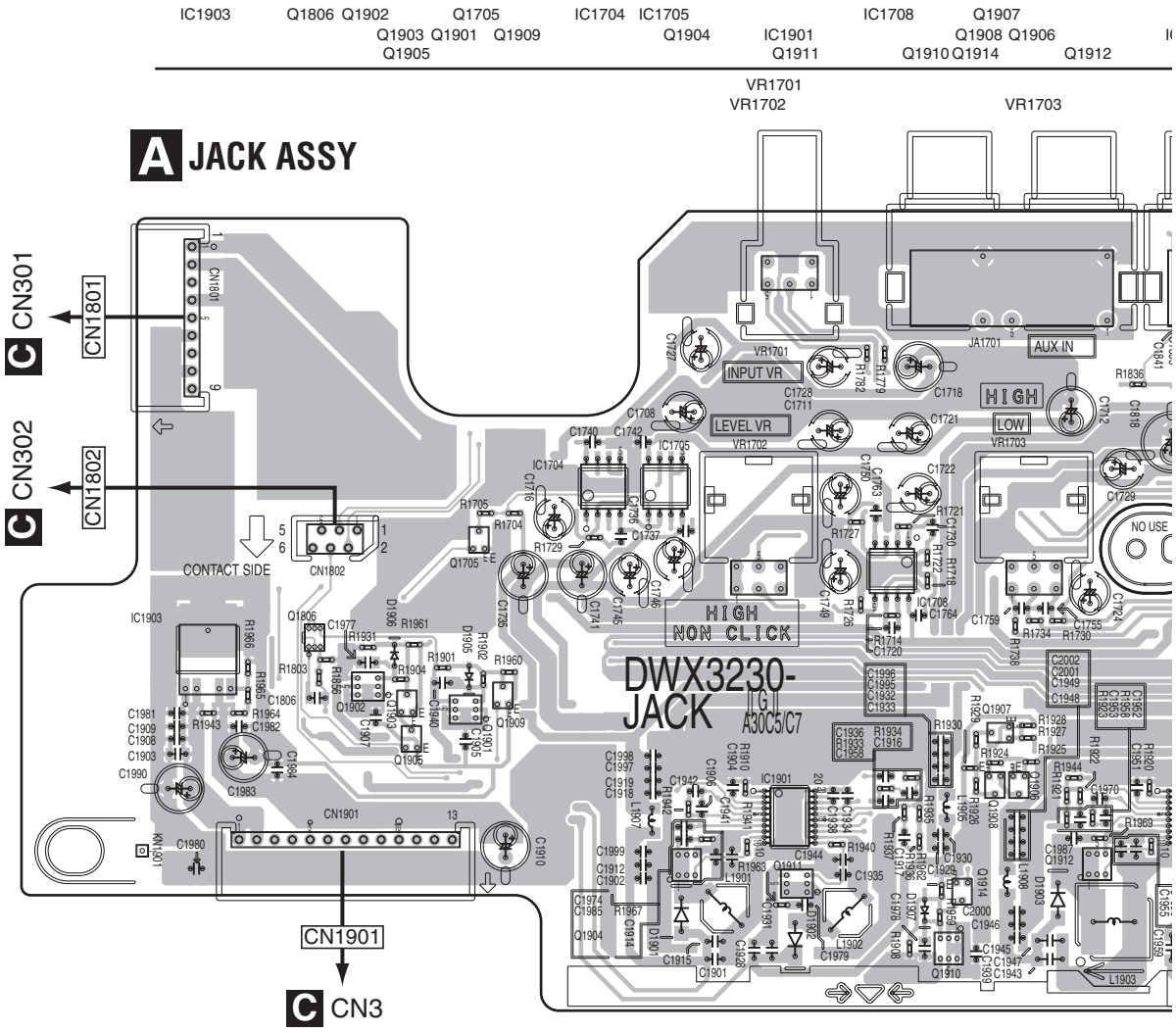


(36) JH3401-2 pin (JOG_A_TCH/_B_TCH)
V: 1 V/div. H: 20 mS/div.
JOG touch -> at release



11. PCB CONNECTION DIAGRAM
11.1 JACK and MIC2 ASSYS

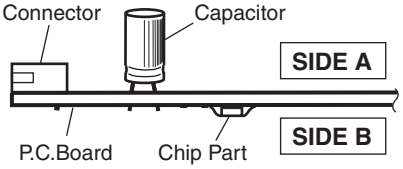
SIDE A



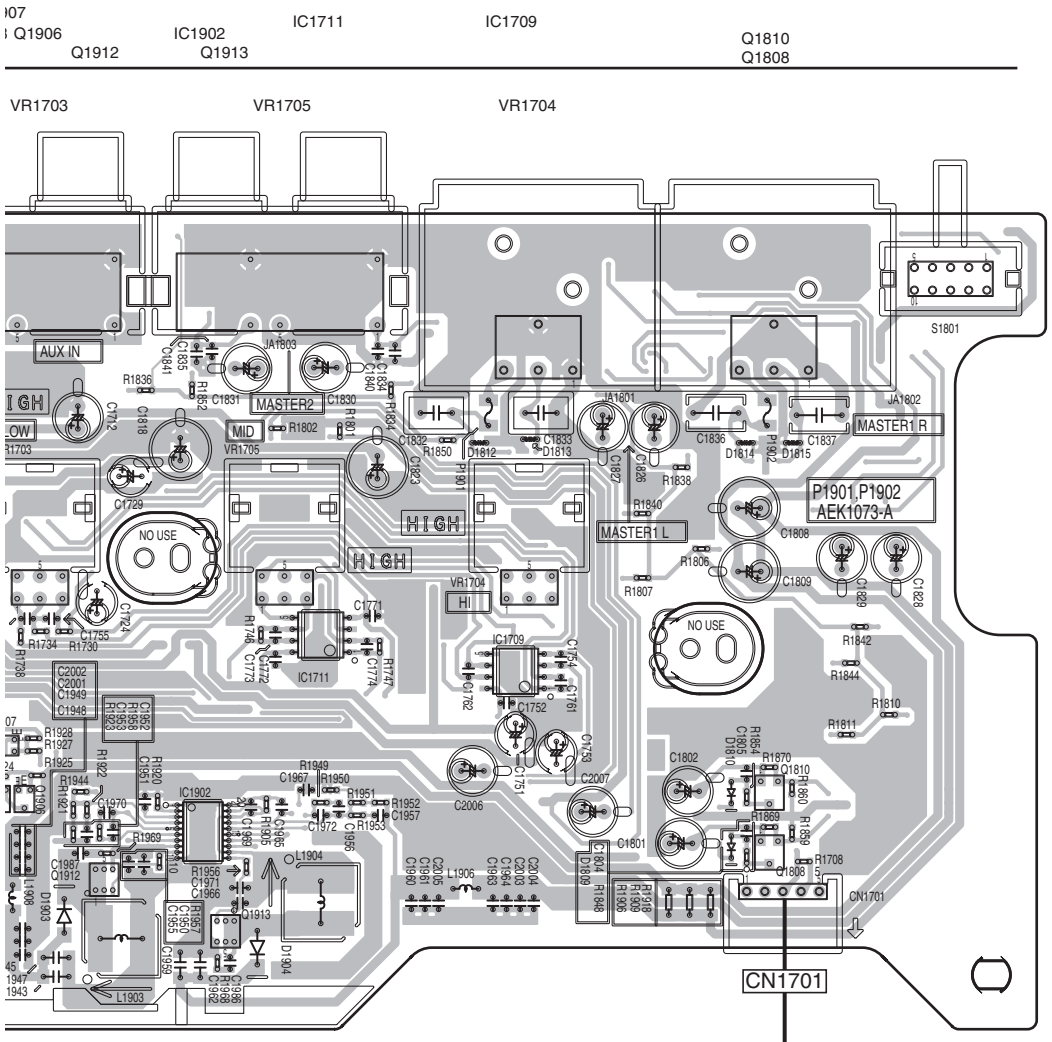
NOTE FOR PCB DIAGRAMS :

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.

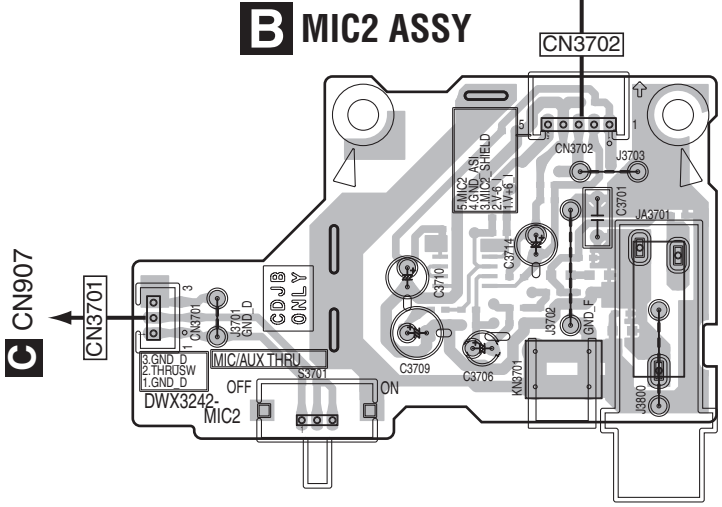
2. View point of PCB diagrams.



SIDE A



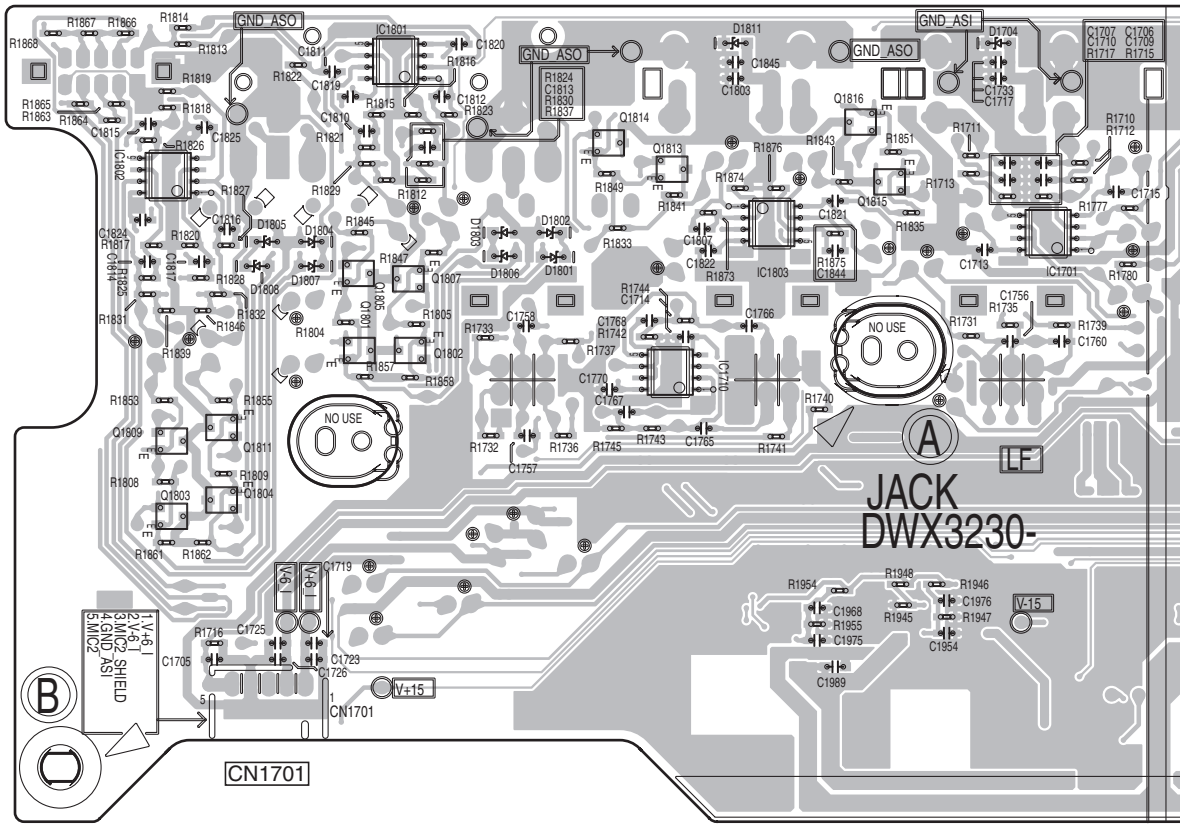
B MIC2 ASSY



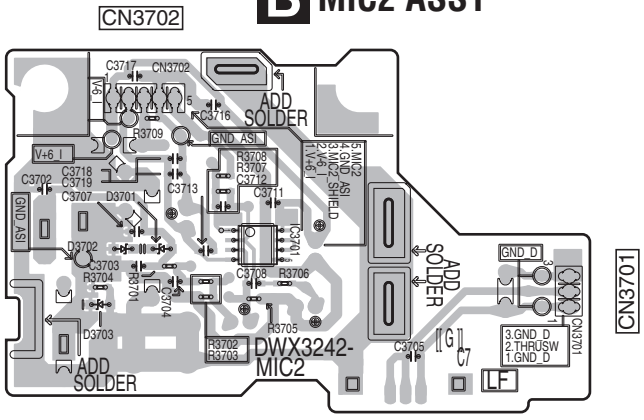
SIDE B

IC1802		IC1801		Q1814	Q1813	IC1803	Q1816	IC1701
Q1809	Q1855	Q1805	Q1807		IC1710		Q1815	
Q1803	Q1804	Q1801	Q1802					

A JACK ASSY



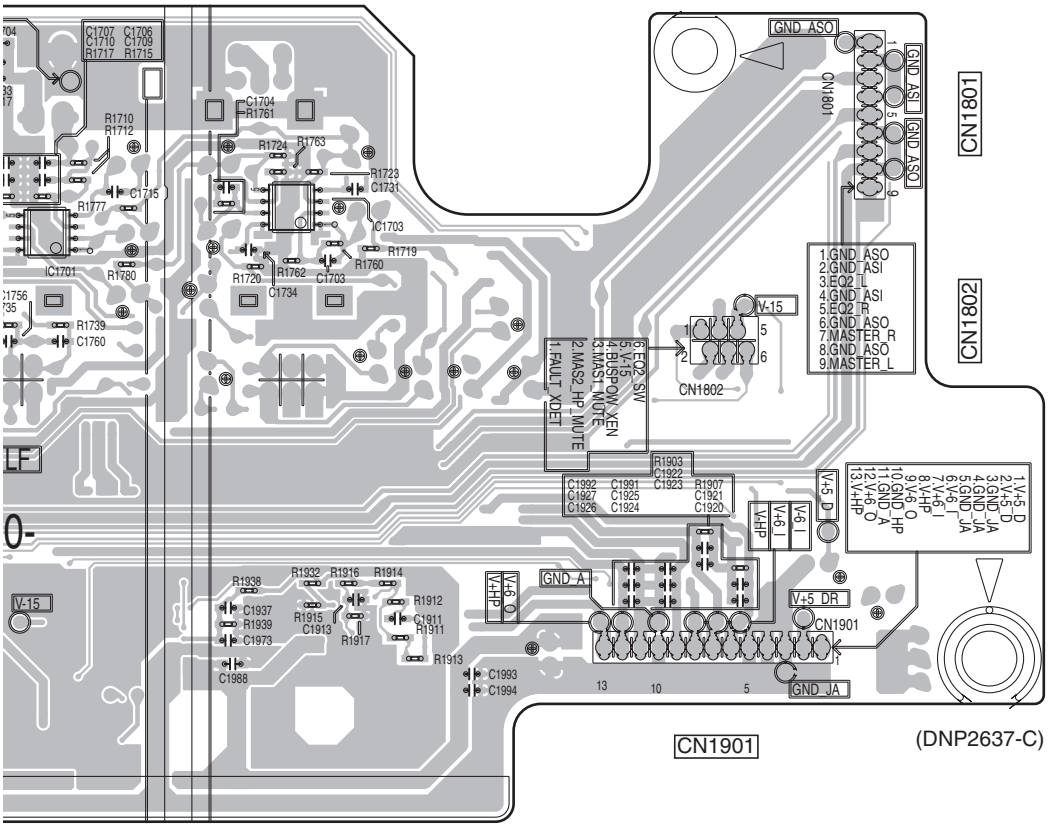
B MIC2 ASSY



(DNP2639-B)

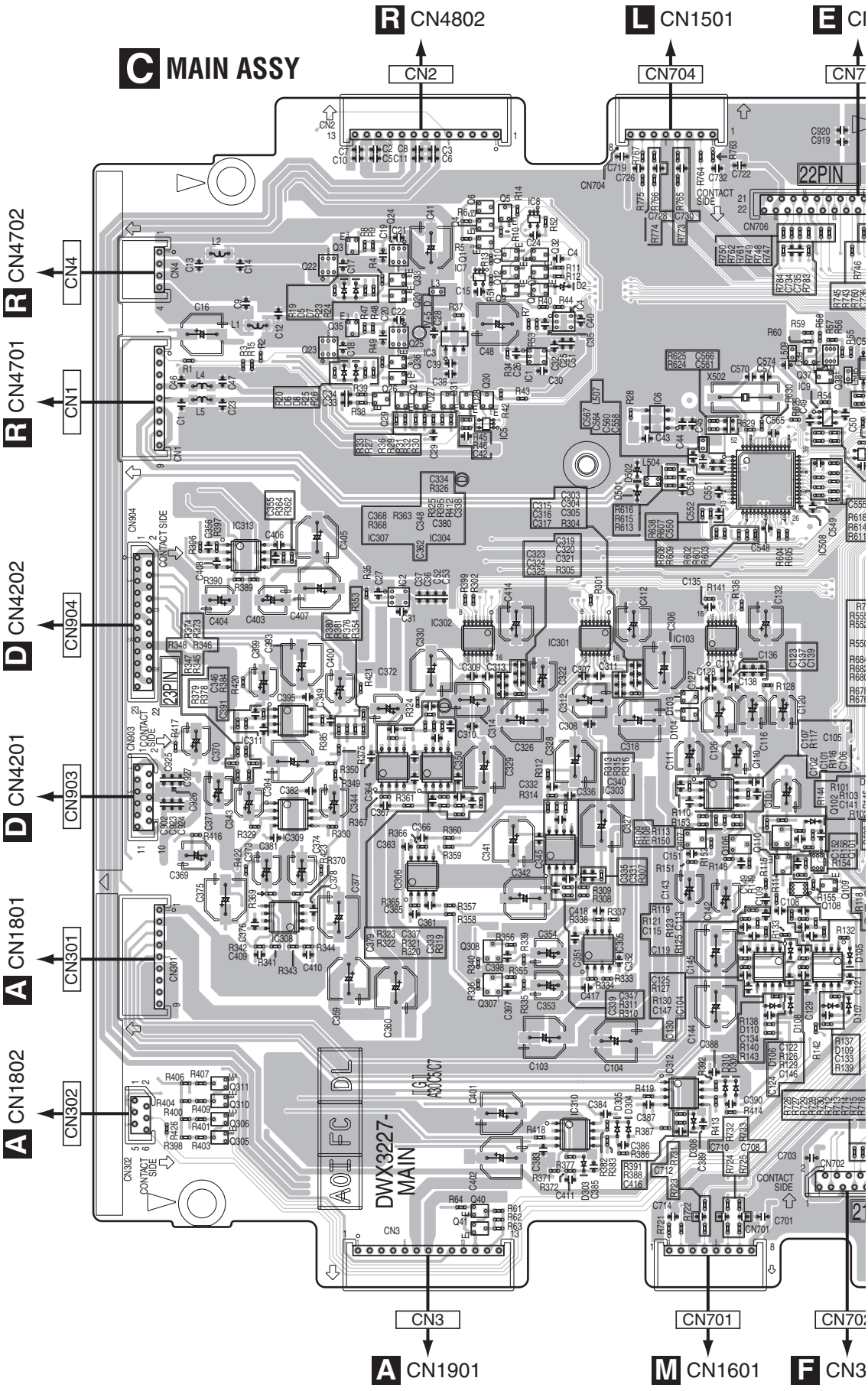
SIDE B

IC1701 IC1703

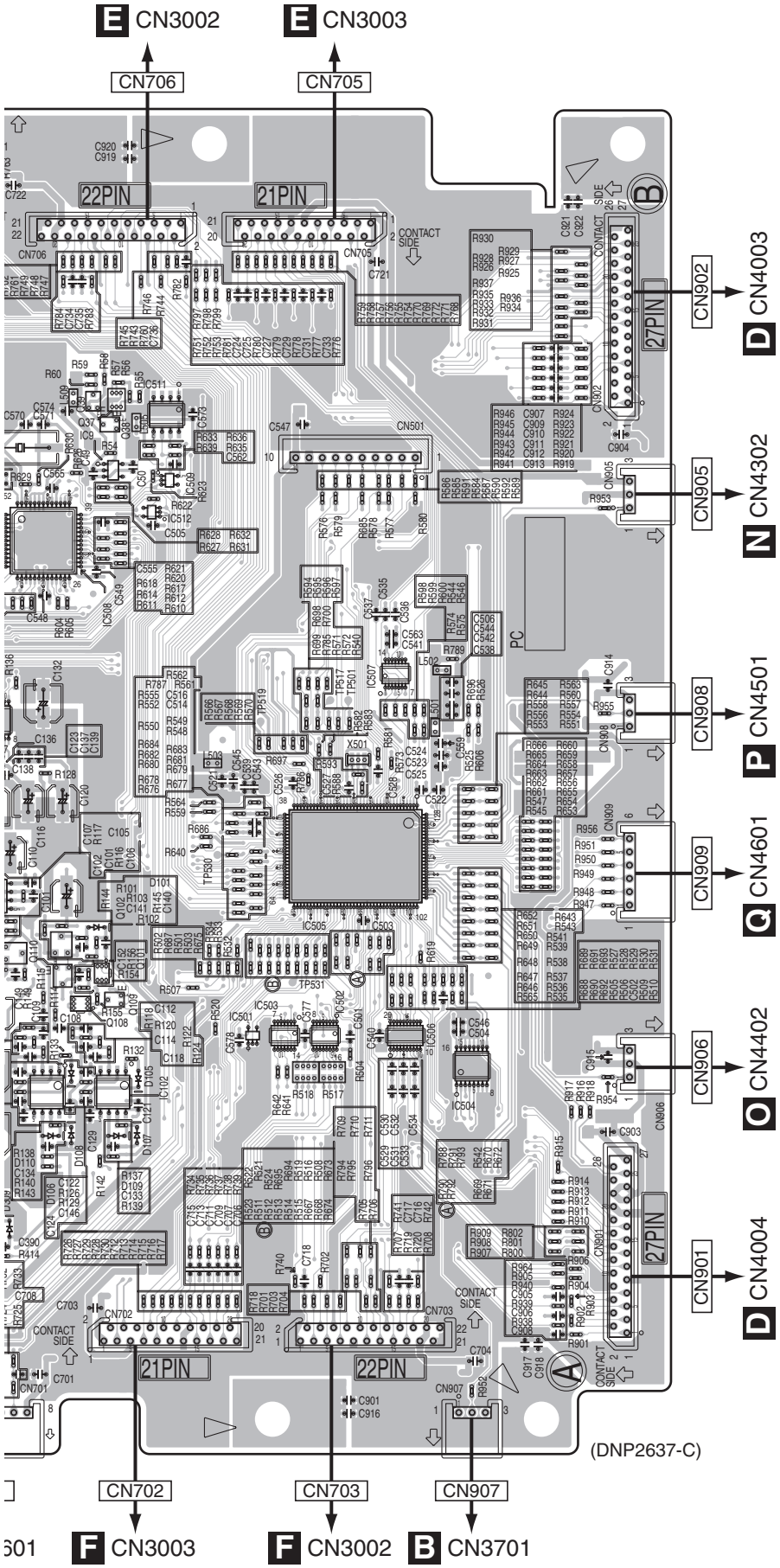


11.2 MAIN ASSY

SIDE A



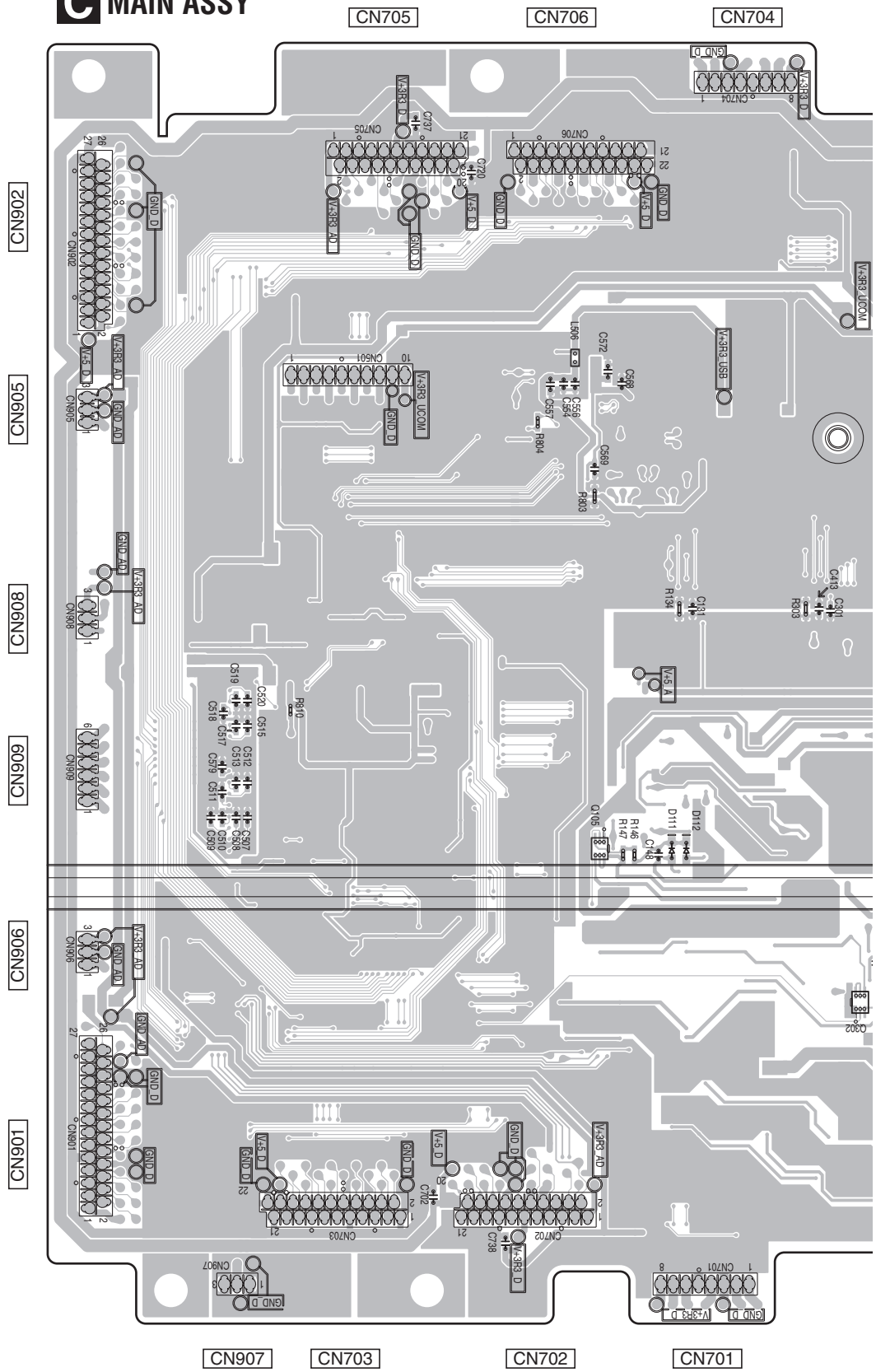
SIDE A



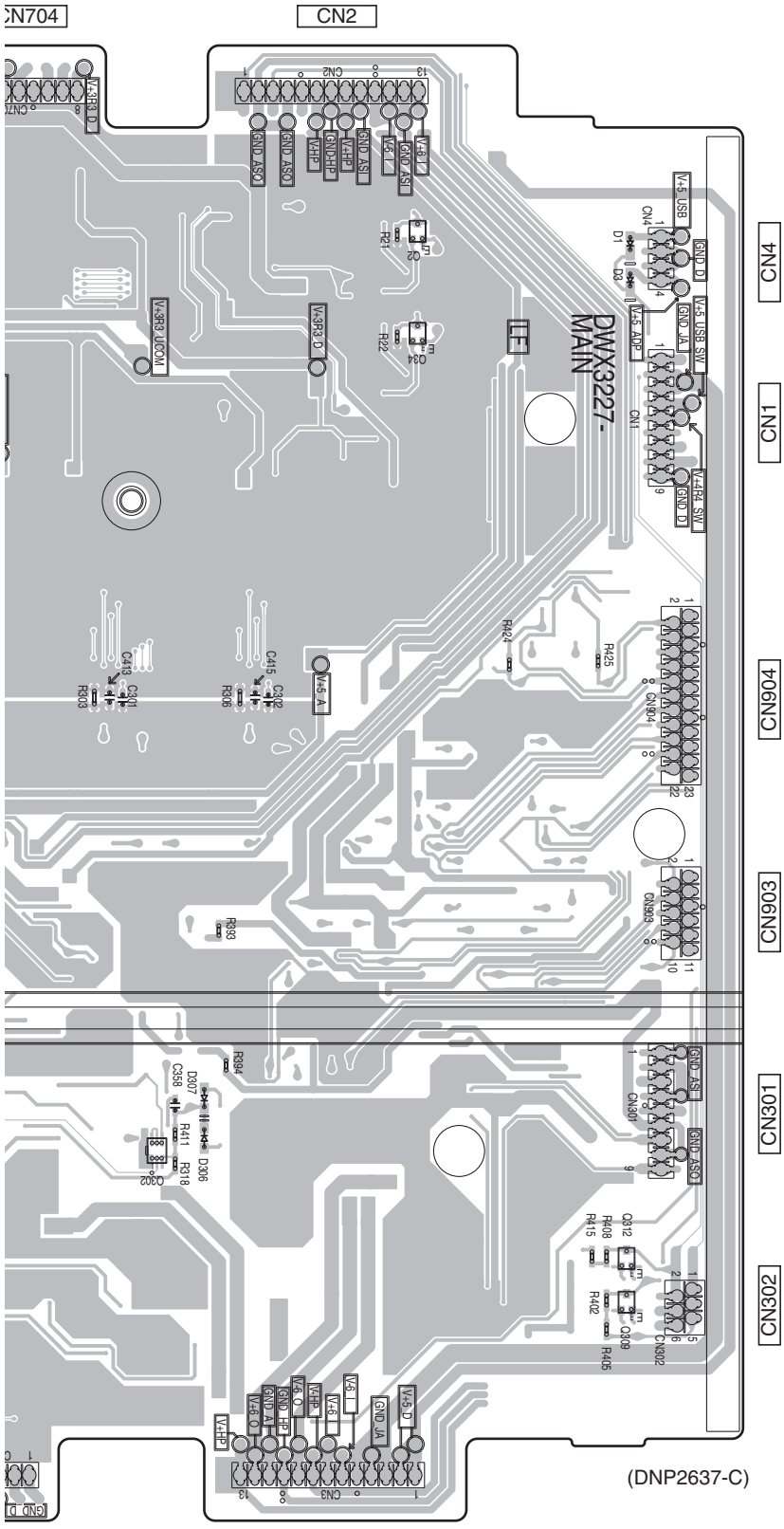
Q6
Q5
Q4 IC8
Q3 Q1
Q24 Q10 Q32
Q22 Q12 Q7
Q33 Q9 Q8
Q20
IC4
Q35 Q25
Q23 IC3 IC1 Q37
Q36 Q39 IC511
Q21 Q38
Q26-Q31
IC9
IC5 IC6 IC509
IC512
IC508
IC313
IC507
IC302 IC103
IC301
IC311
IC505
IC307
IC304
IC101
IC309
Q102
Q107
IC303 Q106
Q110
IC306 Q101
Q108 Q109
IC501 IC502
IC308 IC503 IC506
Q308 IC305 IC504
IC104 IC102
Q307
Q311
IC312
Q310
Q306
Q305 IC310
Q40
Q41

SIDE B

C MAIN ASSY

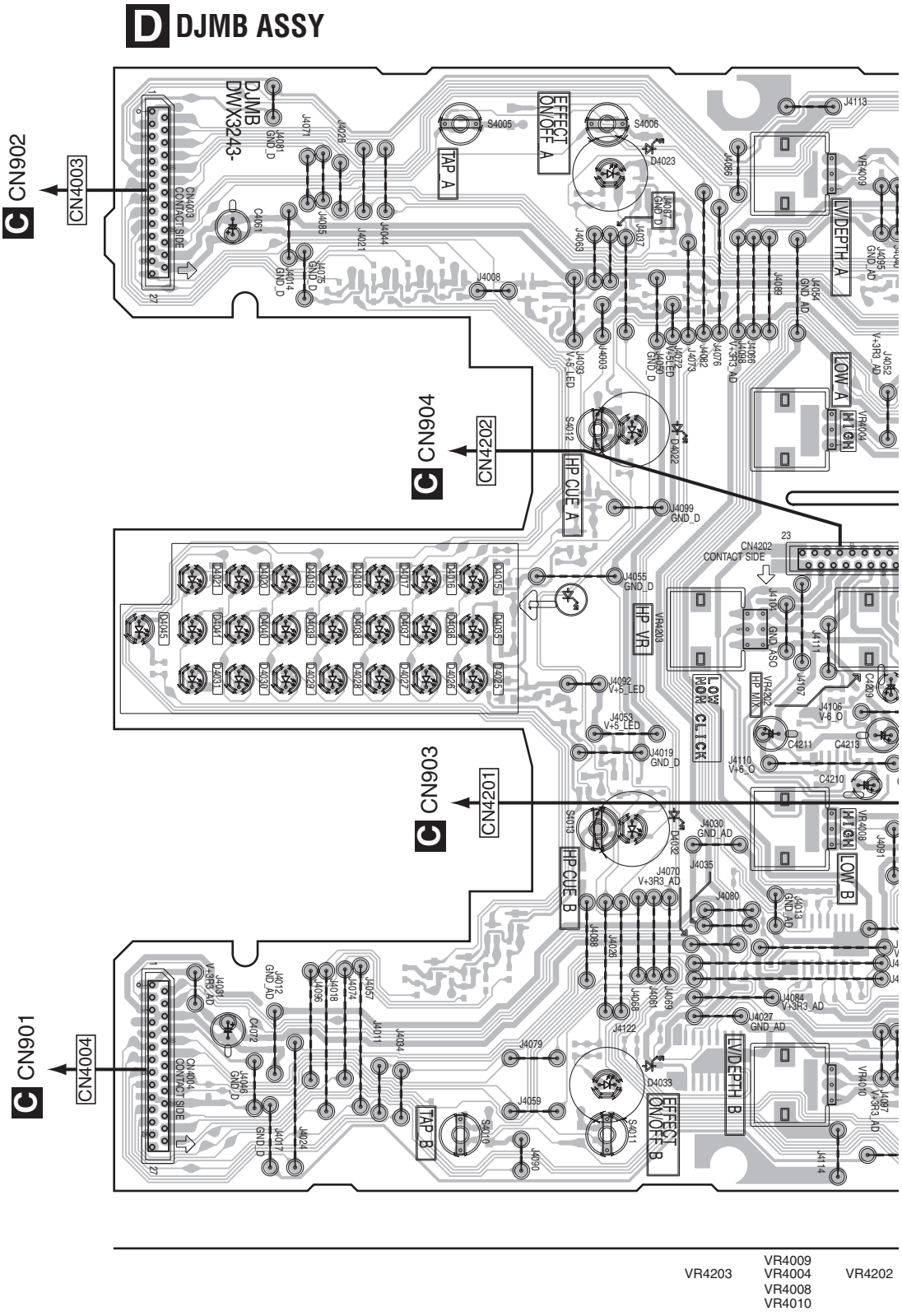


SIDE B

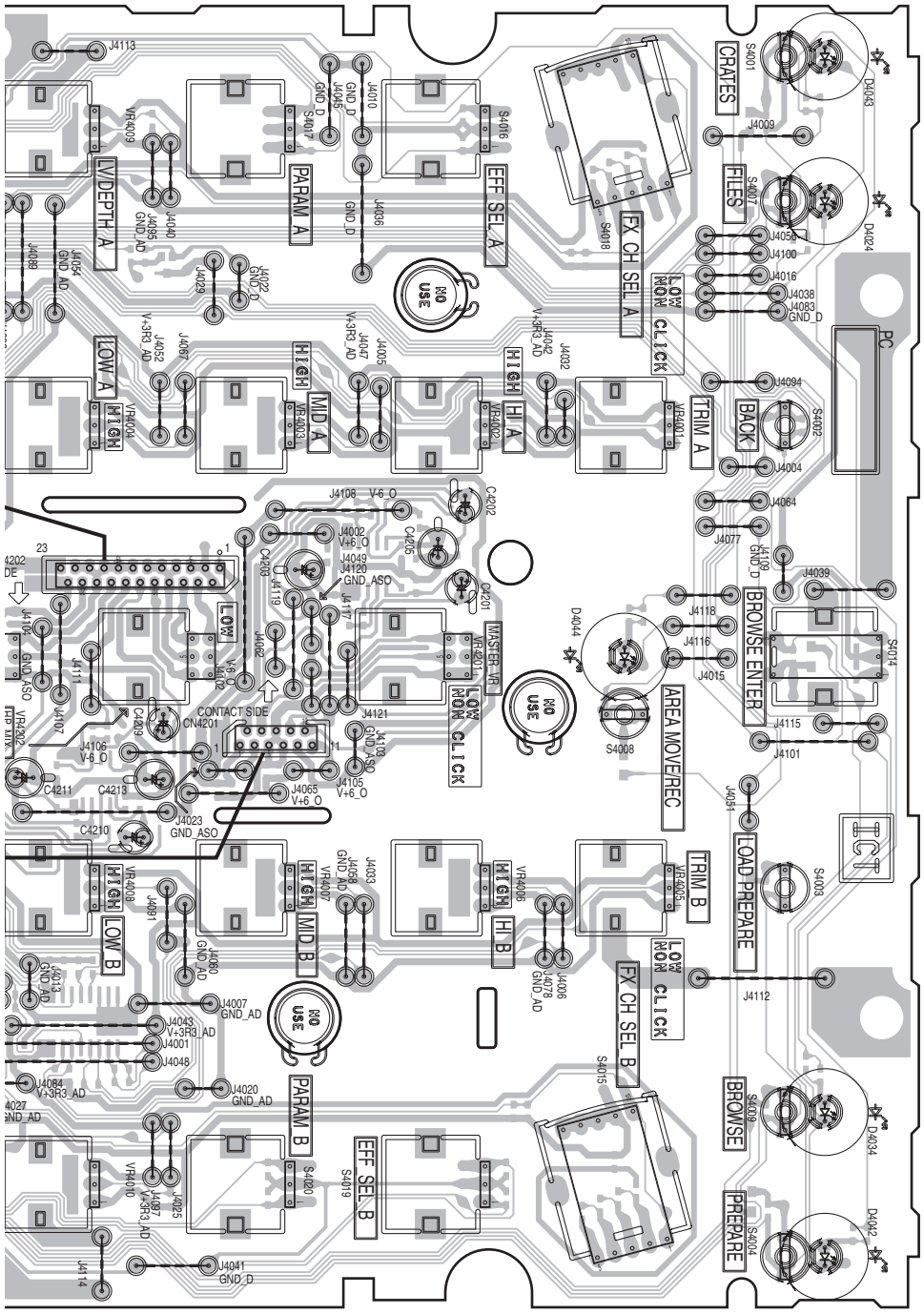

CN704
CN2
CN3
CN4
CN1
CN904
CN903
CN301
CN302
DWX3227-
MAIN
(DNP2637-C)
Q2
Q34
Q105
Q302
Q312
Q309

11.3 DJMB ASSY

SIDE A



SIDE A

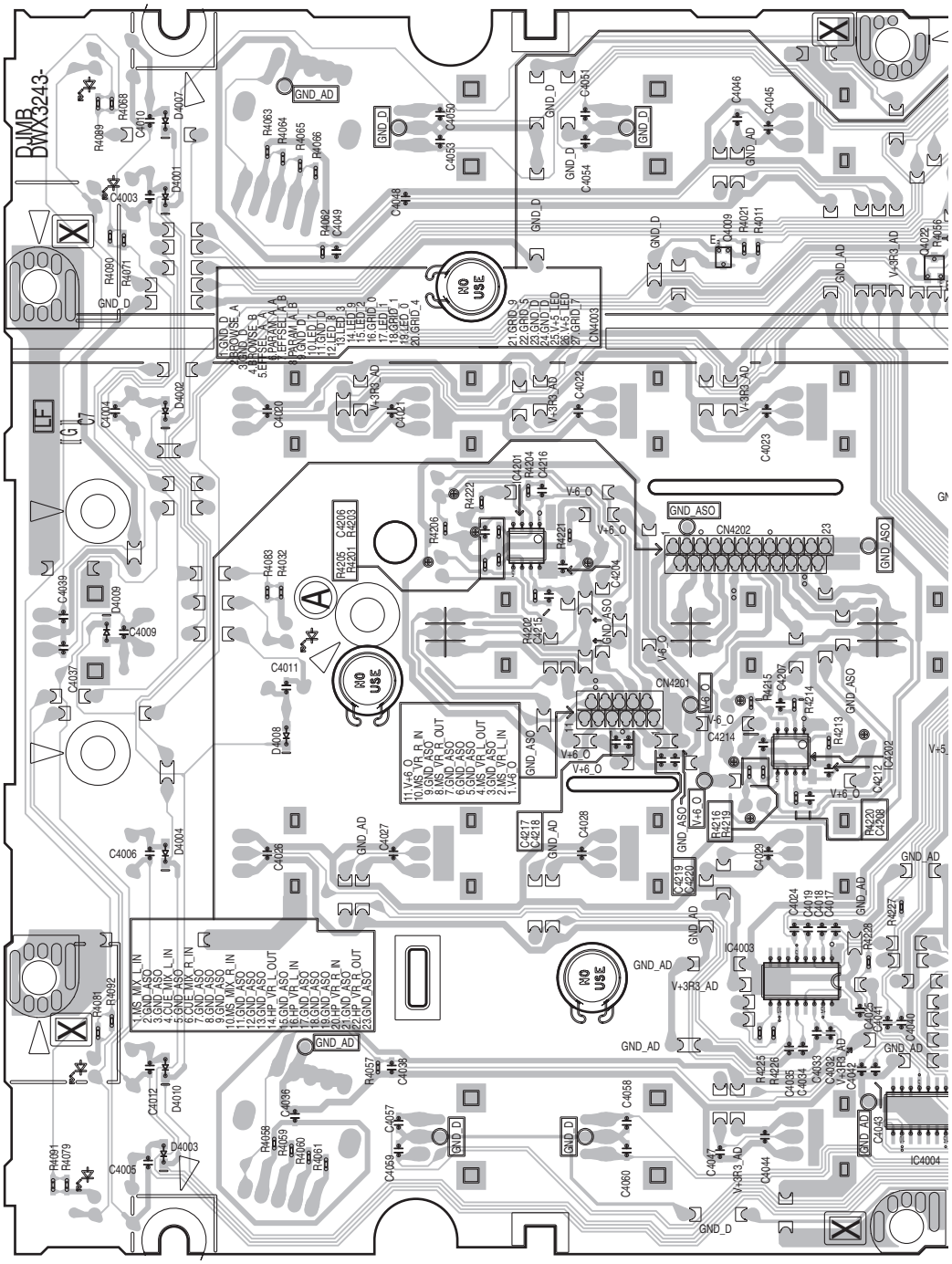


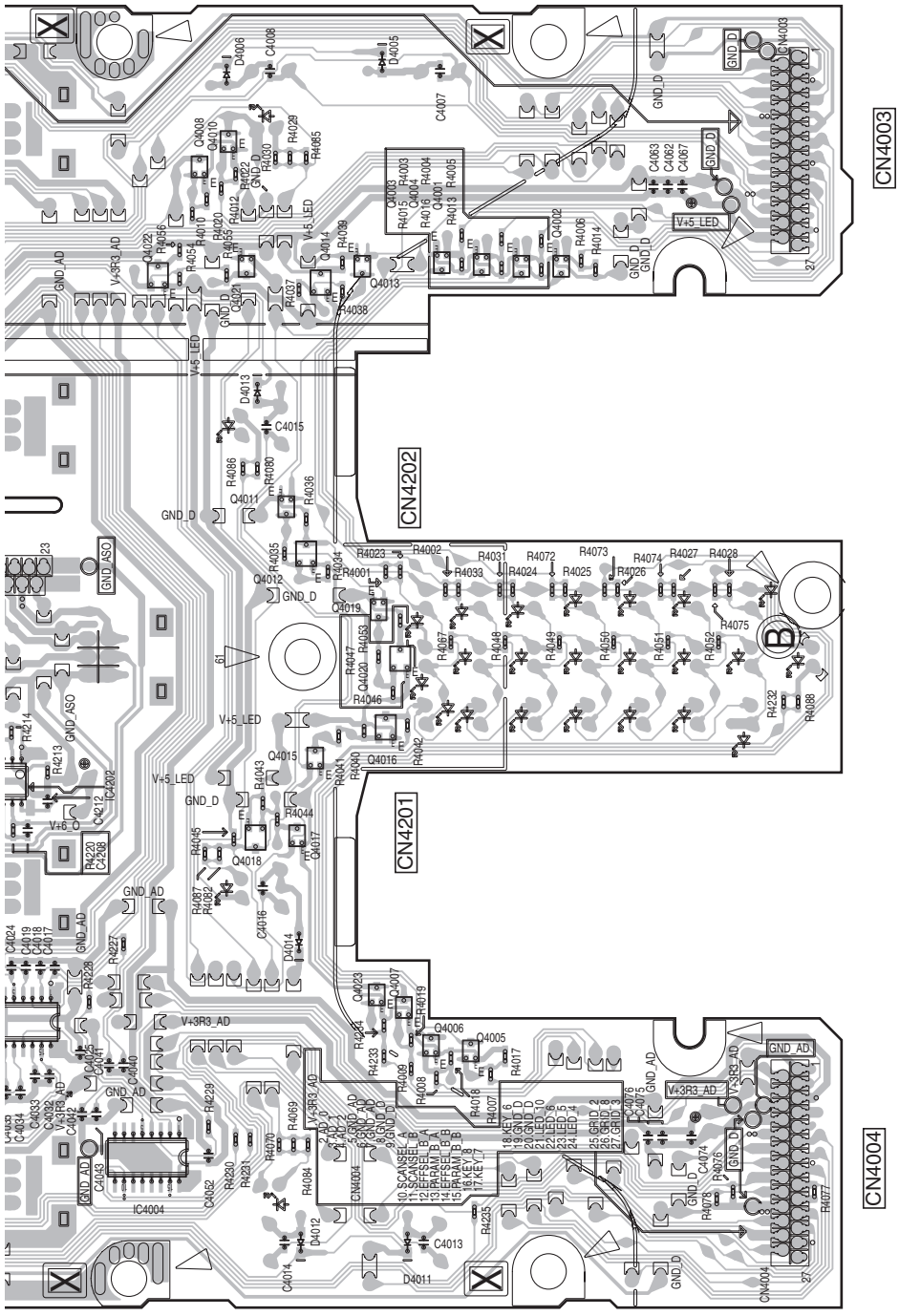
(DNP2640-A)

VR4009
VR4004
VR4008
VR4010
VR4202
VR4003
VR4007
VR4002
VR4201
VR4006
VR4001
VR4005

SIDE B

D DJMB ASSY





(DNP2640-A)

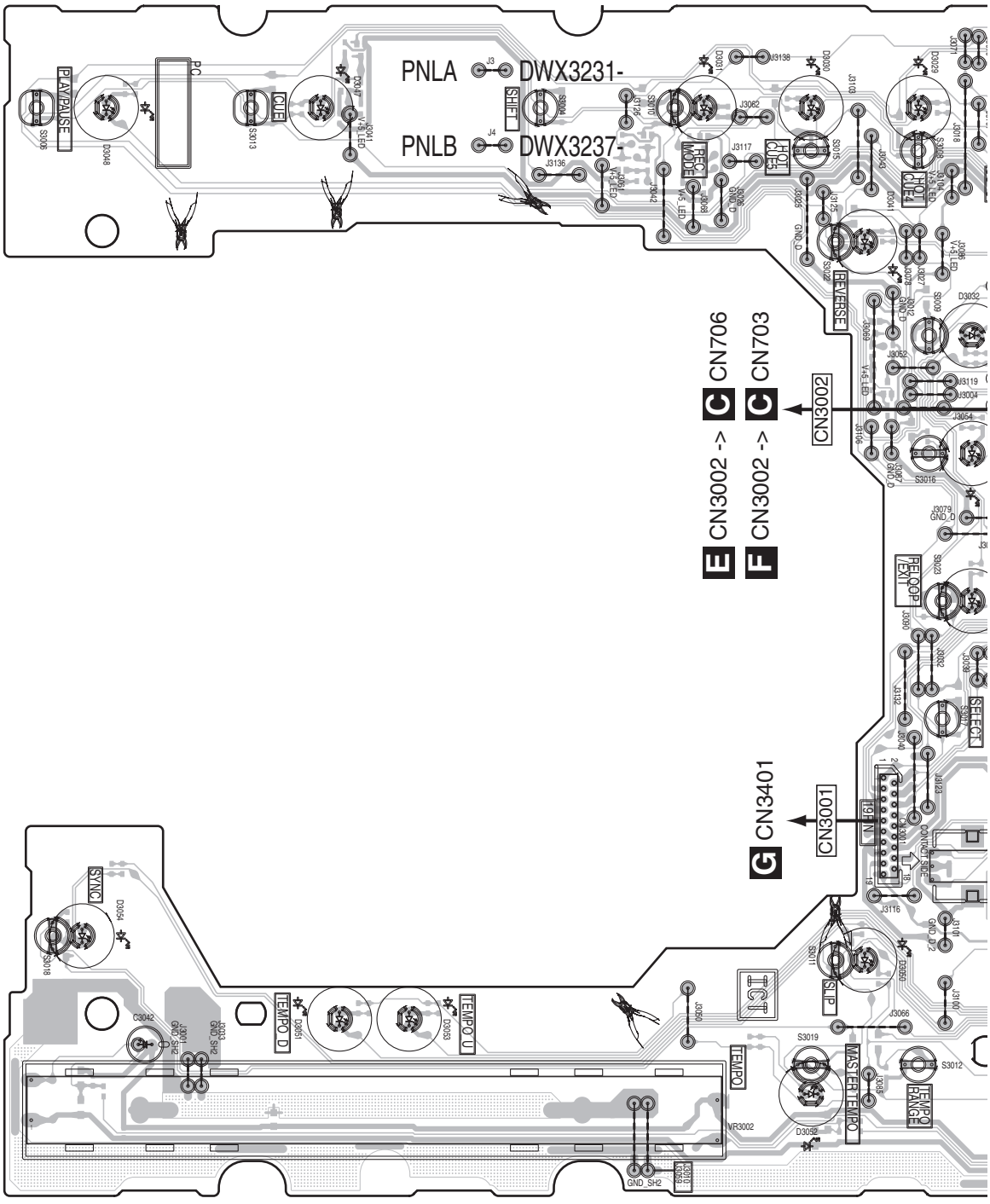
Q4008 Q4010 Q4003 Q4004
Q4022 Q4021 Q4014 Q4013 Q4001 Q4002
Q4011 Q4019
202 Q4012 Q4020
4003 Q4015 Q4016
IC4004 Q4018 Q4017 Q4023 Q4007
Q4006 Q4005

11.4 PNLA, PNLB, LODA and LODB ASSYS

SIDE A

E PNLA ASSY

F PNLB ASSY

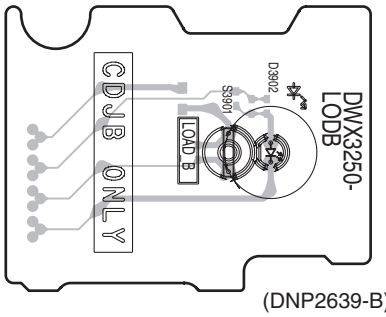


VR3002

SIDE A

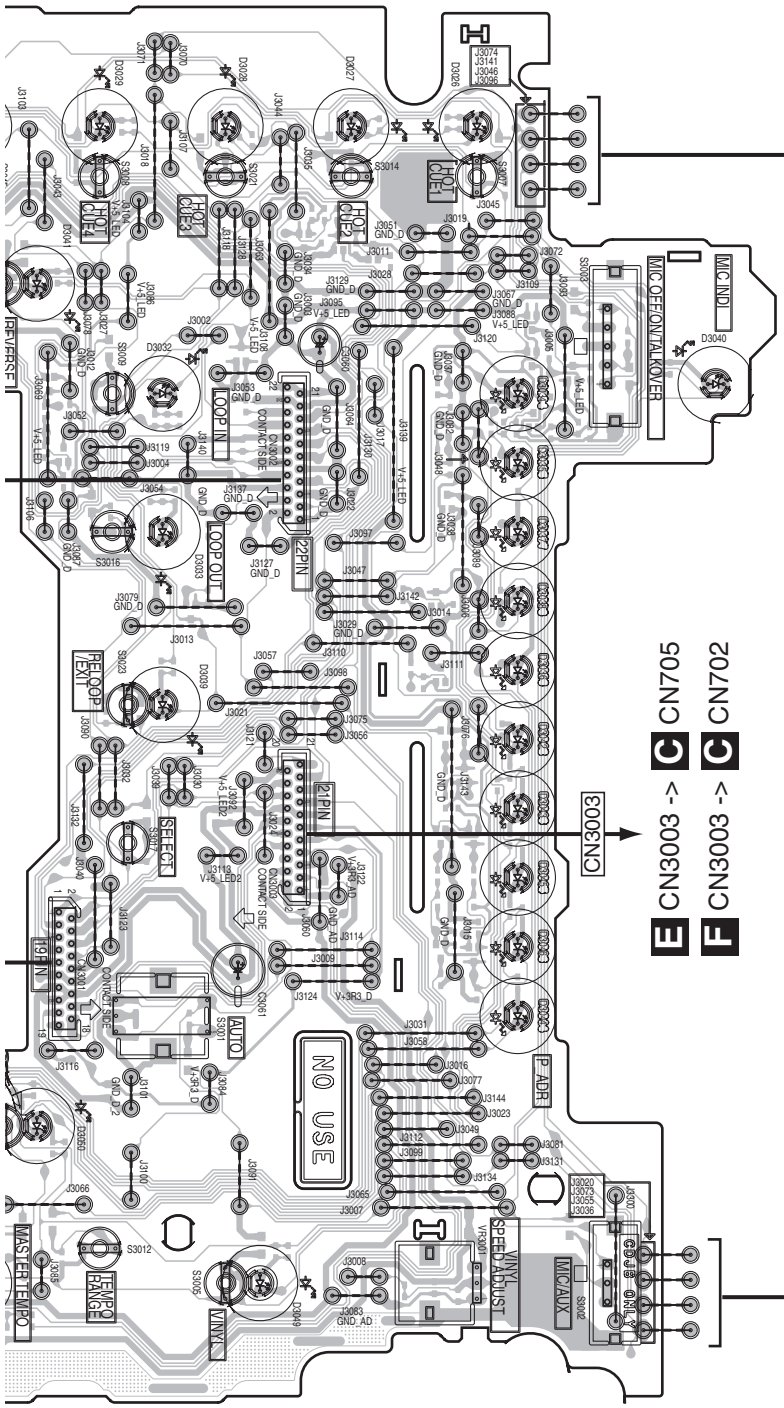
A

I LODB ASSY



(DNP2639-B)

B



C

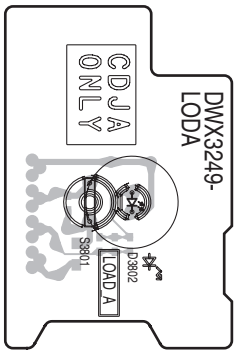
E CN3003 -> C CN705

F CN3003 -> C CN702

CN3003

D

H LODA ASSY



(DNP2639-B)

(DNP2639-B)

E

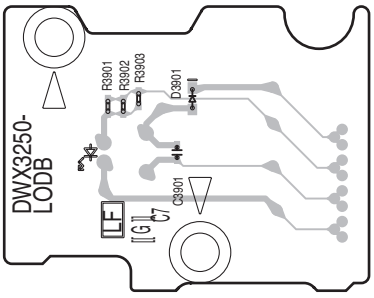
VR3001

F

E F H I

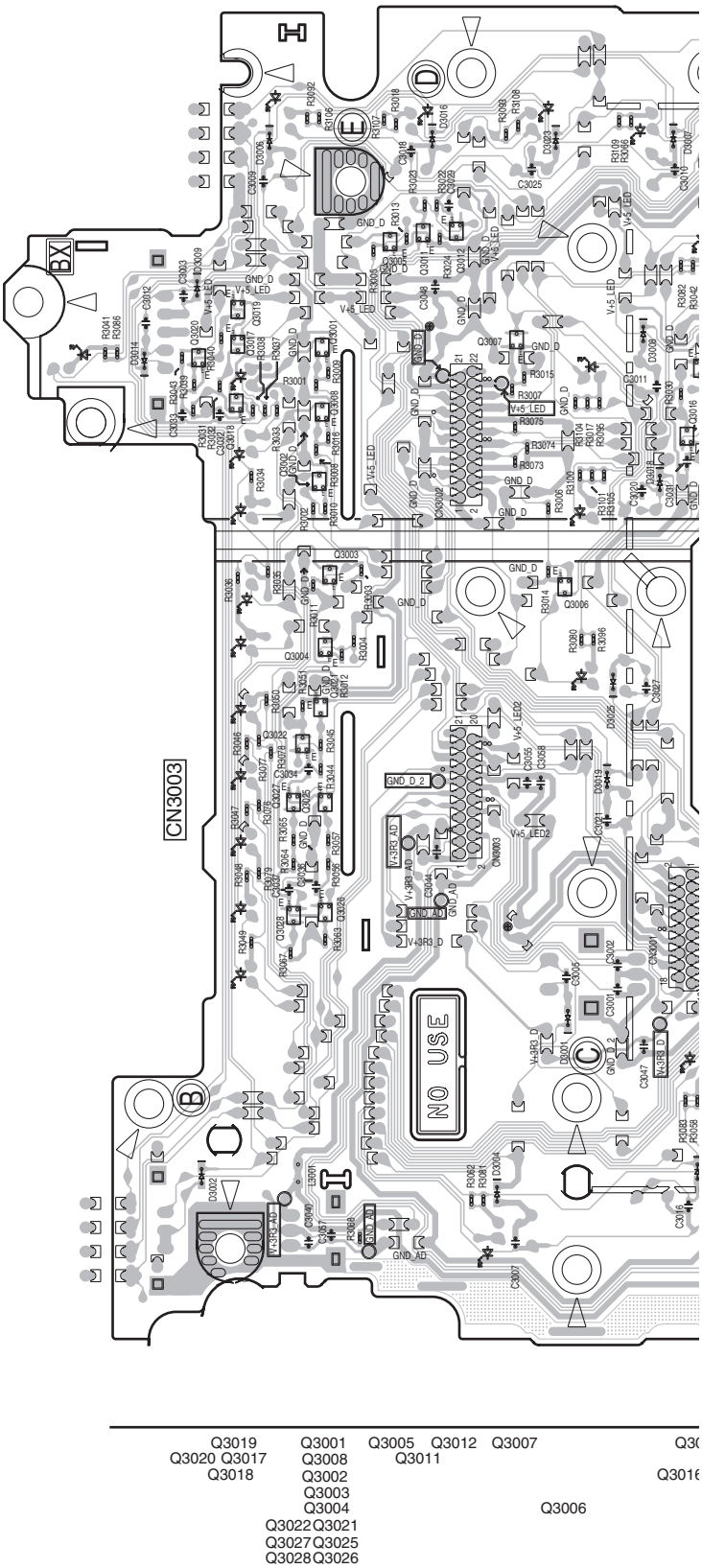
SIDE B

I LODB ASSY

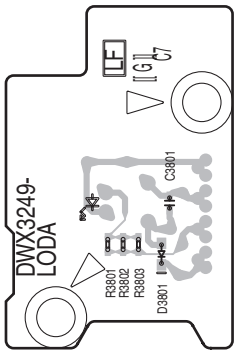


(DNP2639-B)

E PNLA ASSY
F PNLB ASSY

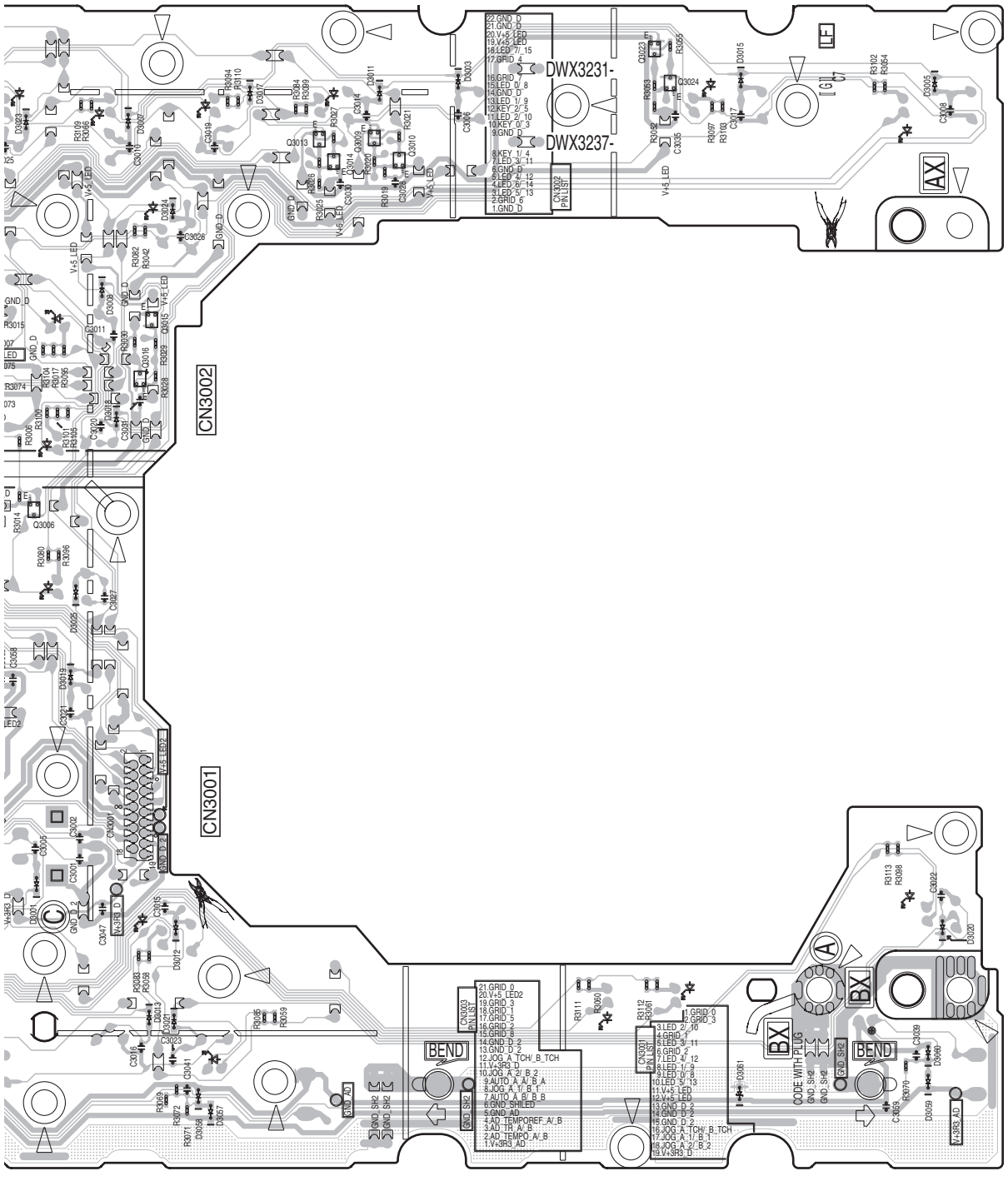


H LODA ASSY



(DNP2639-B)

SIDE B



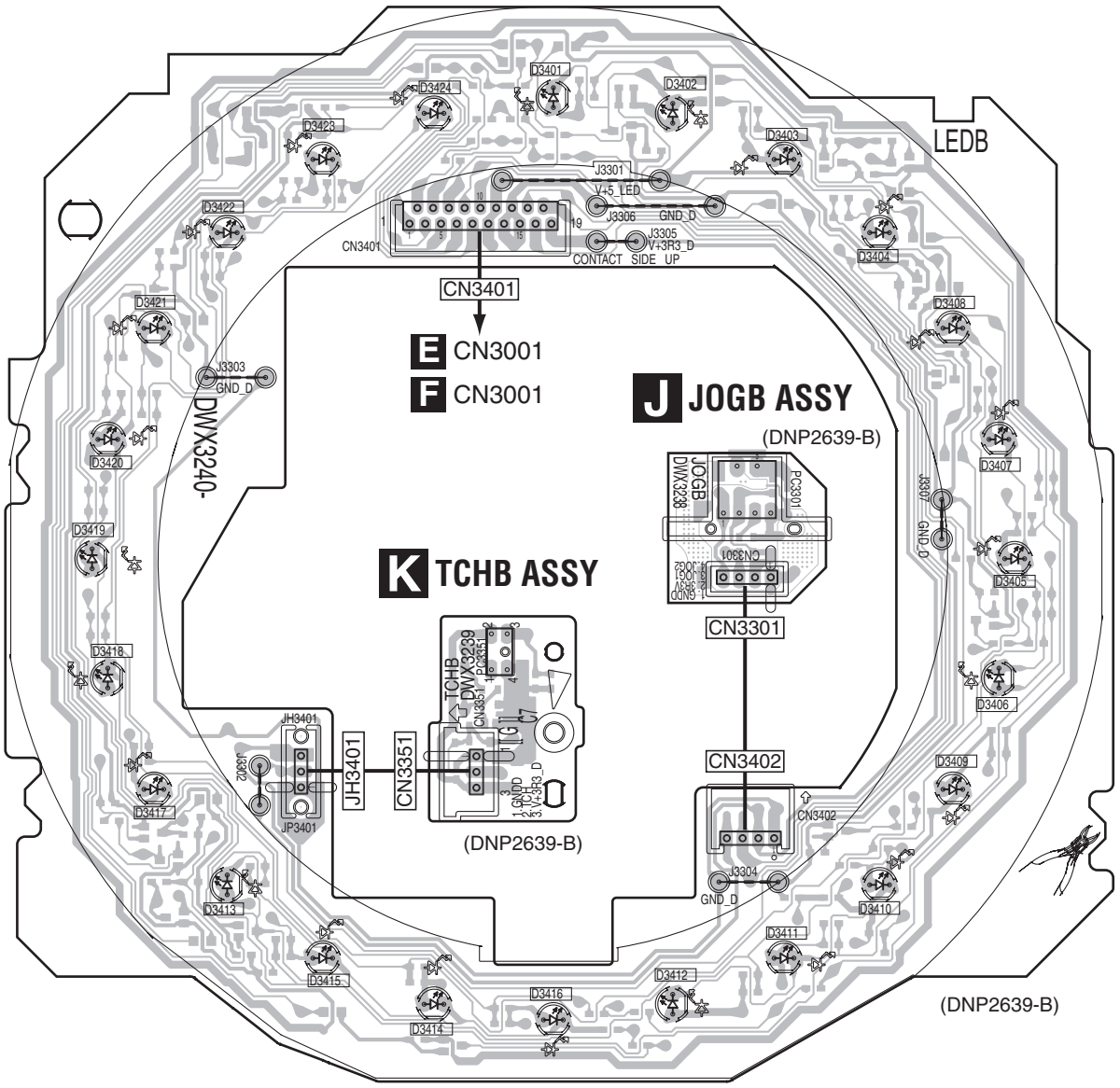
7 Q3015 Q3013 Q3009 Q3023
Q3014 Q3010 Q3024
Q3016
Q3006

11.5 LEDB, JOGB, TCHB and STPB ASSYS

SIDE A

SIDE A

G LEDB ASSY



STPB ASSY

(DNP2639-B)

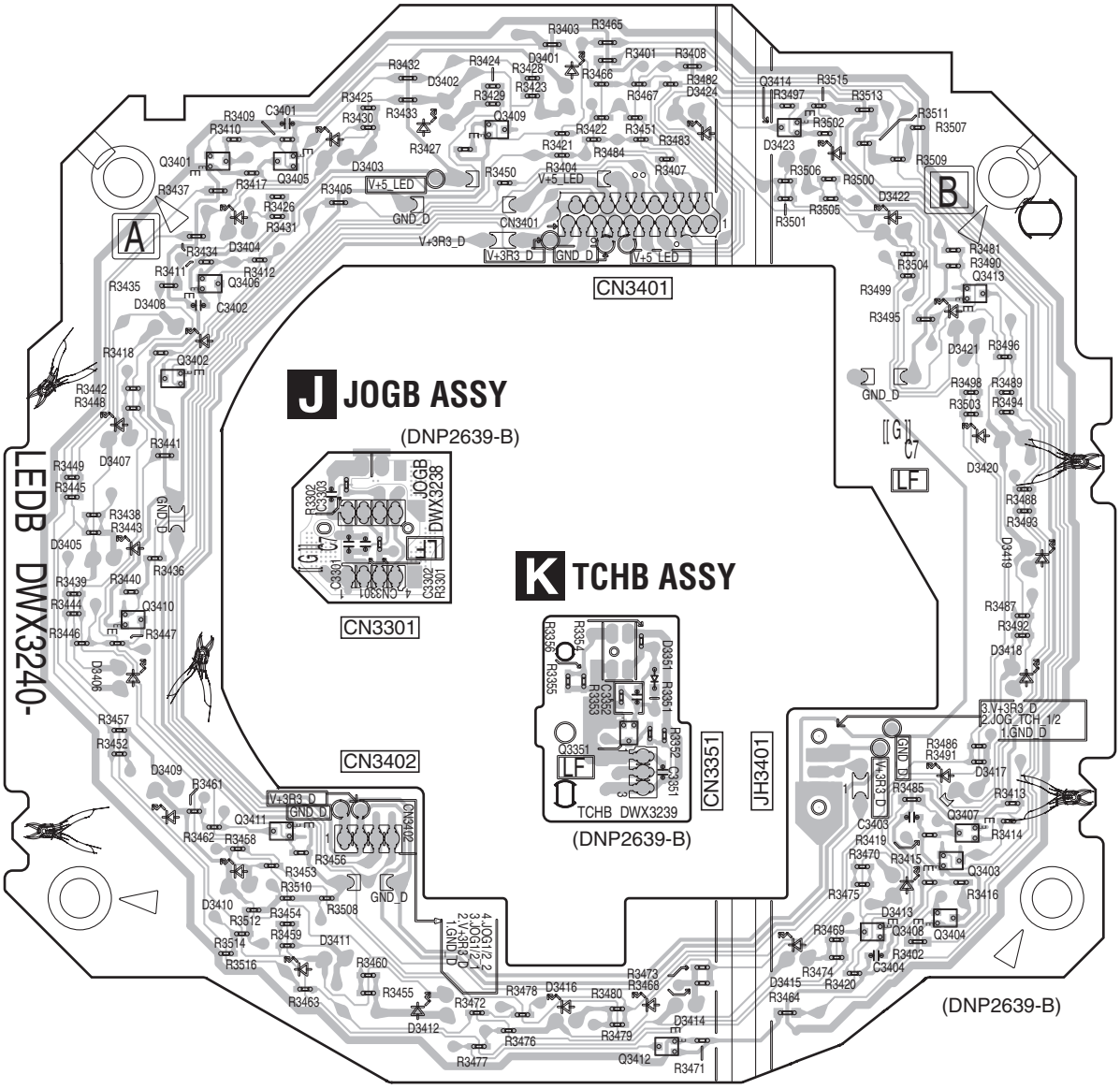
G J K

SIDE B

SIDE B

Q3401 Q3405 Q3409 Q3414 Q3413
Q3402 Q3406 Q3351 Q3407
Q3410 Q3411 Q3412 Q3403
Q3408 Q3404

G LEDB ASSY



J JOGB ASSY

(DNP2639-B)

K TCHB ASSY

(DNP2639-B)

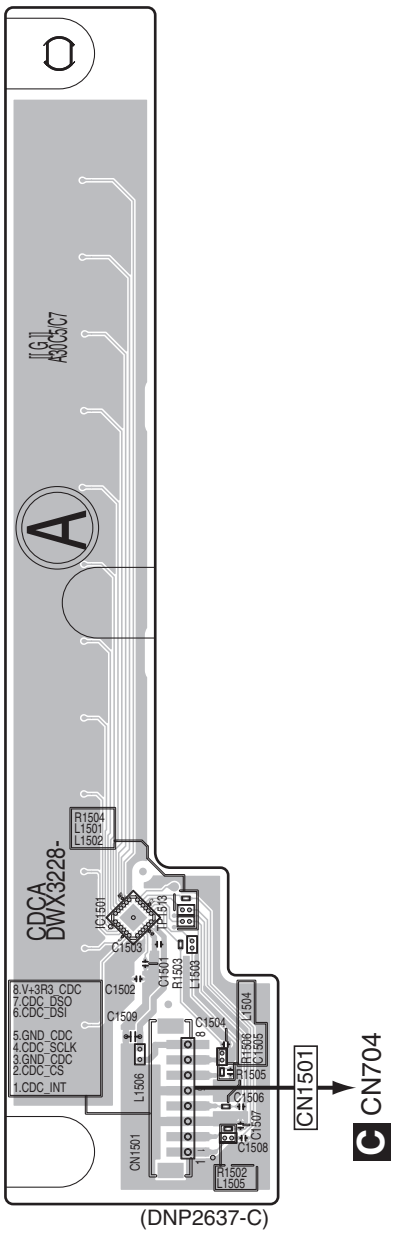
11.6 CDCA ASSY

SIDE A

SIDE B

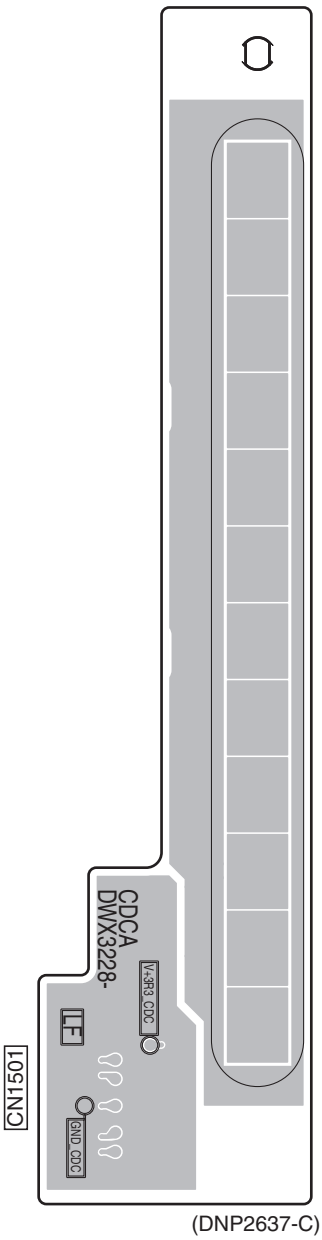
Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.

L CDCA ASSY



(DNP2637-C)

L CDCA ASSY



(DNP2637-C)

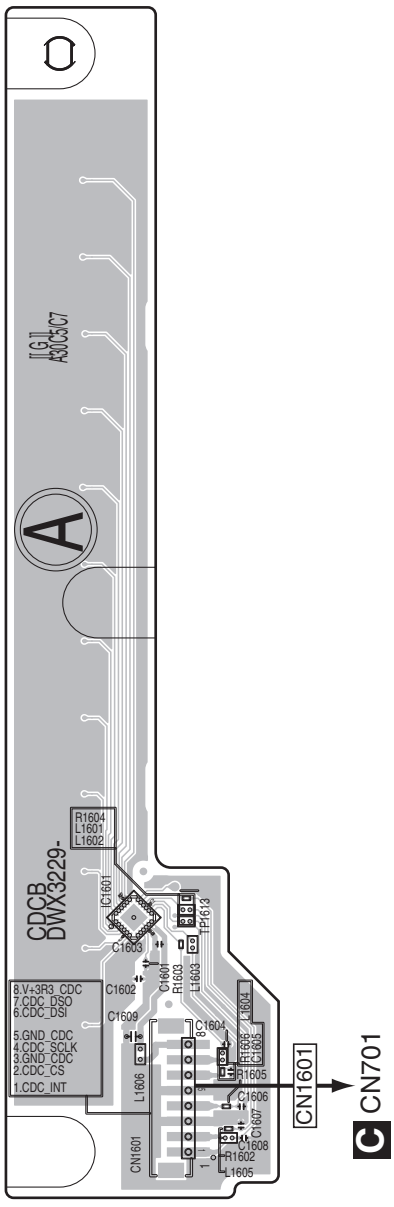
11.7 CDCB ASSY

SIDE A

SIDE B

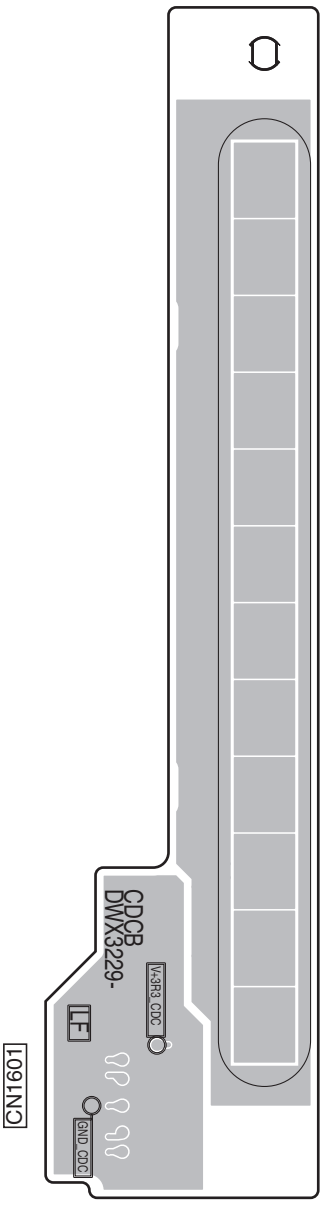
Either the CDCA Assy or CDCB Assy is assembled here. The CDCA Assy and CDCB Assy are interchangeably used and handled similarly in their production management.

M CDCB ASSY



(DNP2637-C)

M CDCB ASSY



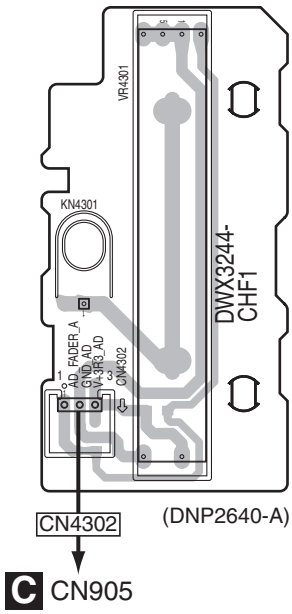
(DNP2637-C)

11.8 CHF1, CHF2, CROS and MSWB ASSYS

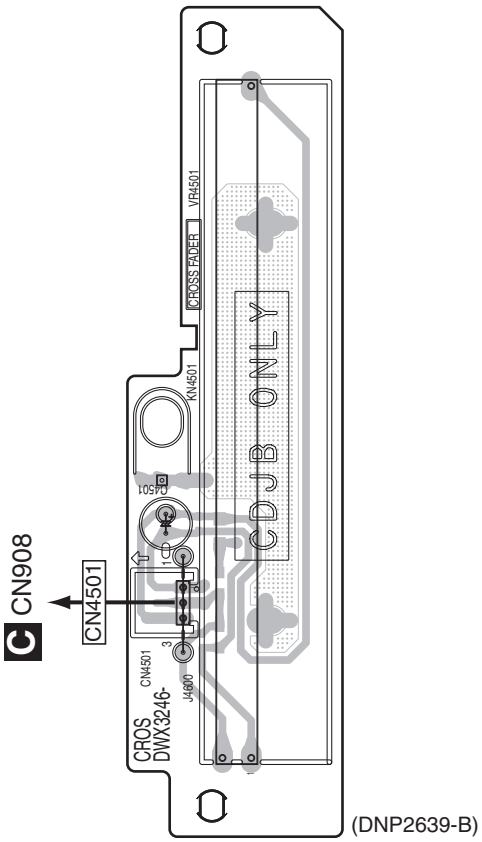
SIDE A

SIDE A

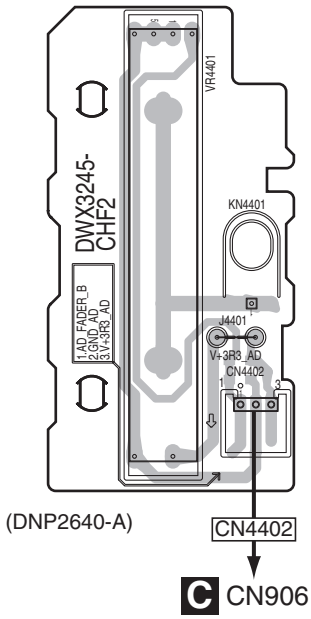
N CHF1 ASSY



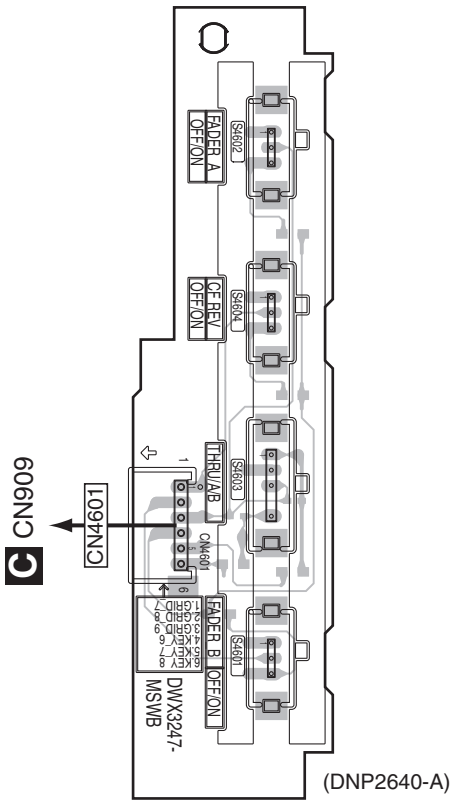
P CROS ASSY



O CHF2 ASSY



Q MSWB ASSY

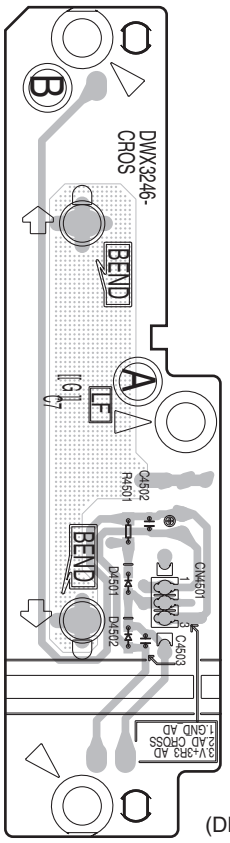


N O P Q

SIDE B

SIDE B

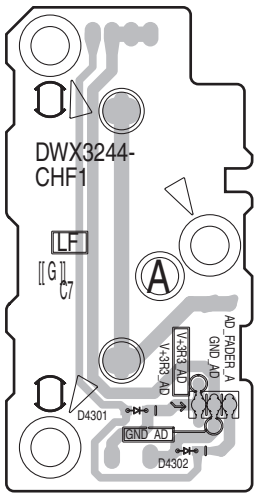
P CROS ASSY



CN4501

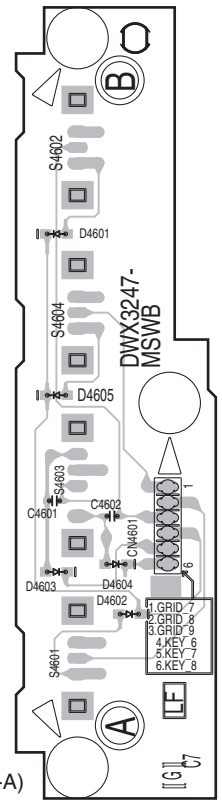
(DNP2639-B)

N CHF1 ASSY



(DNP2640-A) CN4302

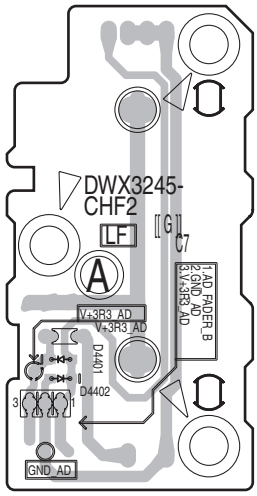
Q MSWB ASSY



CN4601

(DNP2640-A)

O CHF2 ASSY



CN4402

(DNP2640-A)

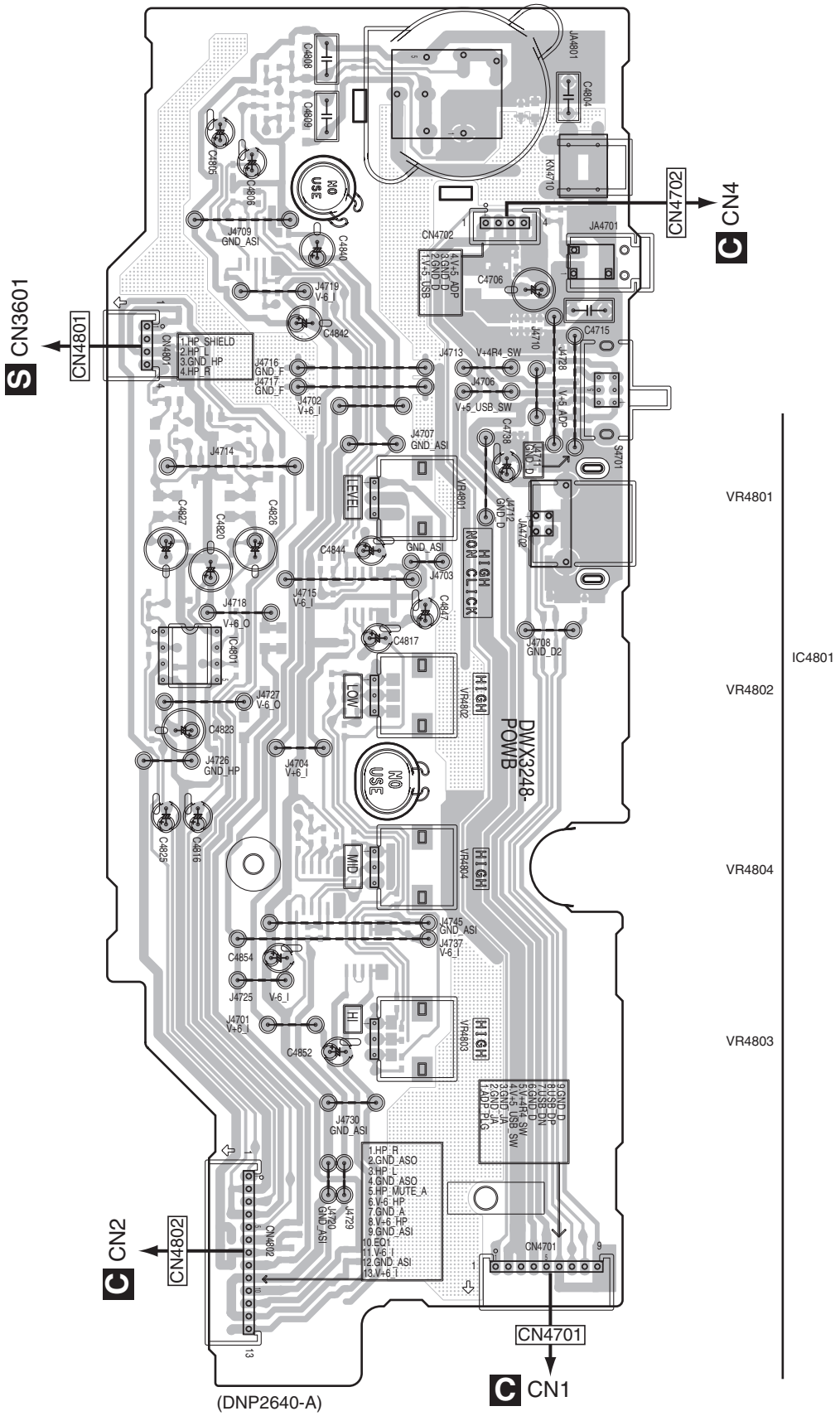
N O P Q

11.9 POWB ASSY

SIDE A

SIDE A

R POWB ASSY



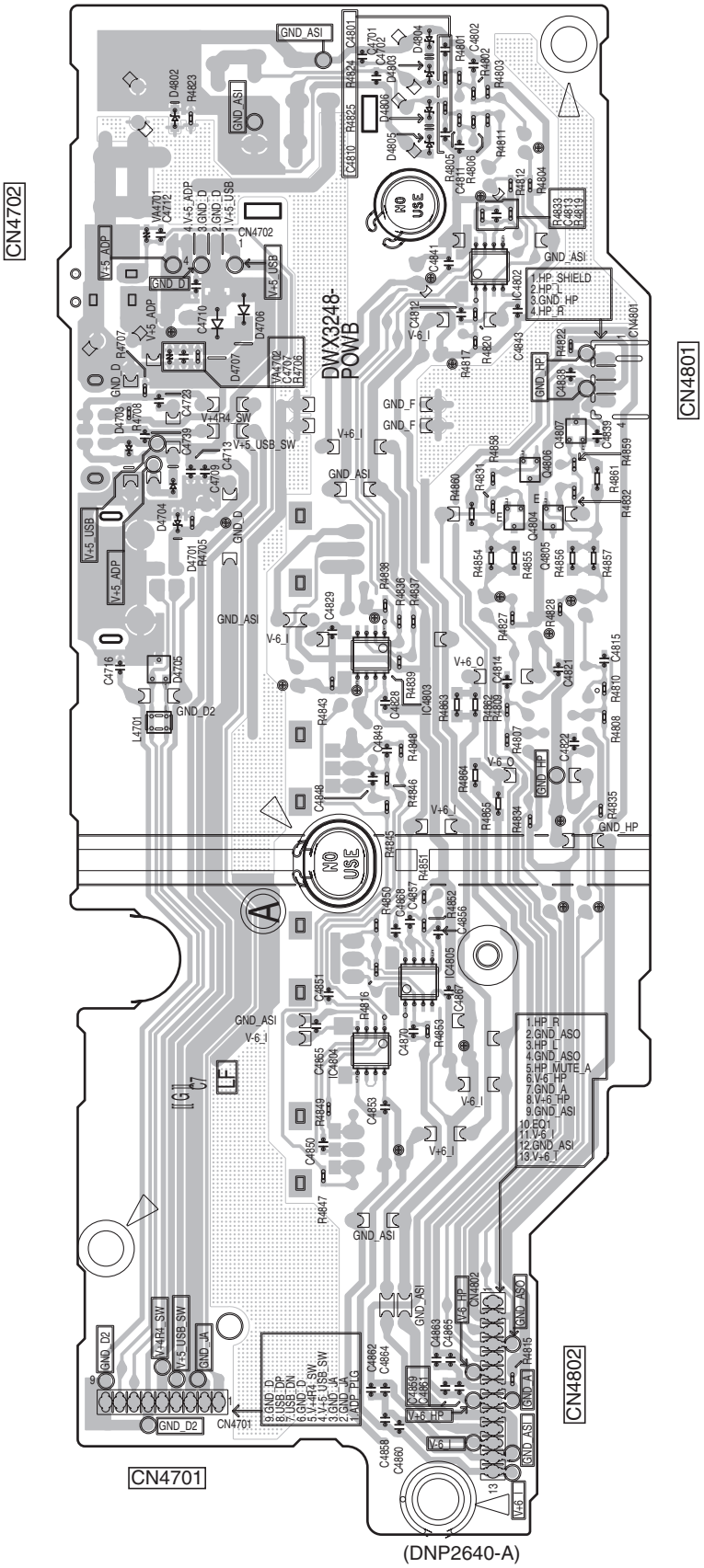
R

SIDE B

SIDE B

A B C D E F

R POWB ASSY

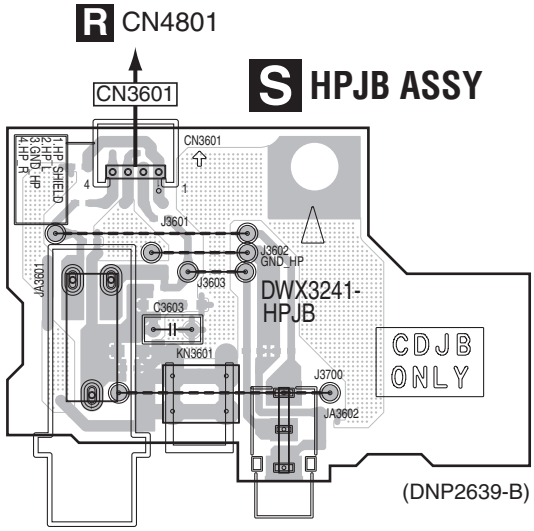


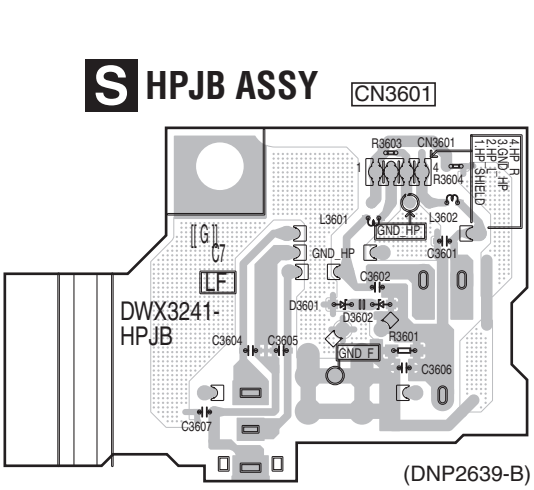
(DNP2640-A)

11.10 HPJB ASSY

SIDE A

SIDE B





12. PCB PARTS LIST

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.*

● *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 Ω → 56 × 10^1 → 561 ····· RD1/4PU 5 6 1 J
47 kΩ → 47 × 10^3 → 473 ····· RD1/4PU 4 7 3 J
0.5 Ω → R50 ····· RN2H R 5 0 K
1 Ω → 1R0 ····· RS1P 1 R 0 K

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

5.62 kΩ → 562 × 10^1 → 5621 ····· RN1/4PC 5 6 2 1 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

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
NSP	1	..MAJA ASSY	DWM2429
	2	..MAIN ASSY	DWX3227
	2	..CDCA ASSY	DWX3228
	2	..CDCB ASSY	DWX3229
	2	..JACK ASSY	DWX3230
NSP	1	..CDJA ASSY	DWM2430
	2	..PNLA ASSY	DWX3231
	2	..JOGB ASSY	DWX3238
	2	..TCHB ASSY	DWX3239
	2	..LEDB ASSY	DWX3240
	2	..LODA ASSY	DWX3249
	2	..STPB ASSY	DWX3280
NSP	1	..CDJB ASSY	DWM2431
	2	..PNLB ASSY	DWX3237
	2	..JOGB ASSY	DWX3238
	2	..TCHB ASSY	DWX3239
	2	..LEDB ASSY	DWX3240
	2	..HPJB ASSY	DWX3241
	2	..MIC2 ASSY	DWX3242
	2	..CROS ASSY	DWX3246
	2	..LODB ASSY	DWX3250
	2	..STPB ASSY	DWX3280
NSP	1	..DJMP ASSY	DWM2432
	2	..DJMB ASSY	DWX3243
	2	..CHF1 ASSY	DWX3244
	2	..CHF2 ASSY	DWX3245
	2	..MSWB ASSY	DWX3247
	2	..POWB ASSY	DWX3248

A JACK ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	1701,1703,1708-1711	NJM4565MD
	IC	1704,1705	NJM2121MD
	IC	1801-1803	NJM4580MD
⚠	IC	1901,1902	BD9851EFV
⚠	IC	1903	BA00BC0WFP
	Q	1705	LTC124EUB
	Q	1801-1805,1807,1809	INC2002AC1
	Q	1811,1813-1816	INC2002AC1
	Q	1901,1904,1910,1912	RTQ040P02
	Q	1902,1911,1913	RTQ045N03
	Q	1903	RT1P141M
	Q	1905,1909,1914	LTC114EUB
	Q	1906	LSC4081UB
	Q	1907	LSA1576UB
	Q	1908	RT1P241M-11
	D	1901-1904	RB160L-40
	D	1905-1907	1SS352

MISCELLANEOUS

Mark	No.	Description	Part No.
	L	1901,1902 POWER INDUCTOR	ATH7047
	L	1903,1904 POWER INDUCTOR	ATH7011
	L	1905-1908 CHIP INDUCTOR	DTL1189
	JA	1701,1803 PIN JACK (2P)	AKB7181
	JA	1801,1802 CANON CONNECTOR	DKB1093
	KN	1901 EARTH TERMINAL	AKF7002
	VR	1701 POTENTIOMETER	DCS1115
	VR	1702 ROTARY VR	DCS1072
	VR	1703-1705 VARIABLE RESISTOR	DCS1100
	S	1801 SLIDE SWITCH	DSH1072
	CN	1701 L-PLUG (5P)	KM200NA5L
	CN	1801 L-PLUG (9P)	KM200NA9L
	CN	1802 6P CONNECTOR	VKN1237
	CN	1901 L-PLUG (13P)	KM200NA13L
⚠	P	1901,1902 PROTECTOR (1A) (1 A)	AEK1073

RESISTORS

Mark	No.	Description	Part No.
	R	1812,1837,1839,1846	RN1/16SE3901D
	R	1821,1823,1825,1827	RN1/16SE1002D
	R	1822,1824,1826,1828	RN1/16SE9101D
	R	1829-1832	RN1/16SE1101D
	R	1906,1909,1918	RS1/4SA682J
	R	1911,1965	RS1/10SR1202D
	R	1913,1964	RS1/10SR1003D
	R	1914,1915,1921,1948	RS1/10SR1502D
	R	1923	RS1/10SR1803D
	R	1932,1945,1950	RS1/10SR1002D

Mark	No.	Description	Part No.
	R	1934,1944	RS1/10SR1802D
	R	1935	RS1/10SR8202D
	R	1936	RS1/10SR8201D
	R	1946,1954	RS1/10SR3002D
	R	1947,1955	RS1/10SR6802D
	R	1949	RS1/10SR6201D
	R	1951	RS1/10SR1203D
	R	1952	RS1/10SR2202D
	R	1966	RS1/10SR4702D
	Other Resistors		RS1/10SR###J
CAPACITORS			
	C	1706,1707,1951	CCSRCH221J50
	C	1708,1711,1716,1721	CEJQ100M35
	C	1709,1710,1979	CCSRCH181J50
	C	1712,1718,1735,1741	CEJQ470M16
	C	1713,1715,1752,1754	CKSRYB103K50
	C	1714,1717,1731,1734	CKSRYB104K50
	C	1722,1724,1729,1745	CEJQ100M35
	C	1736,1737,1740,1742	CKSRYB104K50
	C	1746,1749-1751,1753	CEJQ100M35
	C	1755,1756,1759,1760	CKSRYB104K50
	C	1757,1758,1905,1907	CKSRYB103K50
	C	1761,1762	CCSRCH220J50
	C	1763,1764,1767,1768	CKSRYB104K50
	C	1765,1766	CKSRYB683K16
	C	1770-1772,1803	CKSRYB104K50
	C	1773,1774	CCSRCH101J50
	C	1801,1802,1826-1831	CEJQ470M16
	C	1808,1809,1818,1823	CEJQ101M16
	C	1810-1817	CCSRCH820J50
	C	1819-1822,1824,1825	CKSRYB104K50
	C	1832,1833,1836,1837	DCE1016
	C	1840,1841	CCSRCH222J50
	C	1901,1915,1928,1931	DCH1201
	C	1902,1929,1945,1960	CKSRYB104K50
	C	1904	CCSRCH561J50
	C	1906,1952	CKSRYB332K50
	C	1910,1983,1990,2006	CEJQ470M16
	C	1913,1973,1974	CKSRYB225K6R3
	C	1916	CKSRYB222K50
	C	1919,1933,1949,1964	CCSRCH102J50
	C	1934,1936,1938,1954	CKSRYB105K10
	C	1939	CKSRYB103K50
	C	1940,1941,1944,1950	DCH1201
	C	1943,1947,1959,1962	DCH1165
	C	1956	CKSRYB682K50
	C	1965,1967-1969,1982	CKSRYB105K10
	C	1971,1977,1978	DCH1201
	C	1981	CKSRYB104K50
	C	1985-1987	CCSRCH181J50
	C	2007	CEJQ470M16

B MIC2 ASSY

SEMICONDUCTORS

	IC	3701	NJM4565MD

MISCELLANEOUS

	JA	3701 MIC JACK	DKN1614
	S	3701 SLIDE SWITCH	DSH1025
	CN	3701 PLUG (3P)	KM200NA3
	CN	3702 L-PLUG (5P)	KM200NA5L
	0	SHIELD PLATE/MIC	DNH2986

RESISTORS

	R	3701	RN1/16SE1801D
	R	3702	RN1/16SE1001D
	R	3706	RN1/16SE2200D
	R	3707	RN1/16SE1202D
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	3701	CFTLA103J50
	C	3704	CCSRCH470J50
	C	3705,3707,3711,3713	CKSRYB103K50
	C	3706	CEJQ100M35
	C	3708	CCSRCH331J50
	C	3709	CEJQ101M16
	C	3710,3714	CEJQ470M16
	C	3712	CCSRCH101J50

C MAIN ASSY

SEMICONDUCTORS

⚠	IC	1	NJM2872BF33
⚠	IC	2	NJM2872BF05
⚠	IC	3,6	S-1132B33-U5
	IC	4	S-80927CNMC-G8X
	IC	5	TC7SH08FUS1
	IC	7,8	TC7SH126FU
	IC	9	S-80942CNMC-G9C
	IC	101,102,104,304	NJM4565MD
	IC	103	AK5358AET
	IC	301,302	AK4387ET
	IC	303,306	NJM4580MD
	IC	305,307,310-312	NJM4565MD
	IC	501	TC7SH04FUS1
	IC	502	TC74VHC238FK
	IC	503	TC74VHC08FK
	IC	504	TC74HC4052AFT
	IC	505	DYW1803
	IC	506	TC74LCX541FK
	IC	507	TC74LCX08FK
	IC	508	TUSB3200ACPAH
	IC	511	S-24CS64A0I
	Q	2,3,9,34	RT1P141M
	Q	6,8,10,12	LTC114EUB
	Q	7,26,27,31	LSA1576UB
	Q	20,21,32,33	LTC114EUB
	Q	22-25	RTQ040P02
	Q	28,30,38-41	LTC124EUB
	Q	29,306,311	LSC4081UB
	Q	35	RT1P141M
	Q	36	LTC114EUB
	Q	37	RT3N22M
	Q	101,105,108,302	RT3T22M
	Q	102,106,107,307	2SK209
	Q	109,305,310	LTC124EUB
	Q	110	INC2002AC1
	Q	308	2SK209
	Q	309,312	LSA1576UB
	D	1,3	RB160VA-40
	D	2	RKZ5.6KG(B2)

Mark	No.	Description	Part No.
	D	5-8,101	1SS352
	D	103,104	1SS302
	D	105-112,303-310	1SS352

MISCELLANEOUS

	L	501,506 CHIP SOLID INDUCTOR	QTL1013
	L	504 COIL	ATH7015
	L	507,509 CHIP SOLID INDUCTOR	QTL1013
	X	501 CERAMIC OSCILLATOR	CSS1616
	X	502 CRYSTAL RESONATOR (6 MHz)	DSS1136
	CN	1,301 L-PLUG (9P)	KM200NA9L
	CN	2,3 L-PLUG (13P)	KM200NA13L
	CN	4 L-PLUG (4P)	KM200NA4L
	CN	302 6P CONNECTOR	VKN1237
	CN	701,704 L-PLUG (8P)	KM200NA8L
	CN	702,705 21P CONNECTOR	VKN1252
	CN	703,706 22P CONNECTOR	VKN1253
	CN	901,902 27P CONNECTOR	VKN1842
	CN	903 11P CONNECTOR	VKN1242
	CN	904 23P CONNECTOR	VKN1838
	CN	905-908 L-PLUG (3P)	KM200NA3L
	CN	909 L-PLUG (6P)	KM200NA6L

RESISTORS

	R	307,312	RN1/16SE3300D
	R	309,314,321,326	RN1/16SE4301D
	R	310,315	RN1/16SE1002D
	R	311,316	RN1/16SE2701D
	R	320,322,325,395	RN1/16SE3302D
	R	323,412	RN1/16SE3901D
	R	517,518	RAB4C220J
	R	803	RS1/8SQ0R0J
	Other Resistors		RS1/10SR###J

CAPACITORS

	C	4,17,18,21	CKSRYB103K50
	C	14,47,102,105	CKSRYB104K50
	C	15,24,26-29	CKSRYB104K16
	C	16,48,327,328	CEVW101M16
	C	19,20,524,544	DCH1201
	C	22,30,31,135	CKSRYB103K50
	C	32,36,38,44	CKSRYB105K10
	C	33-35,42,43	CKSRYB104K16
	C	37,39,45,303	CCSRCH102J50
	C	40,50,140,148	CCSRCH222J50
	C	49,501-504,523	CKSRYB104K16
	C	101,110,111,116	CEVW100M16
	C	103,104,144,145	CEVW470M16
	C	106,107,339,340	CCSRCH151J50
	C	108,109,507-513	CKSRYB103K16
	C	112,113,117	CKSRYB104K50
	C	114,115	CKSRYB123K50
	C	118,119	CKSRYB102K50
	C	120,142,143,322	CEVW100M16
	C	121-125,127,128	CKSRYB104K50
	C	126,312,314	CEVW470M6R3
	C	129,130,385,389	CKSRYB105K16
	C	131,152,305,307	CKSRYB104K50
	C	141,149,151,397	CCSRCH100D50
	C	301,302,304,316	CKSRYB103K50
	C	306,326,329,330	CEVW470M16
	C	309,311,313,317	CKSRYB104K50
	C	315,319,323,522	CCSRCH102J50
	C	318,341,342	CCH1565
	C	320,324,550	CKSRYB103K50
	C	321,325,345,347	CKSRYB104K50
	C	333,334	CKSRYB682K50
	C	335,336	CCSRCH561J50
	C	337,338,358	CCSRCH222J50
	C	343,344,353,354	CEVW100M16
	C	348,350-352	CKSRYB104K50
	C	359,360	CEVW101M16
	C	361-364,383,384	CKSRYB104K50
	C	369-372,399,400	CEVW100M16
	C	379,380,561,714	CCSRCH101J50
	C	387,388,391,395	CKSRYB104K50
	C	393,394,401,402	CEVW470M16
	C	398	CCSRCH100D50
	C	413,415,901,914	CKSRYB104K50
	C	514,516,554,558	CKSRYB471K50
	C	515,517-520,528	CKSRYB103K16
	C	525-527,540-543	CKSRYB104K16
	C	538,539,579	CKSRYB103K16
	C	545,557,564,572	DCH1201
	C	547-549,551,555	CKSRYB104K16
	C	552,553	CCSRCH470J50
	C	556,560,565,569	CKSRYB104K16
	C	566	CCSRCH102J50
	C	568	CKSRYB471K50
	C	570	CCSRCH330J50
	C	571	CCSRCH270J50
	C	573,577,578	CKSRYB104K16
	C	701-704,719-722	DCH1201
	C	732	CCSRCH101J50
	C	737,738,903,904	DCH1201
	C	915,917,919,921	CKSRYB104K50

D DJMB ASSY

SEMICONDUCTORS

	IC	4003,4004	TC74HC4052AF
	IC	4201	NJM4580MD
	IC	4202	NJM4565MD
	Q	4001-4010,4023	LSC4081UB
	Q	4011,4013,4015,4017	LTC124EUB
	Q	4012,4014,4016,4018	2SB1197K
	Q	4019,4021	LTC124EUB
	Q	4020,4022	2SB1197K
	D	4001-4014	1SS352
	D	4015,4025,4035,4044	SLI-343U8R(HJK)
	D	4016,4017,4022-4024	SLI-343Y8Y(KLM)
	D	4018-4021,4028-4031	SLI-343M8G(GHJ)
	D	4026,4027,4032-4034	SLI-343Y8Y(KLM)
	D	4036,4037,4042,4043	SLI-343Y8Y(KLM)
	D	4038-4041	SLI-343M8G(GHJ)
	D	4045	SLI-343U8R(HJK)

MISCELLANEOUS

	VR	4001,4005 ROTARY VR	DCS1117
	VR	4002-4004,4006-4010 ROTARY VR	DCS1078
	VR	4201,4203 VARIABLE RESISTOR	RCV1118

Mark	No.	Description	Part No.
	VR	4202 POTENTIOMETER	DCS1092
	S	4001-4004,4007-4009 TACT SWITCH	DSG1089
	S	4005,4006,4010-4013 TACT SWITCH	DSG1079
	S	4014 ROTARY SW	CSD1153
	S	4015,4018 ROTARY SWITCH	DSG1099
	S	4016,4017,4019 12MM GS ENCODER	DSX1064
	S	4020 12MM GS ENCODER	DSX1064
	CN	4003,4004 27P CONNECTOR	VKN1842
	CN	4201 11P CONNECTOR	VKN1242
	CN	4202 23P CONNECTOR	VKN1838
RESISTORS			
	R	4058,4063	RS1/10SR2201D
		Other Resistors	RS1/10SR###J
CAPACITORS			
	C	4020-4023,4025-4029	CKSRYB104K50
	C	4036,4038,4044,4045	CKSRYB104K50
	C	4037,4039,4050,4051	CKSRYB103K50
	C	4048,4049,4052,4067	CKSRYB104K50
	C	4053,4054,4057-4060	CKSRYB103K50
	C	4061,4072,4203,4205	CEJQ470M16
	C	4074,4204,4206,4212	CKSRYB104K50
	C	4201,4202,4209,4210	CEJQ100M35
	C	4211,4213	CEJQ470M16
	C	4214	CKSRYB104K50

E PNLA ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q	3001-3008	LSC4081UB
	Q	3009,3011,3013,3015	LTC124EUB
	Q	3010,3012,3014,3016	LSA1576UB
	Q	3017,3019,3021,3023	LTC124EUB
	Q	3018,3020,3022,3024	LSA1576UB
	Q	3025,3027	LTC124EUB
	Q	3026,3028	LSA1576UB
	D	3001,3003-3009	1SS352
	D	3011-3021,3023-3025	1SS352
	D	3026-3033,3039,3047	SLI-343Y8Y(KLM)
	D	3034-3038,3040-3046	SLI-343U8R(HJK)
	D	3048,3051,3053	SLI-343M8C(FGHJ)
	D	3049	SLR343BC4T(JK)
	D	3050,3052	SLI-343U8R(HJK)
	D	3054	SLI-343Y8Y(KLM)
	D	3057-3060	1SS352
	D	3061	RKZ5.6KG(B2)
MISCELLANEOUS			
	VR	3001 ROTARY VR	DCS1104
	VR	3002 VR	DCV1009
	S	3001 ENCODER	DSX1082
	S	3003 SLIDE SWITCH	DSH1058
	S	3004,3005,3010-3012 TACT SWITCH	DSG1089
	S	3006,3013 TACT SWITCH	DSG1117
	S	3007-3009,3014-3016 TACT SWITCH	DSG1079
	S	3017-3019 TACT SWITCH	DSG1089
	S	3021-3023 TACT SWITCH	DSG1079
	CN	3001 19P CONNECTOR	VKN1250
	CN	3002 22P CONNECTOR	VKN1253
	CN	3003 21P CONNECTOR	VKN1252
RESISTORS			
		All Resistors	RS1/10SR###J
CAPACITORS			
	C	3001,3002,3039,3041	CKSRYB103K16
	C	3028-3037,3040,3055	CKSRYB104K16
	C	3044,3047,3048,3058	DCH1201
	C	3057,3059	CKSRYB104K16
	C	3060	CEJQ101M16
	C	3061	CEAL101M16

F PNLB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q	3001-3008	LSC4081UB
	Q	3009,3011,3013,3015	LTC124EUB
	Q	3010,3012,3014,3016	LSA1576UB
	Q	3017,3019,3021,3023	LTC124EUB
	Q	3018,3020,3022,3024	LSA1576UB
	Q	3025,3027	LTC124EUB
	Q	3026,3028	LSA1576UB
	D	3001-3009,3011-3021	1SS352
	D	3023-3025,3057-3060	1SS352
	D	3026-3033,3039,3047	SLI-343Y8Y(KLM)
	D	3034-3038,3040-3046	SLI-343U8R(HJK)
	D	3048,3051,3053	SLI-343M8C(FGHJ)
	D	3049	SLR343BC4T(JK)
	D	3050,3052	SLI-343U8R(HJK)
	D	3054	SLI-343Y8Y(KLM)
	D	3061	RKZ5.6KG(B2)
MISCELLANEOUS			
	VR	3001 ROTARY VR	DCS1104
	VR	3002 VR	DCV1009
	S	3001 ENCODER	DSX1082
	S	3002 SLIDE SWITCH	DSH1066
	S	3003 SLIDE SWITCH	DSH1058
	S	3004,3005,3010-3012 TACT SWITCH	DSG1089
	S	3006,3013 TACT SWITCH	DSG1117
	S	3007-3009,3014-3016 TACT SWITCH	DSG1079
	S	3017-3019 TACT SWITCH	DSG1089
	S	3021-3023 TACT SWITCH	DSG1079
	CN	3001 19P CONNECTOR	VKN1250
	CN	3002 22P CONNECTOR	VKN1253
	CN	3003 21P CONNECTOR	VKN1252
RESISTORS			
		All Resistors	RS1/10SR###J
CAPACITORS			
	C	3001,3002,3039,3041	CKSRYB103K16
	C	3028-3037,3040,3055	CKSRYB104K16
	C	3044,3047,3048,3058	DCH1201
	C	3057,3059	CKSRYB104K16
	C	3060	CEJQ101M16
	C	3061	CEAL101M16

G LEDB ASSY

Mark	No.	Description	Part No.
SEMICONDUCTORS			
	Q	3401-3404	LTC124EUB

Mark	No.	Description	Part No.
	Q	3405-3408	LSA1576UB
	Q	3409-3414	LSC4081UB
	D	3401-3424	SLI-343U3R(HJKL)
MISCELLANEOUS			
	CN	3401 19P CONNECTOR	VKN1279
	CN	3402 L-PLUG (4P)	KM200NA4L
	JH	3401 3P CABLE HOLDER	51048-0300
	JP	3401 3P JUMPER WIRE	D20PDY0310E
RESISTORS			
	R	3401-3403,3405,3408	RS1/8SQ0R0J
	R	3432-3435,3437,3441	RS1/8SQ0R0J
	R	3464	RS1/8SQ472J
	R	3465,3485,3495,3513	RS1/8SQ0R0J
	Other Resistors		RS1/10SR###J
CAPACITORS			
	C	3401-3404	CKSRYB104K16

H LODA ASSY

SEMICONDUCTORS			
	D	3801	1SS352
	D	3802	SLR343WBC7T(MN)
MISCELLANEOUS			
	S	3801 TACT SWITCH	DSG1089
RESISTORS			
	All Resistors		RS1/10SR###J

I LODB ASSY

SEMICONDUCTORS			
	D	3901	1SS352
	D	3902	SLR343WBC7T(MN)
MISCELLANEOUS			
	S	3901 TACT SWITCH	DSG1089
RESISTORS			
	All Resistors		RS1/10SR###J

J JOGB ASSY

MISCELLANEOUS			
	CN	3301 CONNECTOR ASS'Y	PF04PG-B05
RESISTORS			
	All Resistors		RS1/10SR###J
MISCELLANEOUS			
	PC	3301 PHOTO INTERRUPTER	SEDS-7573
CAPACITORS			
	C	3301	CKSQYB225K10
	C	3302,3303	CKSRYB103K50

K TCHB ASSY

SEMICONDUCTORS			
	Q	3351	LSC4081UB
	D	3351	1SS352
MISCELLANEOUS			
	CN	3351 3PJUMPER CONNECTOR	52151-0310
	PC	3351 PHOTO INTERRUPTER	GP1S094HCZ0F
RESISTORS			
	R	3354	RS1/10SR1502F
	Other Resistors		RS1/10SR###J
CAPACITORS			
	C	3351	CKSRYB104K16

L CDCA ASSY

SEMICONDUCTORS			
	IC	1501	AD7147ACPZ500RL7
MISCELLANEOUS			
	L	1501-1505 INDUCTOR	CTF1639
	L	1506 CHIP SOLID INDUCTOR	XTL3010
RESISTORS			
	All Resistors		RS1/16SS###J
CAPACITORS			
	C	1501	CKSSYB103K16
	C	1503	CKSSYB104K10
	C	1504-1508	CCSSCH101J50
	C	1509	DCH1201

M CDCB ASSY

SEMICONDUCTORS			
	IC	1601	AD7147ACPZ500RL7
MISCELLANEOUS			
	L	1601-1605 INDUCTOR	CTF1639
	L	1606 CHIP SOLID INDUCTOR	XTL3010
RESISTORS			
	All Resistors		RS1/16SS###J
CAPACITORS			
	C	1601	CKSSYB103K16
	C	1603	CKSSYB104K10
	C	1604-1608	CCSSCH101J50
	C	1609	DCH1201

N CHF1 ASSY

SEMICONDUCTORS			
	D	4301,4302	1SS352
MISCELLANEOUS			
	KN	4301 EARTH TERMINAL	AKF7002
	VR	4301 VARIABLE RESISTOR	DCV1024
	CN	4302 L-PLUG (3P)	KM200NA3L

O CHF2 ASSY

SEMICONDUCTORS			
	D	4401,4402	1SS352
MISCELLANEOUS			
	KN	4401 EARTH TERMINAL	AKF7002
	VR	4401 VARIABLE RESISTOR	DCV1024
	CN	4402 L-PLUG (3P)	KM200NA3L

Mark	No.	Description	Part No.

P CROS ASSY

SEMICONDUCTORS

	D	4501,4502	1SS352

MISCELLANEOUS

	KN	4501 EARTH TERMINAL	AKF7002
	VR	4501 VARIABLE RESISTOR	DCV1023
	CN	4501 L-PLUG (3P)	KM200NA3L

RESISTORS

		All Resistors	RS1/4SA###J

CAPACITORS

	C	4502,4503	CKSRYB104K50

Q MSWB ASSY

SEMICONDUCTORS

	D	4601-4605	1SS352

MISCELLANEOUS

	S	4601,4602,4604 SLIDE SWITCH	ASH1039
	S	4603 SLIDE SWITCH	ASH1037
	CN	4601 L-PLUG (6P)	KM200NA6L

R POWB ASSY

SEMICONDUCTORS

	IC	4801	NJM4556AD
	IC	4802-4805	NJM4565MD
	Q	4804-4807	INC2002AC1
	D	4701	RKZ5.6KG(B2)
	D	4703,4704	RB160VA-40
	D	4705	NNCD6.2MF
	D	4706,4707	1SR154-400

MISCELLANEOUS

	JA	4701 DCIN JACK	DKN1523
	JA	4702 USB CONNECTOR	DKN1237
	JA	4801 CANON CONNECTOR	DKB1094
	KN	4710 SCREW PLATE	VNE1948
	VR	4801 ROTARY VR	DCS1105
	VR	4802-4804 ROTARY VR	DCS1078
	S	4701 SLIDE SWITCH	ASG1100
	CN	4701 L-PLUG (9P)	KM200NA9L
	CN	4702 PLUG (4P)	KM200NA4
	CN	4801 L-PLUG (4P)	KM200NA4L
	CN	4802 L-PLUG (13P)	KM200NA13L
	VA	4702 VARISTORS	EZJZ1V270RM

RESISTORS

	R	4801,4805	RN1/16SE1801D
	R	4802,4806	RN1/16SE1001D
	R	4809,4810	RN1/16SE3002D
	R	4817,4819	RN1/16SE2200D
	R	4820,4833	RN1/16SE1202D
	R	4854-4857	RS1/4SA330J
	R	4860,4861	RS1/4SA100J
	R	4862-4865	RS1/4SA6R8J
		Other Resistors	RS1/10SR###J

CAPACITORS

Mark	No.	Description	Part No.
	C	4706,4820,4823,4826	CEJQ101M16
	C	4707	CKSRYB473K50
	C	4709,4710,4712,4716	CKSRYB104K50
	C	4715,4804,4808,4809	CFTLA103J50
	C	4723,4739,4850,4853	CKSRYB103K50
	C	4738,4805,4806,4816	CEJQ100M35
	C	4802,4811	CCSRCH470J50
	C	4812,4813,4870	CCSRCH101J50
	C	4817,4825,4844,4847	CEJQ100M35
	C	4821,4822,4828,4829	CKSRYB104K50
	C	4827	CEJQ101M16
	C	4840,4842	CEJQ470M16
	C	4841,4843,4848,4849	CKSRYB104K50
	C	4851	CCSRCH220J50
	C	4852,4854	CEJQ100M35
	C	4855	CKSRYB103K50
	C	4856	CKSRYB683K16
	C	4857,4867,4868	CKSRYB104K50

S HPJB ASSY

MISCELLANEOUS

	L	3601,3602 INDUCTOR	CTF1382
	JA	3601 HEADPHONE JACK	DKN1622
	JA	3602 CONNECTOR	CKS4124
	CN	3601 L-PLUG (4P)	KM200NA4L

RESISTORS

		All Resistors	RS1/10SR###J

CAPACITORS

	C	3601,3602,3604,3605	CKSRYB473K50
	C	3603	CFTLA103J50

STPB ASSY

There is no service parts.