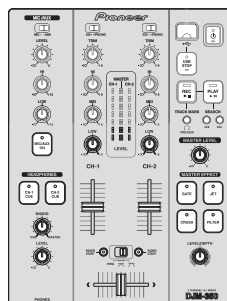


Pioneer

Service Manual



DJM-350

ORDER NO.
RRV4063

DJ MIXER

DJM-350

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

Model	Type	Power Requirement	Remarks
DJM-350	SYXJ8	AC 220 V to 240 V	
DJM-350	CUXJ	AC 120 V	
DJM-350	LXJ	AC 110 V to 120 V or 220 V to 240 V	
DJM-350	KXJ5	AC 220 V	
DJM-350	AXJ5	AC 220 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

NOTICE

(FOR CANADIAN MODEL ONLY)

Fuse symbols (fast operating fuse) and/or (slow operating fuse) on PCB indicate that replacement parts must be of identical designation.

REMARQUE

(POUR MODÈLE CANADIEN SEULEMENT)

Les symboles de fusible (fusible de type rapide) et/ou (fusible de type lent) sur CCI indiquent que les pièces de remplacement doivent avoir la même désignation.

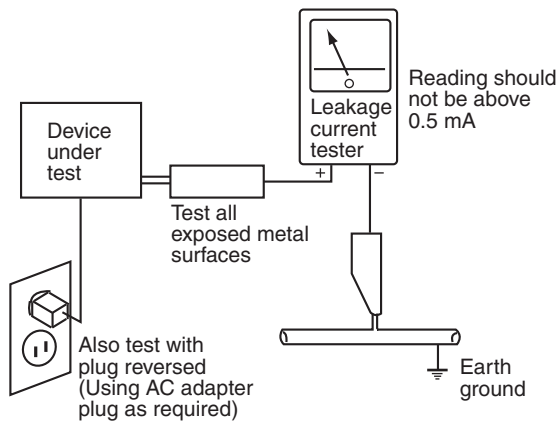
(FOR USA MODEL ONLY)

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 120V 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.

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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 °C. Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 °C in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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 FOR VOLTAGE MONITORING

A This unit always monitors for power failure and will shut itself off immediately after an error is detected. If an error is generated, the STANDBY LED will flash after the unit shuts itself off, and no key will be operable.
(In a case of power failure, power supply to not all circuits is stopped. The circuits to which the standby transformer supplies power will be continued to be powered until the power cord is unplugged.)

Repair the unit, according to “5.2 TROUBLESHOOTING.”

B

C

D

E

F

2. SPECIFICATIONS

2.1 SPECIFICATIONS

General

Power requirements.....	AC 220 V to 240 V, 50 Hz/ 60 Hz (SYXJ8, AXJ5) AC 120 V, 60 Hz (CUXJ) AC 110 V to 120 V or 220 V to 240 V, 50 Hz/ 60 Hz (LXJ) AC 220 V, 60 Hz (KXJ5)
Power consumption.....	17 W (SYXJ8, CUXJ, KXJ5, AXJ5) 18 W (LXJ)
Power consumption (standby).....	0.4 W
Main unit weight.....	3.2 kg (SYXJ8, CUXJ, KXJ5, AXJ5) 3.3 kg (LXJ)
Max. dimensions.....	218 mm (W) × 107 mm (H) × 301 mm (D)
Tolerable operating temperature.....	+5 °C to +35 °C
Tolerable operating humidity.....	5 % to 85 % (no condensation)

Audio Section

Sampling rate.....	48 kHz
A/ D, D/ A converter.....	24 bits
Frequency characteristic	
CD/ LINE/ MIC.....	20 Hz to 20 kHz
S/ N ratio (rated output)	
CD.....	97 dB
PHONO.....	86 dB
MIC.....	80 dB
Total harmonic distortion (LINE — MASTER1).....	0.007 %
Standard input level / Input impedance	
CD.....	−12 dBu/ 36 kΩ
PHONO.....	−52 dBu/ 47 kΩ
MIC.....	−52 dBu/ 10 kΩ
AUX.....	−12 dBu/ 27 kΩ
Standard output level / Load impedance / Output impedance	
MASTER OUT.....	+2 dBu/ 10 kΩ/ 2.5 Ω
PHONES.....	+2 dBu/ 32 Ω/ 150 Ω
Rated output level / Load impedance	
MASTER OUT.....	+18 dBu/ 10 kΩ
Crosstalk (LINE).....	78 dB
Channel equalizer characteristic	
HI.....	−∞ to +9 dB (13 kHz)
MID.....	−∞ to +9 dB (1 kHz)
LOW.....	−∞ to +9 dB (70 Hz)
MIC/ AUX equalizer characteristics	
HI.....	−12 dB to +12 dB (10 kHz)
LOW.....	−12 dB to +12 dB (100 Hz)

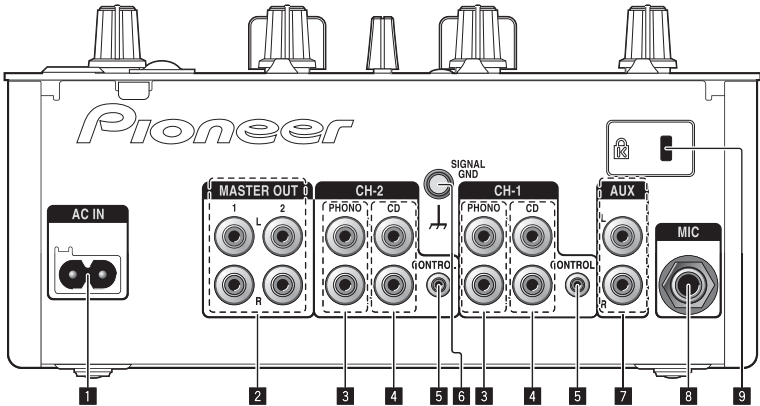
Input/ output terminals

CD input terminal	
RCA pin jack.....	2 sets
PHONO input terminal	
RCA pin jack.....	2 sets
MIC input terminal	
Phone jack (Ø 6.3 mm).....	1 set
AUX input terminal	
RCA pin jack.....	1 sets
MASTER output terminal	
RCA pin jack.....	2 sets
PHONES output terminal	
Stereo phone jack (Ø 6.3 mm).....	1 set
USB terminal	
Type A.....	1 set
CONTROL terminal	
Mini phone jack (Ø 3.5 mm).....	2 sets

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

2.2 PANEL FACILITIES

A Rear panel



B

- 1

AC IN
Connect to an AC outlet. Plug in the power cord after all connections have been made.
Be sure to use the included power cord.
- 2

MASTER OUT 1, 2
Connect to a power amplifier, etc.
- 3

PHONO
Connect to an analog player or other phono level (MM cartridge) output device. Do not connect to a DJ player or other line level device.
- 4

CD
Connect to a DJ player or other line level device.
- 5

CONTROL
Connect using a control cord (included with Pioneer DJ players).
- 6

SIGNAL GND
Connect an analog player's ground wire here. This helps reduce noise when the analog player is connected.
- 7

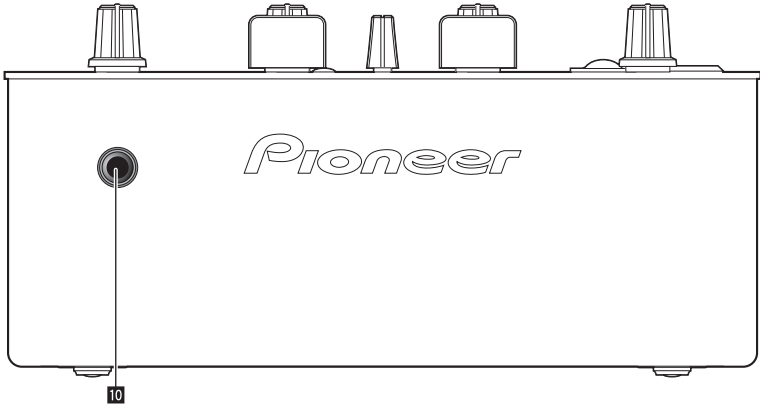
AUX
Connect to the output terminal of an external device (sampler, portable audio device, etc.)
- 8

MIC
Connect to a microphone.
- 9

Kensington security slot

C

Front panel



D

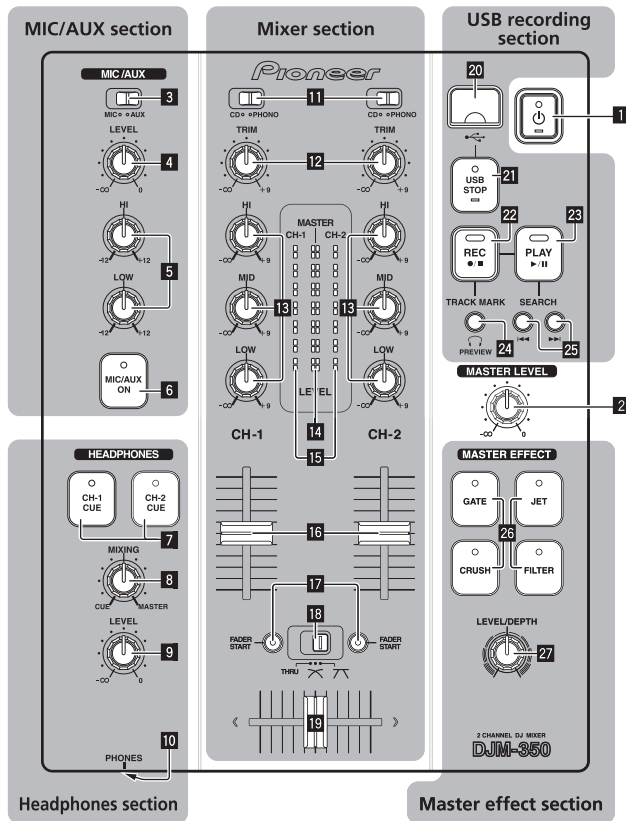
- 10

PHONES
Connect headphones here.

E

F

Control panel



1 ⏻ (Power switch)

2 MASTER LEVEL

MIC/AUX section

The sound of a microphone or external device (sampler, portable audio device, etc.) can be handled.

3 MIC, AUX

4 LEVEL

5 HI, LOW

6 MIC/AUX ON

Headphones section

The sound being input to this unit can be checked over headphones.

7 CH-1 CUE, CH-2 CUE

8 MIXING

9 LEVEL

10 PHONES

Mixer section

Two sets of audio signals can be adjusted separately for basic DJ mixing.

11 CD, PHONO (input selector switch)

12 TRIM

13 HI, MID, LOW

14 Master level indicator

15 Channel level indicator

16 Channel fader

17 FADER START

18 THRU, ㄨ, ㄣ (crossfader curve selector switch)

19 Crossfader

USB recording section

DJ performances can be recorded onto and played from USB devices.

20 USB device insertion slot

21 USB STOP

22 REC ●/■

23 PLAY ►/||

24 TRACK MARK (PREVIEW)

25 SEARCH ◀◀, ▶▶

Master effect section

Effects can be applied to the sound output from [MASTER OUT 1, 2].

26 MASTER EFFECT (GATE, CRUSH, JET, FILTER)

27 LEVEL/DEPTH

3. BASIC ITEMS FOR SERVICE

3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing / DJM

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

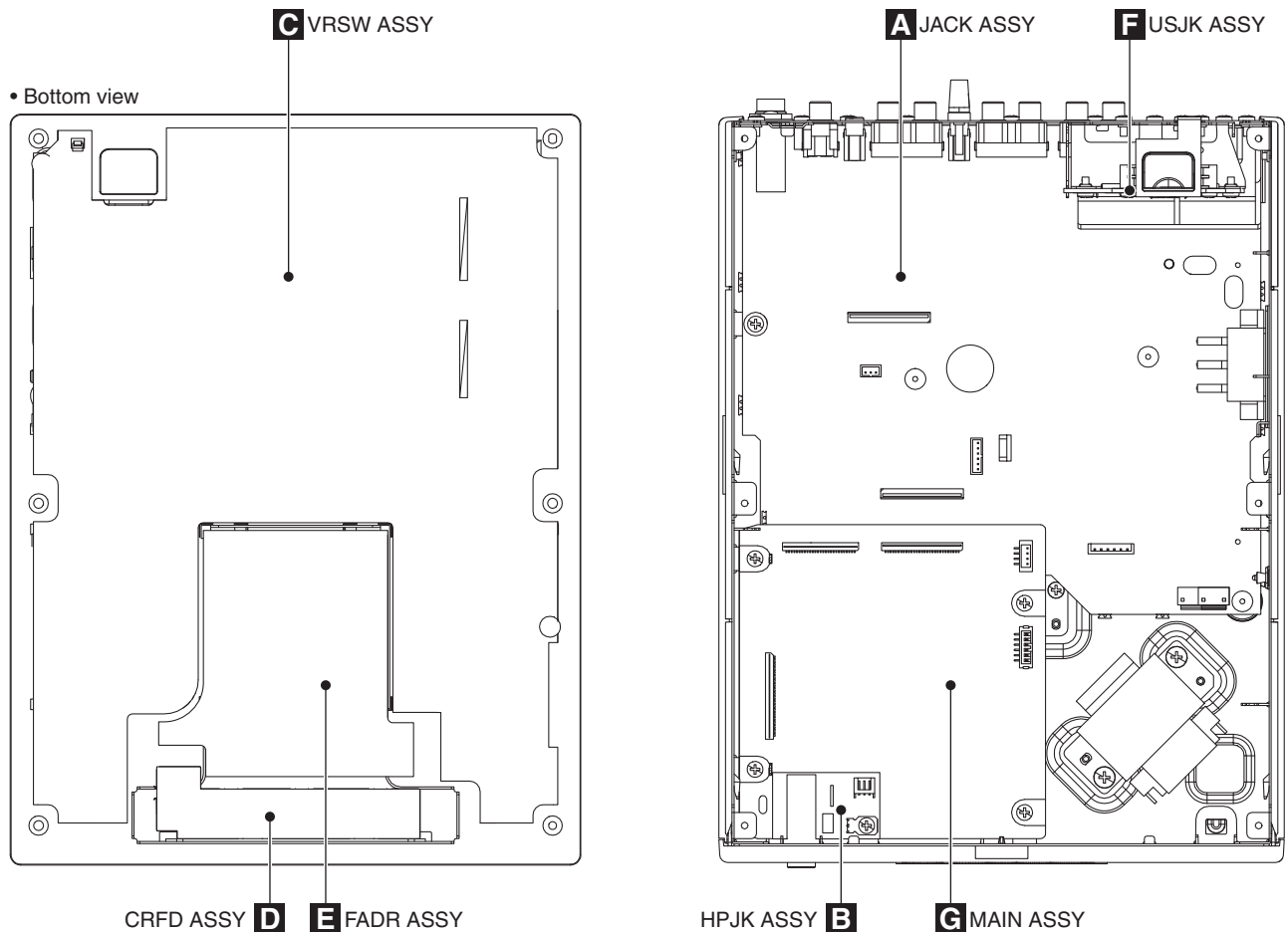
No.	Procedures	Check points
1	Confirm whether the customer complain has been solved. If the customer complain occurs with the specific source, such as Mic, each Input, Fader, Equalizer, and Trim, input that specific source for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
2	Check the analog audio playback. (Make the analog connections with a CDJ player.)	Audio for each channel and operations must be normal.
3	Check playback by Fader operation. (Select Fader and check the multichannel operations via the CPU.)	Audio for each channel and operations must be normal.
4	Check the master outputs. (Connect with a CDJ player.)	Audio and operations must be normal.
5	Check the sound from headphone output.	Sound must be normal, without noise.
6	Playback data contained in the device connected to USB A	Audio and operations must be normal.
7	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

5 6 7 8

3.2 PCB LOCATIONS



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

Mark No.	Description	Part No.	Mark No.	Description	Part No.
LIST OF ASSEMBLIES					
1..MAIN ASSY		DWX3112	NSP	1..PANL ASSY	DWM2383
1..JACK ASSY (SYXJ8, KXJ5, AXJ5)		DWX3136		2..HPJK ASSY	DWX3114
1..JACK ASSY (CUXJ)		DWX3135		2..USJK ASSY	DWX3115
1..JACK ASSY (LXJ)		DWX3116		2..VRSW ASSY	DWX3117
				2..FADR ASSY	DWX3118
				2..CRFD ASSY	DWX3119

12

1

2

3

4

4. BLOCK DIAGRAM

4.1 OVERALL WIRING DIAGRAM

A

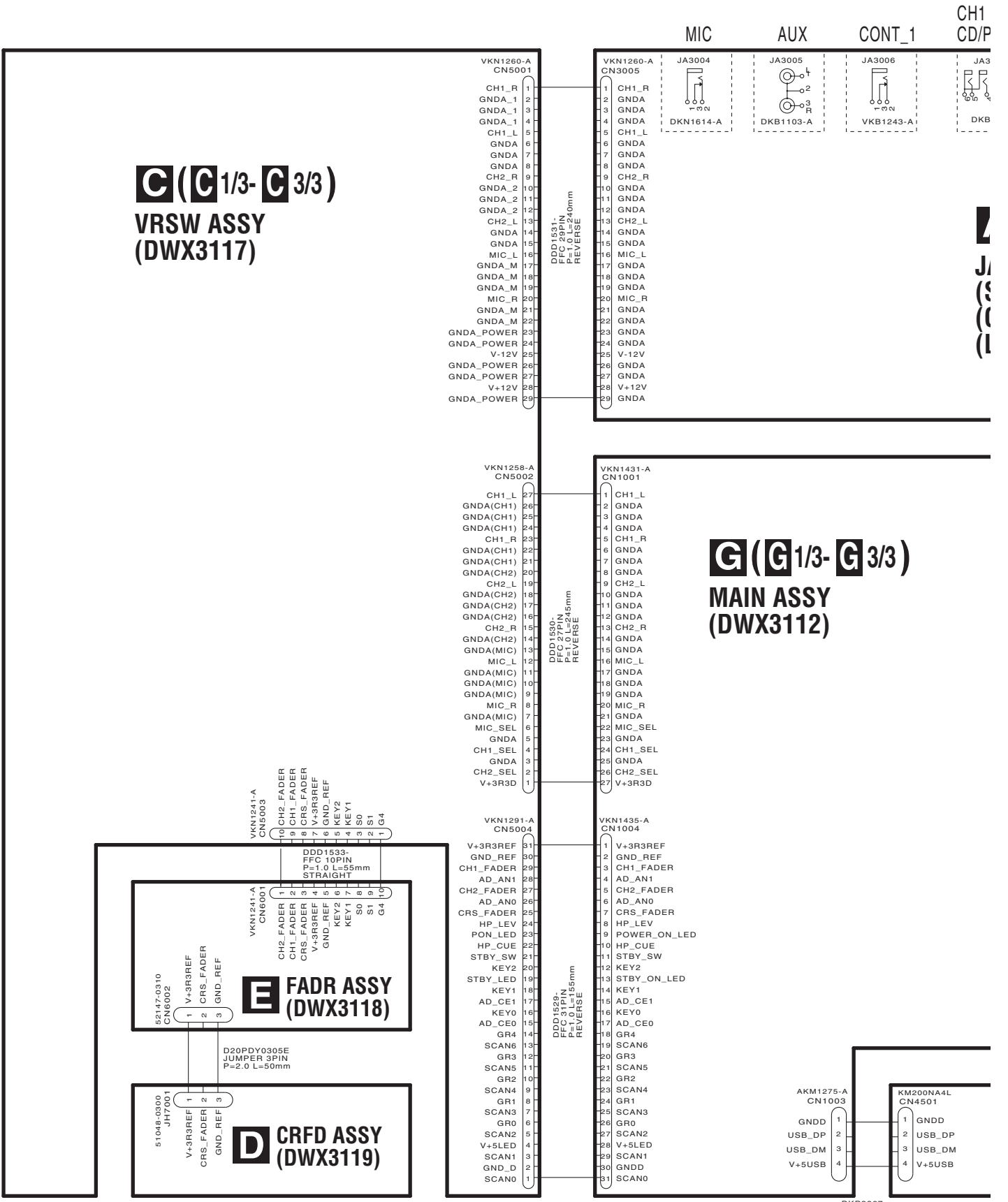
B

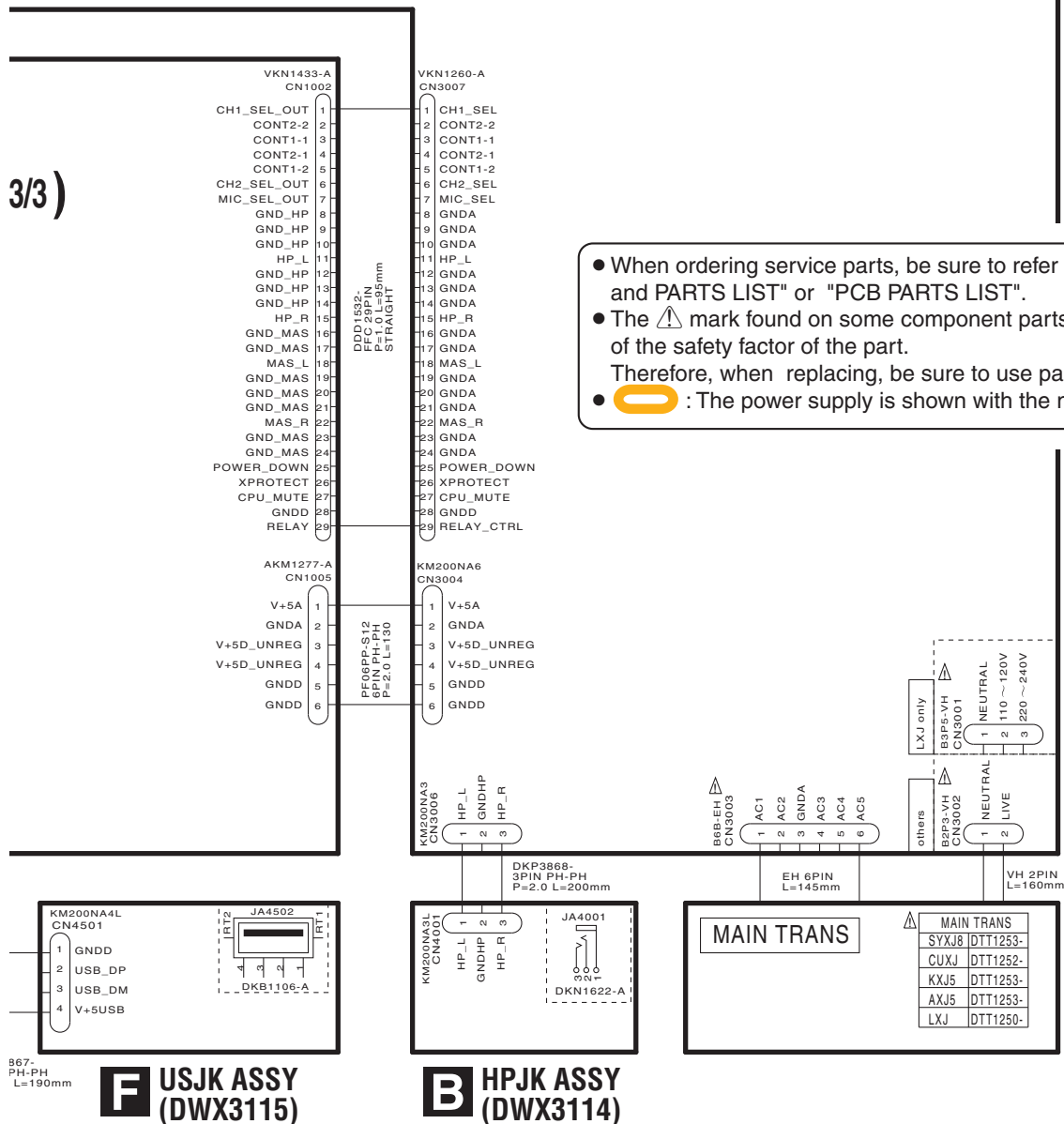
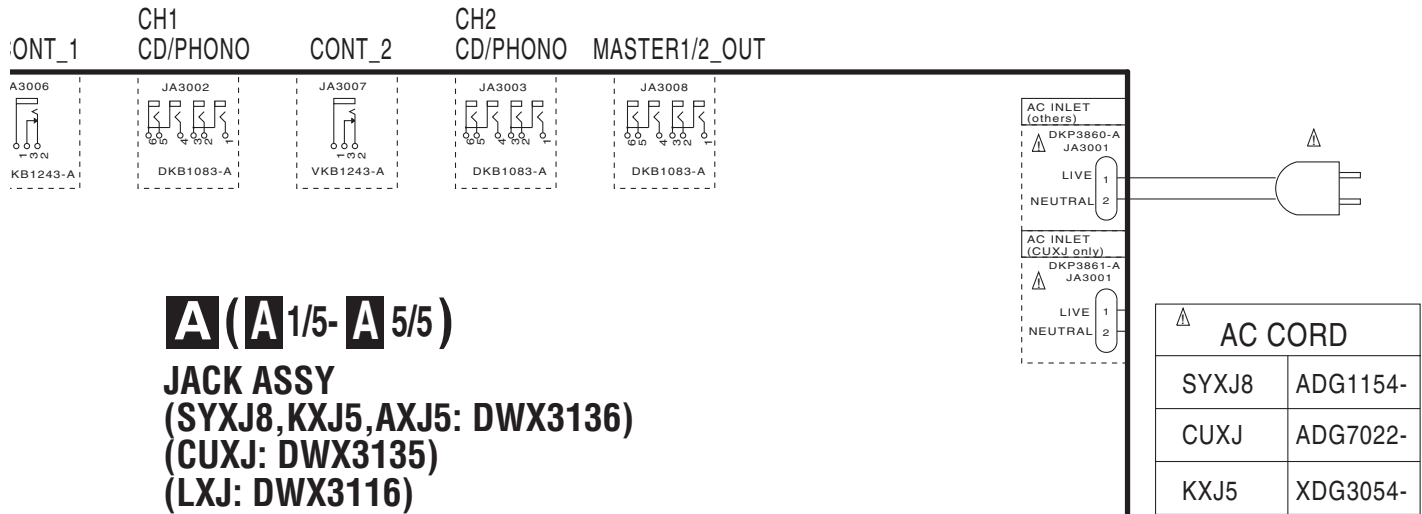
C

D

E

F





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

4.2 OVERALL BLOCK DIAGRAM

A

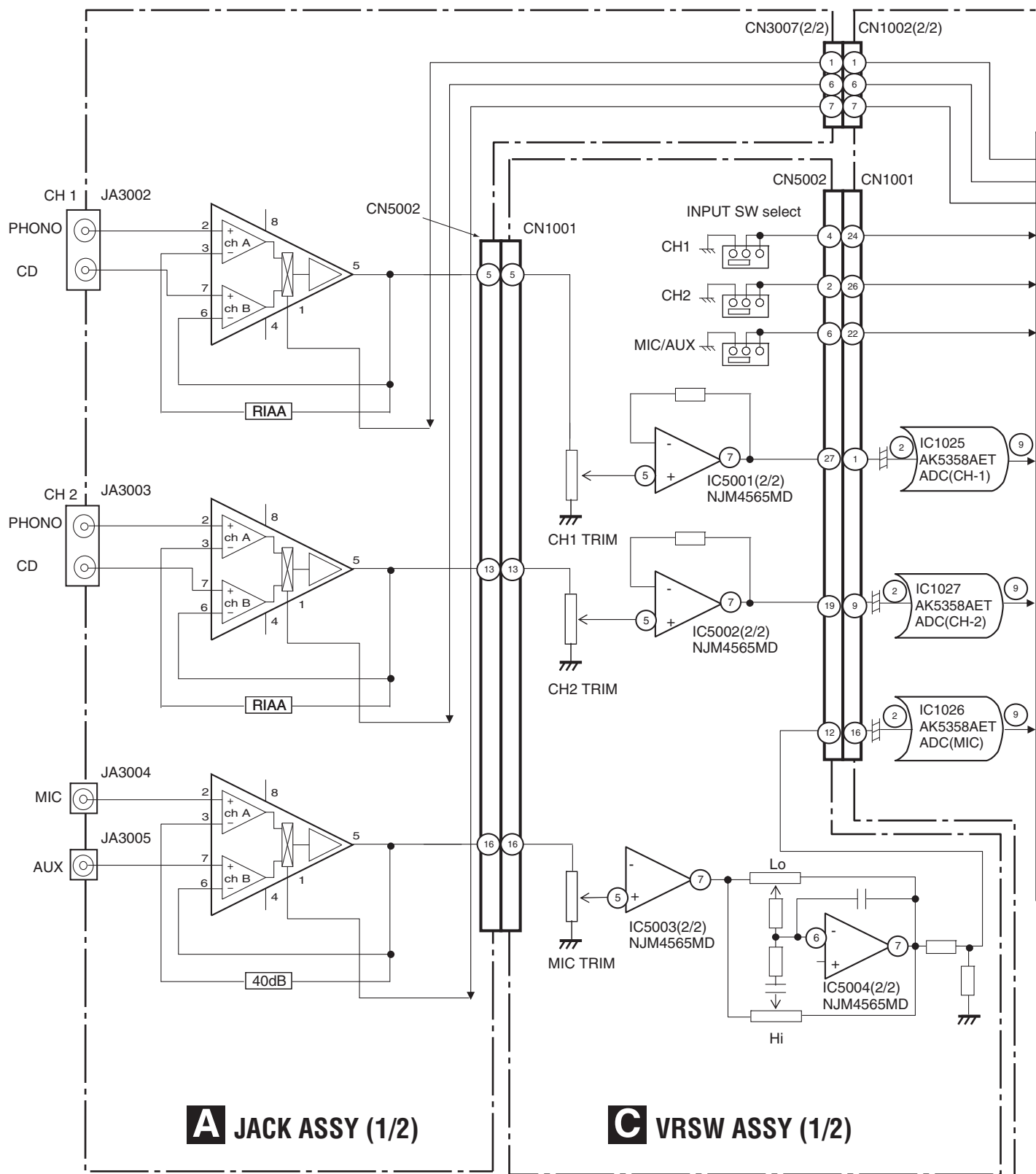
B

C

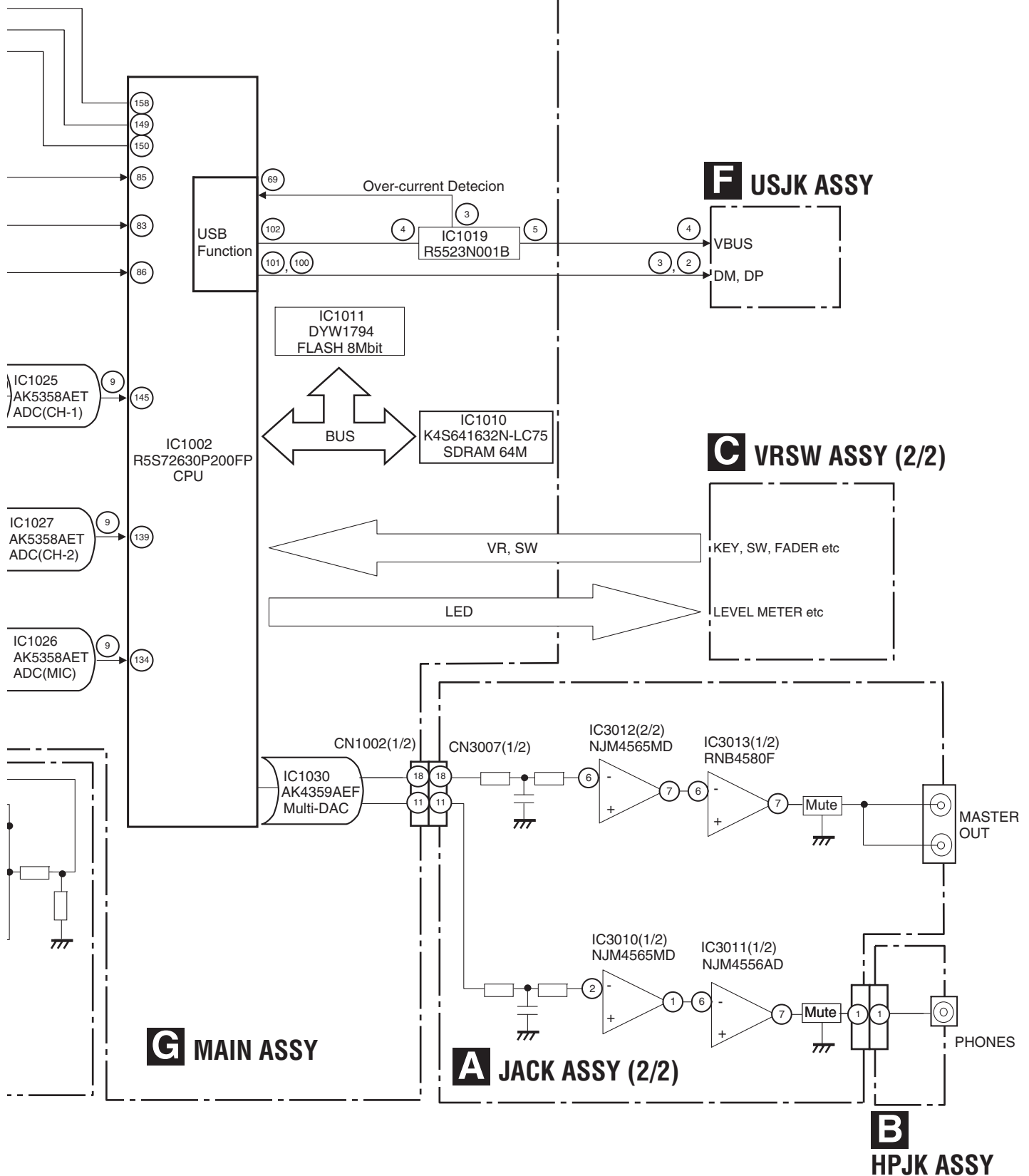
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E

F



(2/2)



A

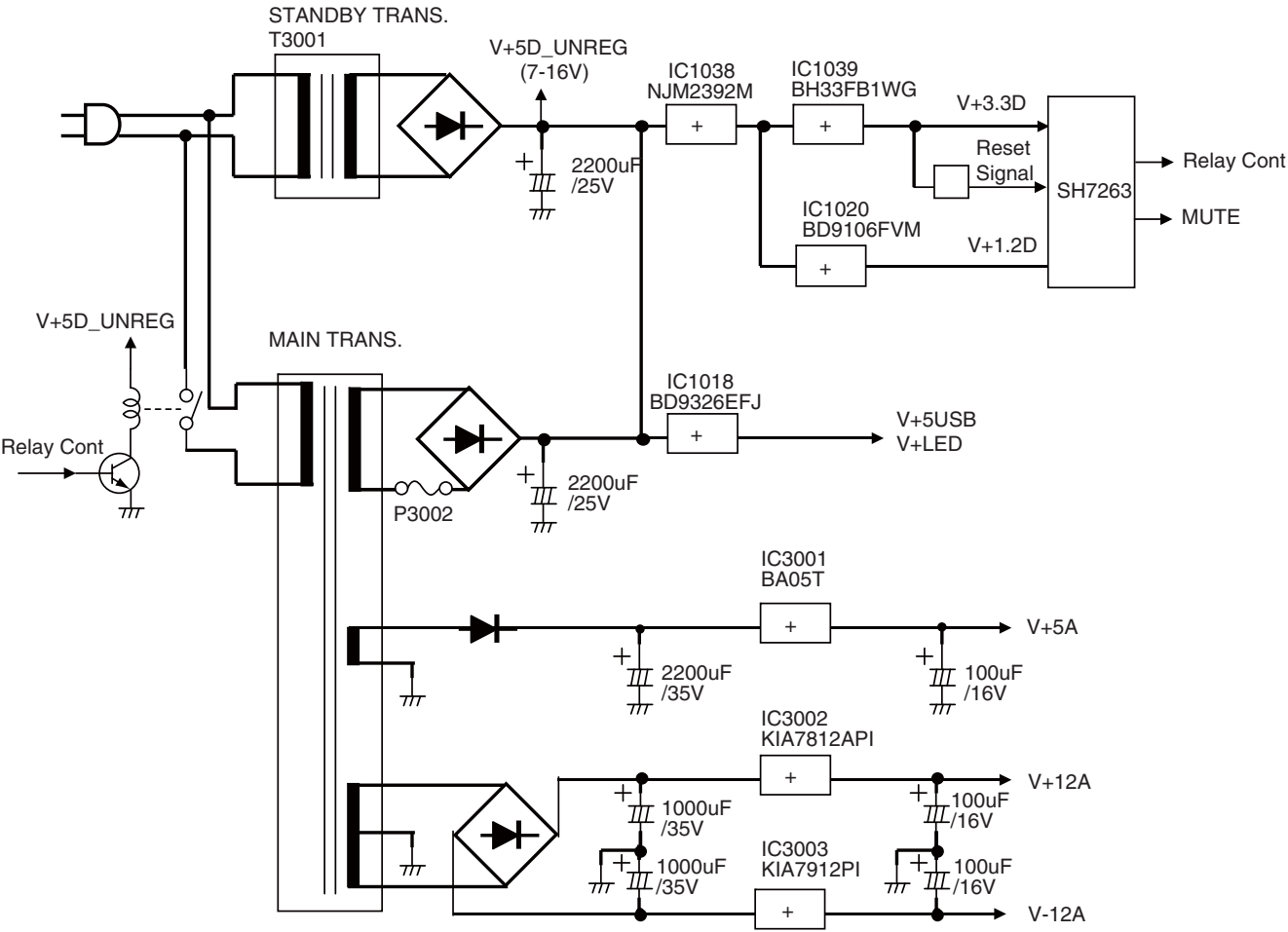
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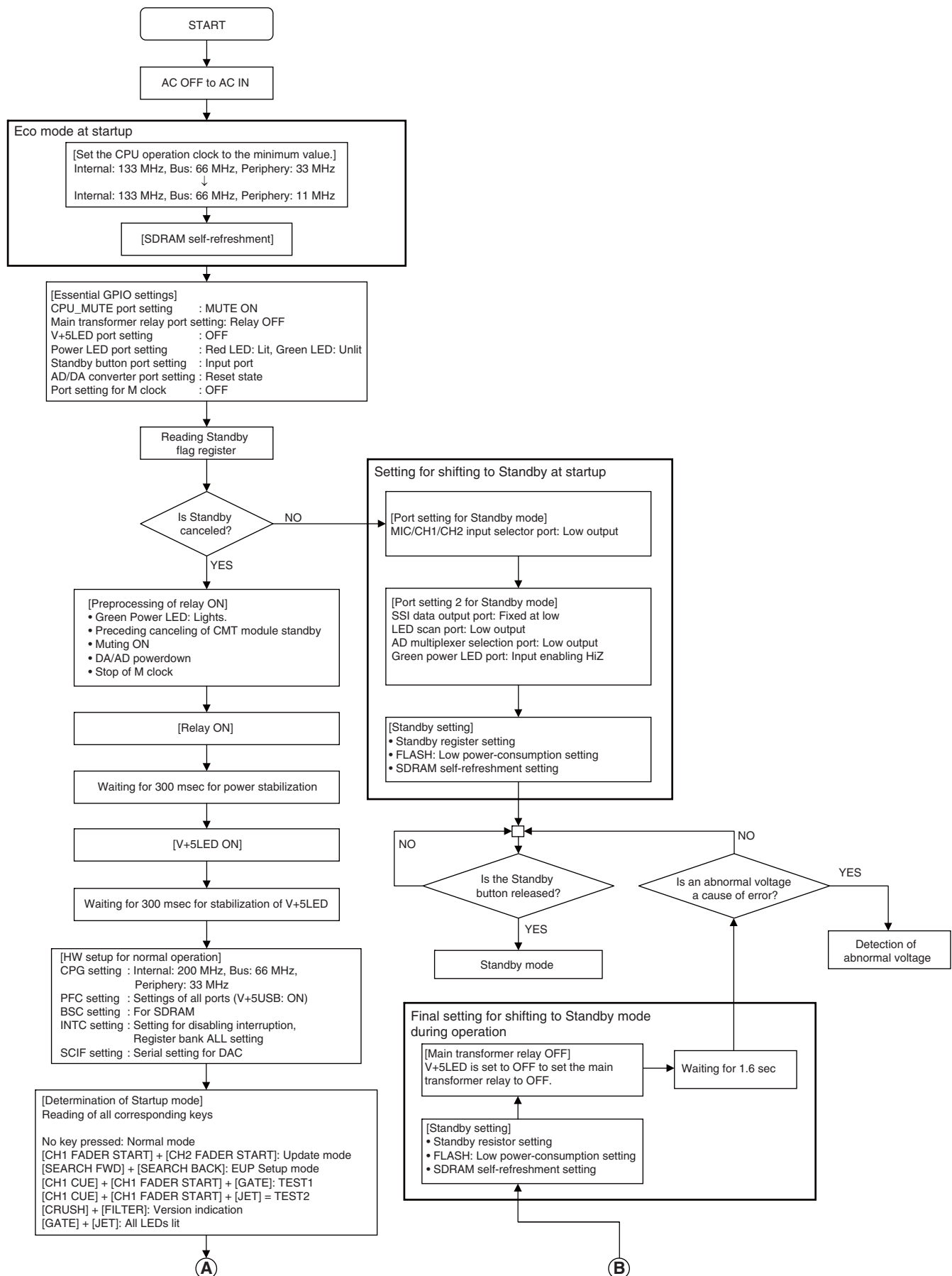
E

F



5. DIAGNOSIS

5.1 POWER ON SEQUENCE



A

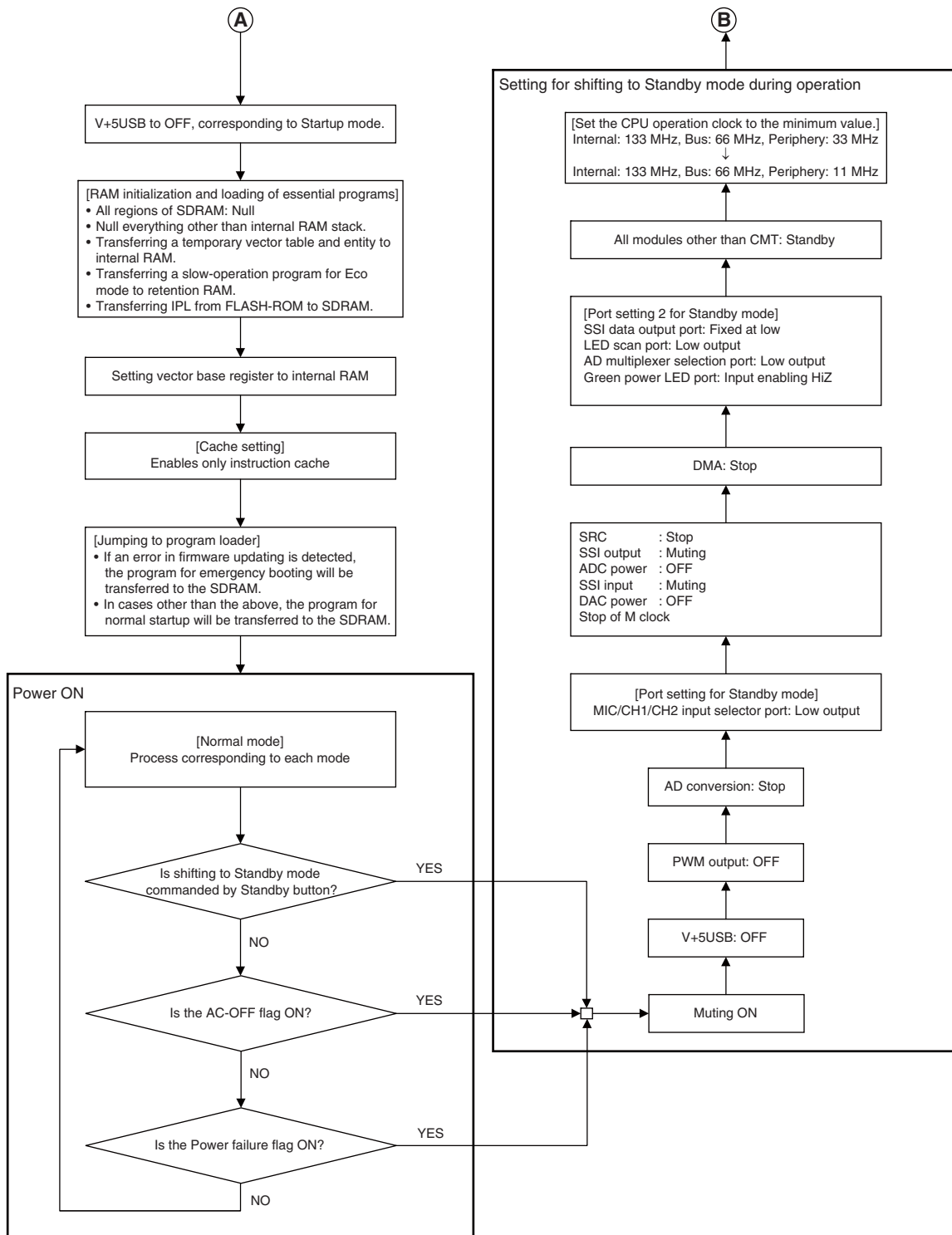
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E

F



*** Eco mode:**

Low-speed and low-power-consumption mode provided for the CPU to be operated only on power supply from the standby transformer.

5.2 TROUBLESHOOTING

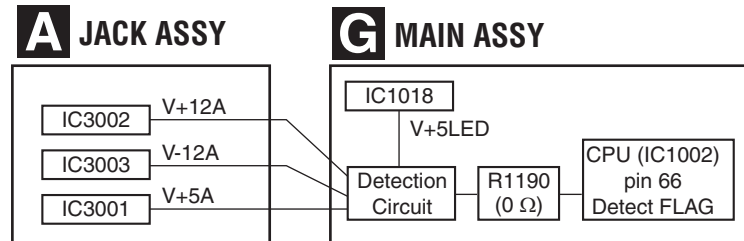
■ Troubleshooting of the Power System

Symptom: The STBY LED flashes and no key is operable.

Status of the product:

The CPU, detecting that a power failure had been generated, shut the main transformer off, instructed the STBY LED to flash, and disabled the keys. (When the main transformer is shut off, the relay (RY3001) is set to OFF and power is not supplied to the main transformer.)

Circuit block diagram



Diagnostic procedure

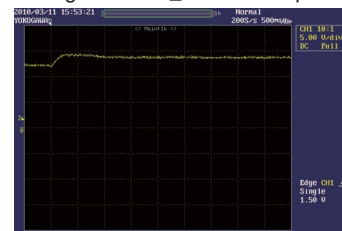
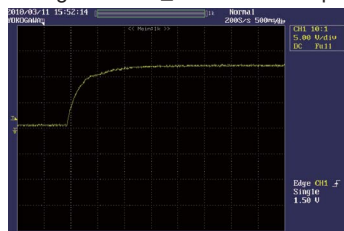
For diagnosis, plug in then unplug the AC power cord for each measurement, and perform measurement of each point within about 10 sec.

- Section A** [① While the STBY LED is flashing, check that the output from the TEST pin (Detect FLAG) near R1190 is low (abnormal). *If it is high, nothing is wrong with the voltage.
 ② Remove R1190 and plug the AC power cord in.
 *Unplug the AC power cord after about 10 sec, because power will be forcibly supplied to the main transformer even if any voltage is abnormal. (If abnormal voltage continues, the defective point may produce heat, which may be dangerous.)
 ③ Check the voltages at the diagnostic points described below.
 The circuit or power IC that is connected to the part whose voltage is abnormal may be defective.
- Section B** [JACK Assy: Voltages can be checked at the J3023, J3054, and J3038 jumpers.
Note: After diagnosis is completed, be sure to place R1190 to its original position.

Symptom: The STBY LED does not light and the product does not operate at all, even after the AC power cord is plugged in.

- Section C** [① Check the voltage of V+5D_U power.
Section D [⇒ If the voltage does not become high, check conduction at the protector (P3002).

- ① Change in V+5D_U when the AC power cord is plugged in ① Change in V+5D_U when the power switch is set to ON



- Section E** [② If the protector is intact, check each voltage on the MAIN Assy.
 • V+5D ⇒ +5 V, • V+3R3D ⇒ +3.3 V, • V+1R2D ⇒ +1.2 V,

Symptoms caused by other power failure

Symptom: Malfunction of a USB device

- Section F** [Check that the voltage of V+5USB power is +5 V.

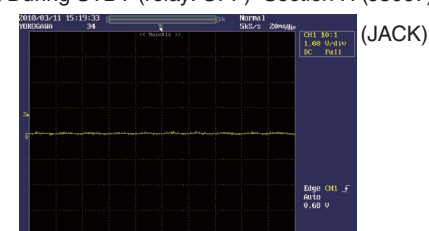
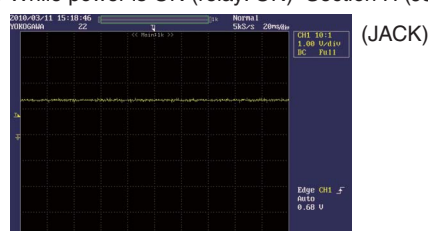
Symptom: Defective operations of various VRs, such as equalizers, etc.

- Section F** [Check that the positive voltage of the capacitor at Section F is +3.3 V.

Symptom: Power is not supplied to the main transformer.

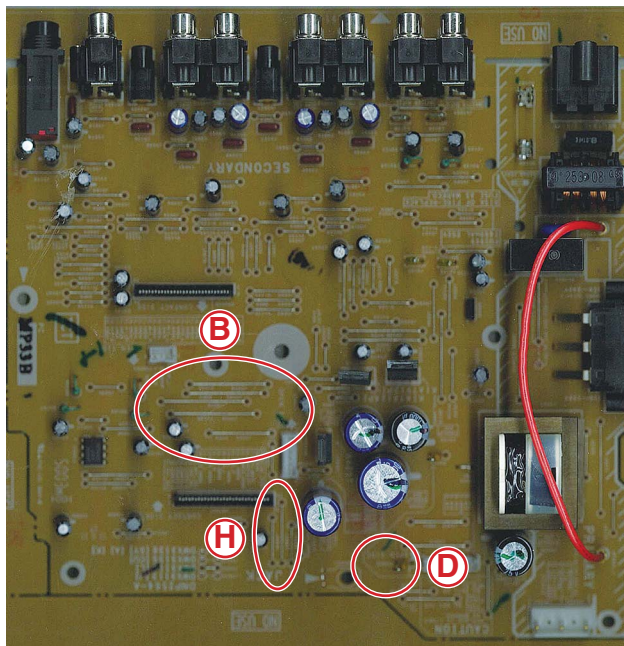
- Section H** [Check that the proper control signal is input to the relay circuit (J3067).

- ② While power is ON (relay: ON) Section H (J3067) ② During STBY (relay: OFF) Section H (J3067)



A ■ Measuring Points of the Power System

A JACK ASSY

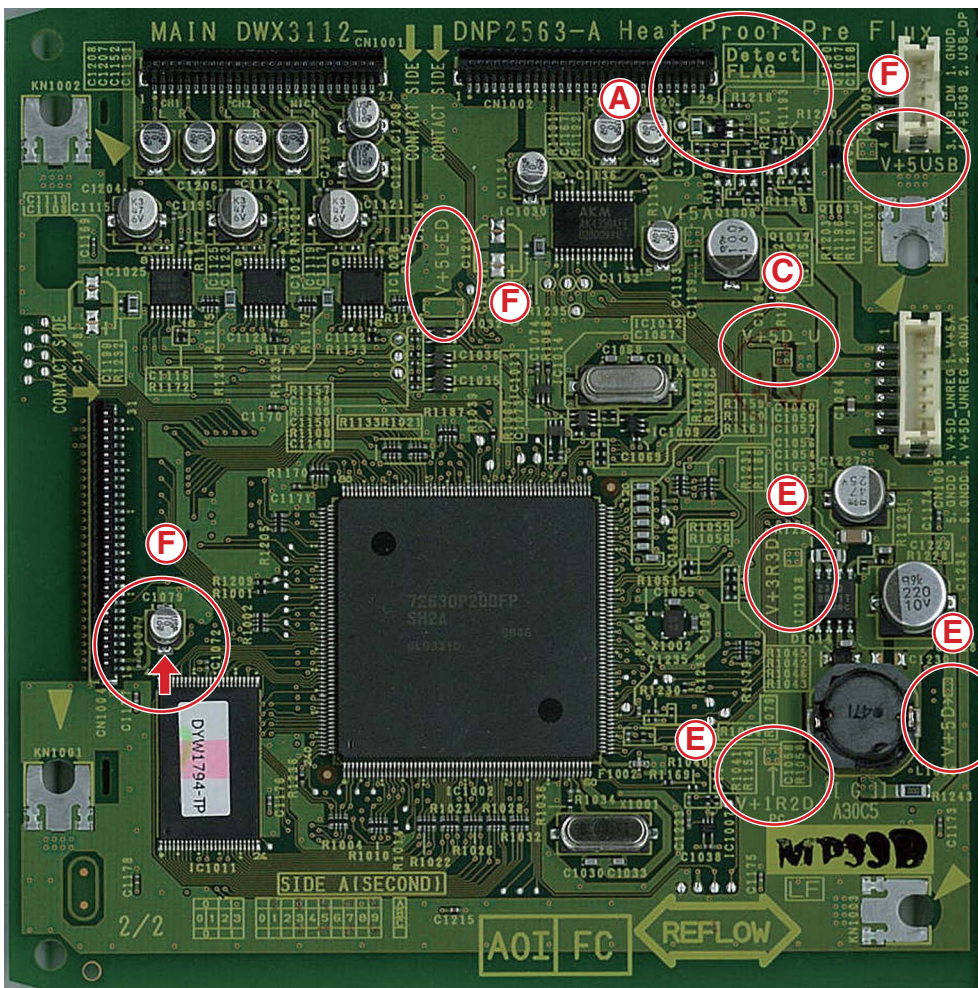


(B) : J3023, J3054, J3038

(D) : P3002

(H) : J3067

G MAIN ASSY



(A) : Test p / Detect FLAG

(C) : Test p / V+5D_U

(E) : Test p / V+5D, V+3R3D, V+1R2D

(F) : Test p / V+5USB, V+5LED, C1079 (+) pin

■ Troubleshooting of the Analog Signal System

Symptom: Audio is not output.

Diagnostic points:

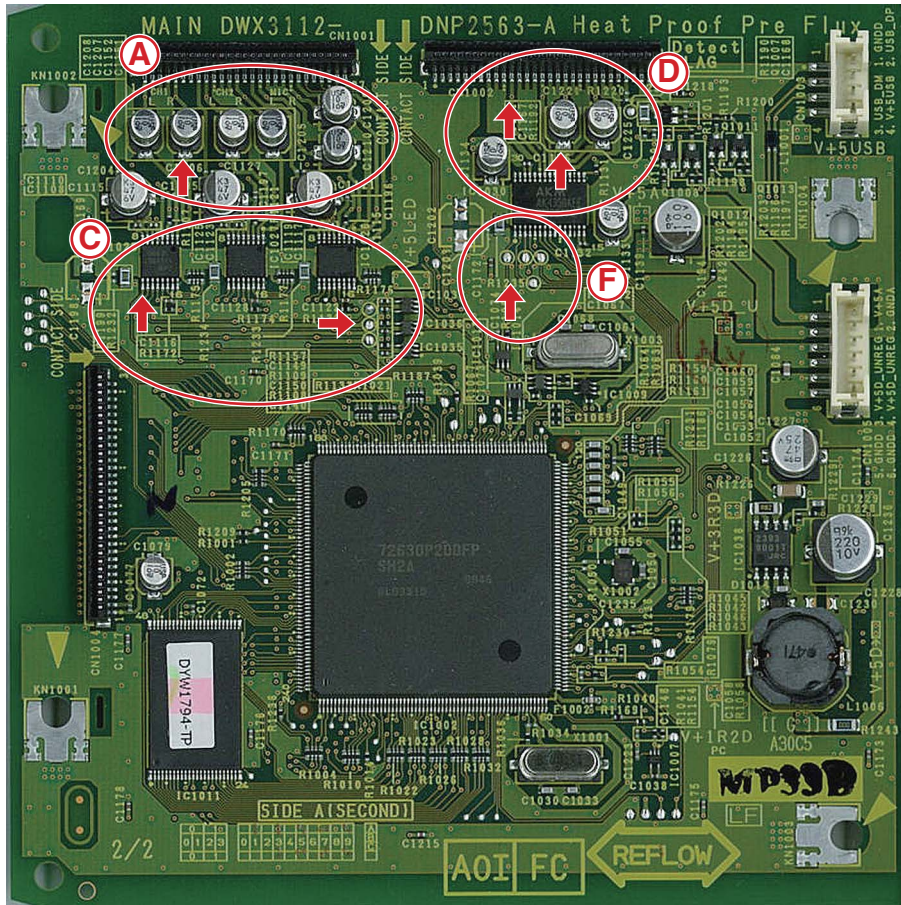
- Section A** [Is a signal input to the ADC (IC1025: ch1, IC1026: mic, IC1027: ch2 → Pins ① and ②)?
⇒ If it is not, something is wrong with the analog-circuit block.
- Section B** [Are analog signals input to the VRSW Assy?
⇒ If they are not, something is wrong with the input-circuit section on the JACK Assy.
If they are, something is wrong with the analog block on the VRSW Assy.
- Section C** [Is a digital signal output from the ADC (IC1025: ch1, IC1026: mic, IC1027: ch2 → Pin ⑨)?
Is a CLK signal input to the ADC (IC1025: ch1, IC1026: mic, IC1027: ch2 → Pins ⑩, ⑪, and ⑫)?
⇒ If there is no output from Pin 9 although the CLK signal is input, the ADC may be in failure.
- Section D** [Is a signal output from analog output of the DAC (IC1030 → Pins ⑳ and ㉑: MASTER, Pins ㉒ and ㉓: HP)?
⇒ If it is, something is wrong with the JACK Assy.
- Section E** [The MUTE circuit (J3015) may be in failure.
- Section F** [Is a signal input to the digital input of the DAC (IC1030 → Pin ③)?
Is a CLK signal input to the DAC (IC1030 → Pins ①, ②, and ④)?
⇒ If no signal is output even if a digital signal is input properly, the DAC may be in failure.
The VRs may be in failure.
Check operations of each VR in Service mode.

Symptom: The CD and PHONO inputs cannot be switched.

- Section G** [Is a normal switching signal input to each input operational amp (J3028: ch1, J3058: ch2)?
⇒ If it is, an input operational amp may be in failure.

Symptom: The MIC and AUX inputs cannot be switched.

- Section G** [Is a normal switching signal input to each input operational amp (J3093: mic)?
⇒ If it is, an input operational amp may be in failure.

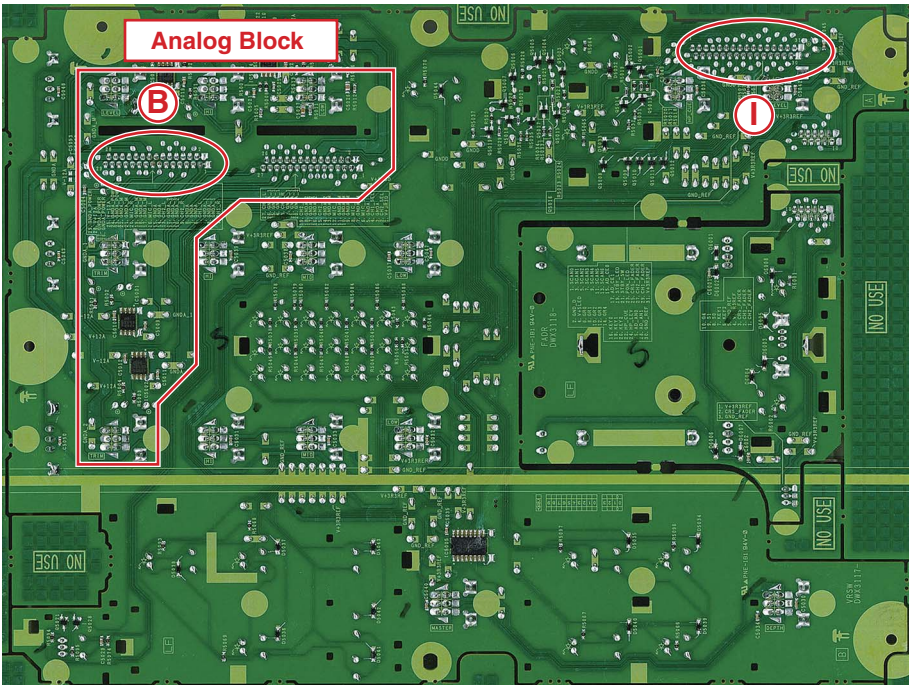


Diagnosis Point	Measurement Signal	Waveform No.
Point: Measurement Point		
(A) CN1001 ①, ⑤ pin ⑨, ⑬ pin ⑯, ⑳ pin	A/DC input CH1_L, R CH2_L, R MIC_L, R	④
(B) IC1025 ⑨ pin IC1027 ⑨ pin IC1026 ⑨ pin	A/DC Digital output CH1 CH2 MIC	⑩
(C) R1157 R1109 R1108	A/DC CLK AUDIO_CLK2 AD_3R072M AD_48k	⑪ ⑫ ⑬
(D) CN1002 ⑯, ㉑ pin ⑲, ㉓ pin	D/AC Analog output MASTER_L, R HP_L, R	⑥ ⑦
(E) IC1030 ③ pin	D/AC Digital input MASTER/HP_DATA	⑭
(F) IC1030 ① pin IC1030 ② pin IC1030 ④ pin	D/AC CLK AUDIO_CLK3 DA_6R144M DA_48k	⑮ ⑯ ⑰

G MAIN ASSY

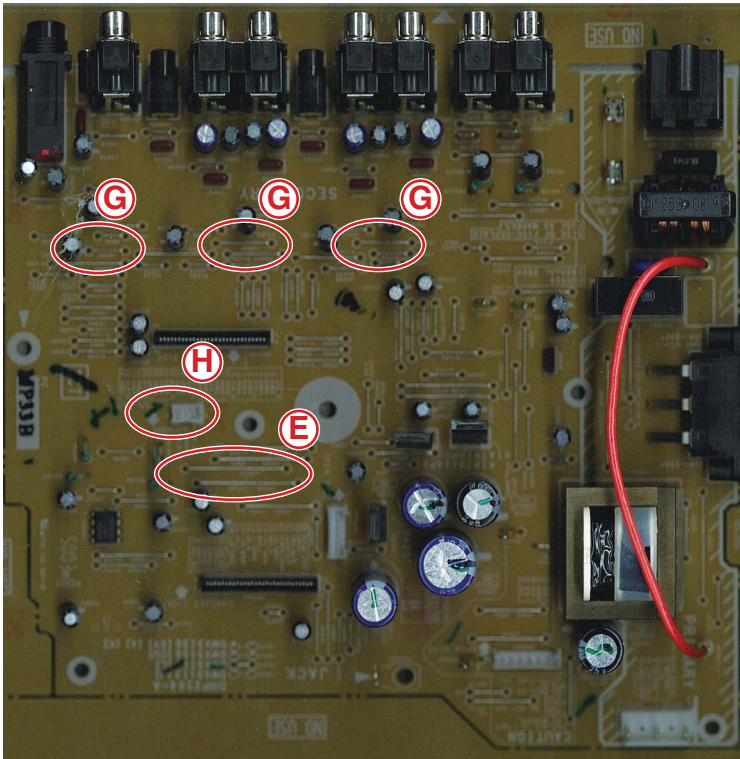
A ■ Measuring Points of the Analog Signal System

C VRSW ASSY



Diagnosis Point		Measurement Signal	Waveform No.
Point	Measurement Point		
B	CN5001	VRSW Assy Analog input CH1_R, L CH2_R, L MIC_L, R	⑤
	①, ⑤ pin		
	⑨, ⑬ pin ⑮, ⑳ pin		
C	CN5004	LED lit, Key read related signal SCAN0 GR0	⑳ ㉑
	① pin		
	⑥ pin		

A JACK ASSY



Diagnosis Point		Measurement Signal	Waveform No.
Point	Measurement Point		
E	J3015	MUTE CD/PHONO switch CH1_L CH2_L MIC/AUX switch	⑮ ⑰ ⑱
	J3028		
	J3058 J3093		
F	CN3006	Headphone output HP_L, R	⑨
	①, ③ pin		

D

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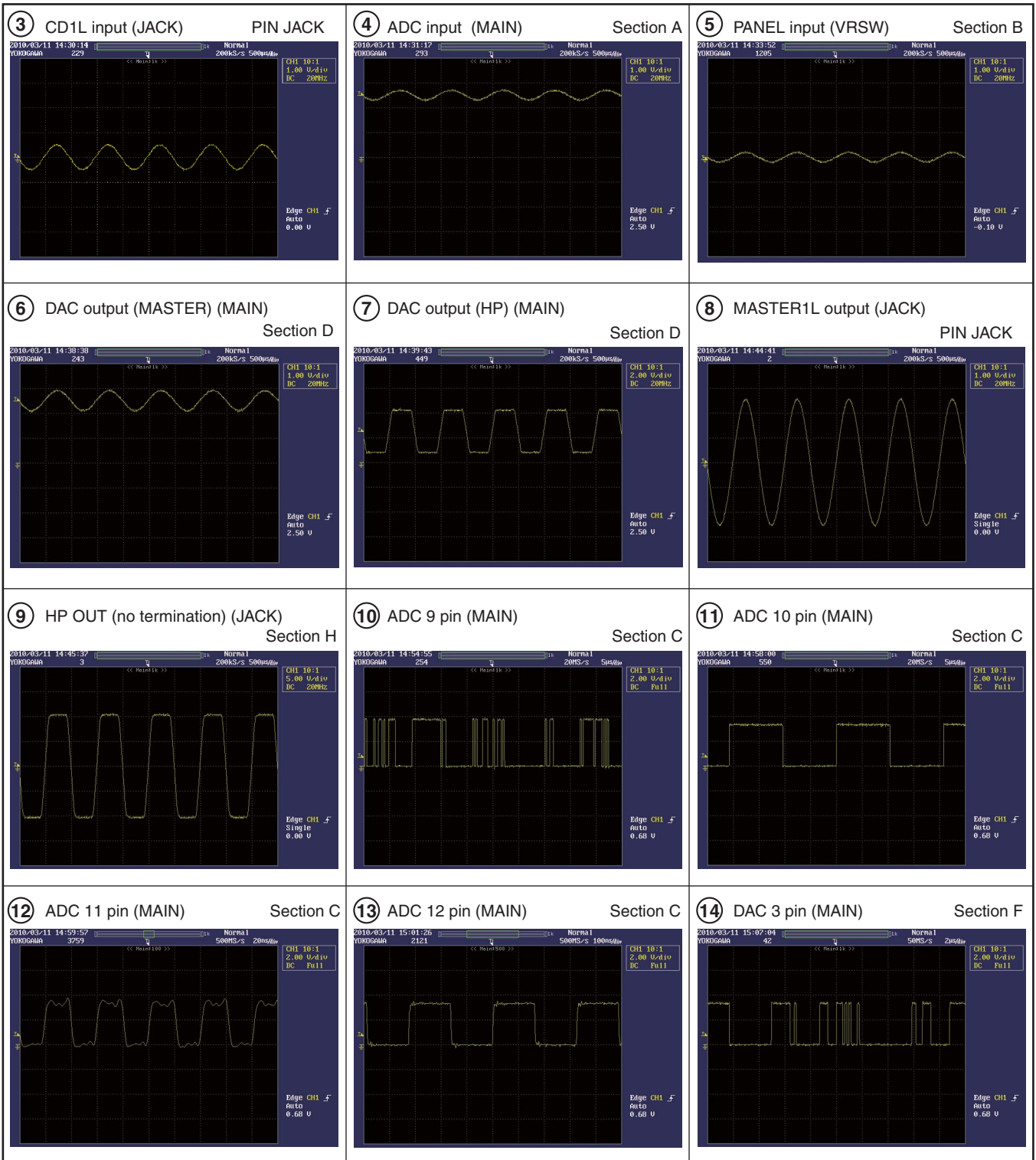
Normal Waveforms at Each Section

Setting of each control:

TRIM, MASTER LEVEL, HP LEVEL, and CH FADER: to MAX

Set other VRs to their center positions. Set the curve switch to THRU.

Set the input to CH1-CD L, 1.0 Vp-p/1 kHz. Set the output to OPEN.



A

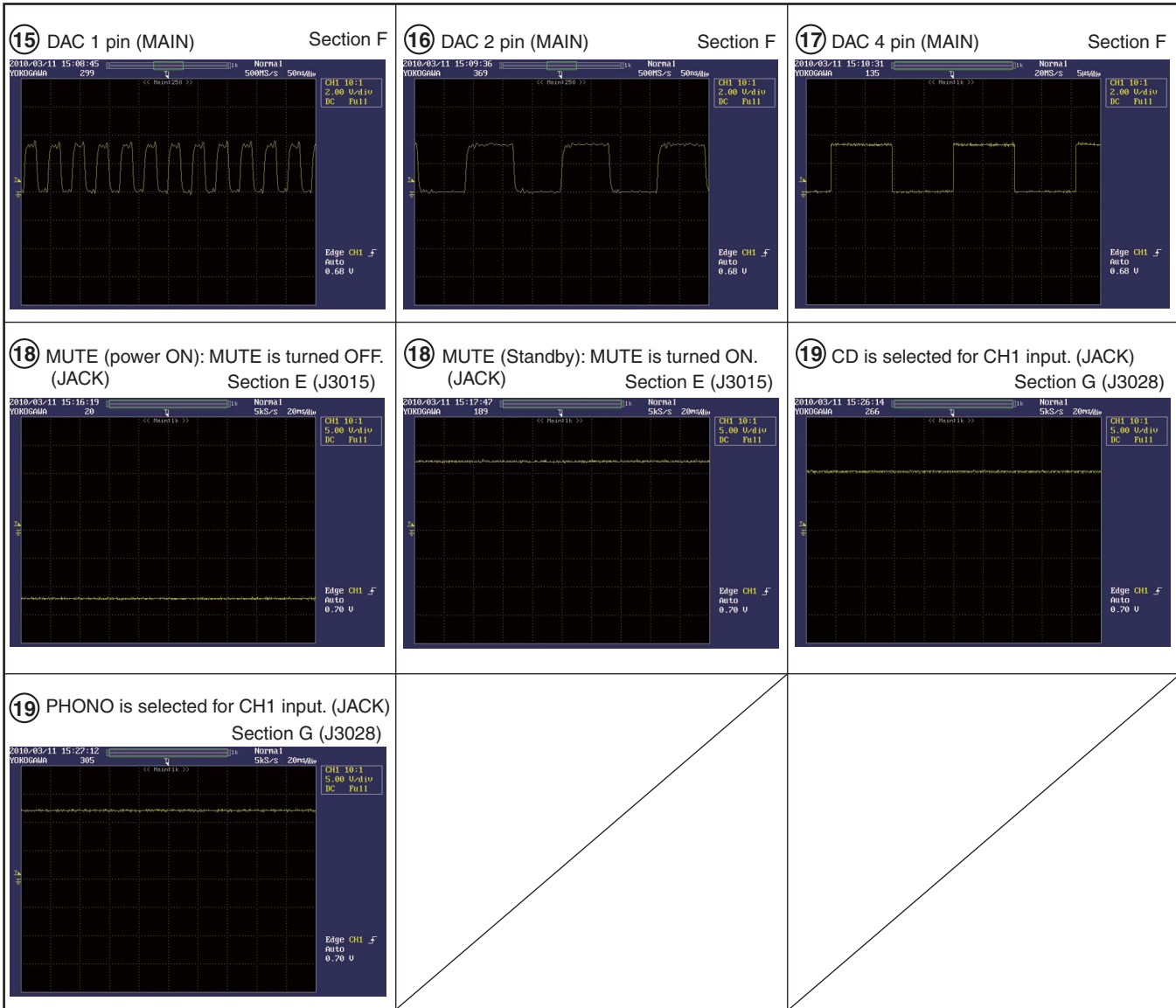
B

C

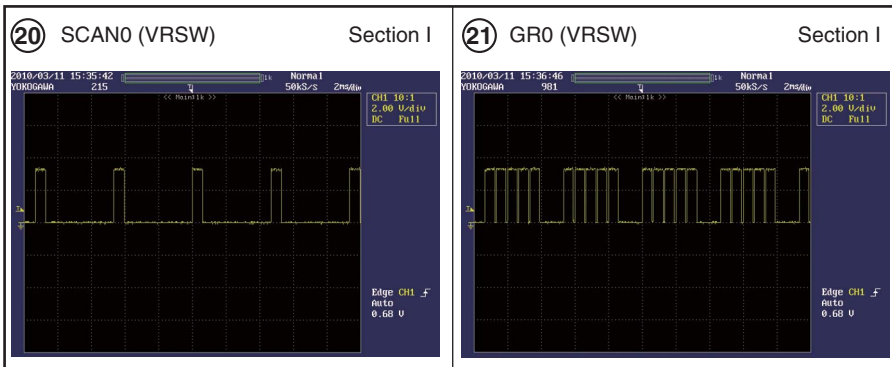
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(Reference) Signals related to lighting of the LEDs and reading of key data



5.3 ERROR INDICATION

About errors

If this unit cannot operate normally, the [⏻] (the power switch), [USB STOP] and [PLAY ►/||] indicators flash to indicate an error.

Check the table below and take the measures indicated.

About the [USB STOP] indicator's error indication

❖ If the [USB STOP] indicator flashes repeatedly 2 to 5 times

1 Disconnect the USB device.

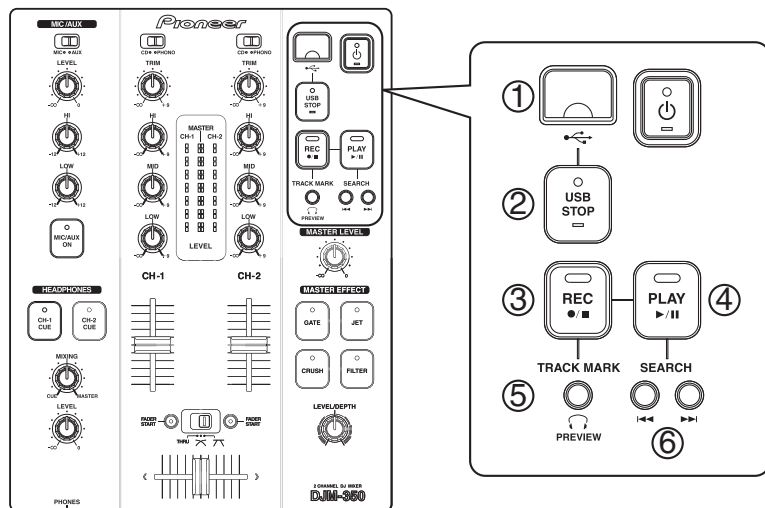
2 Press [USB STOP].

Check the table below and take the measures indicated.

Indicator name	Number of times indicator flashes	Description of error	Cause	Measure
USB STOP	2 times repeatedly	File format problem	USB device is not formatted. You are using a USB device with a file system that is not supported by this unit.	Use a USB device formatted with a file system supported by this unit (FAT or HFS+).
	3 times repeatedly	USB class problem	A device other than a USB mass storage class device is connected.	Connect a USB mass storage class USB device.
			A USB hub is connected.	Do not connect USB hubs.
	4 times repeatedly	Problem writing on the USB device	Not enough free space on the USB device.	Use a USB device with sufficient free space.
			There is a file name "REC999.WAV" in the recorded data storage folder (PIONEER DJM / DJM350 REC).	Files created through recording are given a 3-digit number. Once the number 999 is reached, no new files can be created in the folder. If this happens, move the files in the folder to a different folder.
			USB device's write protect switch is set to the on position.	Set the USB device's write-protect switch to the off position.
			You are using a USB device with a security function.	Use a USB device without a security function.
			The recorded data storage folder (PIONEER DJM / DJM350 REC) is set to "Read Only".	Change the setting so that the recorded data storage folder is writable.
	5 times repeatedly	USB device over-current detected	You are using a USB device (such as a bus power-driven hard disk) whose current is higher than this unit's rated current (500 mA).	Use a USB device within this unit's rated current (such as a hard disk driven by an AC adapter or other external power supply).
PLAY ►/	3 times	Playback error	There are no playable files in the recorded data storage folder (PIONEER DJM / DJM350 REC).	Perform the recording operation on this unit to create playable files before playing them.
⏻ (power switch)	Continuous	Circuit problem	There is a problem in the internal circuitry.	Unplug this unit's power cord from the power outlet.

5.4 OPERATION CHECK OF RECORDING / PLAYING / TO FROM A USB DEVICE

With this unit, DJ-played music (audio signals output from the MASTER OUT 1 and 2 connectors) can be recorded into a USB device, such as a USB memory device, as a WAV file. Follow the procedures below to check each operation. For details, refer to "Recording musical performance," page 12 of the Operating instructions.



1. Procedures for checking recording into a USB device

Immediately after a USB device is plugged into the USB device connector (①), the USB STOP indicator (②) starts flashing. After a while, the USB STOP indicator stops flashing and stays lit, and the unit will be ready for recording.

To start recording, press the REC key (③). The REC indicator (③) will light. To stop recording, press the REC key again. The REC indicator goes off.

2. Procedures for checking playback of data in a USB device

To start playing back the recorded track, press the PLAY key (④). The PLAY indicator (④) will light. To pause playback, press the PLAY key again.

• Checking Fast Forward/Rewind operations

For Fast Forward or Rewind operation, hold the SEARCH key (⑥) pressed during playback, respectively.

During Fast Forward/Rewind operation, the PLAY indicator flashes.

• Preview check via the headphones

Turn and set the MIXING control to the leftward position from the center then hold the TRACK MARK (PREVIEW) key (⑤) pressed. You can listen to the sound of the recorded tracks via the headphones while the key is being held. From the headphones, sound of the WAV file mixed with CH-1 and CH-2 sound will be output.

6.1 TEST MODE

A

1

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C

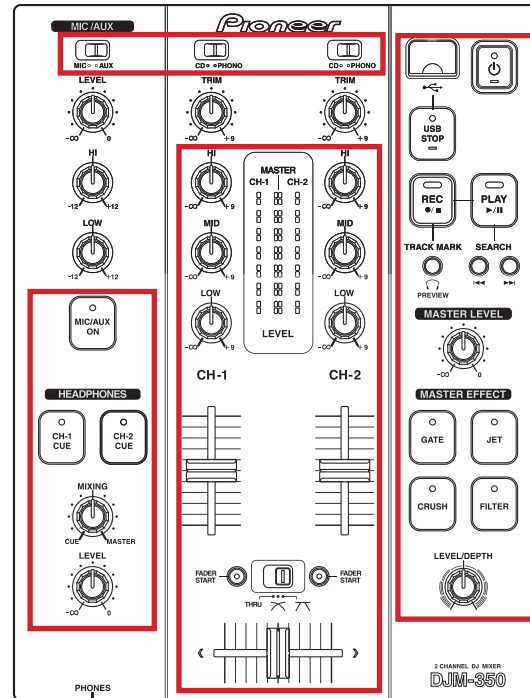


D



3. Test Possible Area

- The MIC LEVEL control is an exception to testing.
 - The MIC equalizer (HI and LOW) controls are exceptions to testing.
 - The TRIM control is an exception to testing.
- (The right controls are operating elements that are not managed by the microcomputer.)



4. Basic Operation Method

Basic Operation Method

To switch Test modes, use the SEARCH key.

With this unit, the Test mode No. is not normally indicated.

The Test mode No. is indicated on the level meter while the TRACK MARK key is held pressed.

If the Test mode is advanced, the PLAY LED flashes once.

If the Test mode is backtracked, the PLAY LED flashes twice.

Basic Operation Method 2

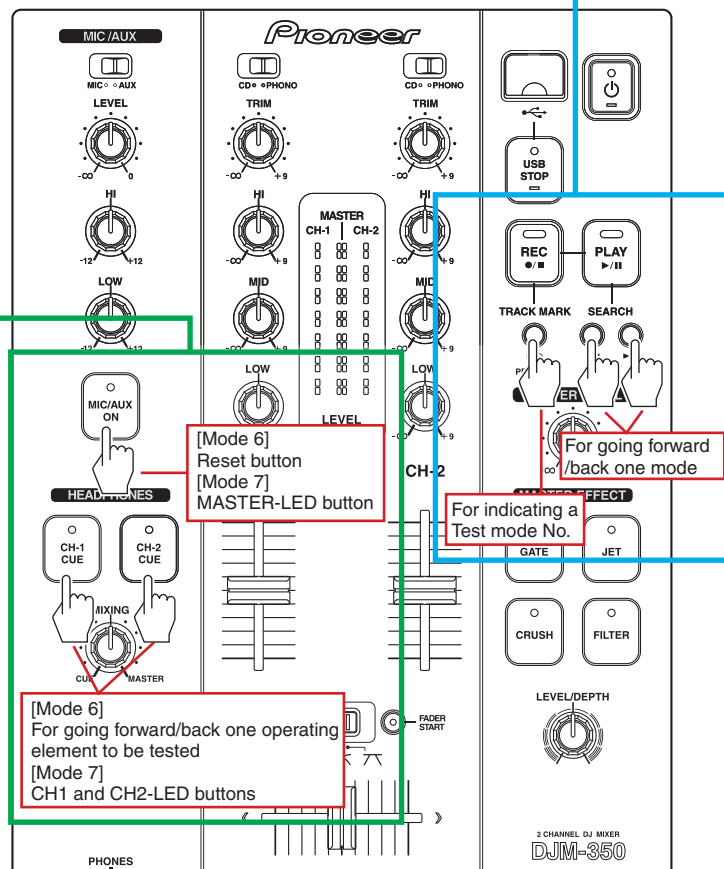
(For details, see the descriptions for each mode):

In Test 6 mode, the individual operating elements can be tested. In Test 6 mode, select an operating element, using the CH-1 CUE or CH-2 CUE key.

If an unintended erroneous value is displayed when an operating element is operated, you can reset it by pressing the MIC/AUX ON key.

In Test 7 mode, the individual LEDs of the level meters can be tested.

You can light the individual LEDs one after another, using the CH-1 CUE, CH-2 CUE, or MIC/AUX ON key.



5. Outline of the Test Mode

① Mode 0: For confirmation of the version

Version indication method

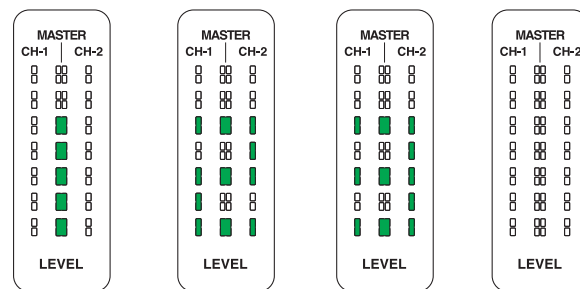
One numeric value is indicated at one time with the level meters.

The version number is a 3-digit number.

Numeric values are indicated at intervals of about 0.5 sec.

After the 3rd digit is indicated, all the LEDs are unlit for 0.5 sec in order to inform of the beginning (end) of the version number.

The figure indicates Version 1.23.



Representing 1 Representing 2 Representing 3 Unlit

② Mode 1: For making all LEDs unlit

All the LEDs are unlit, including the Power LED.

③ Mode 2: For making all LEDs lit

The Power key consists of the embedded red and green LEDs.

In the mode for making all LEDs lit, as the two LEDs are lit, the key is lit in orange.

④ Mode 3: For confirmation of individual keys

Test for keys and LEDs

In this mode, the LED-embedded keys can be tested.

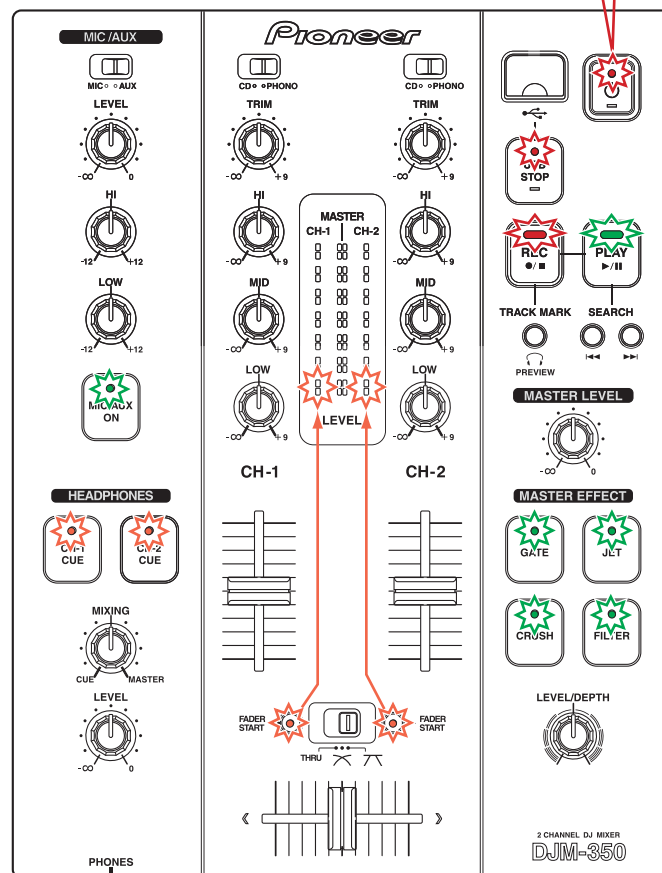
Each time a key is pressed, the corresponding embedded LED will be lit.

As the Power key comprises two color LEDs, each time the key is pressed, the color of the key changes to green, orange, or red, cyclically.

(Note: Be careful not to hold the key pressed for several seconds. Doing so may shift the mode to Standby.)

The LV0 LEDs of the CH1/CH2 level meters will be lit supplementarily, because the embedded LEDs of the FADER START keys are hidden by the operator's fingers.

Cyclically change the color.

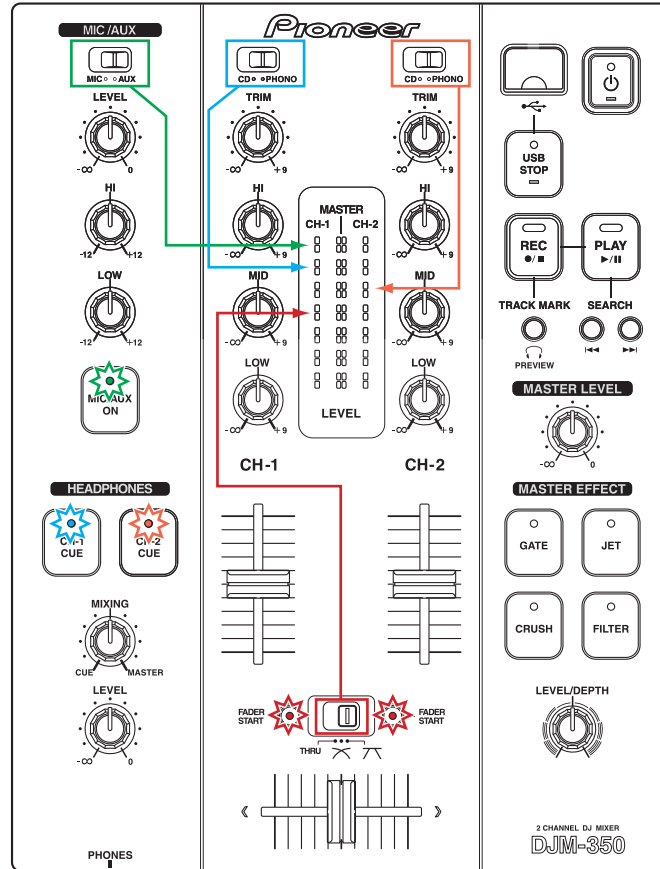


⑤ Mode 4: For confirmation of individual switches

Test for switches

In this Test mode, the MIC/AUX input selector, CD/PHONO input selectors for CH1 and CH2, and FADER curve selector can be tested.

The results of operations are basically indicated with the level meters. (Each selector and the corresponding level meter are shown in the figure right in different colors.)



⑥ Mode 5: For confirmation of the values of the rotary variable controls

Each operating element and the corresponding LED

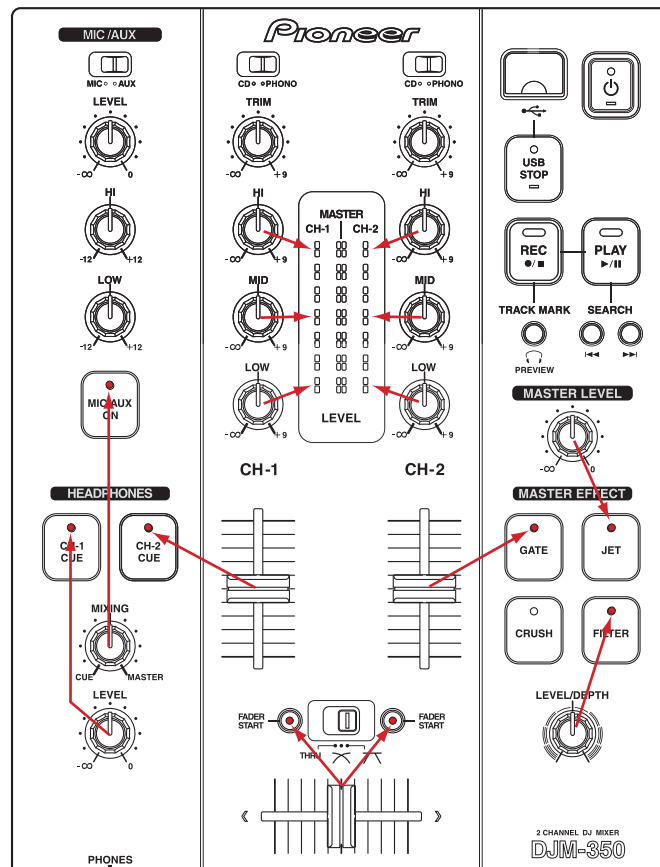
When an operating element, activation/deactivation of which is read at the AD port, is operated, the luminance of the corresponding LED will change.

An AD value is internally converted for 0-1023 steps and hysteresis is removed. The luminance of the corresponding LED will change according to the change in steps of the AD value.

MASTER LED

The values 0-1023 for the operating element being operated are represented by the 7-block MASTER LEDs.

Intermediate values of each LED are expressed by a difference in luminance.



⑦ Mode 6: For confirmation of fluctuated values of the rotary variable controls

Each LED and the corresponding operating element

In Test 6 mode, the individual AD controls can be tested. Which AD control is being tested is indicated by flashing of the corresponding LED.

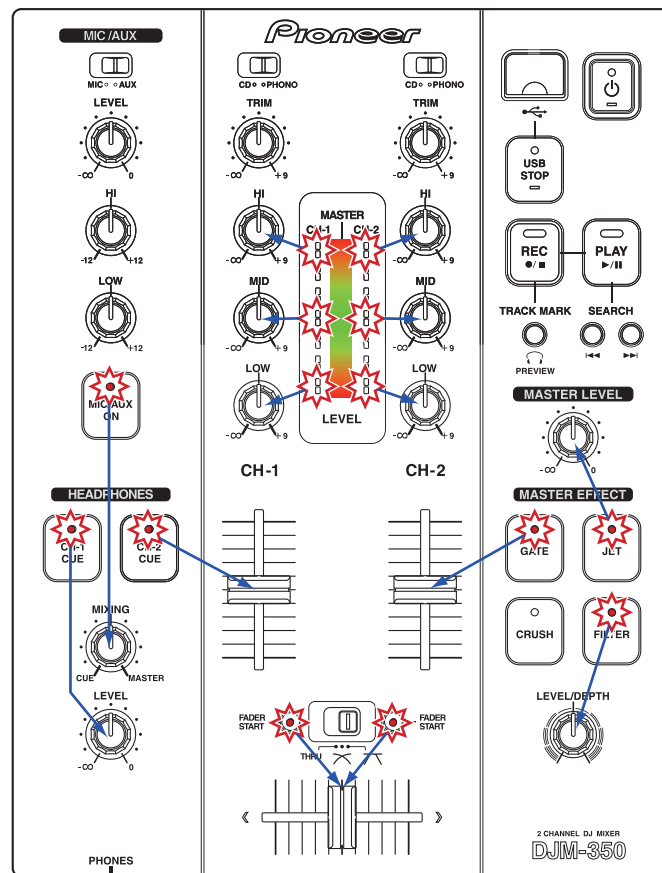
MASTER LED

The maximum and minimum values for the amplitudes of the operating element being tested are indicated by the MASTER LEDs in 7 steps (-3, -2, -1, 0, +1, +2, and +3), beginning with Level 0.

Zero represents no change.

If the fluctuated value for a rotary VR is fixed at either +3 or -3, that VR may be defective. The VRs can be set to any position during Test mode. (Specifically, the reference values for failure judgment are ± 4 . As the number of LEDs makes it impossible to indicate values of +4 or greater and -4 or smaller in this mode, the mere fact that the fluctuated value is fixed at either of +3 or -3 does not necessarily signify that the corresponding VR is defective.)

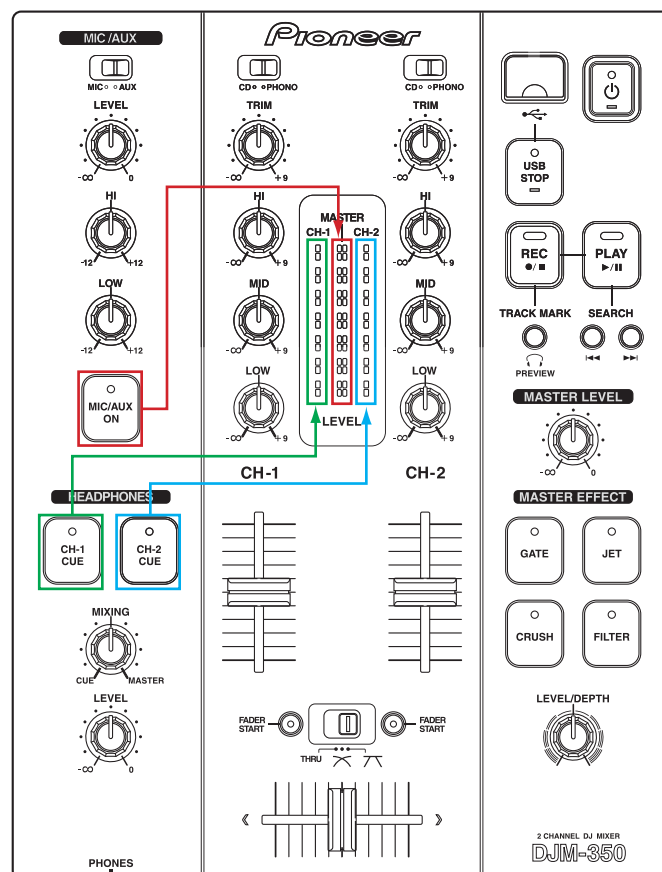
*For details on how to operate, see "4. Basic Operation Method."



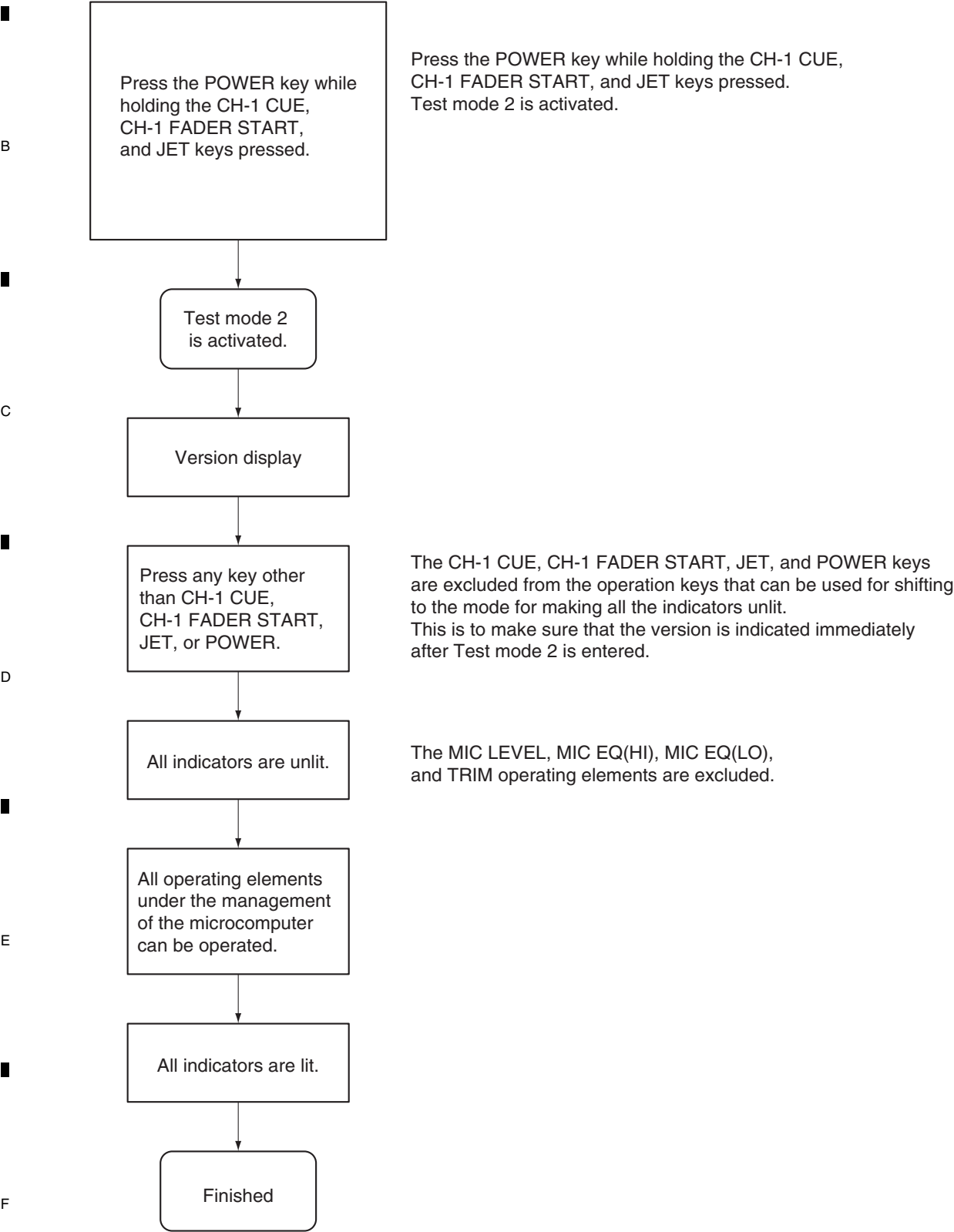
⑧ Mode 7: For confirmation of the meter LEDs

As shown in the figure, the CH1 CUE key corresponds to the CH1 level meter, the MIC/AUX ON key to the MASTER level meter, and the CH2 CUE key to the CH2 level meter. Each time one of these keys is pressed, the LEDs for the corresponding channel will light one on top of another.

If the key is held pressed, lighting of the LEDs continues automatically.



A This unit is provided with Test mode 2 for use on the production line.
In this mode, operations of keys, switches, operating elements of VRs, and indicators can be confirmed.
Use this mode as required.



7. DISASSEMBLY

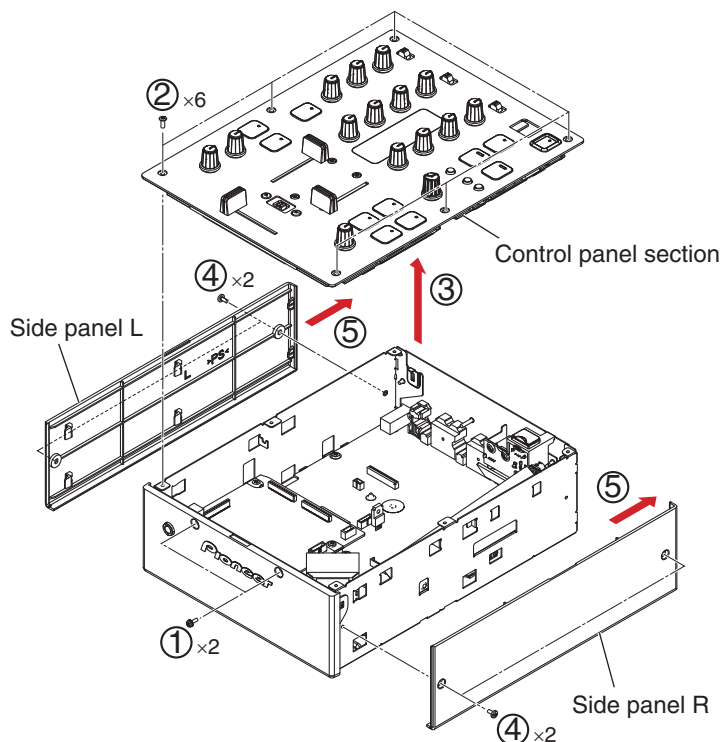
Note:

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

Disassembly

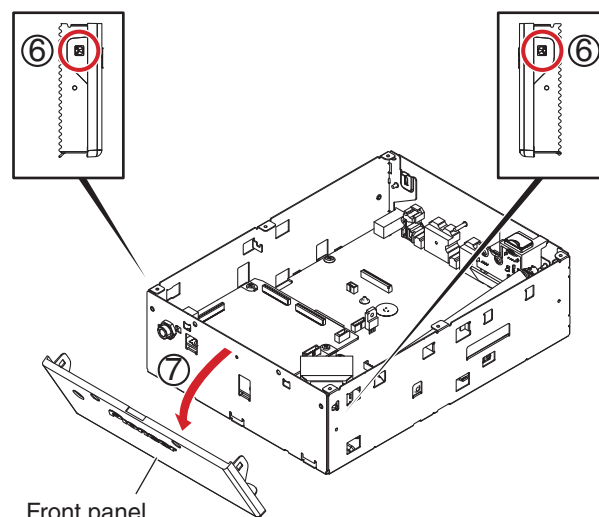
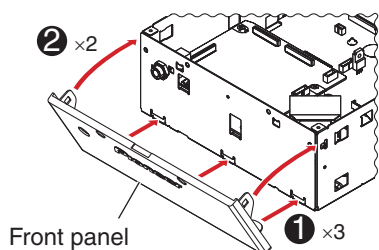
[1] Exterior Section

- (1) Remove the two screws. (PBH30P080FTB)
- (2) Remove the six screws. (DBA1290)
- (3) Remove the control panel section.
- (4) Remove the four screws. (BBZ30P060FTB)
- (5) Remove the side panels L and R while sliding to the rear direction.



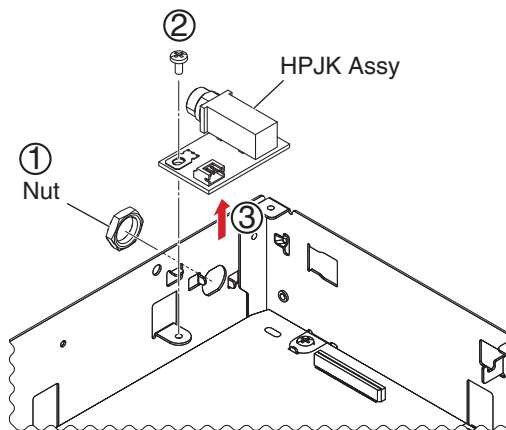
- (6) Unhook the two hooks on side.
- (7) Remove it while knocking down front panel in the front side.

• Assembling procedure

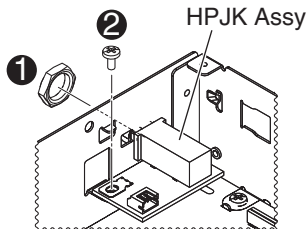


A [2] HPJK Assy

- (1) Remove the nut.
- (2) Remove the screw. (BBZ30P060FTB)
- (3) Remove the HPJK Assy.

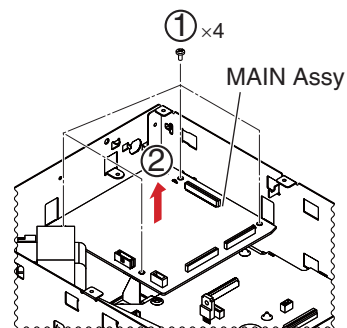


• Assembling procedure

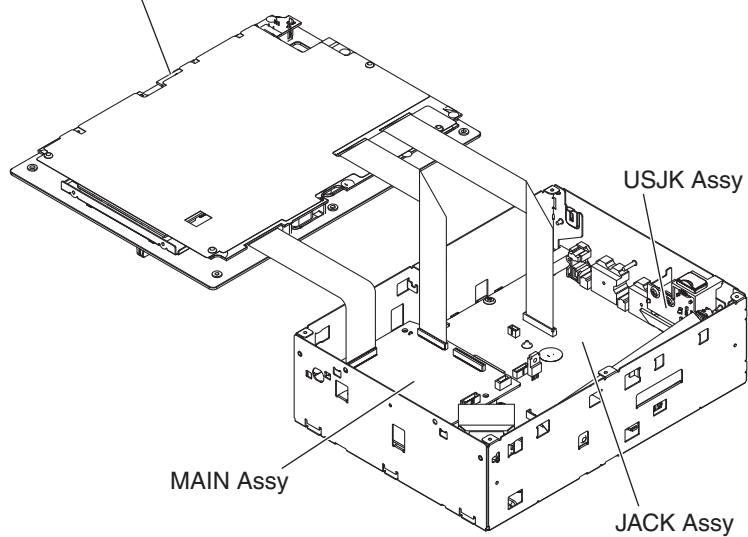


C [3] MAIN Assy

- (1) Remove the four screws. (BBZ30P060FTB)
- (2) Remove the MAIN Assy.



Control panel section

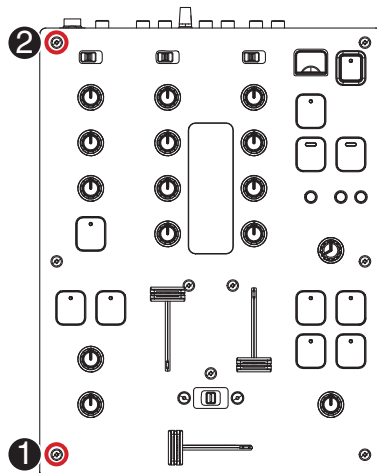


Note on Assembling

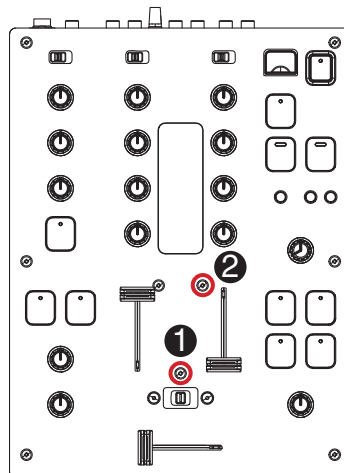
• Screw tightening order

Control panel section

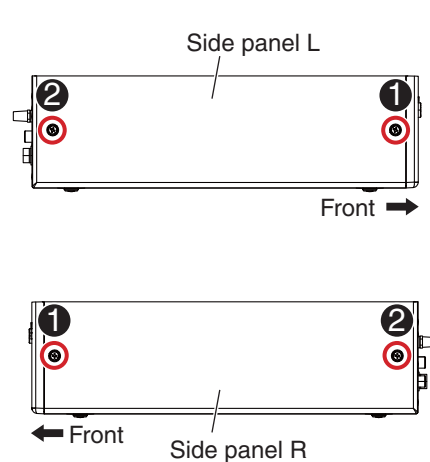
The other screws are random order.



Fader section

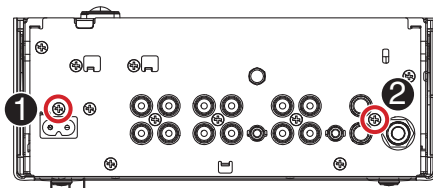


Side panel



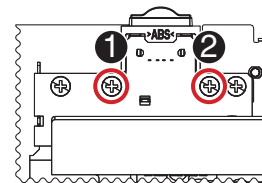
Rear panel section

The other screws are random order.



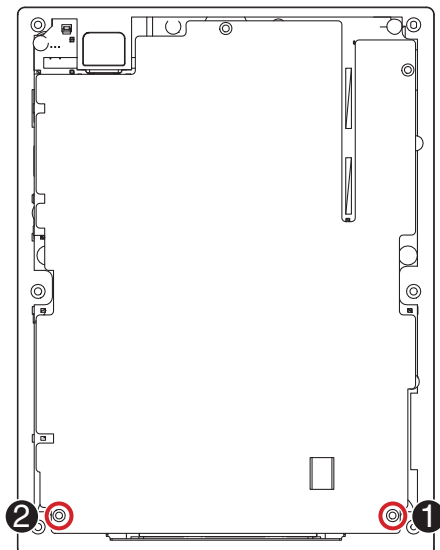
USJK Assy

The other screws are random order.

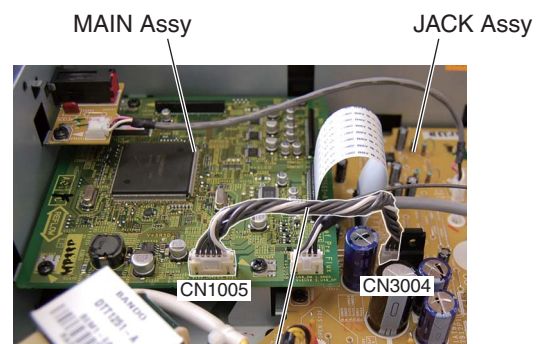


Shield sheet (Rivet)

The other screws are random order.



• Wires styling



Be connected after twisting the jumper wire.
(Connector Assy 6P)

8. EACH SETTING AND ADJUSTMENT

8.1 NECESSARY ITEMS TO BE NOTED

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

- MAIN Assy (Flash ROM)
- ⇒
- Confirmation of the version of the firmware

• Updating to the latest version of the firmware

■

B

8.2 UPDATING OF THE FIRMWARE

■ Function

Update the firmware of this unit, using a USB memory device.

- C Updater file:
File format : Binary file
Filename : djmXXXX.bin (XXXX stands for a 4-digit version No.)

■ Updating procedures

- ① Store an updater file at the top level (not in a directory) in the USB memory drive.
If several updater files exist, use the file whose filename represents the latest version.
- ② Plug the USB memory device in which the updater file is stored into the USB connector of the DJM-350.
Press the STANDBY/ON button while holding the CH1 FADER START and CH2 FADER START buttons pressed to start in Update mode.
- D ③ The CH2 level-meter segments show the progress of updating. When updating is finished, all the segments are lit.
- ④ Enter Standby mode by holding the STANDBY/ON button pressed for several seconds.
The updated firmware will be valid from the next startup. (The updated firmware will also be valid after the unit is turned off by unplugging the AC power cord then back to on by plugging it in for the next startup.)

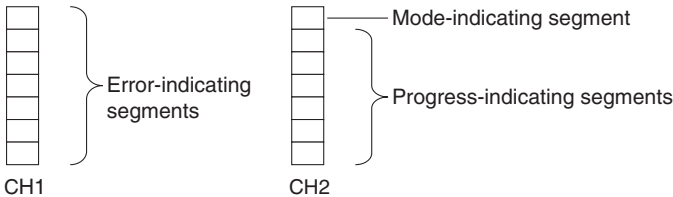
■

Indications during Update mode

The progress of updating can be confirmed with the level meters.

- CH1 level meter: Indicating errors
CH2 level meter: Indicating progresses and modes

E

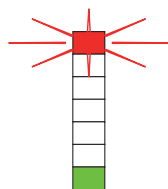


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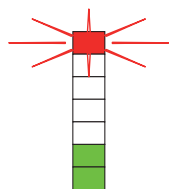
Mode-indicating segment (CH2 level meter)

- This segment flashes at intervals of 500 ms after the unit starts up in Update mode.
- F It is lit after updating is finished either successfully or unsuccessfully (with an error).

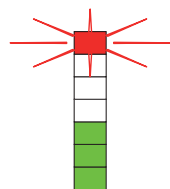
Progress-indicating segments (CH2 level meter)



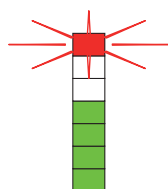
USB memory device
being detected



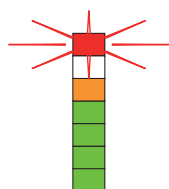
Updater file being
detected



Updater file being
read/verified



FLASH memory
being erased



FLASH memory
being verified



Updating finished
(either successfully or unsuccessfully)

Note: The Master level meter lights differently during updating, depending on whether the version of the currently installed firmware and that of the updater file are different or the same:

- If the segments of the Master level meter light in downward or upward animation after entering Update mode:
The current version of the firmware and that of the updater file are different.
- If the segments of the Master level meter are unlit after entering Update mode:
The current version of the firmware and that of the updater file are the same.

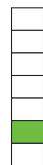
Error-indicating segments (CH1 level meter)



Updating in
progress



USB memory device
not detected



Updater file not
detected



Updater file
corrupted



Updater file
verification error



FLASH memory
erasure error



FLASH memory
write error



FLASH memory
verification error



Updating completed
successfully

8.3 USER SETTABLE ITEMS

A The following data have been set in each IC.

User Settable Item	Setting Value (Default in Bold)	Part No.	Part Name	Ref. No.	ASSY
Time required before entering Auto Standby	OFF / 20 min. / 40 min. / 60 min.	DYW1794	Flash ROM	IC1011	MAIN

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8.4 LIST OF DEVICES WHOSE OPERATION HAS BEEN CONFIRMED

For your reference, a list of the USB devices with which recording/playback operations of this unit have been confirmed is shown below.

Note: The listed data should be used only for reference, and we cannot guarantee operation of all the listed devices.

Device Name	Manufacturer	Model No.	Capacity	Remarks
USB memory device	ADATA	Classic Series C903	32GB	
USB memory device	Buffalo	RUF-C256M/U2	256MB	
USB memory device	Buffalo	RMUM-16GH/BK	16GB	
USB memory device	Buffalo	RUF2-LV32GS-BK	32GB	
USB memory device	CFD	CUFD-A32G	32GB	
USB memory device	CORSAIR	CMFUSB2.0-8GBGT	8GB	
USB memory device	CORSAIR	Flash Voyager MINI CMFUSBMINI-16GB	16GB	
USB memory device	CORSAIR	Flash Survivor CMFUSBSRVR-32GB	32GB	
USB memory device	Elecom	MF-SU202GBK	2GB	
USB memory device	Fruitshop	BONE DinosaurDriver(2GB)	2GB	
USB memory device	GreenHouse	GH-UFD256LT	256MB	
USB memory device	GreenHouse	PicoDrive ST GH-UFD16GSTZ	16GB	
USB memory device	Hagiwara-syscom	Lumitas m 1GB	1GB	
USB memory device	Hagiwara-syscom	Lumitas HD HUD-4GLD-BK	4GB	
USB memory device	HP	Flash Drive v115w HPFD115W-16	16GB	
USB memory device	IO DATA	EasyDiskPt	128MB	
USB memory device	IO DATA	TB-BH2/16G/B	16GB	
USB memory device	Imation	UFDNP8GRD	8GB	
USB memory device	Kingston	DT100/8GB	8GB	
USB memory device	LaCie	LaCie itsaKey 4GB 130872	4GB	
USB memory device	Lexar	JumpDrive TwistTurn LJDTT8GBACJP	8GB	
USB memory device	Lexar	JumpDrive Secure IIPlus DSEP16GB-860	16GB	
USB memory device	Mag-Lab	Perfect Eraser USB 4GB	4GB	
USB memory device	Patriot	Xporter PEF16GUSB XT Boost	16GB	
USB memory device	PNY	Sliding Attache UFDPSA-4G	4GB	
USB memory device	PNY	Sliding Attache UFDPSA-8G	8GB	
USB memory device	PQI	Intelligent Drive i810 plus BF14-4033	4GB	
USB memory device	Princeton	PFU-MH/8B	8GB	
USB memory device	SanDisk	SDCZ12-2048	2GB	
USB memory device	SanDisk	cruzer colors+ SDCZ23-008G-J65P	8GB	
USB memory device	SanDisk	Cruzer Micro SDCZ6-016G-A11	16GB	
USB memory device	SANWA SUPPLY	UFD-S8GK	8GB	
USB memory device	Silicon Power	ULTIMA-II SP016GBUF2M01V1K	16GB	
USB memory device	Sony	USM4GL	4GB	
USB memory device	Sony	USM8GL	8GB	
USB memory device	Sony	USM16GLX	16GB	
USB memory device	Supertalent	Pico mini USB Drive STU8GMAB	8GB	
USB memory device	TDK	UFD4GS-SA	4GB	
USB memory device	Team Group	Fusion Drive TG004GF102A	4GB	
USB memory device	TOSHIBA	TransMemory U2M-008GT	8GB	
USB memory device	Verbatim	USB Drive 2.0 USBL2GVC3	2GB	
USB memory device	Verbatim	USB Drive 2.0 Executive USBE8GVZ	8GB	
USB memory device	Verbatim	USB Drive 2.0 Executive USBE16GVZ	16GB	
USB memory device	VERICO	VM05 64GB	64GB	
Digital Audio Player	Transcend	T.sonic 320 TS8GMP320	8GB	
Digital Audio Player	GreenHouse	Kana Flash GH-KANAFL-2GP	2GB	
HDD	Logitec	LHD-ED500U2	500GB	
HDD	Logitec	LHD-HB500U2	500GB	
HDD	IO DATA	HDCN-U500	500GB	
SDHC *	Transcend	TS8GSDHC	8GB	

*: A card reader is required.

1

2

3

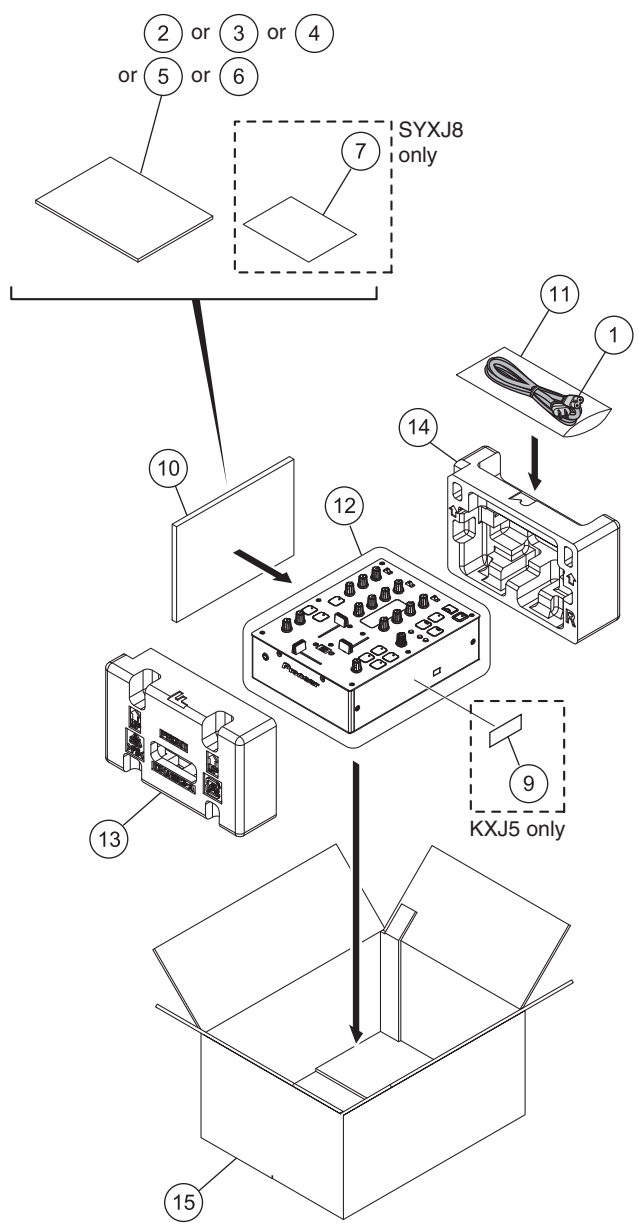
4

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	Power Cable	See Contrast table (2)
	2	Operating Instructions	See Contrast table (2)
	3	Operating Instructions	See Contrast table (2)
	4	Operating Instructions	See Contrast table (2)
	5	Operating Instructions	See Contrast table (2)
NSP	6	Operating Instructions	See Contrast table (2)
	7	Warranty Card (WY)	See Contrast table (2)
	8	•••••	
NSP	9	Rycycle Label (M)	See Contrast table (2)
	10	Polyethylene Bag	AHG7117
	11	Vinyl Bag	Z21-013
	12	Packing Sheet	AHG7015
	13	Pad F	See Contrast table (2)
	14	Pad R	See Contrast table (2)
	15	Packing Case	See Contrast table (2)

(2) CONTRAST TABLE

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

Mark	No.	Symbol and Description	DJM-350 /SYXJ8	DJM-350 /CUXJ	DJM-350 /LXJ	DJM-350 /KXJ5	DJM-350 /AXJ5
⚠ NSP	1	Power Cable	ADG1154	ADG7022	ADG1154	XDG3054	ADG7079
	2	Operating Instructions (En, Fr, De, It, NI, Es, Ru)	DRB1501	Not used	Not used	Not used	Not used
	3	Operating Instructions (En)	Not used	DRB1502	Not used	Not used	Not used
	4	Operating Instructions (En, Es, Zhtw)	Not used	Not used	DRB1504	Not used	Not used
	5	Operating Instructions (Ko)	Not used	Not used	Not used	DRB1503	Not used
	6	Operating Instructions (Zhcn)	Not used	Not used	Not used	Not used	DRB1505
	7	Warranty Card (WY)	ARY7107	Not used	Not used	Not used	Not used
	9	Rycycle Label (M)	Not used	Not used	Not used	DRW2307	Not used
	13	Pad F	DHA1813	DHA1813	DHA1813	DHA1815	DHA1813
	14	Pad R	DHA1814	DHA1814	DHA1814	DHA1816	DHA1814
	15	Packing Case	DHG2963	DHG2964	DHG2966	DHG2968	DHG2967

9.2 EXTERIOR SECTION

A

B

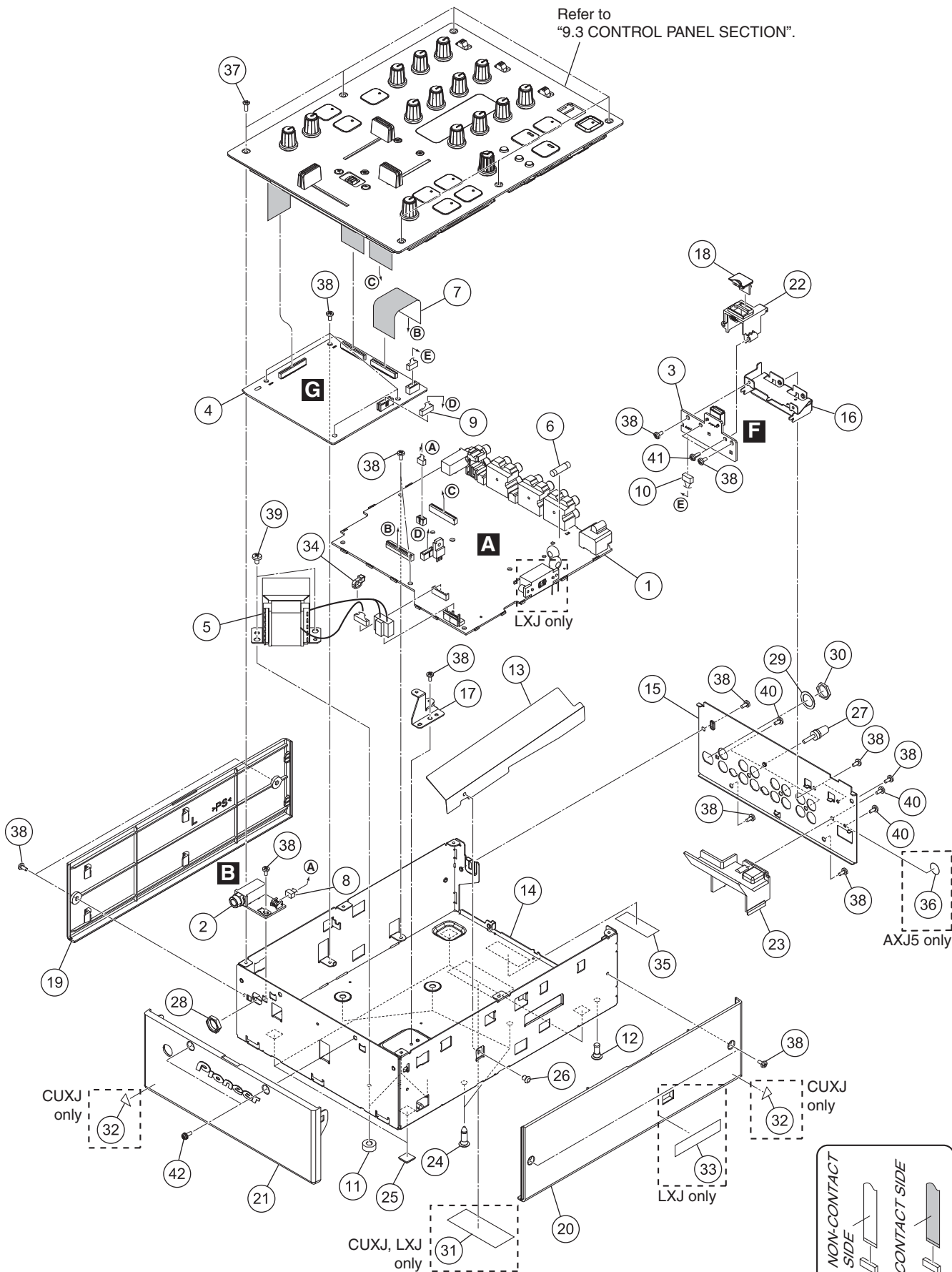
C

D

E

F

Refer to
"9.3 CONTROL PANEL SECTION".



(1) EXTERIOR SECTION PARTS LIST

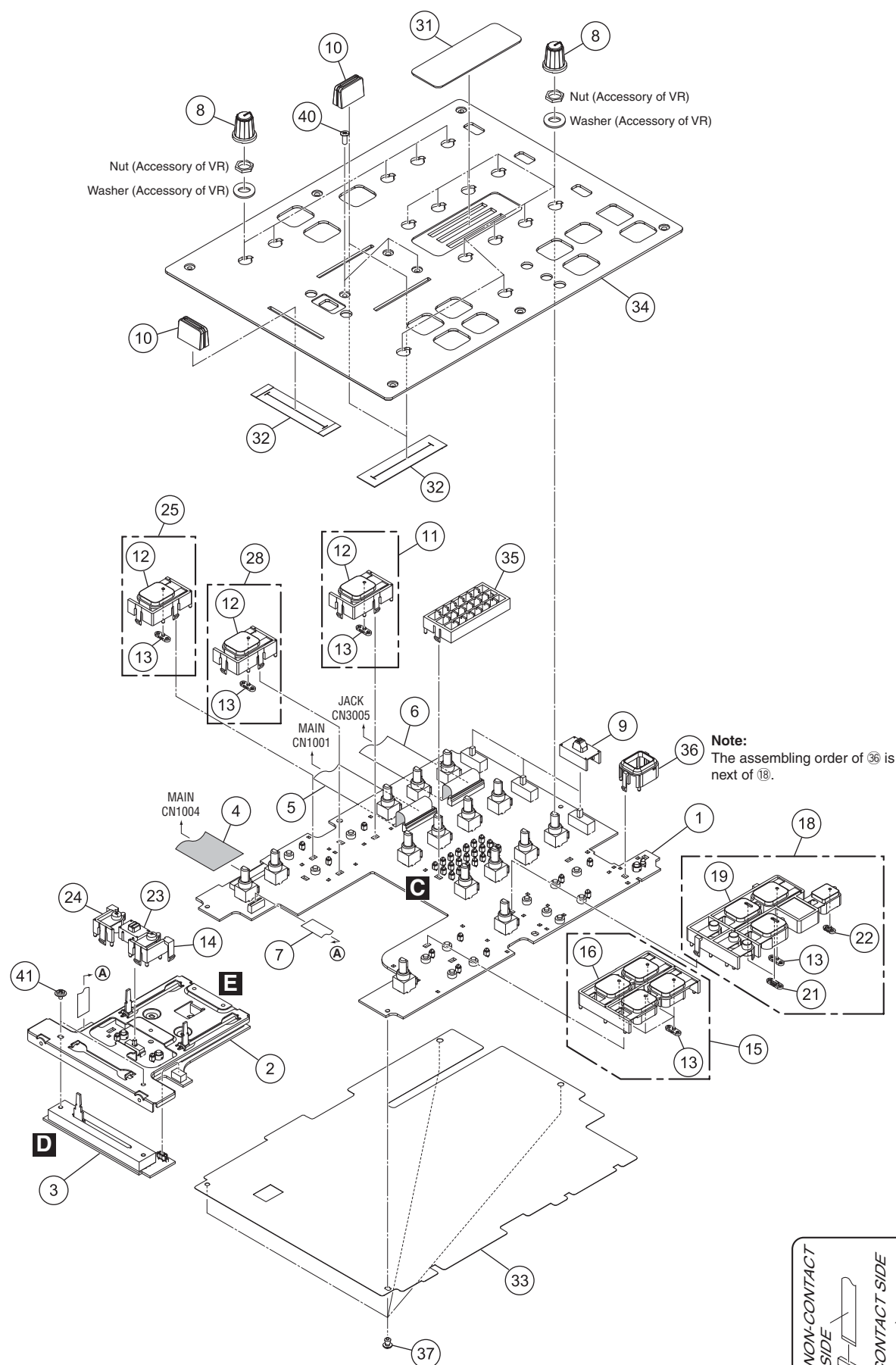
Mark No.	Description	Part No.	Mark No.	Description	Part No.	
	1 JACK Assy	See Contrast table (2)	⚠ 21	Front Panel	DNK5556	
	2 HPJK Assy	DWX3114		22 USB Holder	DNK5598	A
	3 USJK Assy	DWX3115	⚠ 23	PCB Cover	DNK5765	
	4 MAIN Assy	DWX3112		24 PCB Holder	PNW2029	
⚠ 5	Transformer	See Contrast table (2)		25 Rubber Foot	VEB1349	
⚠ 6	Fuse (T400 mA)	AEK1050		26 Rivet (Plastic)	RBM-003	
	7 29P FFC	DDD1532		27 Terminal Screw	AKE-031	
	8 Connector Assy 3P	DKP3868		28 Nut M12	DBN1018	
	9 Connector Assy 6P	DKP3892		29 Washer	DEC2920	
	10 Connector Assy 4P	DKP3893		30 Nut (M12)	NKX2FNI	
NSP 11	Spacer	AEB7092	NSP 31	FCC Label	See Contrast table (2)	B
	12 PCB Holder	AEC7057	NSP 32	Label	See Contrast table (2)	
	13 Shield Sheet B	DEC3311	NSP 33	V Select Label	See Contrast table (2)	
	14 Chassis	DNA1372		34 Binder	ZCA-SKB90BK	
	15 Rear Panel	See Contrast table (2)	NSP 35	Label	VRW1629	
	16 USB Stay	DNF1854	NSP 36	CCC S & E Label	See Contrast table (2)	
	17 Main Stay	DNF1856		37 Screw (FE)	DBA1290	
	18 USB Cover	DNK4999		38 Screw	BBZ30P060FTB	
⚠ 19	Side Panel L	DNK5554		39 Screw	BBZ40P060FTC	
⚠ 20	Side Panel R	See Contrast table (2)		40 Screw	BPZ30P080FTB	C
				41 Screw	BPZ30P080FTC	
				42 Screw	PBH30P080FTB	

(2) CONTRAST TABLE

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

Mark	No.	Symbol and Description	DJM-350 /SYXJ8	DJM-350 /CUXJ	DJM-350 /LXJ	DJM-350 /KXJ5	DJM-350 /AXJ5
⚠	1	JACK Assy	DWX3136	DWX3135	DWX3116	DWX3136	DWX3136
	5	Transformer	DTT1253	DTT1252	DTT1250	DTT1253	DTT1253
	15	Rear Panel	DNC1948	DNC1947	DNC1950	DNC1952	DNC1951
⚠	20	Side Panel R	DNK5555	DNK5555	DNK5601	DNK5555	DNK5555
NSP	31	FCC Label	Not used	Not used	DRW2299	Not used	Not used
NSP	31	FCC, Class B Label	Not used	DRW2300	Not used	Not used	Not used
NSP	32	Label	Not used	DRW1975	Not used	Not used	Not used
NSP	33	V Select Label	Not used	Not used	DRW2349	Not used	Not used
NSP	36	CCC S & E Label	Not used	Not used	Not used	Not used	DRW2310

9.3 CONTROL PANEL SECTION



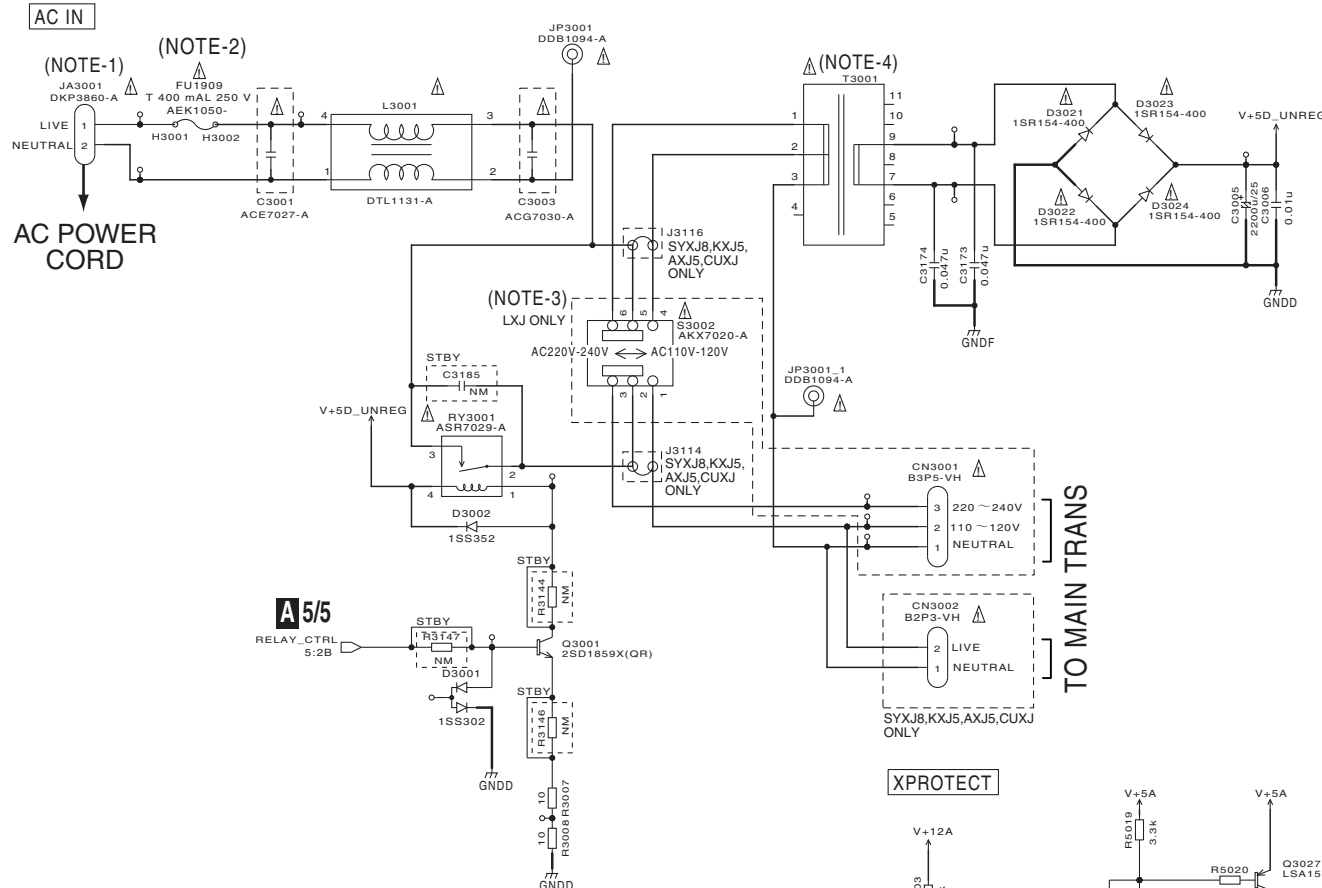
CONTROL PANEL SECTION PARTS LIST

Mark No.	Description	Part No.	
1	VRSW Assy	DWX3117	
2	FADR Assy	DWX3118	A
3	CRFD Assy	DWX3119	
4	31P FFC	DDD1529	
5	27P FFC	DDD1530	
6	29P FFC	DDD1531	
7	10P FFC	DDD1533	
8	Rotary VR Knob (B)	DAA1257	
9	SW Cap MIC	DAC2346	
10	Slider Knob	DAC2501	
11	Button MIC Assy	DAC2583	B
12	Button CUE	DAC2582	
13	LED Lens	DNK5553	
14	Button Fader R	DAC2586	
15	Button EFFECT Assy	DAC2587	
16	Button EFFECT	DAC2588	
17	•••••		
18	Button REC Assy	DAC2589	
19	Button REC	DAC2602	
20	•••••		C
NSP 21	Lens REC	DNK5558	
NSP 22	Lens STANDBY	DNK5729	
23	SW Cap Fader	DAC2591	
24	Button Fader L	DAC2593	
25	Button CUE1 Assy	DAC2600	
26	•••••		
27	•••••		
28	Button CUE2 Assy	DAC2601	
29	•••••		D
30	•••••		
31	Level Plate	DAH2788	
32	Fader Packing	DEC2903	
33	Shield Sheet	DEC3224	
34	Control Panel	DNB1180	
35	Level Meter Holder	DNK4622	
36	STANDBY Guard	DNK5730	
37	Rivet (Plastic)	RBM-003	
38	•••••		E
39	•••••		
40	Screw (FE)	DBA1290	
41	Screw	IMZ30P040FTC	

10. SCHEMATIC DIAGRAM

10.1 JACK ASSY (1/5)

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

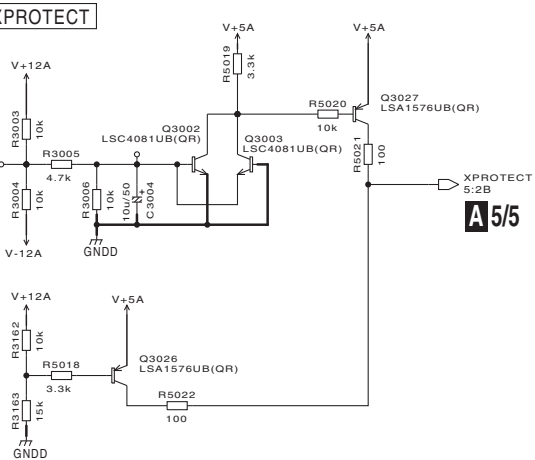


(NOTE-2)

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE.
REPLACE WITH SAME TYPE NO.218.400
MFD. BY LITTLEFUSE FOR FU1909

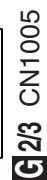
	AC POWER CORD	TRANS	SUB TRANS
LXJ	ADG1154-	DTT1250-	DTT1242-
CUXJ	ADG7022-	DTT1252-	DTT1244-
SYXJ8	ADG1154-	DTT1253-	DTT1245-
AXJ5	ADG7079-	DTT1253-	DTT1245-
KXJ5	XDG3054-	DTT1253-	DTT1245-

	(NOTE-1)	(NOTE-5)	(NOTE-5)	(NOTE-3)
LXJ	JA3001	CN3001	CN3002	S3002
CUXJ	DKP3860-	B3P5-VH	NO USE	AKX7020-
SYXJ8, KXJ5, AXJ5	DKP3860-	NO USE	B2P3-VH	NO USE



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.

F



Notes

$\overline{NM}$ is STBY

 RS1/10SR***J Ω

CH  CCSRCH***J F

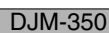
SQ  CKSQBY***K F

 CKSRYB***K F

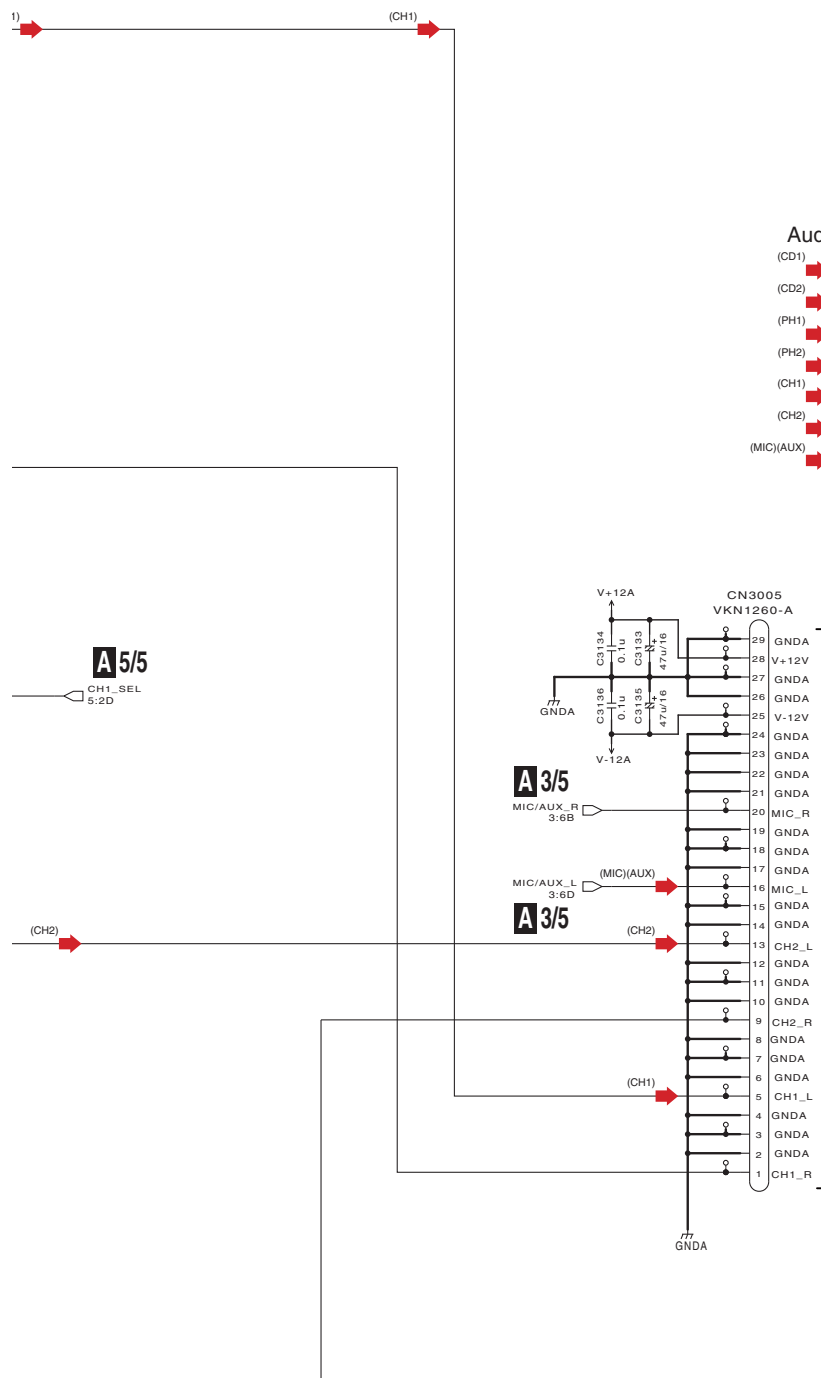
NP  CEANP F

 CEAT F

4



A2/5 JACK ASSY (SYXJ8,KXJ5,AXJ5: DWX3136) (CUXJ: DWX3135) (LXJ: DWX3116)

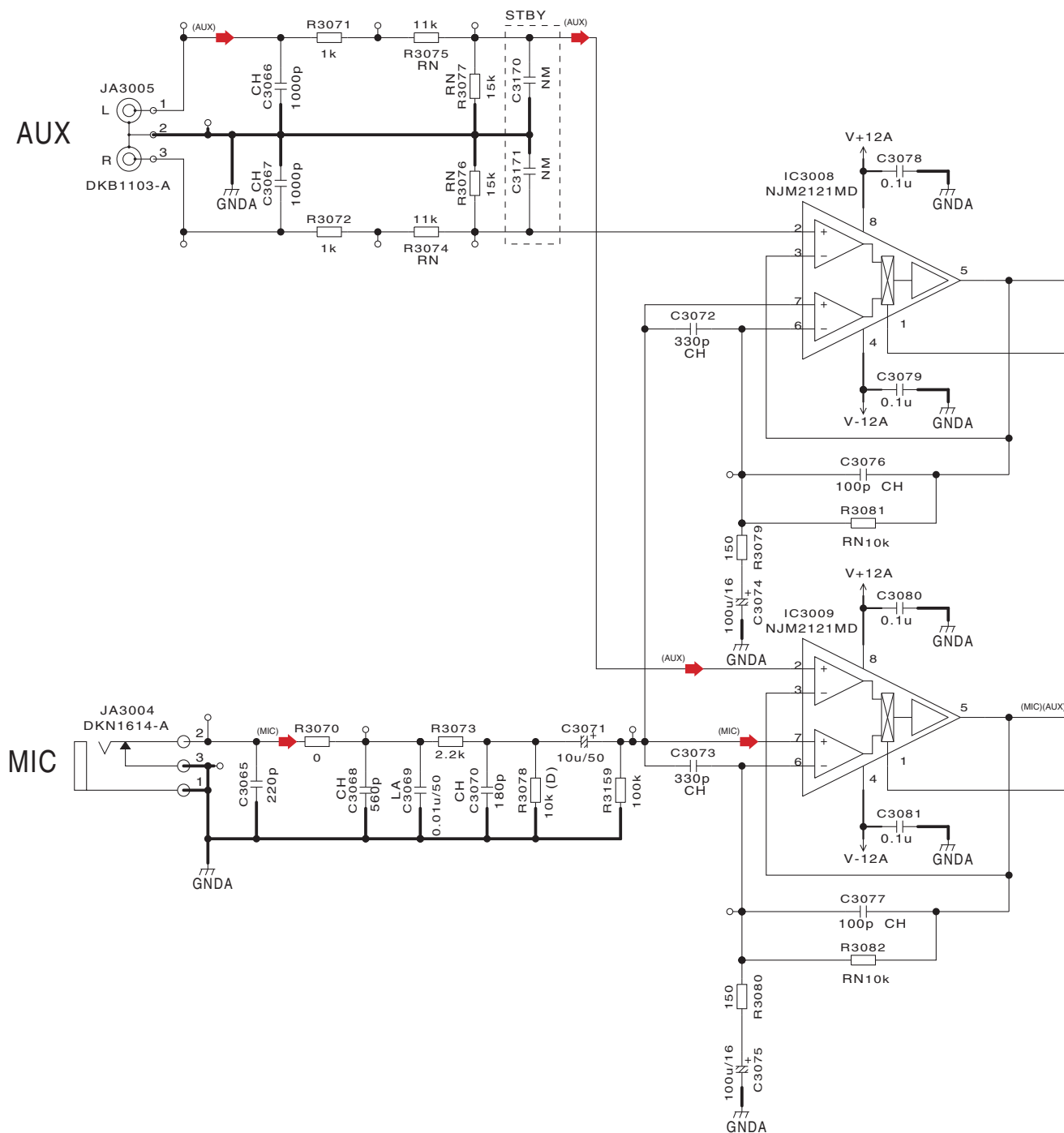


Audio Signal Route

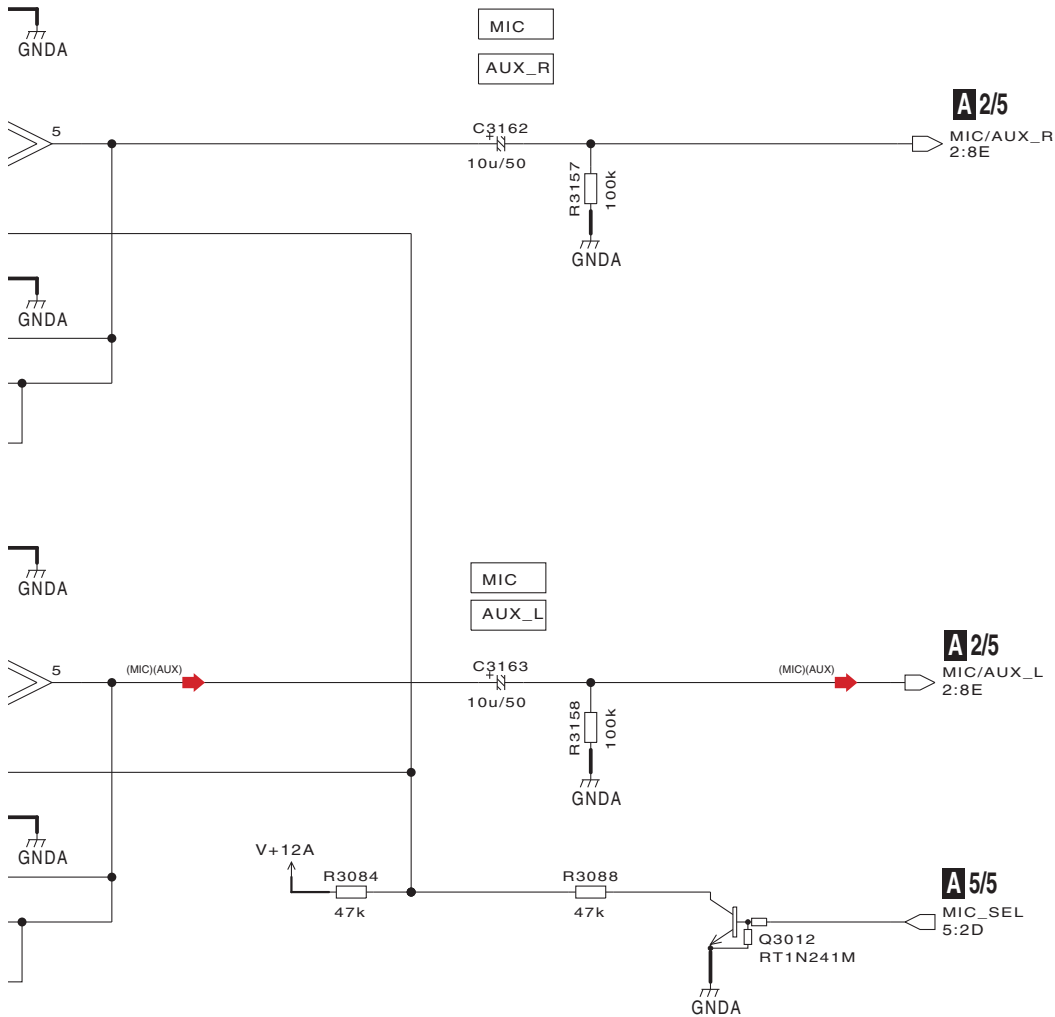
- (CD1) : CD1 Input Signal (L CH)
- (CD2) : CD2 Input Signal (L CH)
- (PH1) : PHONO1 Input Signal (L CH)
- (PH2) : PHONO2 Input Signal (L CH)
- (CH1) : CH1 Signal (L CH)
- (CH2) : CH2 Signal (L CH)
- (MIC)(AUX) : MIC or AUX Input Signal (L CH)

Notes				
(D)	RS1/16SR****D	Ω		
RN	RN1/16SE****D	Ω		
CH	CCSRCH***J	F		
SQCH	CCSQCH***J	F		
LA	CFTLA***J	F		
	CKSRBY****K	F		
	CEAT****M	F		

10.3 JACK ASSY (3/5)



A3/5 JACK ASSY
 (SYXJ8,KXJ5,AXJ5: DWX3136)
 (CUXJ: DWX3135)
 (LXJ: DWX3116)

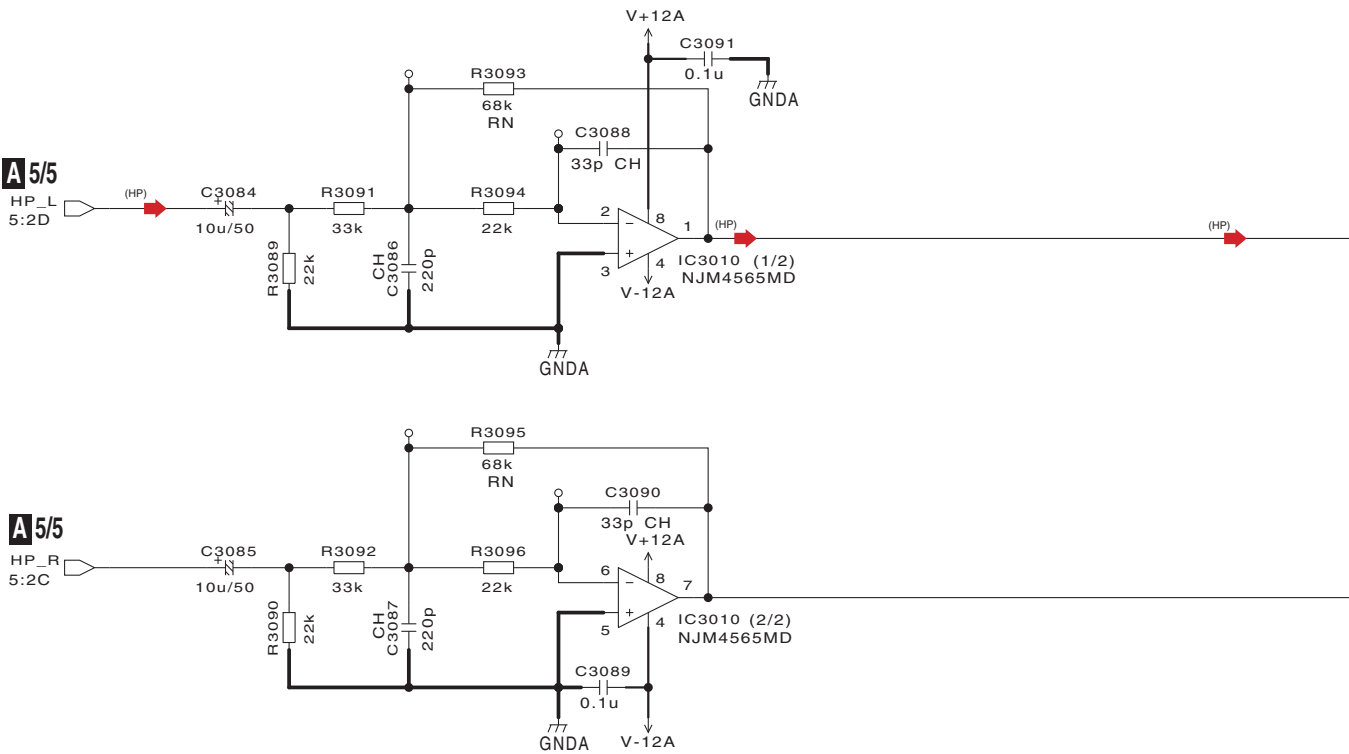


Notes			
[_NM_] is STBY			
RN		RN1/16SE****D	Ω
(D)		RS1/10SR****D	Ω
		RS1/10SR***J	Ω
CH		CCSRCH***J	F
LA		CFTLA***J	F
		CKSRYB***K	F
		CEAT	μ F

Audio Signal Route

(MIC) : MIC Input Signal (L CH)
 (AUX) : AUX Input Signal (L CH)

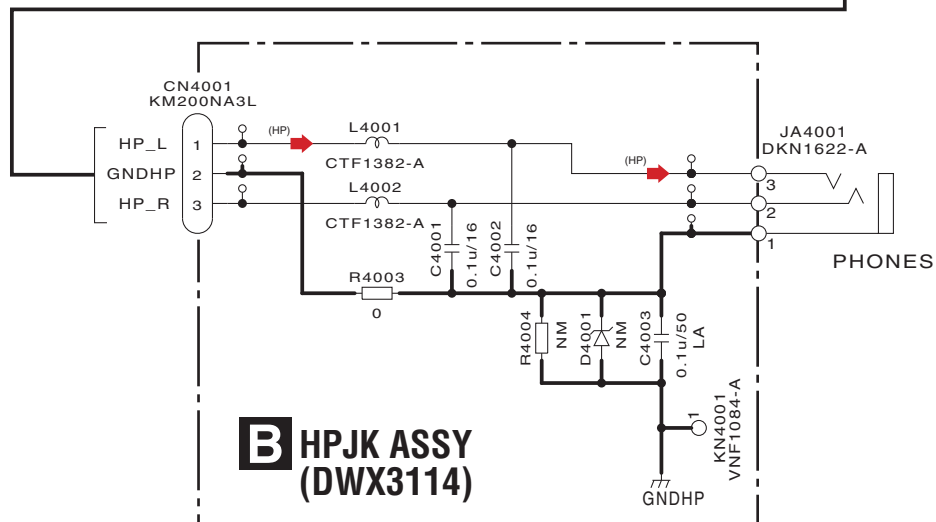
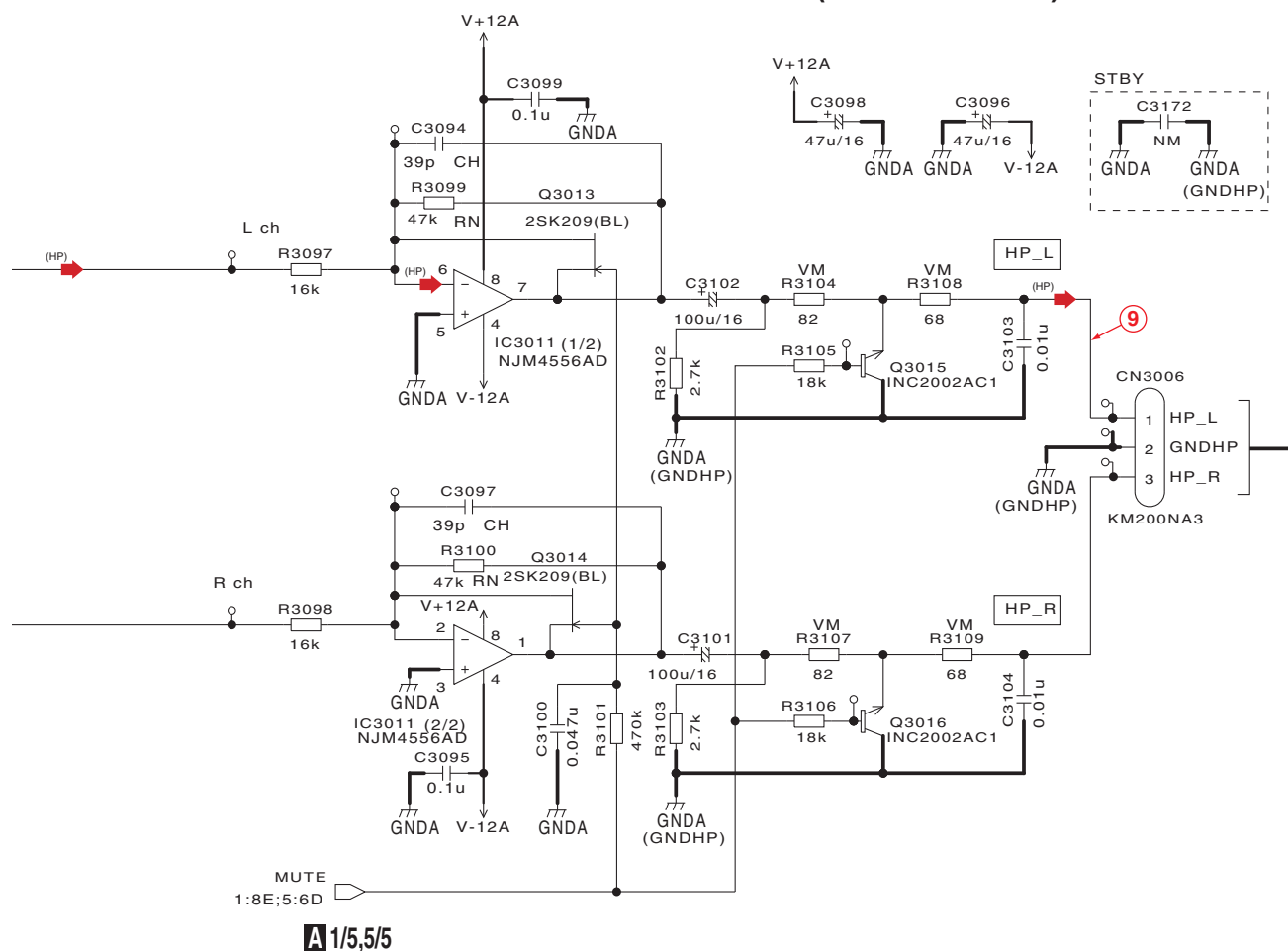
10.4 JACK (4/5) and HPJK ASSYS



Notes | NM1 is STBY

VM	RD1/2VM***	Ω
RN	RN1/16SE****D	Ω
	RS1/10SR***J	Ω
CH	CCSRCH***J	F
	CKSRYB***K	F
	CEAT	μ F

A 4/5 JACK ASSY (SYXJ8,KXJ5,AXJ5: DWX3136) (CUXJ: DWX3135) (LXJ: DWX3116)



Audio Signal Route

(HP) → : HEADPHONE Signal (L CH)

NOTES NM is STBY

RS1/10SR***J Ω

CKSRYB***J F

LA CFTLA***J F

10.5 JACK ASSY (5/5)

A

B

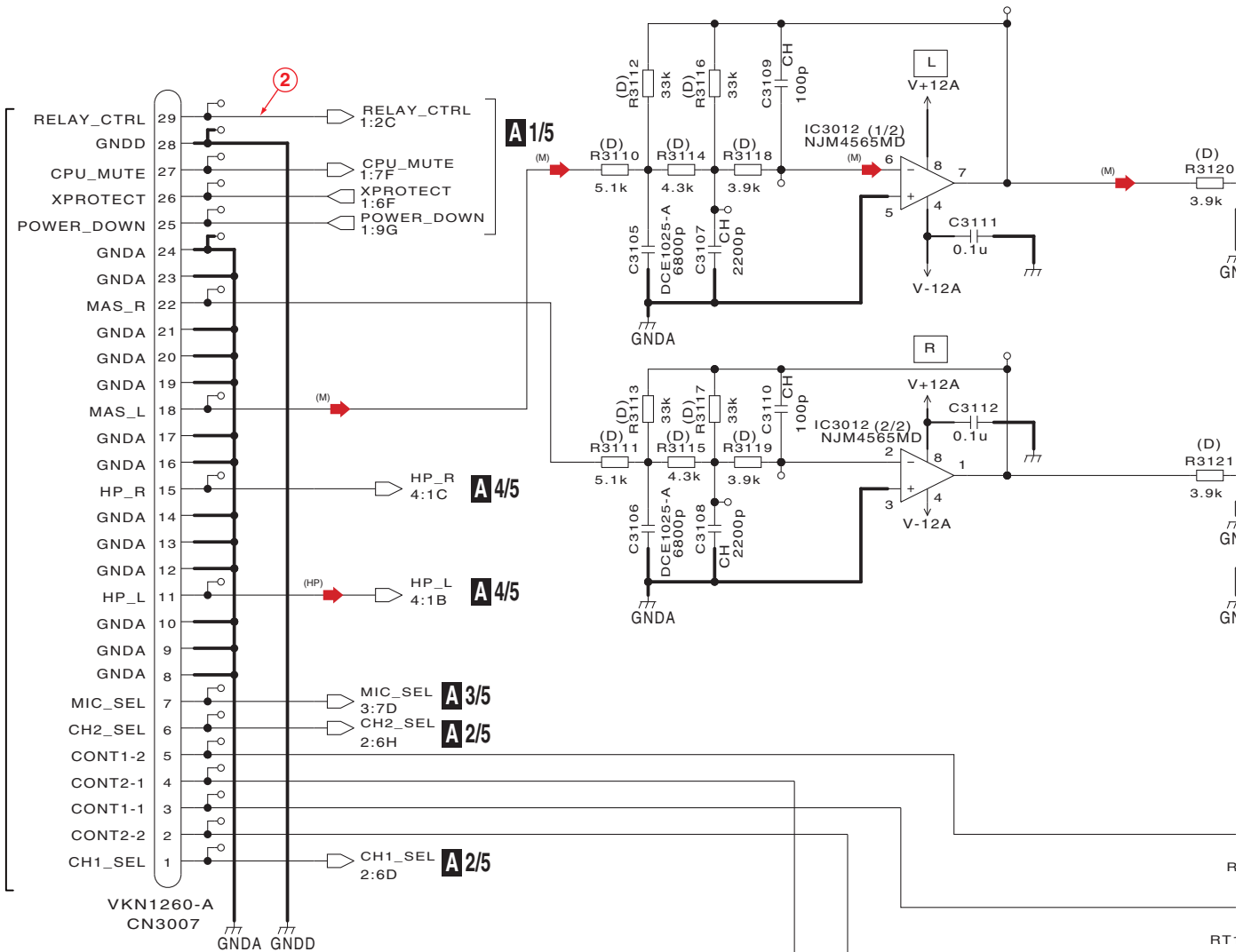
C

D

E

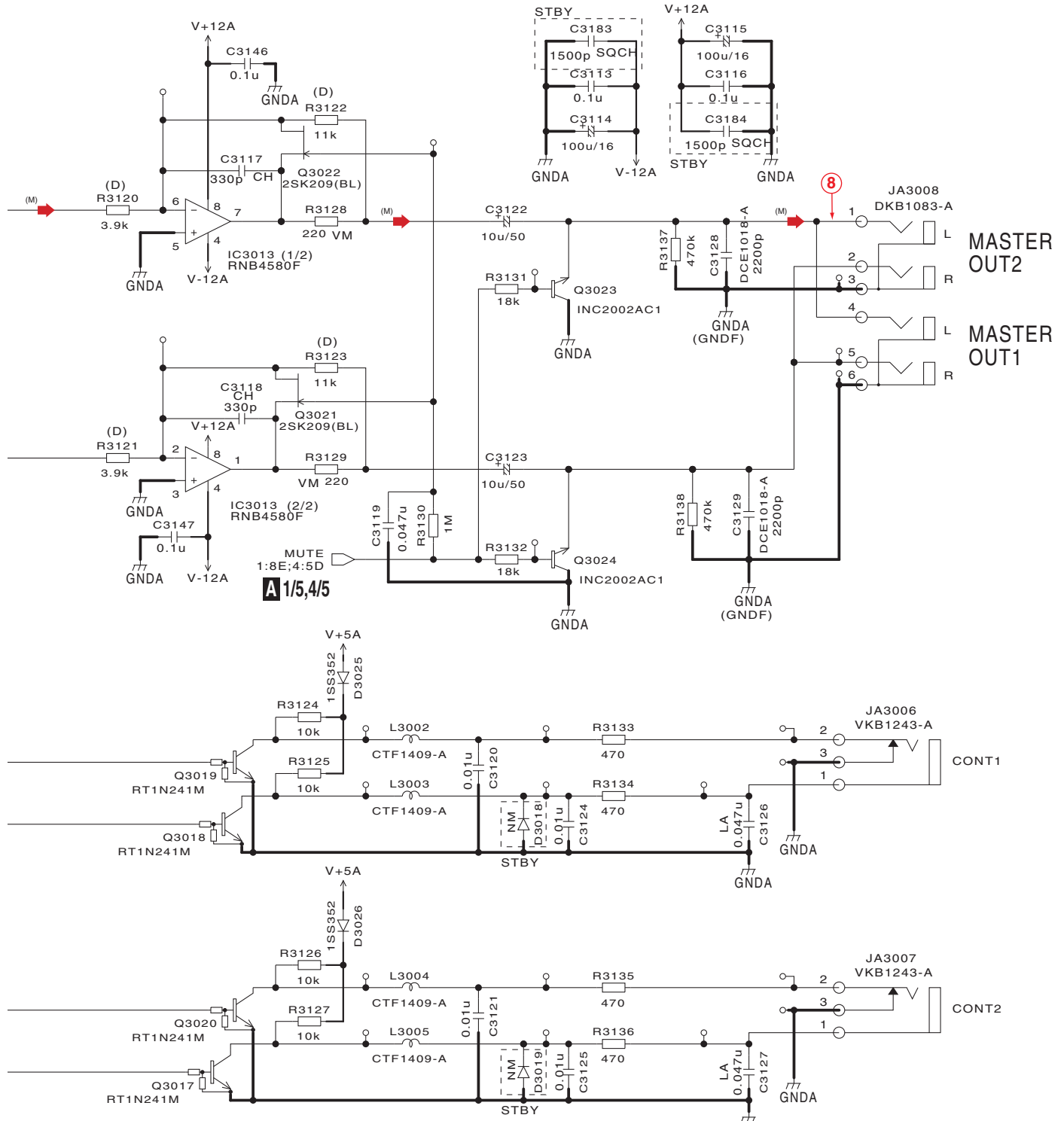
F

G2/3 CN1002



A5/5

A5/5 JACK ASSY
 (SYXJ8,KXJ5,AXJ5: DWX3136)
 (CUXJ: DWX3135)
 (LXJ: DWX3116)



A 1/5,4/5

10.6 VRSW ASSY (1/3)

A

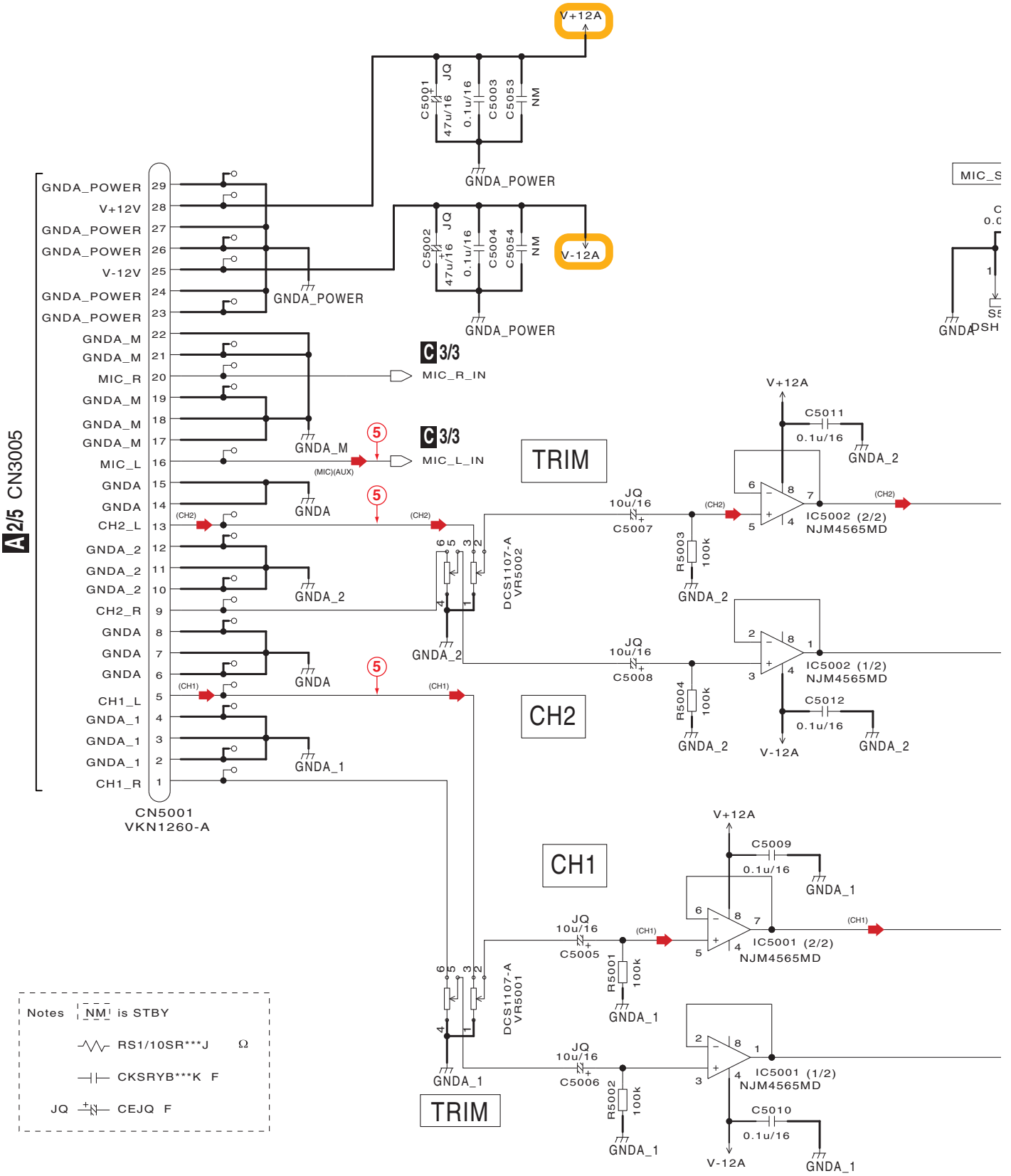
B

C

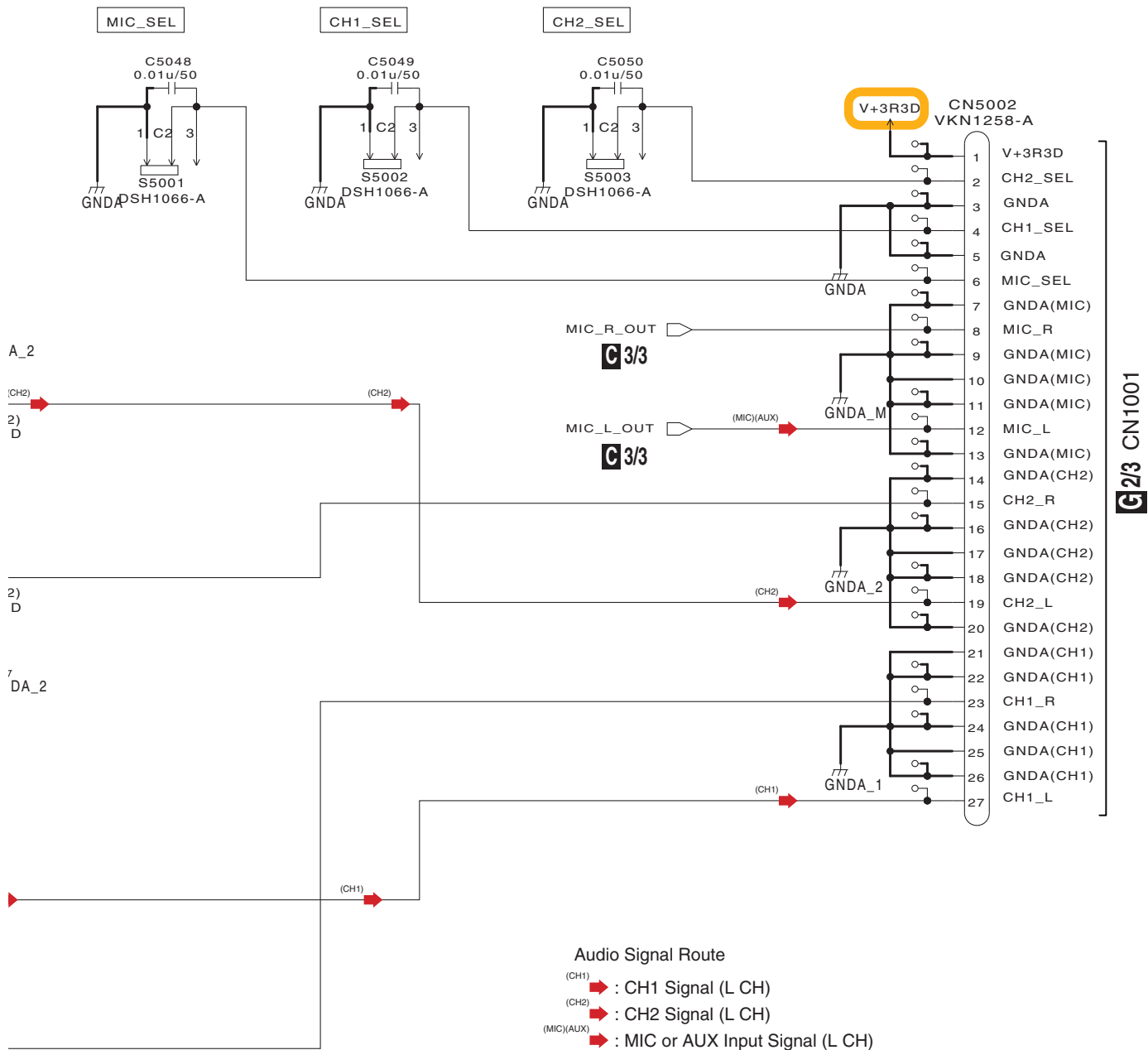
D

E

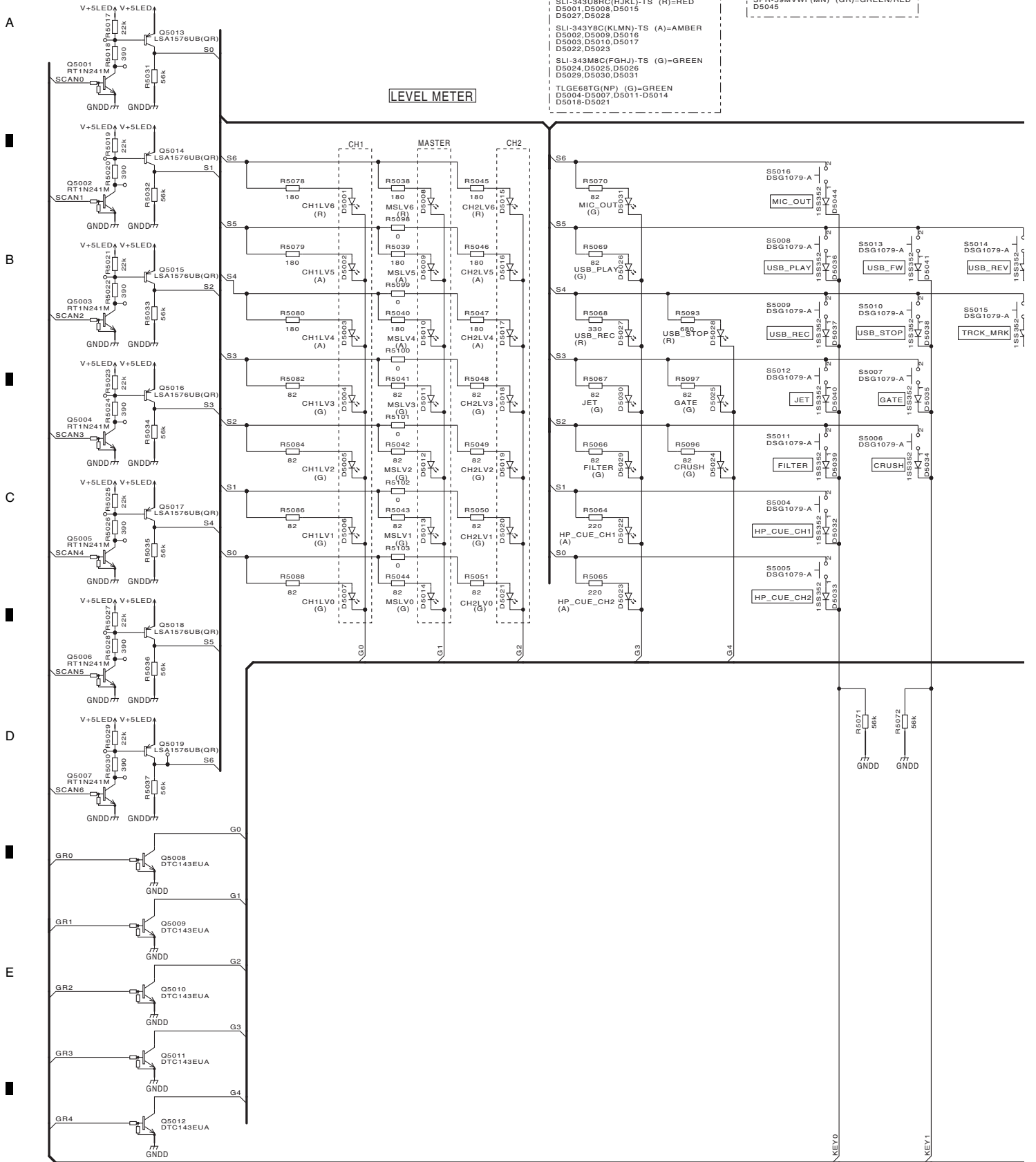
F



C1/3 VRSW ASSY (DWX3117)



10.7 VRSW ASSY (2/3)



F

A **C3/3 VRSW ASSY**
(DWX3117)

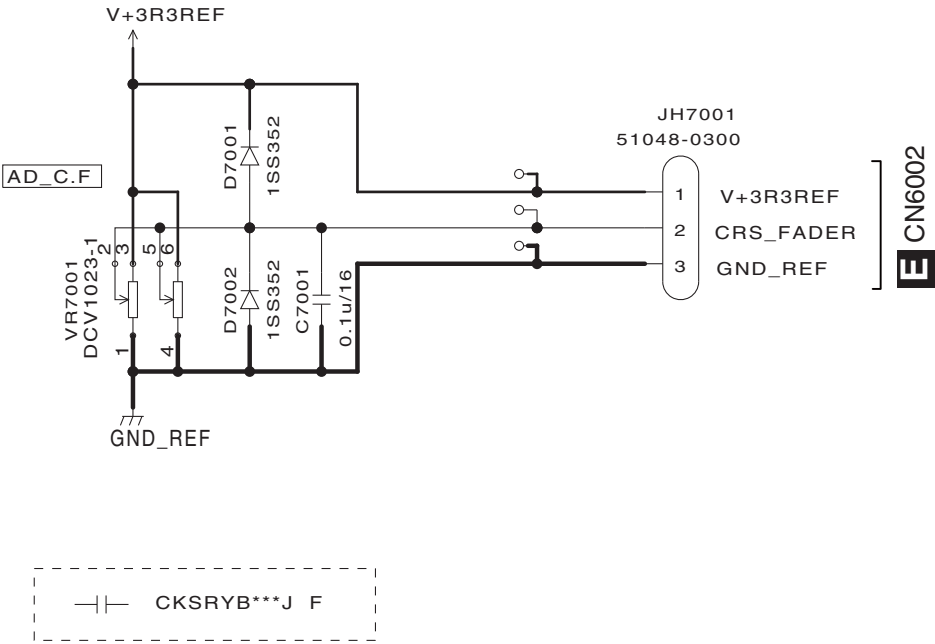


(MIC)(AUX)  : MIC or AUX Input Signal (L CH)

RN		RN1/16SE****D	
		RS1/10SR***J	Ω
CH		CCSRCH***J	F
QYB		CKSQYB***J	F
		CKSRYB***K	μ F
JQ		CEJQ	F

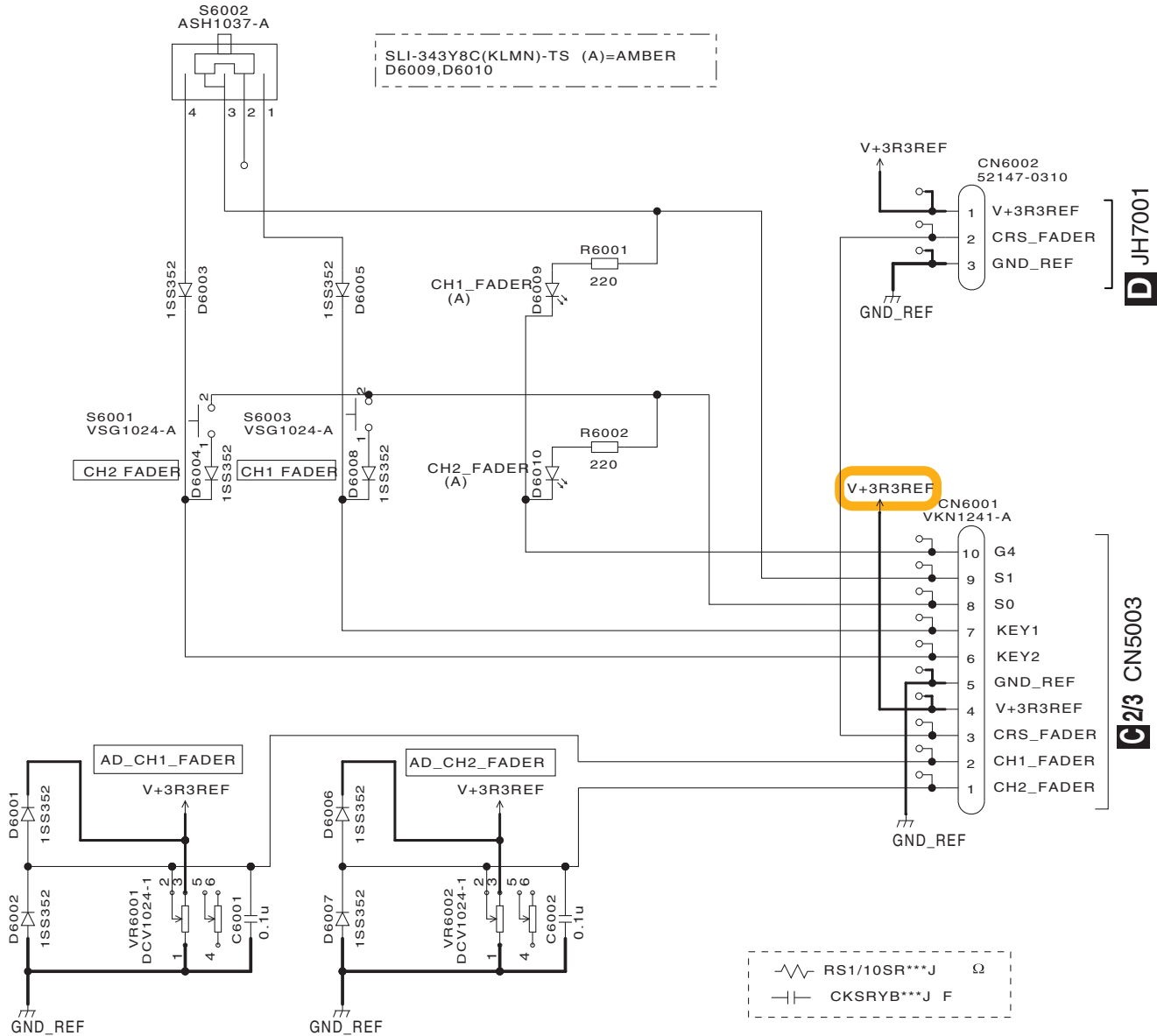
D

CRFD ASSY (DWX3119)



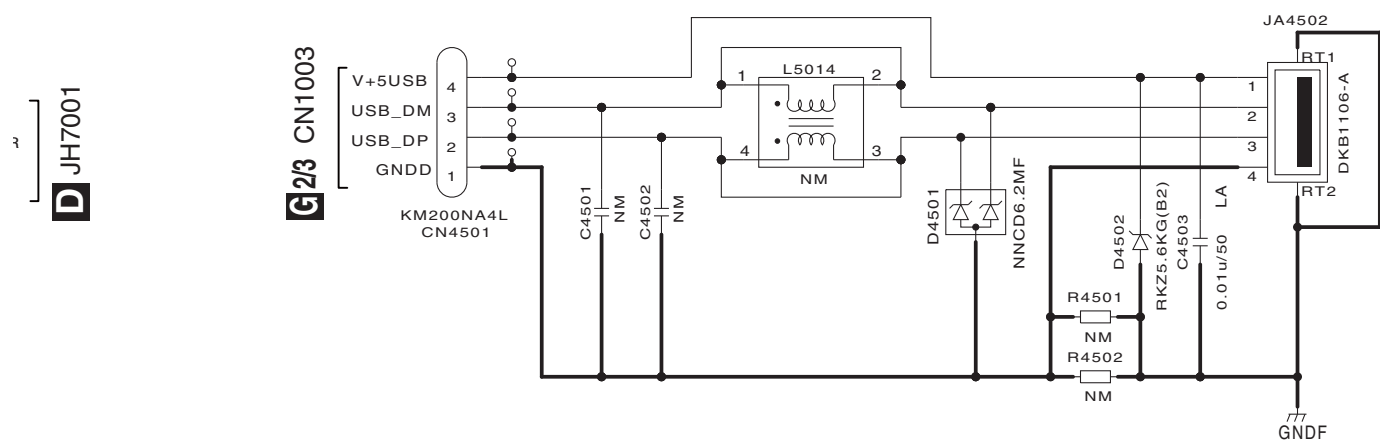
10.10 FADR and USJK ASSYS

FADR ASSY (DWX3118)



Following mechanical parts are included in PANL ASSY(DWM2383-).

DNF1852-A (FADER STAY) 1pcs
PMH20P040FTC (SCREW) 4pcs

F USJK ASSY (DWX3115)

NOTES NM is STBY

 RS1/10SR***J Ω

CH —|— CCSRCH***J F

LA -||- CFTLA***J F

G-a 1/3



PD7/D23/IRQ7/SCS1/TCLKD/TIOC2B
PD6/D22/IRQ6/SSO1/TCLKG/TIOC2A
VC-C12
PD5/D21/IRQ5/SSI1/TCLKB/TIOC1B

IC1002

R5S72630P200FP

CLK MODE		
CLK1	CLK0	CLK MODE
0	0	10 ~ 16.67MHz
0	1	20 ~ 33.33MHz
1	0	40 ~ 66.66MHz
1	1	48MHz

bit MODE

MD	BUS
0	16bit
1	32bit

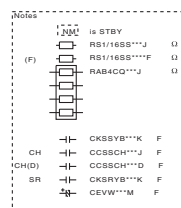
→

PB11
PB10
PB9/CTX
PB8/CB

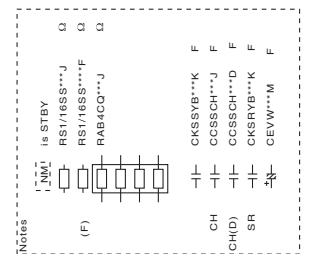
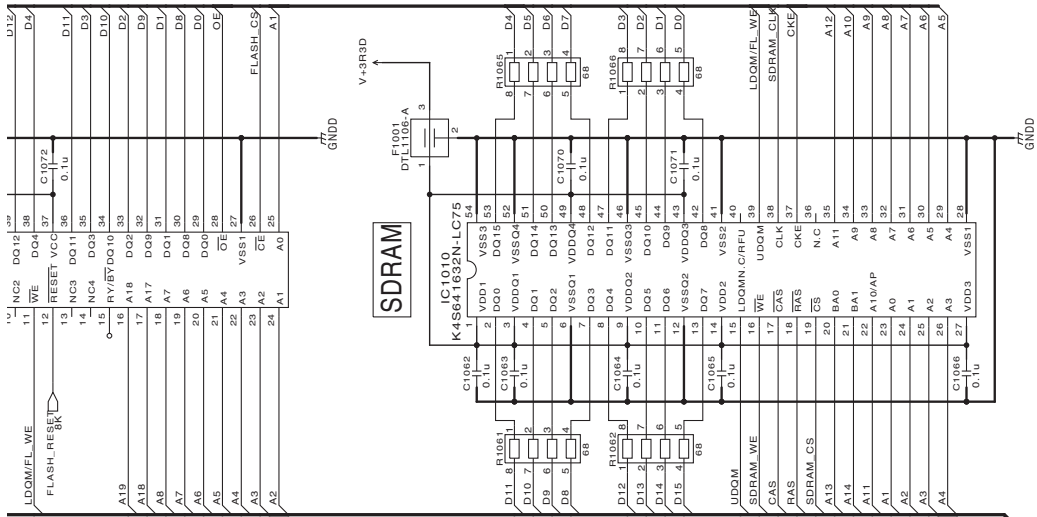
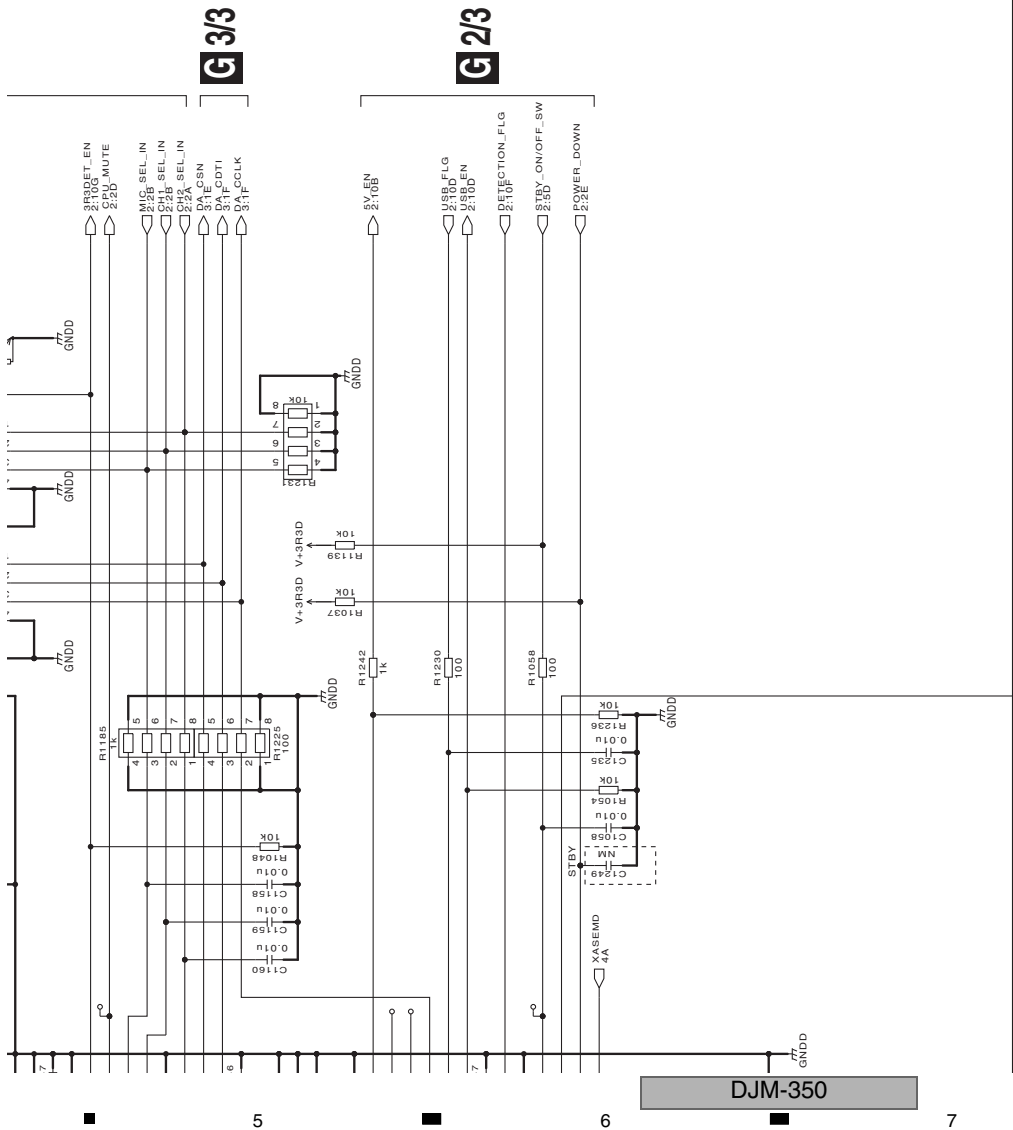
The  mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.

⚠ 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。

A



(CH1D) ➡ : CH1 Data Signal (L CH)
(CH2D) ➡ : CH2 Data Signal (L CH)
(MICD) ➡ : MIC Data Signal (L CH)

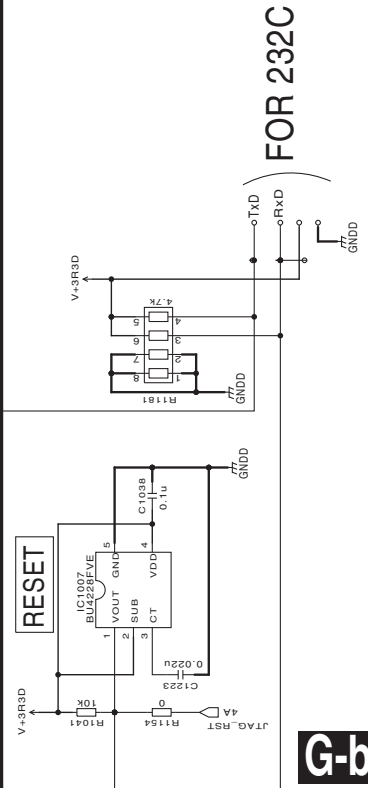


Audio Signal Route

(CH1D) : CH1 Data Signal (L CH)

(CH2D) : CH2 Data Signal (L CH)

(MICD) : MIC Data Signal (L CH)



FOR 232C

A

B

C

D

E

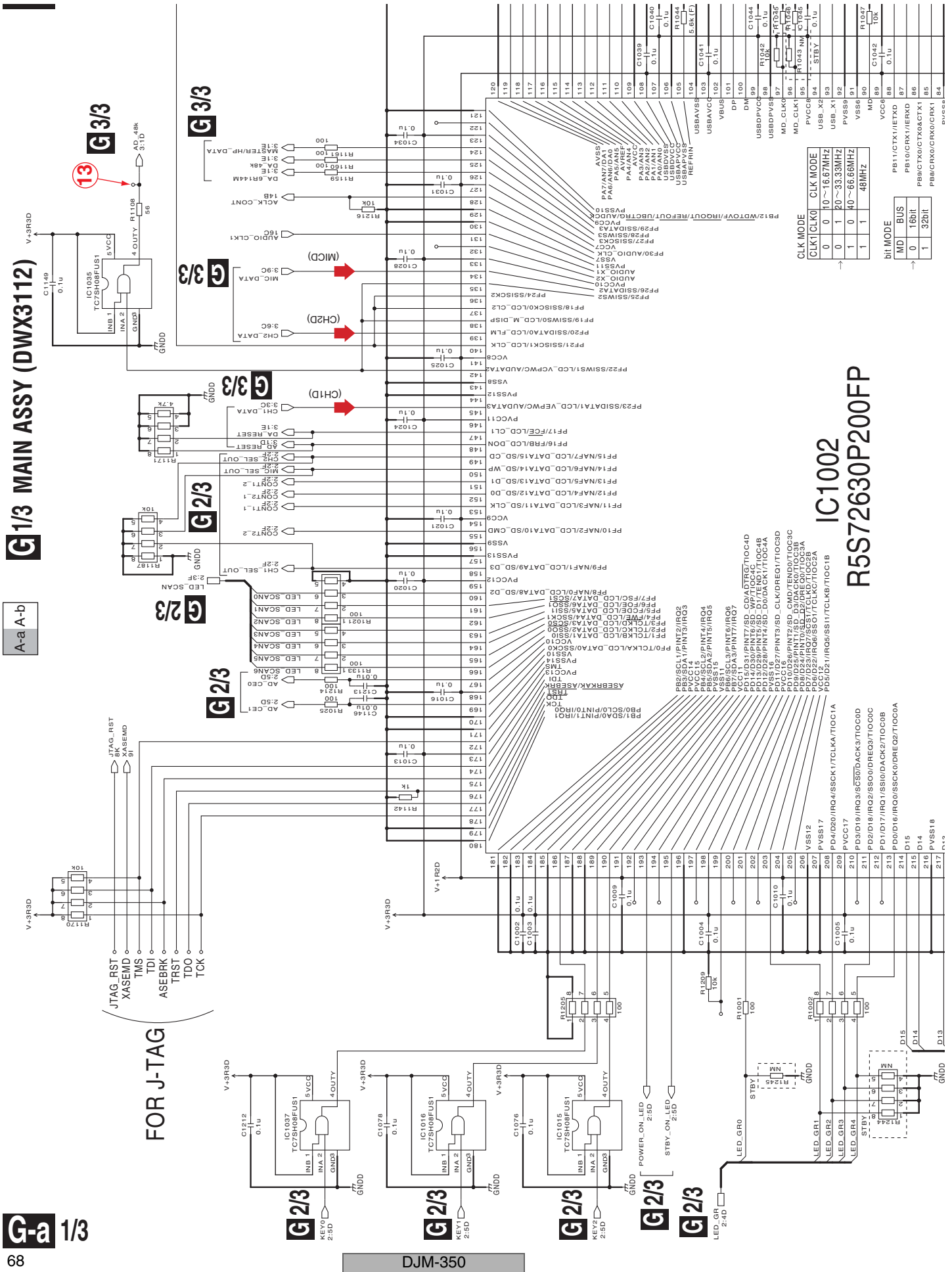
F

G^{1/3} MAIN ASSY (DWX3112)

A-a A-b

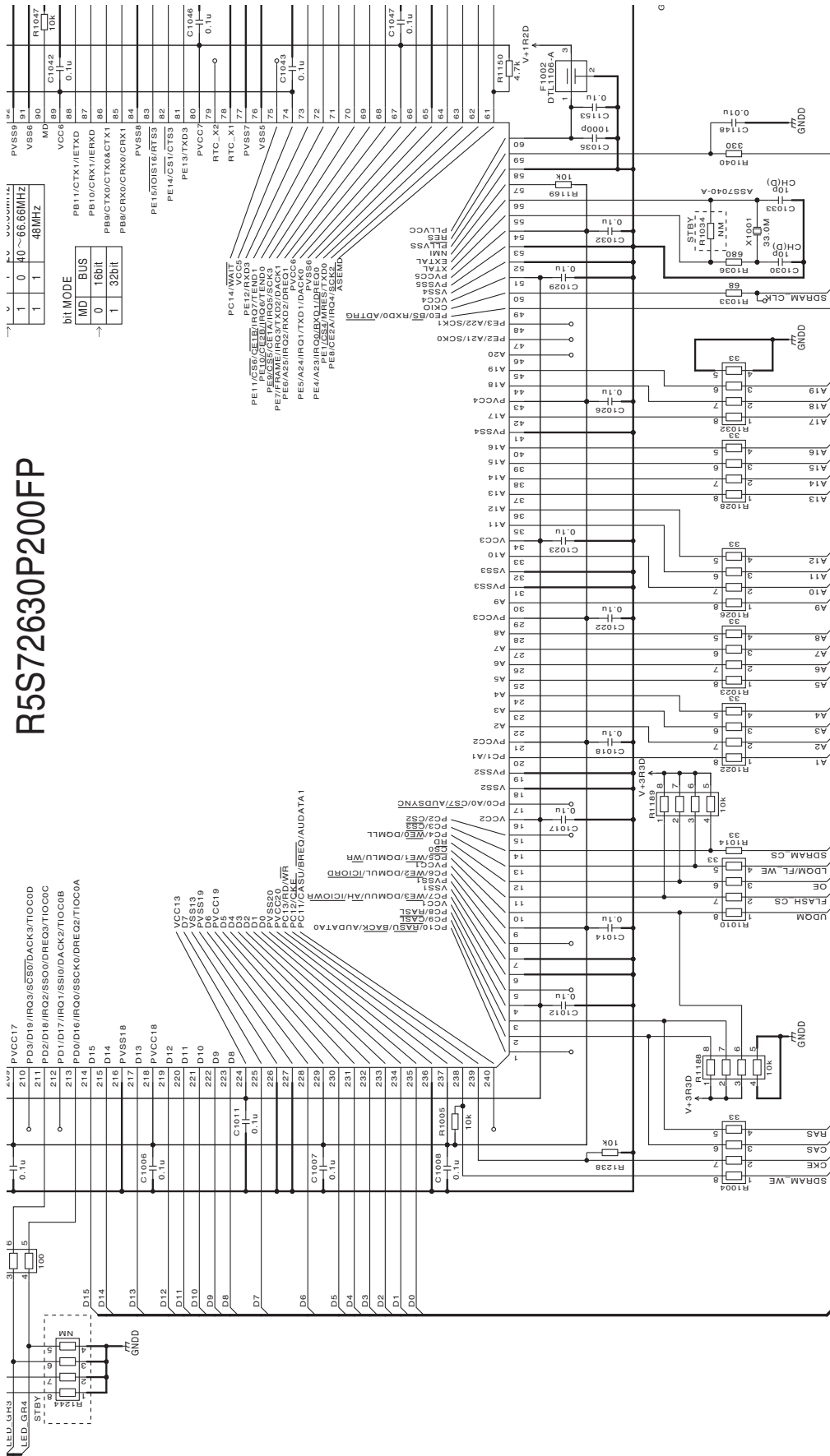
G-a 1/3

68



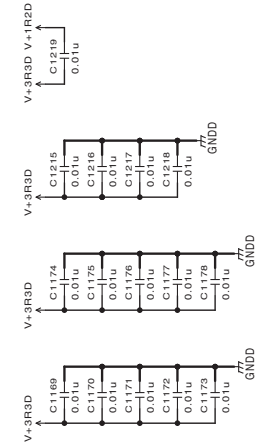
DJM-350

R5S72630P200FP



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

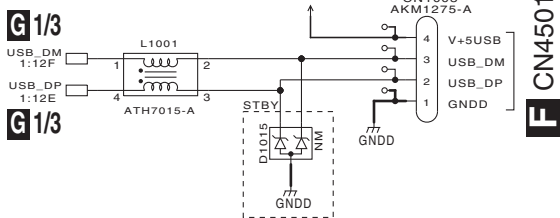
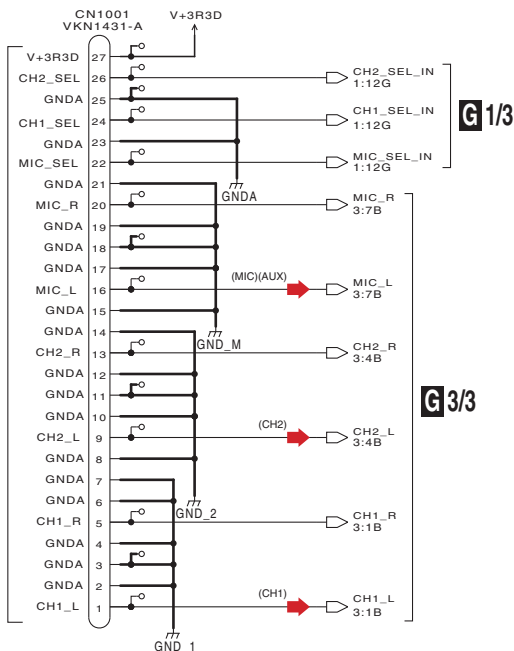
$\triangle$ 印の部品は、安全上重要な部品です。交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。



10.12 MAIN ASSY (2/3)

CONNECTOR

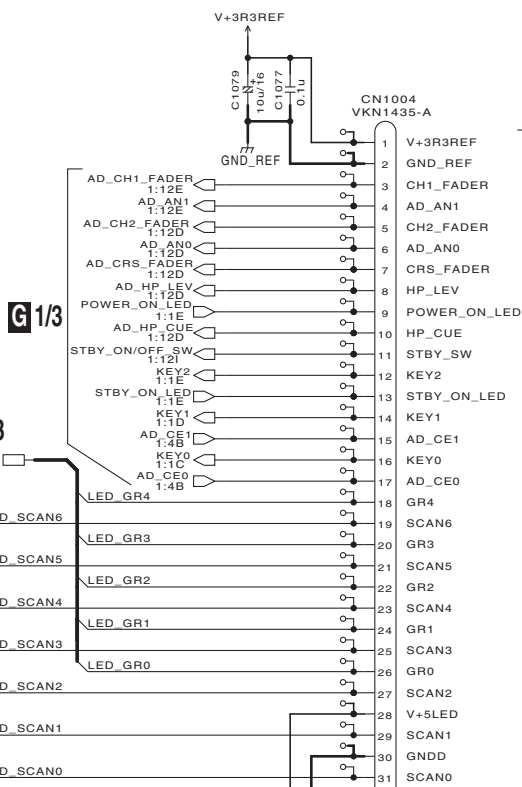
C1/3 CN5002



POW

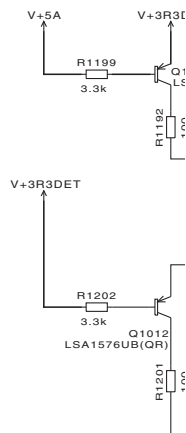
A1/5 CN3004

V+
GND
V+5D_UNF
V+5D_UNF
GND
GND

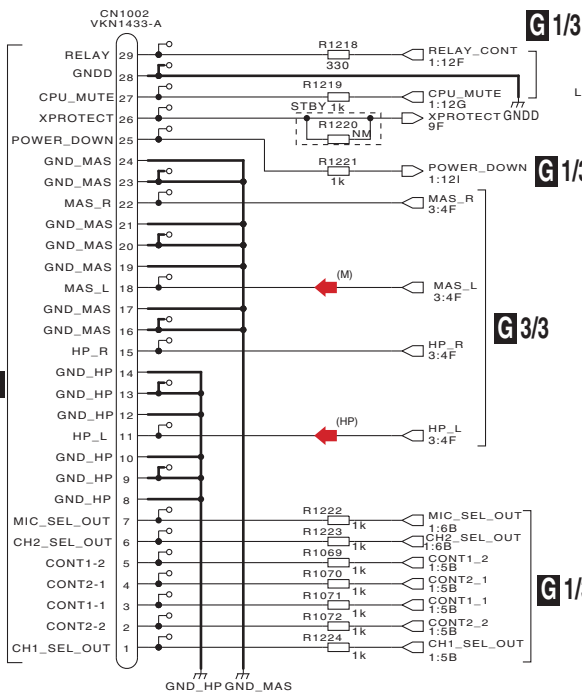


C2/3 CN5004

PRO



A5/5 CN3007



Audio Signal Route

- (CH1) : CH1 Signal (L CH)
- (CH2) : CH2 Signal (L CH)
- (MIC)(AUX) : MIC or AUX Input Signal (L CH)
- (HP) : HEADPHONE Signal (L CH)
- (M) : MASTER Signal (L CH)

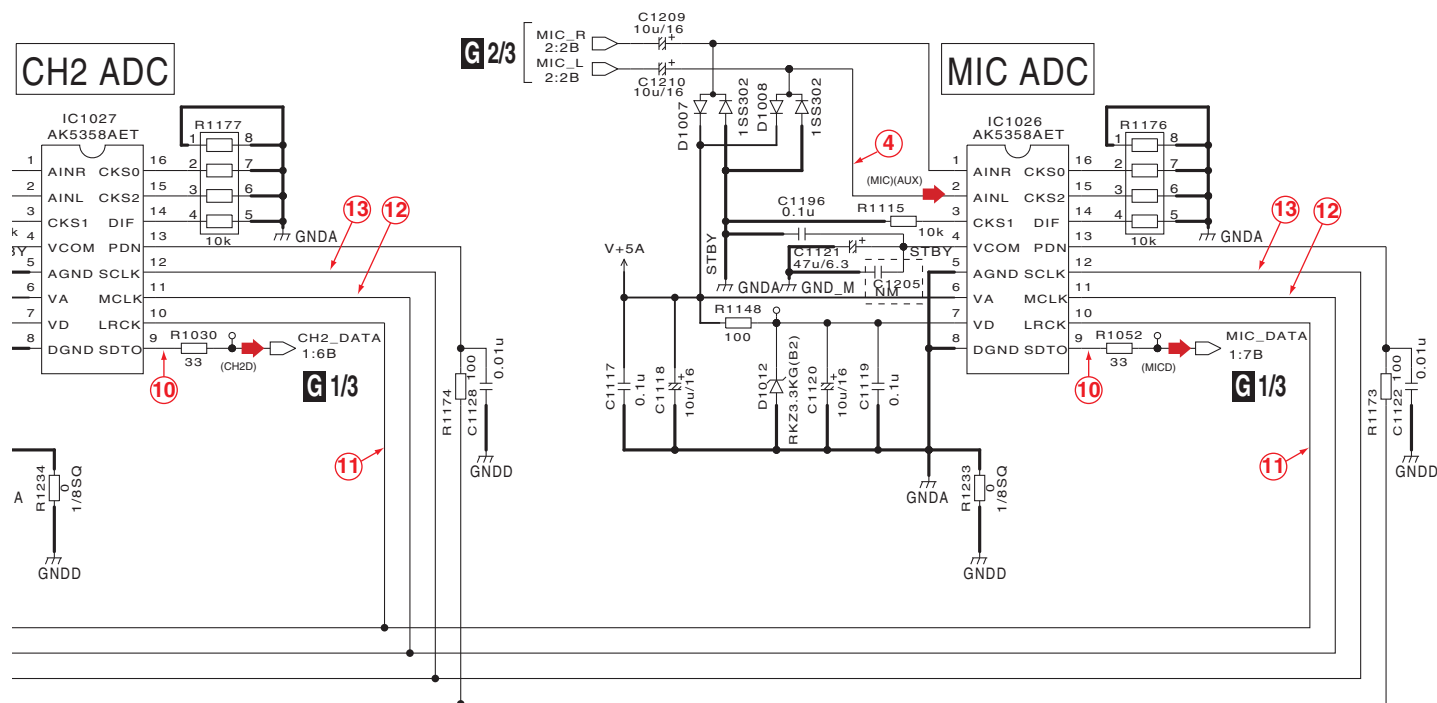
A

E

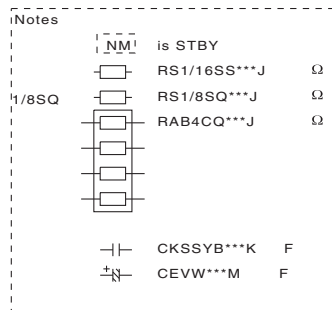
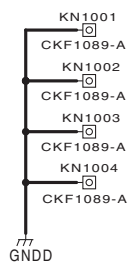
4

F

G3/3 MAIN ASSY (DWX3112)



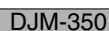
PPING TERMINAL

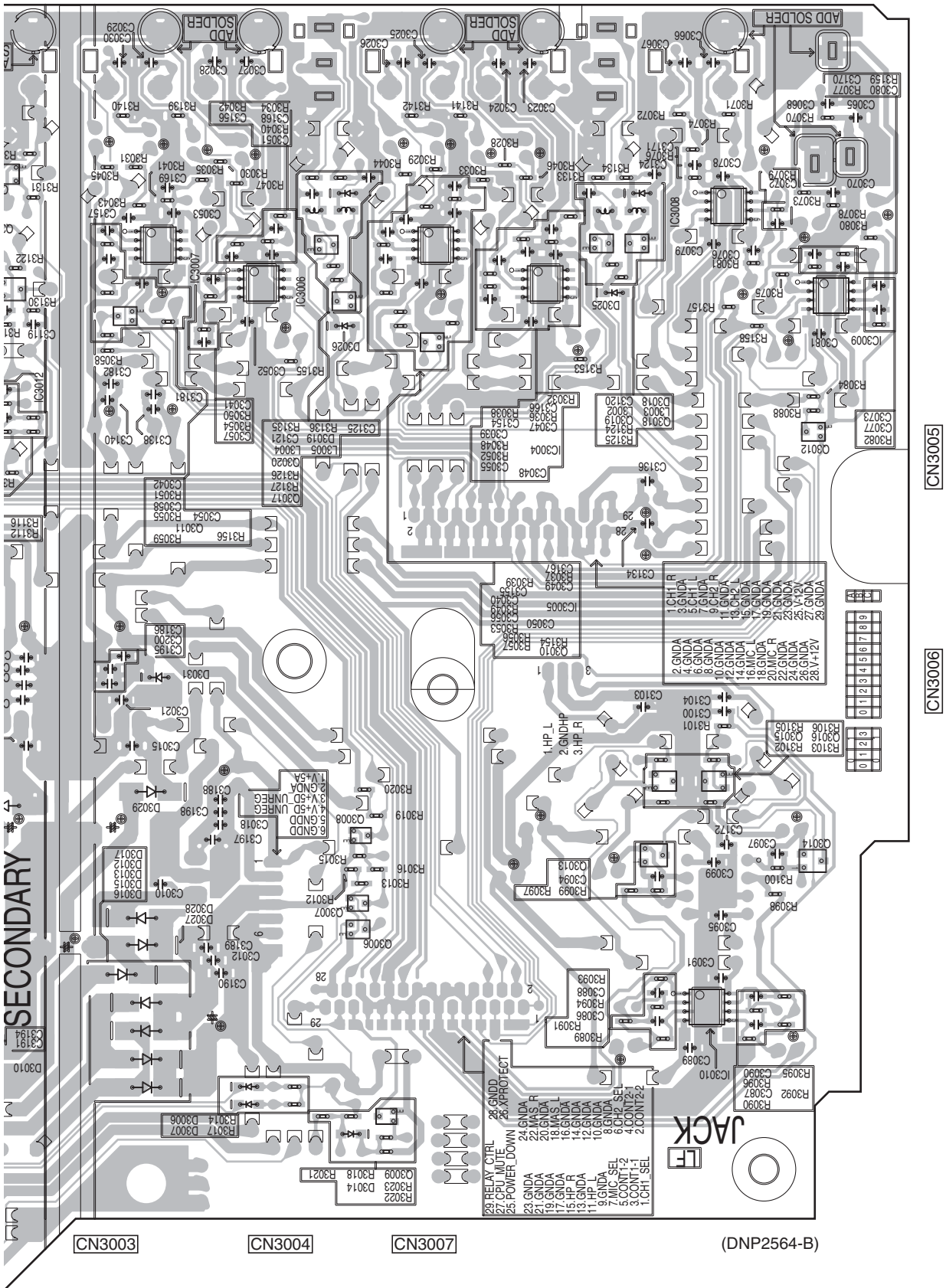


Audio Signal Route

- (CH1) : CH1 Signal (L CH)
- (CH2) : CH2 Signal (L CH)
- (MIC)(AUX) : MIC or AUX Input Signal (L CH)
- (CH1D) : CH1 Data Signal (L CH)
- (CH2D) : CH2 Data Signal (L CH)
- (MICD) : MIC Data Signal (L CH)
- (HP) : HEADPHONE Signal (L CH)
- (M) : MASTER Signal (L CH)

11.1 JACK ASSY

A JACK ASSY



(DNP2564-B)

11.2 HPJK and VRSW ASSYS

SIDE A

A

B

C

D

E

F

B C

1

2

3

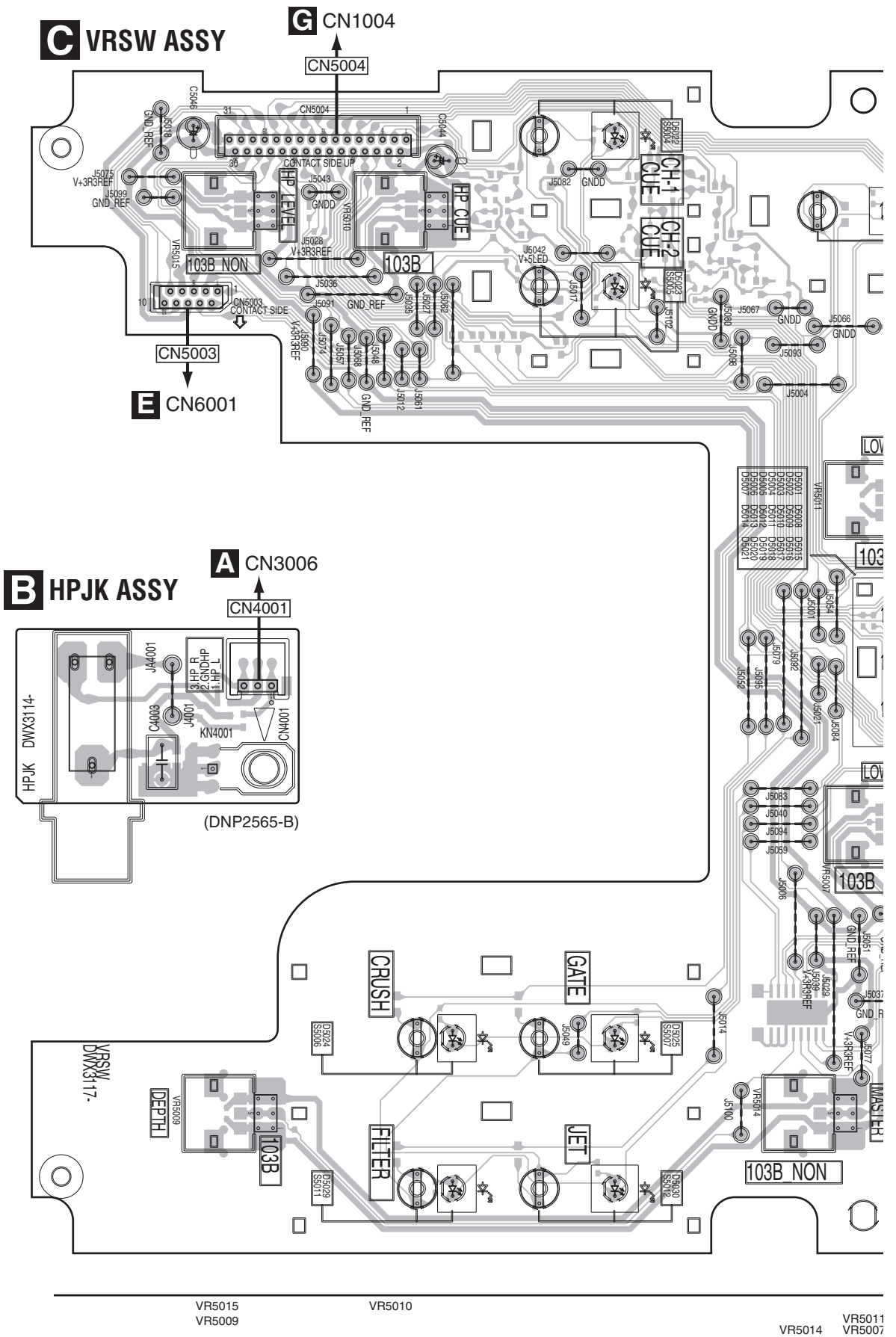
4

1

2

3

4



SIDE A

A

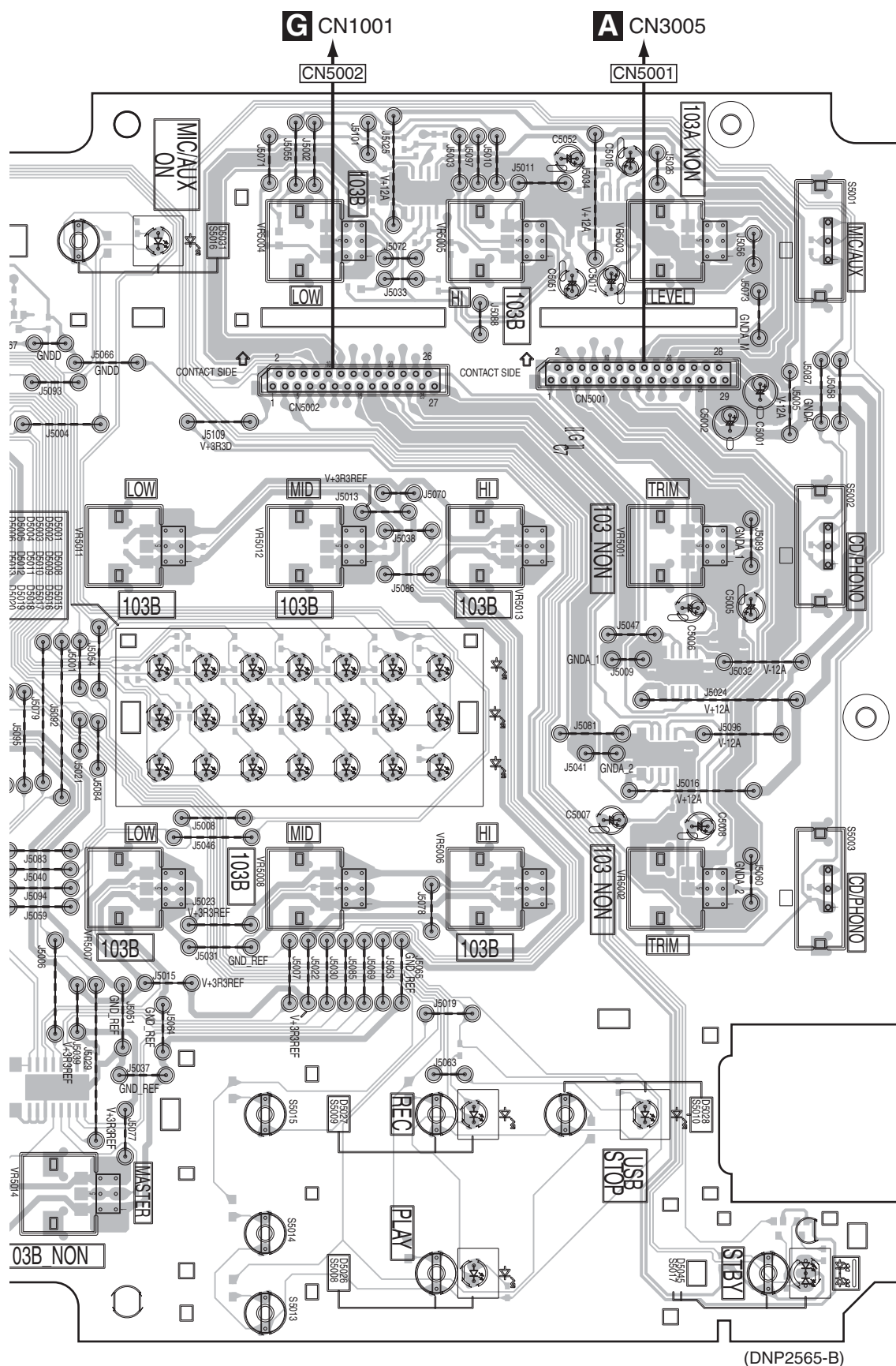
B

C

D

F

F



VR5014	VR5011
	VR5007

VR5004
VR5012
VR5008

VR5005
VR5013
VR5006

VR5003
VR5001
VR5002

DJM-350

SIDE B

F



(DNP2565-B)

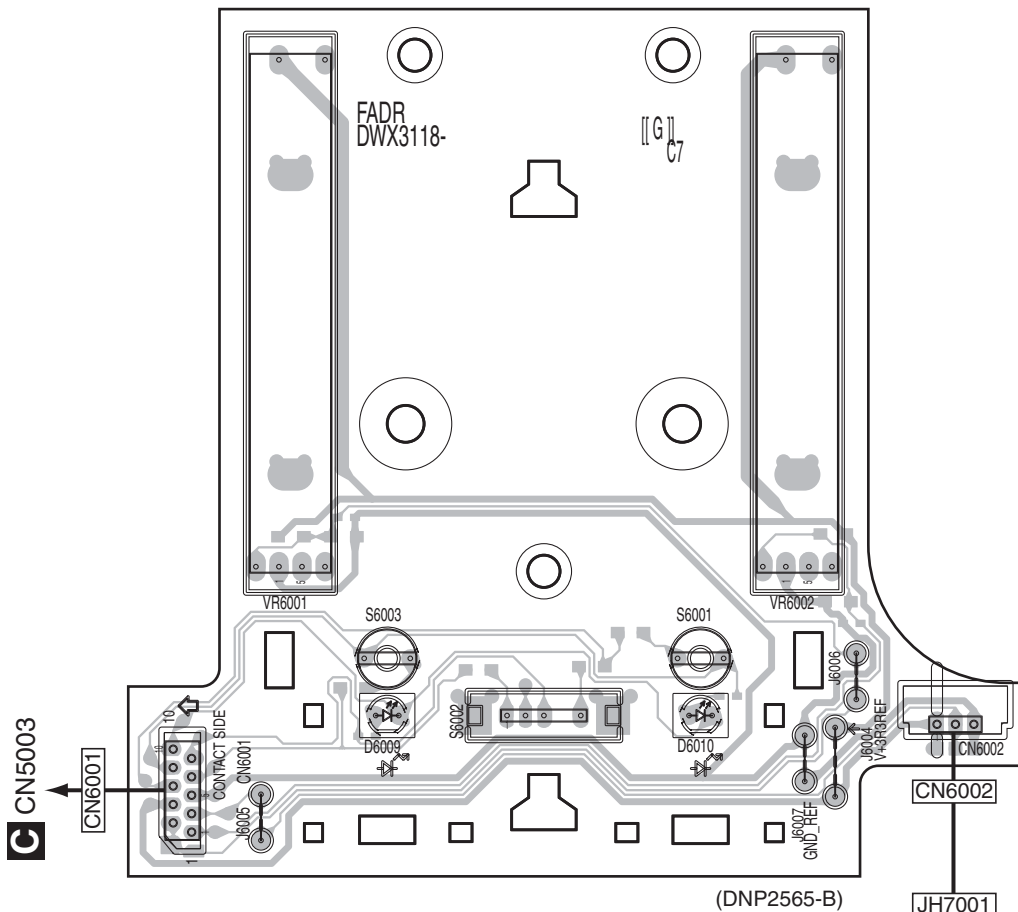
		Q5005	Q5004		Q5002	Q5001
IC5005	Q5006		Q5003		Q5014	Q5013
	Q5007		Q5016	Q5015	Q5009	Q5011
	Q5019	Q5018	Q5017		Q5008	Q5010 Q5012

11.3 CRFD, FADR and USJK ASSYS

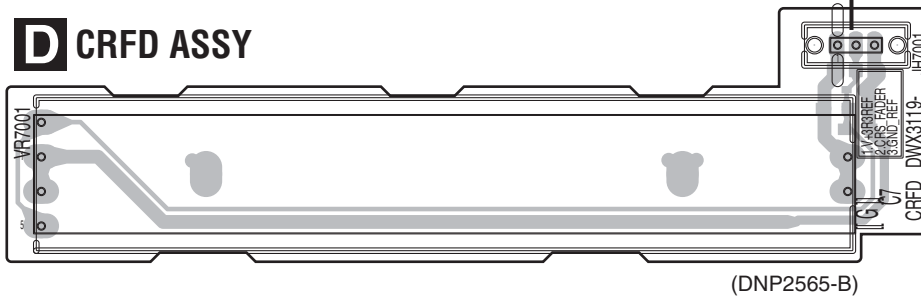
SIDE A

SIDE A

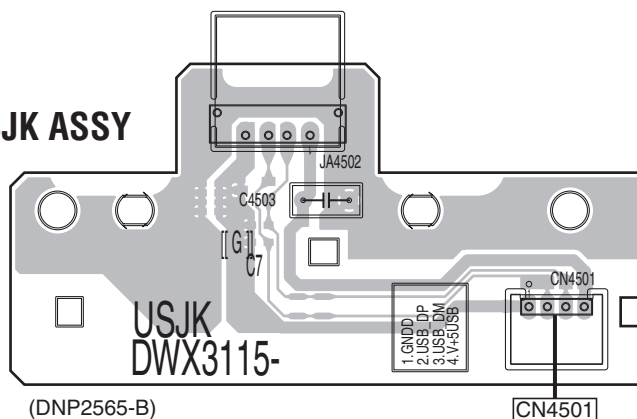
FADR ASSY



CRFD ASSY



USJK ASSY

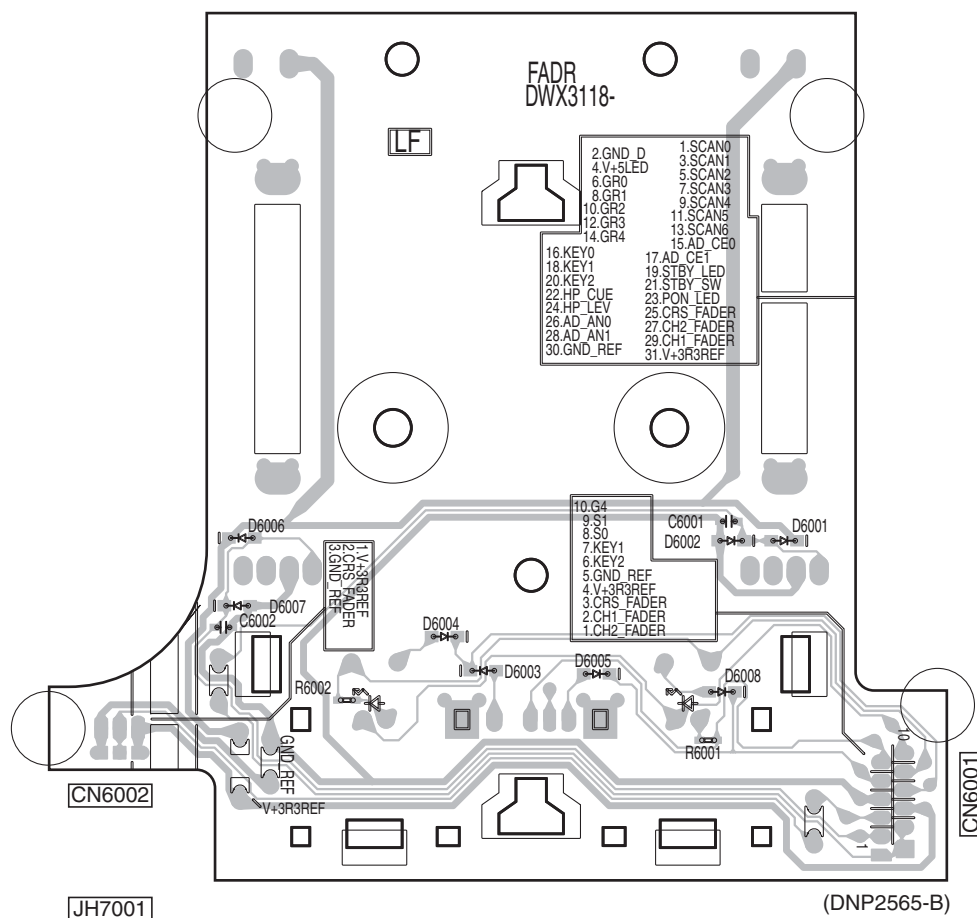
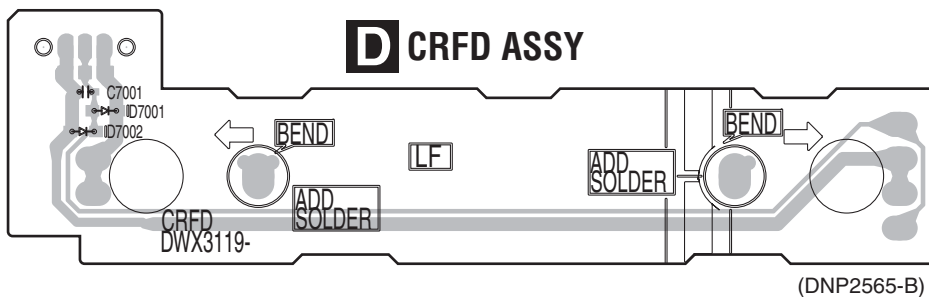
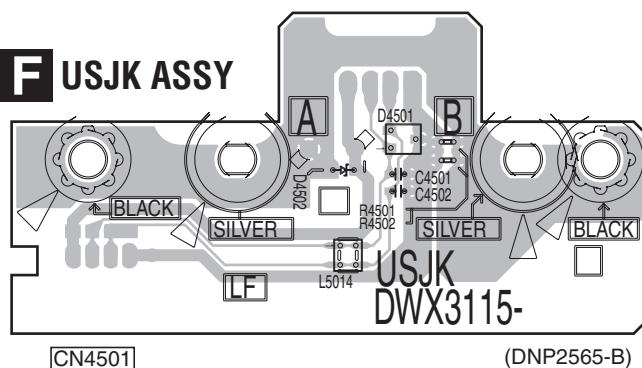


CN1003

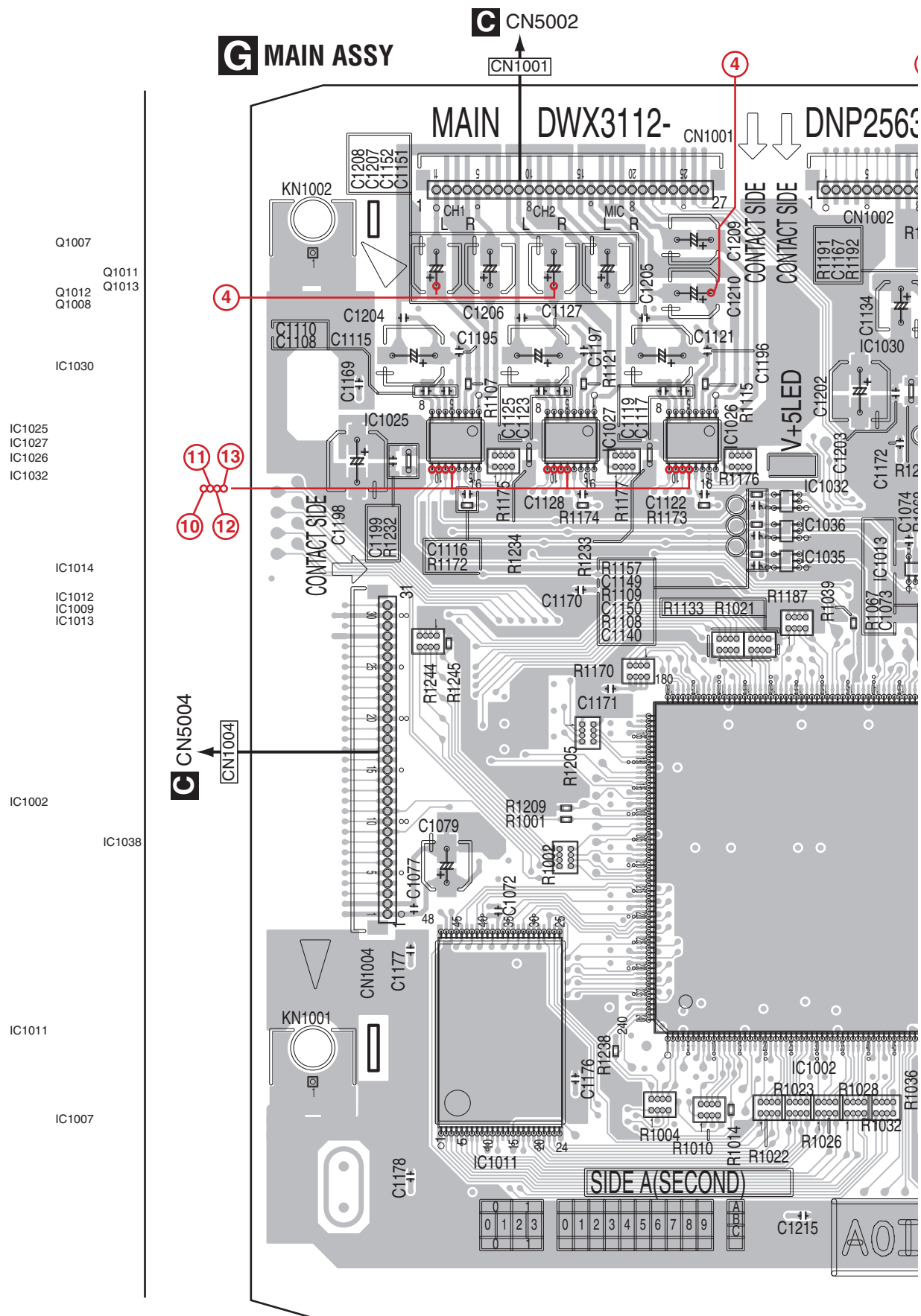
DEF

SIDE B

SIDE B

E FADR ASSY**D** CRFD ASSY**F** USJK ASSY**D E F**

SIDE A

G MAIN ASSY

NOTE: The encircled numbers denote measuring point.

SIDE A

A

E

9

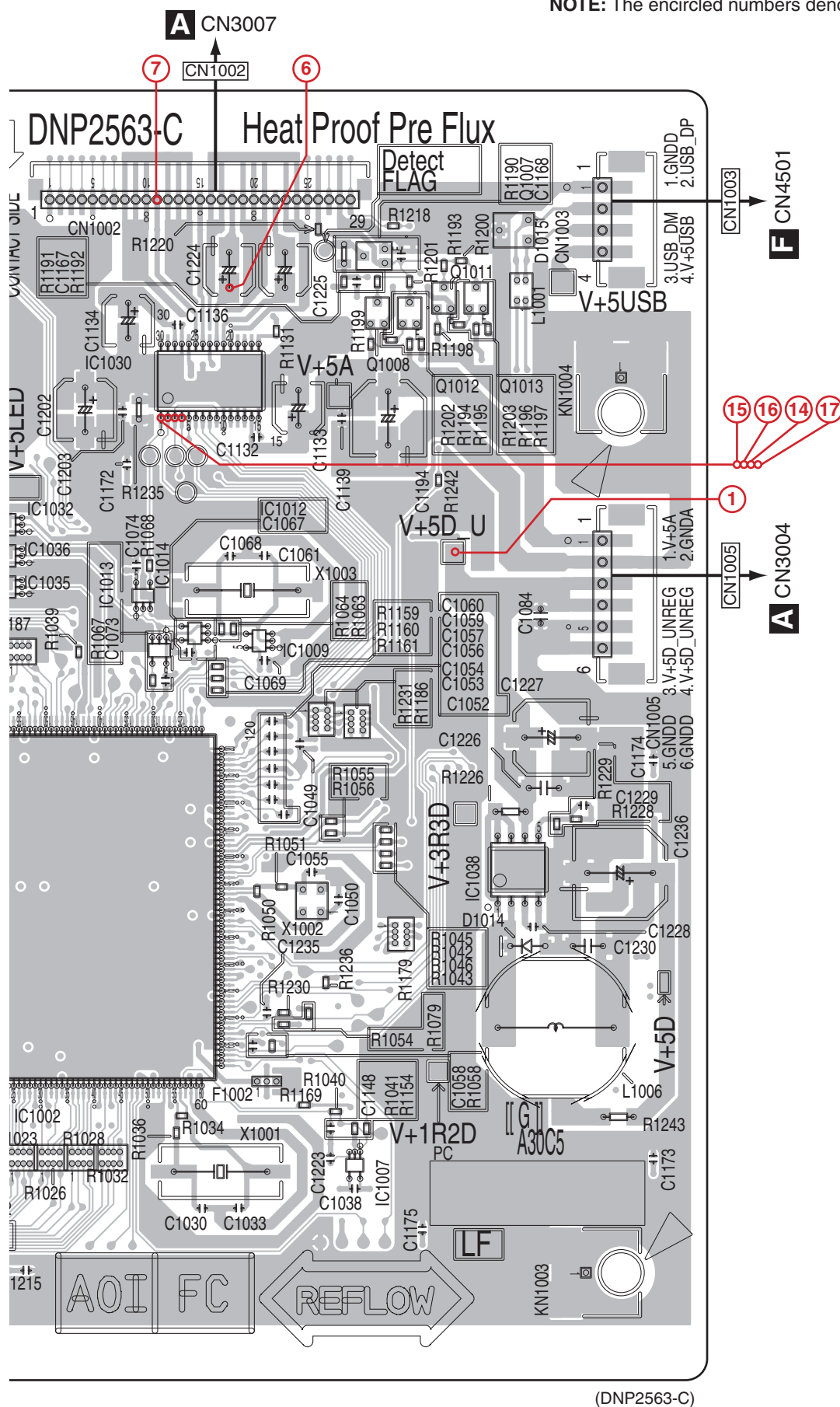
[

E

F

G

85



SIDE B

A

B

C

D

E

F

G MAIN ASSY

CN1002

MAIN DWY

CN1003

CN1005

Q1015
Q1014

Q1014

Q1009
Q1010

Q1010

IC1019

IC1018

IC1037

IC1016

IC1015

IC1034

IC1010

IC1039

IC1041

IC1040

IC1020

G

SIDE B

A

B

C

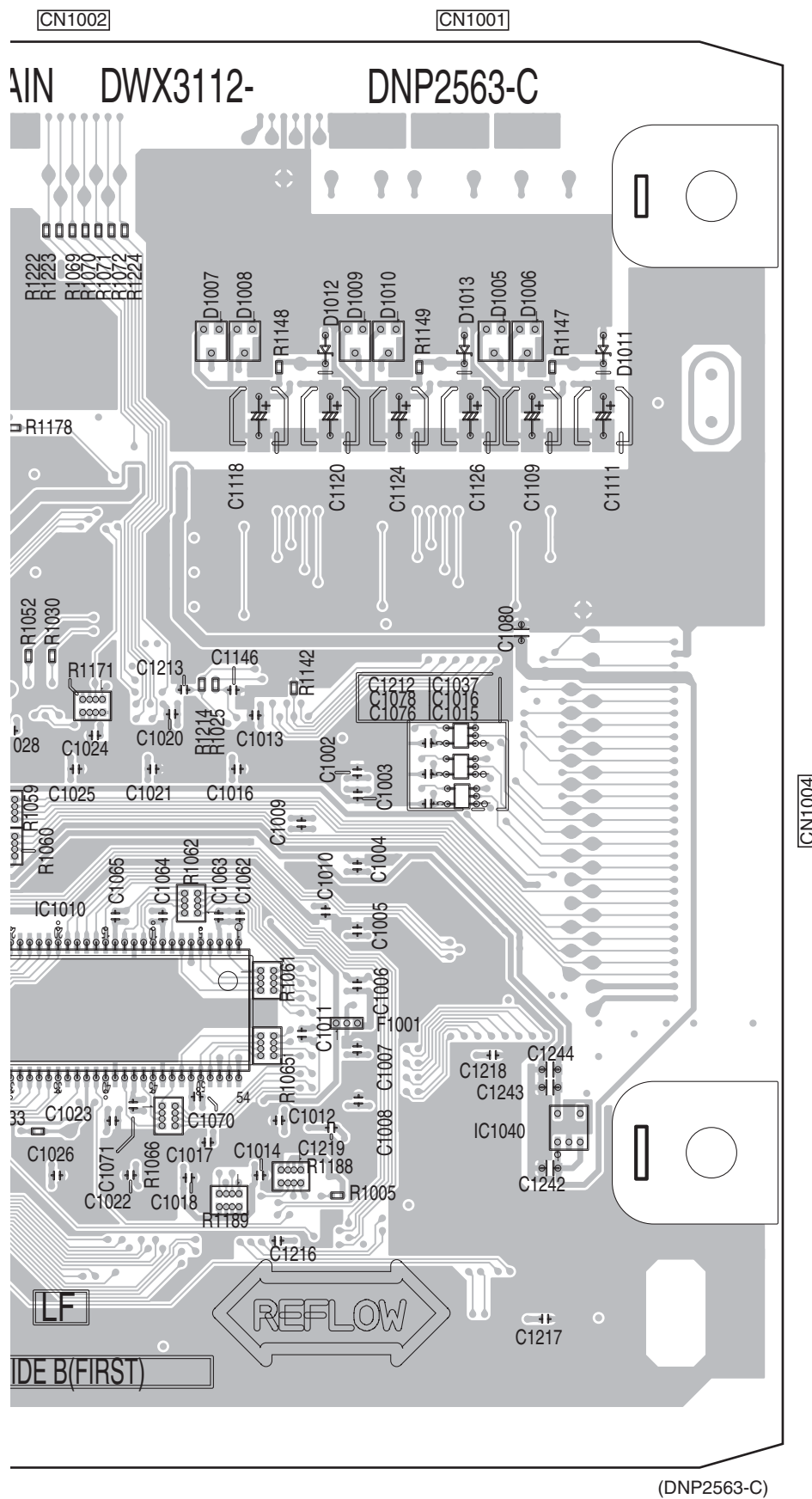
D

F

F

G

87



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 × 10¹ → 561.....RD1/4PU 5 6 1 J
- 47 kΩ → 47 × 10³ → 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 × 10¹ → 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

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
LIST OF ASSEMBLIES							
	1..MAIN ASSY		DWX3112		1..PANL ASSY		DWM2383
	1..JACK ASSY (SYXJ8, KXJ5, AXJ5)		DWX3136	NSP	2..HPJK ASSY		DWX3114
	1..JACK ASSY (CUXJ)		DWX3135		2..USJK ASSY		DWX3115
	1..JACK ASSY (LXJ)		DWX3116		2..VRSW ASSY		DWX3117
					2..FADR ASSY		DWX3118
					2..CRFD ASSY		DWX3119

CONTRAST OF PCB ASSEMBLIES

A JACK ASSY

DWX3136, DWX3135 and DWX3116 are constructed the same except for the following:

Mark	Symbol and Description	DWX3136	DWX3135	DWX3116
⚠	CN3002 Connector	B2P3-VH	B2P3-VH	Not used
⚠	CN3001 Connector (VH)	Not used	Not used	B3P5-VH
⚠	JA3001 AC Inlet	DKP3860	DKP3861	DKP3860
⚠	T3001 Transformer	DTT1245	DTT1244	DTT1242
⚠	S3002 Voltage Selector	Not used	Not used	AKX7020

PCB PARTS LIST FOR DJM-350/SYXJ8 UNLESS OTHER WISE NOTED

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
A JACK ASSY							
SEMICONDUCTORS							
	IC 1002		R5S72630P200FP		Q 1008,1011-1013		LSA1576UB
	IC 1007		BU4228FVE		Q 1010,1014		RT1P141M
	IC 1009		TC7SU04FU	⚠	D 1002		RSX201L-30
	IC 1010		K4S641632N-LC75		D 1005-1010		1SS302
	IC 1011		DYW1794		D 1011-1013		RKZ3.3KG(B2)
				⚠	D 1014		EP05Q06
MISCELLANEOUS							
⚠	IC 1012-1016,1032		TC7SH08FUS1	L	1001 COIL		ATH7015
	IC 1018		BD9326EFJ	L	1003,1004 INDUCTOR		BTH1112
	IC 1019		R5523N001B	L	1006 INDUCTOR(470UH)		DTL1123
⚠	IC 1020		BD9106FVM	F	1001,1002 EMI FILTER		DTL1106
	IC 1025-1027		AK5358AET	KN	1001-1004 WRAPPING TERMINAL		CKF1089
	IC 1030		AK4359AEF	X	1001 X'TAL 33M		ASS7040
	IC 1035-1037		TC7SH08FUS1	X	1002 CRYSTAL		ASS7099
⚠	IC 1038		NJM2393M	X	1003 CRYSTAL RESONATOR		ASS7025
⚠	IC 1039,1040		BH33FB1WG	CN	1001 27P CONNECTOR		VKN1431
	IC 1041		BU4238G	CN	1002 29P CONNECTOR		VKN1433
	Q 1007,1009,1015		RT1N141M-11	CN	1003 CONNECTOR		AKM1275

5			6			7			8														
Mark	No.	Description	Part No.	Mark	No.	Description	Part No.	Mark	No.	Description	Part No.												
	CN 1004	31P CONNECTOR	VKN1435	C	1213,1215-1219,1235		CKSSYB103K16																
	CN 1005	CONNECTOR	AKM1277	C	1223		CKSSYB223K16																
RESISTORS				C	1227		CEVW470M25			A													
R	1002,1021,1059,1060		RAB4CQ101J	C	1228		CCSSCH560J50																
R	1004,1010,1022,1023		RAB4CQ330J	C	1229		CCSSCH221J50																
R	1026,1028,1032		RAB4CQ330J	C	1230		CKSYB106K10																
R	1044		RS1/16SS5601F	C	1236		CEVW221M10																
R	1049,1053		RAB4CQ104J	C	1246		CKSSYB473K10																
R	1061,1062,1065,1066		RAB4CQ680J	B HPJK ASSY																			
R	1077		RS1/16SS4702F																				
R	1078		RS1/16SS1002F																				
R	1083		RS1/16SS1002D																				
R	1084		RS1/16SS2002D																				
R	1133,1205,1225		RAB4CQ101J	MISCELLANEOUS																			
R	1170,1175-1177		RAB4CQ103J									L	4001,4002 INDUCTOR	CTF1382	B								
R	1171,1179,1181		RAB4CQ472J									JA	4001 HEADPHONE JACK	DKN1622									
R	1185		RAB4CQ102J									KN	4001 WRAPPING TERMINAL	VNF1084									
R	1186		RAB4CQ562J									CN	4001 L-PLUG (3P)	KM200NA3L									
R	1187-1189,1231		RAB4CQ103J	RESISTORS																			
R	1190,1232-1235		RS1/8SQ0R0J									All Resistors	RS1/10SR###J										
R	1226		RS1/4SAR82J																				
R	1228		RS1/16SS3302D																				
R	1229		RS1/16SS1102D																				
R	1243		RS1/4SA0R0J	CAPACITORS																			
Other Resistors			RS1/16SS###J									C	4001,4002	CKSRYB104K16									
												C	4003	CFTLA104J50									
CAPACITORS				C VRSW ASSY																			
C	1002-1014,1016-1018		CKSSYB104K10									SEMICONDUCTORS											
C	1020-1026,1028,1029		CKSSYB104K10																	IC	5001-5004	NJM4565MD	
C	1030,1033,1055		CCSSCH100D50																	IC	5005	TC74HC4052AF	
C	1031,1032,1034		CKSSYB104K10																	Q	5001-5007	RT1N241M	
C	1035		CKSSYB102K50	Q	5008-5012	DTC143EUA																	
C	1038-1047,1049		CKSSYB104K10	Q	5013-5019	LSA1576UB																	
C	1050		CCSSCH8R0D50	Q	5021,5028	RT1P141M																	
C	1052-1054,1056,1057		CCSSCH471J50	D	5001,5008,5015,5027	SLI-343U8RC(HJKL)																	
C	1058,1116,1122,1128		CKSSYB103K16	D	5002,5003,5009,5010	SLI-343Y8C(KLMN)				D													
C	1059,1060		CCSSCH471J50	D	5016,5017,5022,5023	SLI-343Y8C(KLMN)																	
C	1061,1068		CCSSCH180J50	D	5024-5026	SLI-343M8C(FGHJ)																	
C	1062-1067,1069-1074		CKSSYB104K10	D	5028	SLI-343U8RC(HJKL)																	
C	1076-1078,1090,1092		CKSSYB104K10	D	5029-5031	SLI-343M8C(FGHJ)																	
C	1079,1109,1111,1118		CEVW100M16	D	5004-5007,5011-5014,5018-5021	TLGE68TG(NP)																	
C	1080,1239-1244		CKSRYB105K10	D	5032-5044	1SS352																	
C	1082,1226		CCG1221	D	5045	SPR-39MVWF(MN)																	
C	1084,1154		CKSRYB104K25	MISCELLANEOUS																			
C	1086,1155,1161,1165		CKSYB106K10									VR	5001,5002 POTENTIOMETER	DCS1107									
C	1091,1194,1237		CEVW101M16									VR	5003 POTENTIOMETER	DCS1110									
C	1093		CCSRCH561J50									VR	5004-5013 POTENTIOMETER	DCS1108	E								
												VR	5014,5015 POTENTIOMETER	DCS1109									
C	1108,1110,1117,1119		CKSSYB104K10	S	5001-5003 SLIDE SWITCH	DSH1066																	
C	1115,1121,1127,1137		CEVW470M6R3	S	5004-5016 TACT SWITCH	DSG1079																	
C	1120,1124,1126,1133		CEVW100M16	S	5017 SWITCH	VSG1024																	
C	1123,1125,1132,1135		CKSSYB104K10	CN	5001 29P CONNECTOR	VKN1260																	
C	1129,1146,1148		CKSSYB103K16	CN	5002 27P CONNECTOR	VKN1258																	
C	1134,1151,1152		CEVW100M16	CN	5003 10P CONNECTOR	VKN1241																	
C	1136,1139-1142,1149		CKSSYB104K10	CN	5004 31P CONNECTOR	VKN1291																	
C	1143		CKSSYB272K50	RESISTORS																			
C	1150,1153,1162		CKSSYB104K10									R	5005,5006,5011,5012	RN1/16SE2201D									
C	1158-1160,1169-1178		CKSSYB103K16									Other Resistors	RS1/10SR###J										
C	1166-1168,1195-1197		CKSSYB104K10																				
C	1207-1210,1224,1225		CEVW100M16																				
C	1212,1233,1234,1245		CKSSYB104K10								F												

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

C 5001,5002,5044,5046
C 5003,5004,5009-5012
C 5005-5008,5017,5018
C 5019,5020,5023,5024
C 5021,5022

CEJQ470M16
CKSRYB104K16
CEJQ100M16
CKSRYB104K16
CKSRYB332K50

C 5025,5028
C 5026,5027
C 5029,5035,5048-5050
C 5030-5034,5036-5040
C 5042,5043,5045,5047

CSCRCH220J50
CKSQYB334K50
CKSRYB103K50
CKSRYB104K16
CKSRYB104K16

C 5051,5052

CEJQ100M16

D **CRFD ASSY**
SEMICONDUCTORS

D 7001,7002

1SS352

MISCELLANEOUS

J 7001 JUMPER WIRE
VR 7001 VARIABLE RESISTOR
JH 7001 3P CABLE HOLDER

D20PDY0305E
DCV1023
51048-0300

CAPACITORS

C 7001

CKSRYB104K16

E **FADR ASSY**
SEMICONDUCTORS

D 6001-6008
D 6009,6010

1SS352
SLI-343Y8C(KLMN)

MISCELLANEOUS

VR 6001,6002 VARIABLE RESISTOR
S 6001,6003 SWITCH
S 6002 SLIDE SWITCH
CN 6001 10P CONNECTOR
CN 6002 3P JUMPER CONNECTOR

DCV1024
VSG1024
ASH1037
VKN1241
52147-0310

RESISTORS

All Resistors

RS1/10SR###J

CAPACITORS

C 6001,6002

CKSRYB104K16

F **USJK ASSY**
SEMICONDUCTORS

D 4501
D 4502

NNCD6.2MF
RKZ5.6KG(B2)

MISCELLANEOUS

JA 4502 USB CONNECTOR
CN 4501 L-PLUG (4P)

DKB1106
KM200NA4L

CAPACITORS

C 4503

CFTLA103J50

Mark No. Description**Part No.**
G **MAIN ASSY**
SEMICONDUCTORS

IC 1002
IC 1007
IC 1009
IC 1010
IC 1011

R5S72630P200FP
BU4228FVE
TC7SU04FU
K4S641632N-LC75
DYW1794

IC 1012-1016,1032

TC7SH08FUS1

IC 1018

BD9326EFJ

IC 1019

R5523N001B

IC 1020

BD9106FVM

IC 1025-1027

AK5358AET

IC 1030

AK4359AEF

IC 1035-1037

TC7SH08FUS1

IC 1038

NJM2393M

IC 1039,1040

BH33FB1WG

IC 1041

BU4238G

Q 1007,1009,1015

RT1N141M-11

Q 1008,1011-1013

LSA1576UB

Q 1010,1014

RT1P141M

D 1002

RSX201L-30

D 1005-1010

1SS302

D 1011-1013

RKZ3.3KG(B2)

D 1014

EP05Q06

MISCELLANEOUS

L 1001 COIL

ATH7015

L 1003,1004 INDUCTOR

BTH1112

L 1006 INDUCTOR (470 uH)

DTL1123

F 1001,1002 EMI FILTER

DTL1106

KN 1001-1004 WRAPPING TERMINAL

CKF1089

X 1001 X'TAL (33.0 MHz)

ASS7040

X 1002 CRYSTAL (48 MHz)

ASS7099

X 1003 CRYSTAL RESONATOR (24.576 MHz)

ASS7025

CN 1001 27P CONNECTOR

VKN1431

CN 1002 29P CONNECTOR

VKN1433

CN 1003 CONNECTOR

AKM1275

CN 1004 31P CONNECTOR

VKN1435

CN 1005 CONNECTOR

AKM1277

RESISTORS

R 1002,1021,1059,1060

RAB4CQ101J

R 1004,1010,1022,1023

RAB4CQ330J

R 1026,1028,1032

RAB4CQ330J

R 1044

RS1/16SS5601F

R 1049,1053

RAB4CQ104J

R 1061,1062,1065,1066

RAB4CQ680J

R 1077

RS1/16SS4702F

R 1078

RS1/16SS1002F

R 1083

RS1/16SS1002D

R 1084

RS1/16SS2002D

R 1133,1205,1225

RAB4CQ101J

R 1170,1175-1177

RAB4CQ103J

R 1171,1179,1181

RAB4CQ472J

R 1185

RAB4CQ102J

R 1186

RAB4CQ562J

R 1187-1189,1231

RAB4CQ103J

R 1190,1232-1235

RS1/8SQ0R0J

R 1226

RS1/4SAR82J

R 1228

RS1/16SS3302D

R 1229

RS1/16SS1102D

Mark

No.

Description

Part No.

R 1243

Other Resistors

RS1/4SA0R0J

RS1/16SS###J

A

CAPACITORS

C 1002-1014,1016-1018

C 1020-1026,1028,1029

C 1030,1033,1055

C 1031,1032,1034

C 1035

CKSSYB104K10

CKSSYB104K10

CCSSCH100D50

CKSSYB104K10

CKSSYB102K50

C 1038-1047,1049

C 1050

C 1052-1054,1056,1057

C 1058,1116,1122,1128

C 1059,1060

CKSSYB104K10

CCSSCH8R0D50

CCSSCH471J50

CKSSYB103K16

CCSSCH471J50

B

C 1061,1068

C 1062-1067,1069-1074

C 1076-1078,1090,1092

C 1079,1109,1111,1118

C 1080,1239-1244

CCSSCH180J50

CKSSYB104K10

CKSSYB104K10

CEVW100M16

CKSRYB105K10

C 1082,1226

C 1084,1154

C 1086,1155,1161,1165

C 1091,1194,1237

C 1093

CCG1221

CKSRYB104K25

CKSYB106K10

CEVW101M16

CCSRCH561J50

C 1108,1110,1117,1119

C 1115,1121,1127,1137

C 1120,1124,1126,1133

C 1123,1125,1132,1135

C 1129,1146,1148

CKSSYB104K10

CEVW470M6R3

CEVW100M16

CKSSYB104K10

CKSSYB103K16

C 1134,1151,1152

C 1136,1139-1142,1149

C 1143

C 1150,1153,1162

C 1158-1160,1169-1178

CEVW100M16

CKSSYB104K10

CKSSYB272K50

CKSSYB104K10

CKSSYB103K16

C 1166-1168,1195-1197

C 1207-1210,1224,1225

C 1212,1233,1234,1245

C 1213,1215-1219,1235

C 1223

CKSSYB104K10

CEVW100M16

CKSSYB104K10

CKSSYB103K16

CKSSYB223K16

C 1227

C 1228

C 1229

C 1230

C 1236

CEVW470M25

CCSSCH560J50

CCSSCH221J50

CKSYB106K10

CEVW221M10

C 1246

CKSSYB473K10

E

F