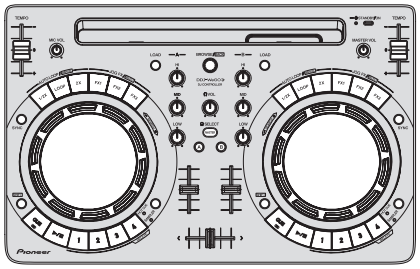
Pioneer

Service Manual



DDJ-WEGO3-K

ORDER NO.
RRV4567

DJ Controller

DDJ-WEGO3-K
DDJ-WEGO3-W
DDJ-WEGO3-R

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

Model	Type	Power Requirement	Remarks
DDJ-WEGO3-K	SYXJ5	AC 100 V to 240 V	
DDJ-WEGO3-K	UXJCB	AC 100 V to 240 V	
DDJ-WEGO3-K	AXJ5	AC 100 V to 240 V	
DDJ-WEGO3-W	SYXJ5	AC 100 V to 240 V	
DDJ-WEGO3-W	UXJCB	AC 100 V to 240 V	
DDJ-WEGO3-W	AXJ5	AC 100 V to 240 V	
DDJ-WEGO3-R	SYXJ5	AC 100 V to 240 V	
DDJ-WEGO3-R	UXJCB	AC 100 V to 240 V	

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PIONEER EUROPE NV Haven 1087, Keetberglaan 1, 9120 Melsele, Belgium
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K-MZV SEPT. 2014 Printed in Japan

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

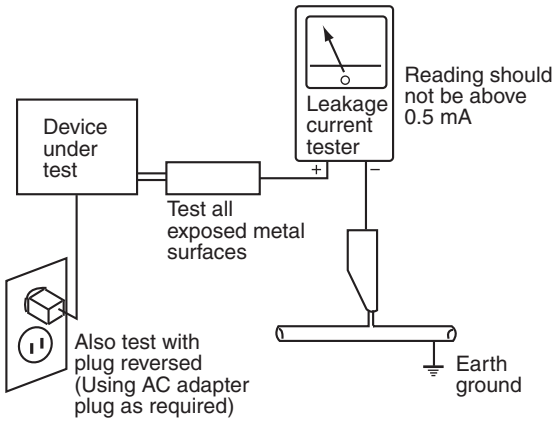
(FOR USA MODEL ONLY)

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.

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 NOTES ON REPLACING

The part listed below is difficult to replace as a discrete component part.
When the part listed in the table is defective, replace whole Assy.

Assy Name	Parts that is Diffcult to Replace			
	Ref No.	Function	Part No.	Remarks
MAIN Assy	IC201	12 V to 5 V DC-DC Converter for iOS Charge	BD9328EFJ	IC with heat-pad
	IC203	5 V to 1.25 V DC-DC Converter for UCOM	BD9328EFJ	IC with heat-pad
	IC205	12 V to 5 V DC-DC Converter	BD9328EFJ	IC with heat-pad
	IC206	High-side SW	TPS2557DRB	SON, IC with heat-pad
	IC401	USB multiplexer	TS3USB30RSW	QFN

1.3 SERVICE NOTICE

Detection of abnormal power-supply voltages

1. A circuit for detecting abnormal power-supply voltage from the AC adapter or USB-bus power is provided with this unit and will shut the unit off immediately after an error is detected and make all indicators unlit.
2. The microcomputer of this unit always monitors various power voltages and will shut the unit off immediately after an error is detected. In such a case, the STANDBY/ON indicator flashes in red and all other indicators are unlit.
   If the unit shuts itself off because of error detection, the circuitry may be heated because of power failure. Therefore, after completing diagnosis, disconnect the AC adapter and USB cable from the unit then turn the unit back on after a while.
   Repair the unit, following the descriptions shown in "5.3 DETECTION OF ABNORMAL POWER-SUPPLY VOLTAGES."

Limitations when this unit is operated on USB-bus power

There are limitations in operation of this unit while it is being operated on USB-bus power, as shown below.

- Lighting of the indicators becomes dim.
  (The intensity is reduced to 70% of that obtainable when the AC adapter is connected.)
- Charging of an iOS device becomes unavailable.

Operation when power-supply modes are switched

The unit operates as indicated below when the power-supply mode is changed from AC adapter to USB-bus power.

- If both the DC plug of the AC adapter and the USB cable are connected to this unit and the DC plug is unplugged, the unit will enter Standby mode.

About the protectors

- Locations and functions of the protectors
  Besides the voltage-monitoring circuit that monitors the voltages of the main power-supply ICs, this unit is also provided with protectors (elements for protection against excess current) on the power lines. If any power failure occurs, a protector will be activated to protect the unit's parts and circuits from excess current.
  P101 (DEK1097) (LITTELFUSE INC. 466001): For protection of V+VBUS from excess current
  P102 (DEK1103) (LITTELFUSE INC. 466003): For protection of V+12_ADP from excess current
  P203 (DEK1095) (LITTELFUSE INC. 466.500): For protection of V+12_D from excess current

Diagnostic procedure for failure when the unit is used with an iPhone/iPad

If a user complains about a failure of the unit when it is used with an iPhone/iPad, follow the diagnostic procedure described below.

1. Check that the iOS device recognizes the DDJ-WeGO3.
   (See "Before confirmation in this mode" in [C-1: Connection Confirmation mode with the Lightning/30-pin Cable] in "6.1 TEST MODE.")
2. Check if the supplied iPhone/iPad connecting cable is okay, referring to [C-1: Connection Confirmation mode with the Lightning/30-pin Cable].
3. Check if the DDJ-WeGO3 is okay. To do so, check operation of each operating element or LED in Service mode and check the output signals and operations on the PC (with Serato DJ Intro installed).
   Basically, if both the iPhone/iPad connecting cable and the DDJ-WeGO3 are okay, the problem is on the connected iOS device side.

[iOS devices usable with this unit]

- iOS
  iOS7
- Models supporting the iPhone/iPad connecting cable (Lightning)
  iPad Air, iPad mini with Retina display, iPad (4th generation), iPad mini,
  iPhone 5s, iPhone 5c, iPhone 5, iPod touch (5th generation)

Note: For use with an iOS device with the Dock connector (iPad [3rd generation], iPad 2, iPhone 4s), the commercially available DJC-WeCAi30 iPhone/iPad connecting cable (30-pin Dock connector) is required.

For the latest information on supported iOS devices, visit the Pioneer DJ support site indicated below and refer to "DDJ-WeGO3."
http://pioneerdj.com/support/

2. SPECIFICATIONS

AC adapter
Power..... AC 100 V to 240 V, 50 Hz/60 Hz
Rated current.....0.6 A
Rated output.....DC 12 V, 2 A
Power consumption (standby) .....0.5 W

General – Main Unit
Power consumption
When an AC adapter is used
When connected to iPhone/iPad .....DC 12 V, 1 400 mA
When connected to a computer.....DC 12 V, 300 mA
When using USB bus power.....DC 5 V, 500 mA
Main unit weight..... 1.8 kg (4.0 lb)
Max. dimensions..... 380 mm (W) × 59 mm (H) × 240 mm (D)
(14.96 in. (W) × 2.32 in. (H) × 9.45 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
Rated output level
MASTER OUT.....3.2 Vrms
Total harmonic distortion (20 Hz to 20 kHzBW)
MASTER OUT.....0.006 %
Frequency characteristic
MASTER OUT..... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
MASTER OUT.....95 dB
Input impedance
MIC.....11 kΩ
Output impedance
MASTER OUT.....1 kΩ or less
PHONES .....10 Ω or less
USB AUDIO..... 24 bit/Fs: 44.1 kHz, 24 bit/Fs: 48 kHz
16 bit/Fs: 44.1 kHz, 16 bit/Fs: 48 kHz

Input / Output terminals
MASTER OUT 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
MIC input terminal
Phone jack (Ø 6.3 mm)..... 1 set
USB terminal
B type ..... 1 set
iOS device connection terminal
13-pin..... 1 set

Accessories

- Operating Instructions (DJ unit Setup)
  (SYXJ5: DRH1287, DRH1288)
  (UXJCB: DRH1289)
  (AXJ5: DRH1291)
- AC adapter
  (DWR1546)
- Power cord
  (SYXJ5: ADG1154)
  (UXJCB: XDG3052)
  (AXJ5: ADG7079)
- USB cable
  (DDE1140)
- Warranty
- iPhone/iPad connection cable (Lightning)*
  (DDE1145)
- VIRTUAL DJ LE license key (indicated on this unit's bottom panel)
- djay for Mac license key (indicated on this unit's bottom panel)

* : iPhone/iPad connection cable (30-pin dock connector) is sold separately.
For information related to the separately sold iPhone/iPad connection cable (30-pin dock connector) and the latest supported models, see the Pioneer DJ support site below.
http://pioneerdj.com/support/

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	Check the firmware version.	The firmware version must be the latest one. If it is not the latest one, be sure to update it.
2	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 connection, MIC input, Fader, or Volume, input that specific source then perform that specific operation for checking.	The customer complain must not be reappeared. Audio and operations must be normal.
3	Confirmation of operation of operating elements (except each VRs) and LEDs.	Each confirmation items work with service mode normally.
4	Check the analog audio output and each VRs. Connect this unit with a PC with the DJ application (Serato DJ Intro) installed, via USB, then operate the DJ application (Serato DJ Intro).	There must be no errors, such as noise, in audio signals and operations of the MASTER/HEADPHONES outputs.
5	Check the analog audio input. Input an audio signal via MIC.	Audio and operations must be normal.
6	Check whether the connection with the iOS device (iPhone or iPad) does not have a problem.	Confirmation work with service mode normally. That you can confirm charge for iOS device from a product.
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	Volume too high
Noise	Volume fluctuating
Volume too low	Sound interrupted

3.2 JIGS LIST

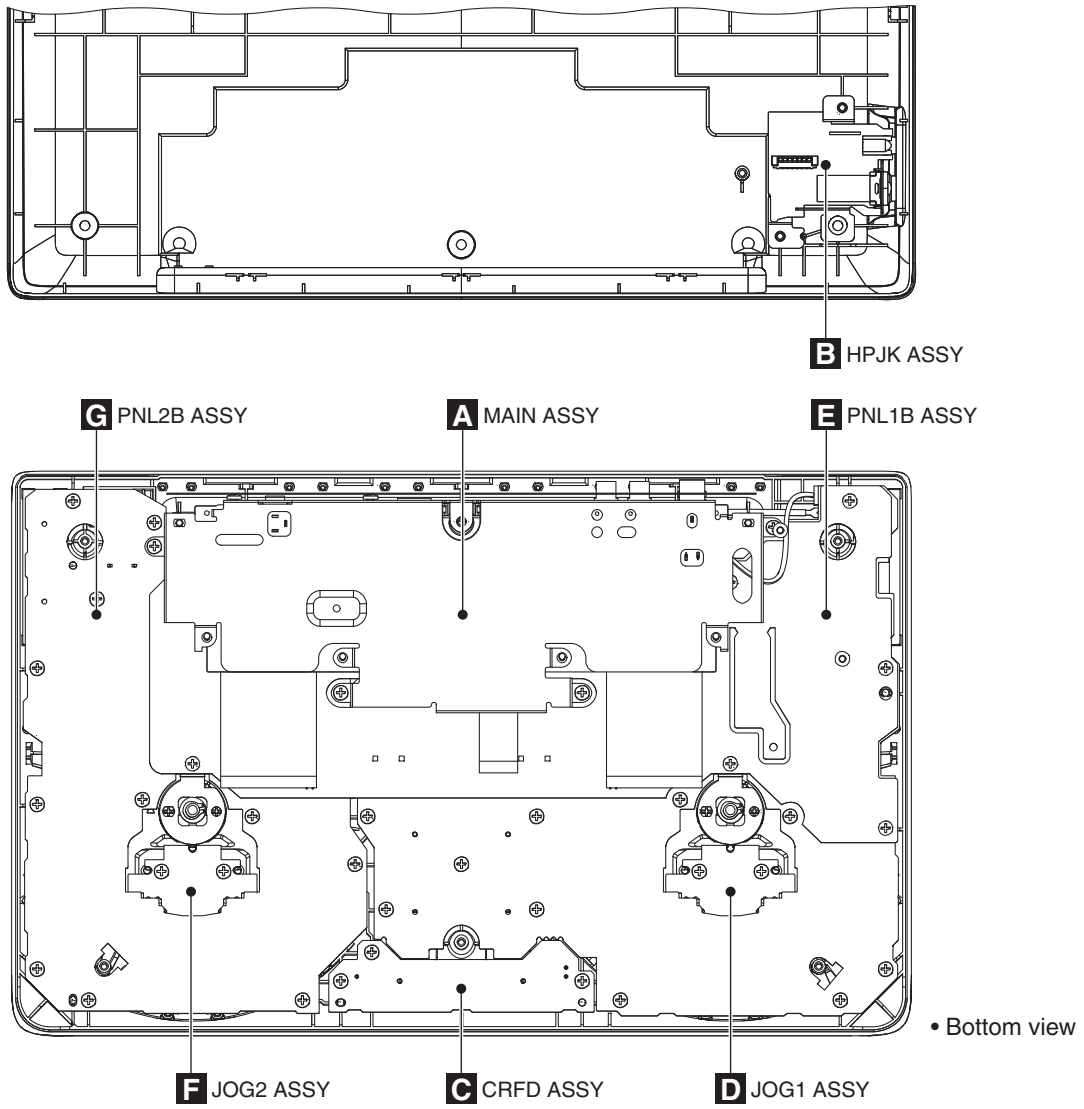
■ Jigs List

Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1188	for PC connection, accessory (Part No.: DDE1140)
iPhone/iPad connection cable	GGP1245	for iOS device connection, accessory (Part No.: DDE1145)
iOS device	iPad/iPhone/iPod touch	The version of an iOS device must be iOS7 or later.

■ Lubricants and Glues List

Name	Part No.	Remarks
Grease	GEM1100	Refer to "7. DISASSEMBLY".

3.3 PCB LOCATIONS



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

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX3591	NSP	1	PNL2 ASSY	DWM2544
					2	PNL2B ASSY *2	DWX3595
NSP	1	PNL1 ASSY	DWM2543	NSP	2	JOG2 ASSY *2	DWX3596
	2	PNL1B ASSY *1	DWX3592				
NSP	2	JOG1 ASSY *1	DWX3593				
	2	HPJK ASSY	DWX3594				
	2	CRFD ASSY	DWX3597				

*1: As the PNL1B Assy and JOG1 Assy are wired with jumper leads.
If a DWX3592 (PNL1B Assy) is ordered, the PNL1B Assy and JOG1 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG1 Assy alone (NSP: non-service part).

*2: As the PNL2B Assy and JOG2 Assy are wired with jumper leads.
If a DWX3595 (PNL2B Assy) is ordered, the PNL2B Assy and JOG2 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG2 Assy alone (NSP: non-service part).

A

B

C

D

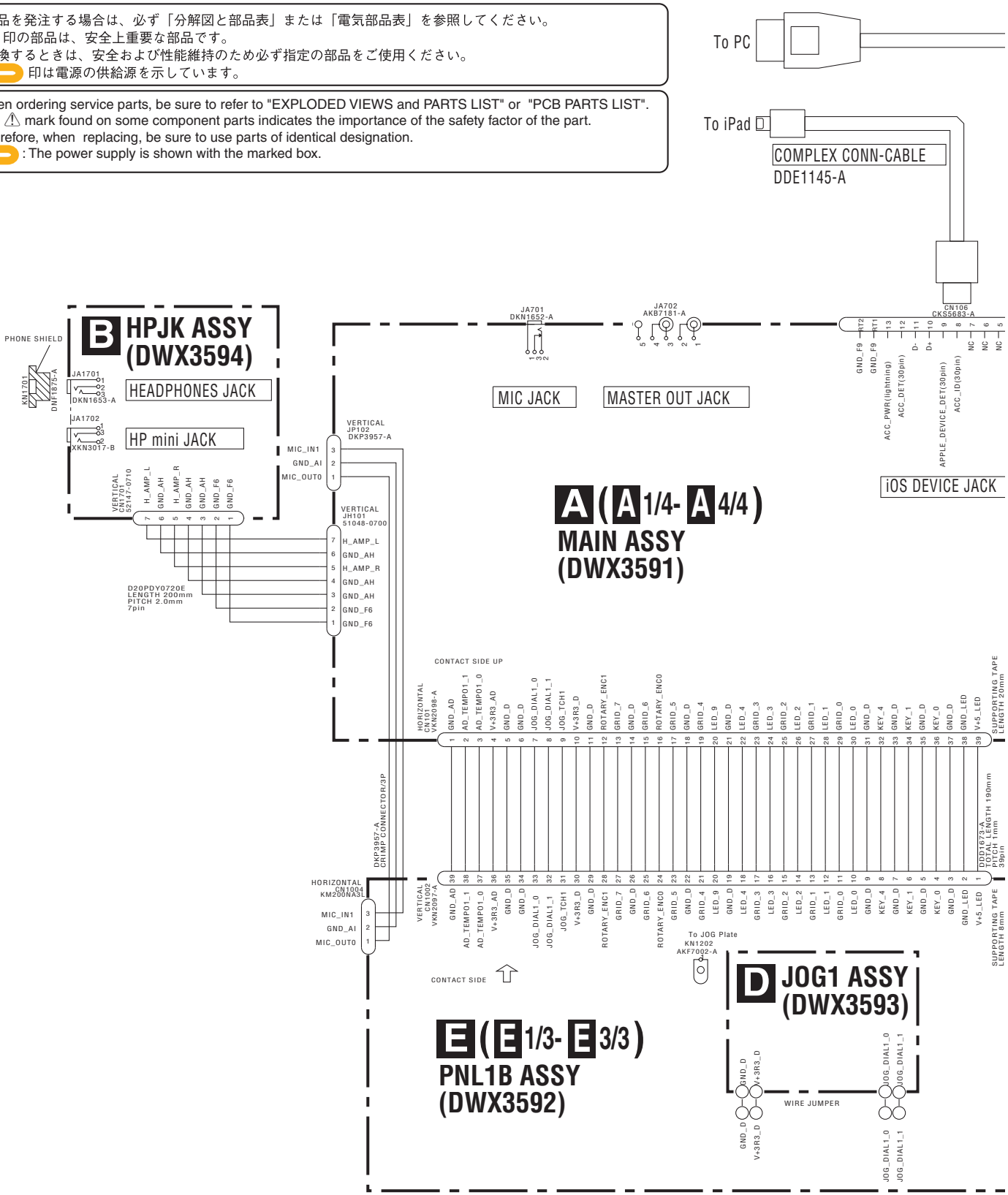
E

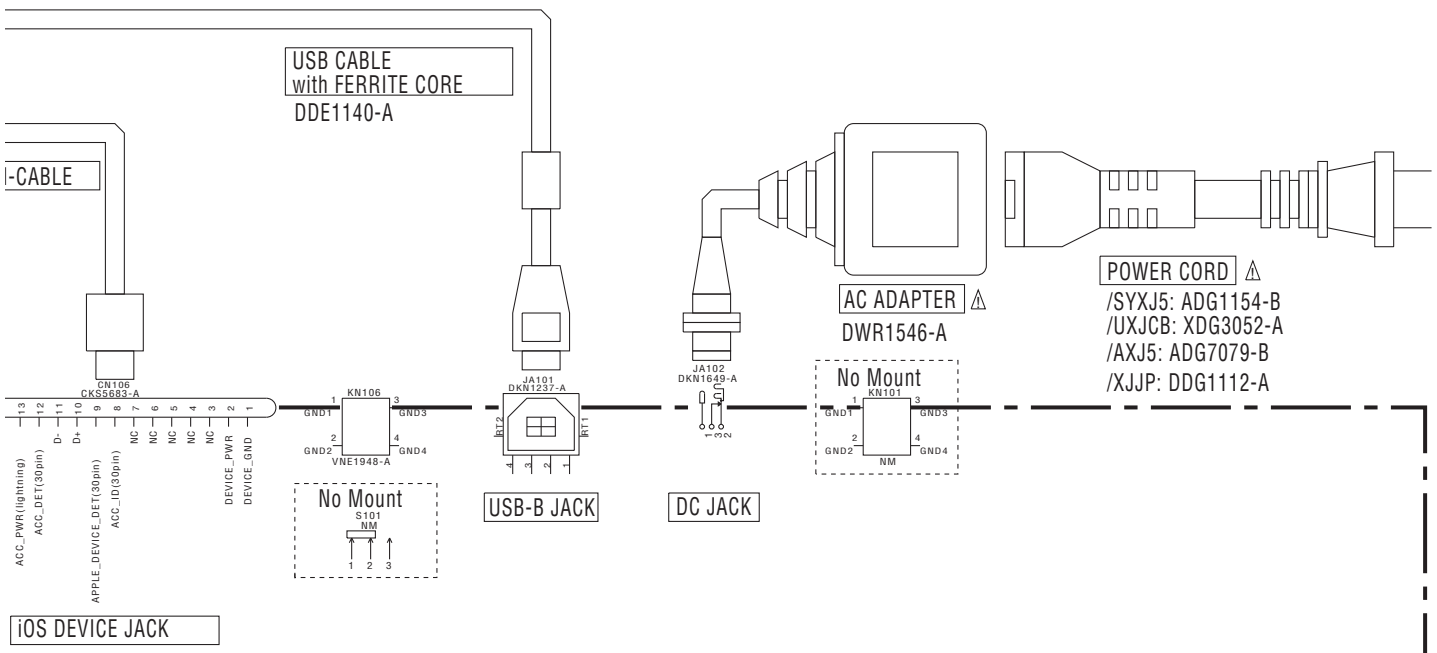
F

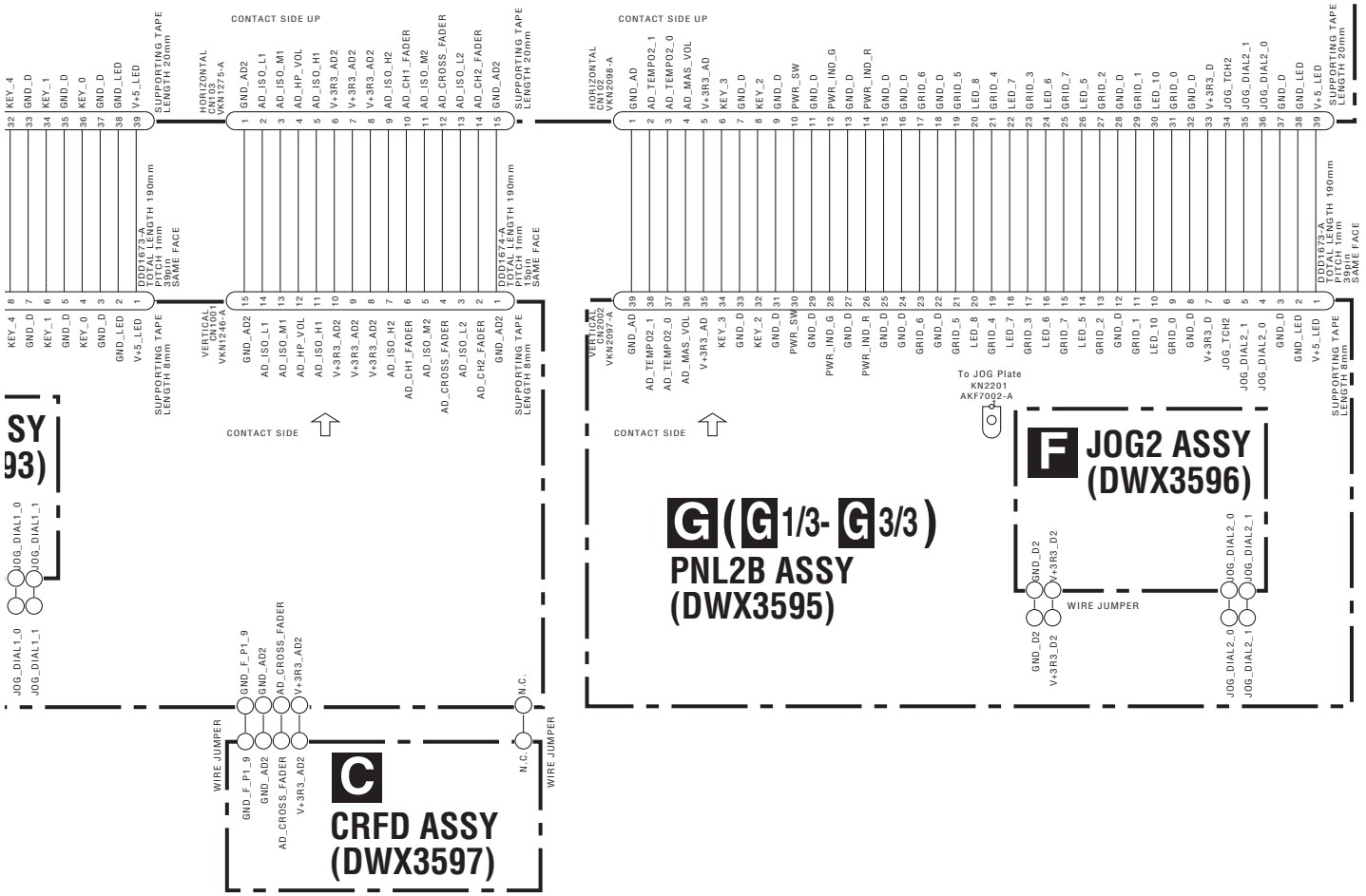
4. BLOCK DIAGRAM
4.1 OVERALL WIRING DIAGRAM

- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- ⚠ 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。
- ⬭ 印は電源の供給源を示しています。

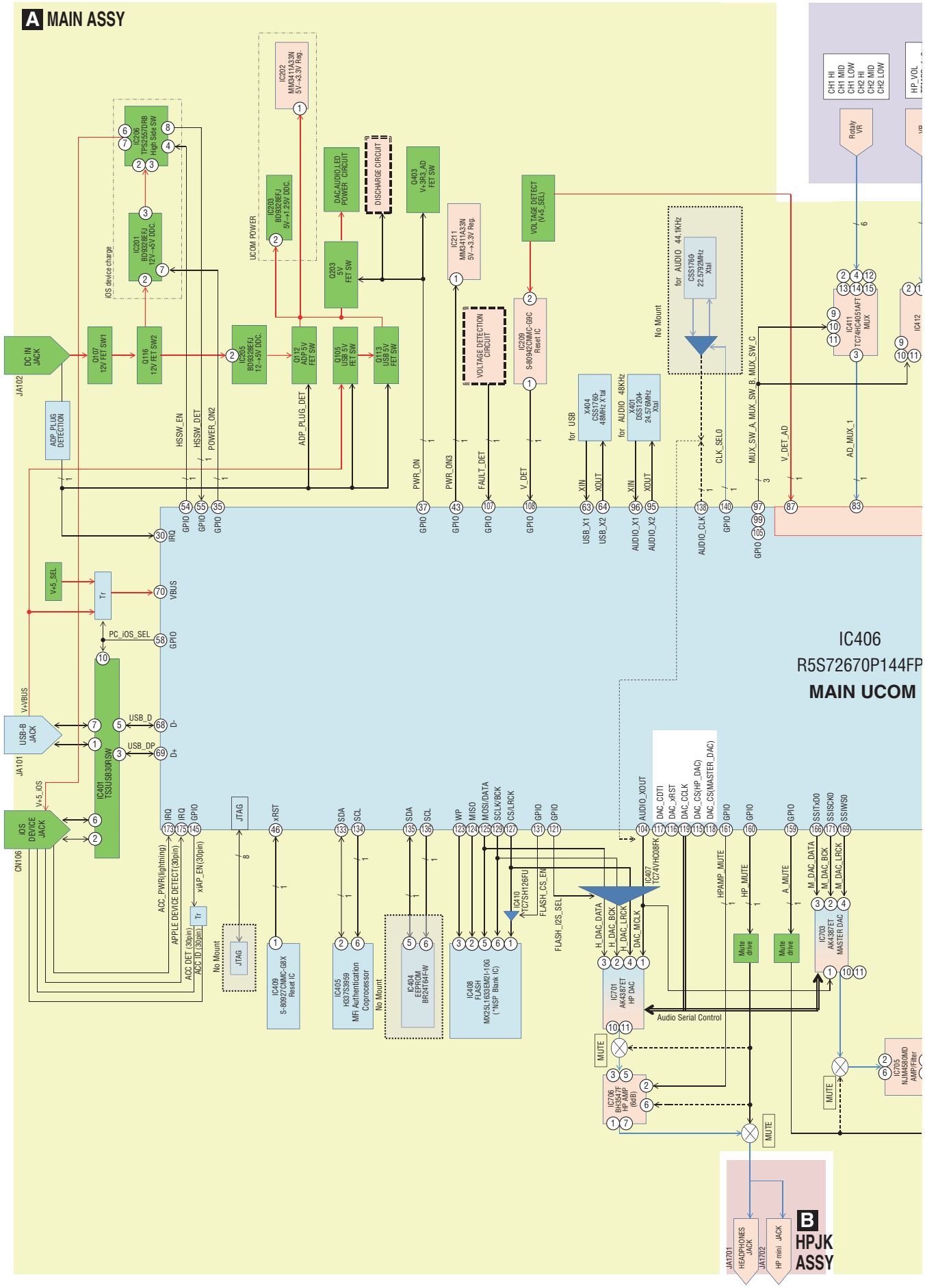
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part.
  Therefore, when replacing, be sure to use parts of identical designation.
- ⬭ : The power supply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

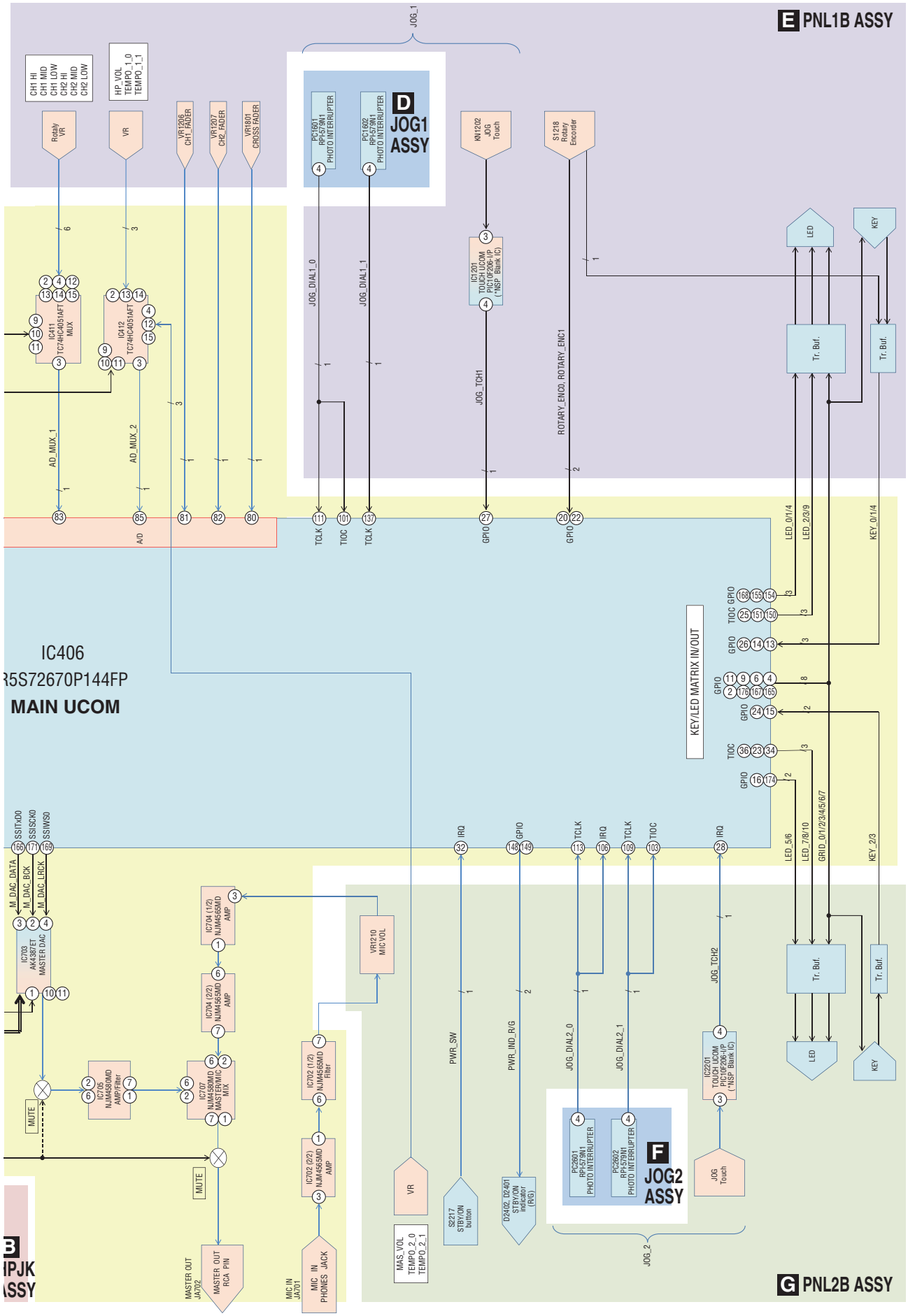



USB CABLE
with FERRITE CORE
DDE1140-A
-CABLE
CN106
CKS5683-A
KN106
VNE1948-A
JA101
DKN1237-A
JA102
DKN1649-A
AC ADAPTER
DWR1546-A
POWER CORD
/SYXJ5: ADG1154-B
/UXJCB: XDG3052-A
/AXJ5: ADG7079-B
/XJJP: DDG1112-A
No Mount
KN101
NM
No Mount
S101
NM
ACC_PWR(lightning)
ACC_DET(30pin)
APPLE_DEVICE_DET(30pin)
ACC_ID(30pin)
DEVICE_PWR
DEVICE_GND
iOS DEVICE JACK
USB-B JACK
DC JACK

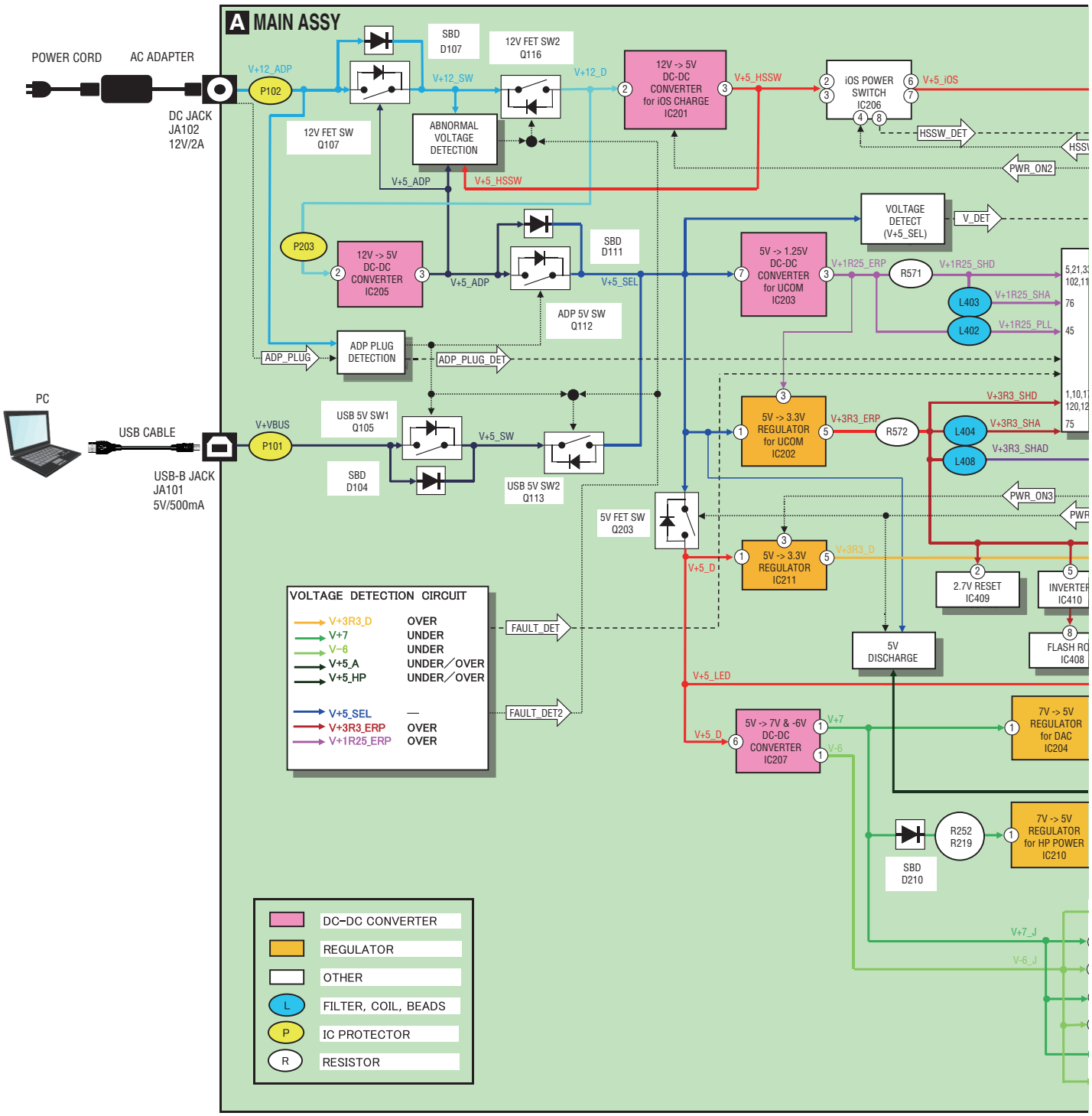

CONTACT SIDE UP
HORIZONTAL CN103 VKN1275-A
SUPPORTING TAPE LENGTH 20mm
DDD1673-A TOTAL LENGTH 190mm PITCH 1mm 39pin SAME FACE
VERTICAL CN1001 VKN1246-A
SUPPORTING TAPE LENGTH 8mm
CONTACT SIDE
HORIZONTAL CN102 VKN2098-A
VERTICAL CN2002 VKN2097-A
To JOG Plate KN2201 AKF7002-A
F JOG2 ASSY (DWX3596)
G (G 1/3- G 3/3) PNL2B ASSY (DWX3595)
WIRE JUMPER
C CRFD ASSY (DWX3597)
N.C.

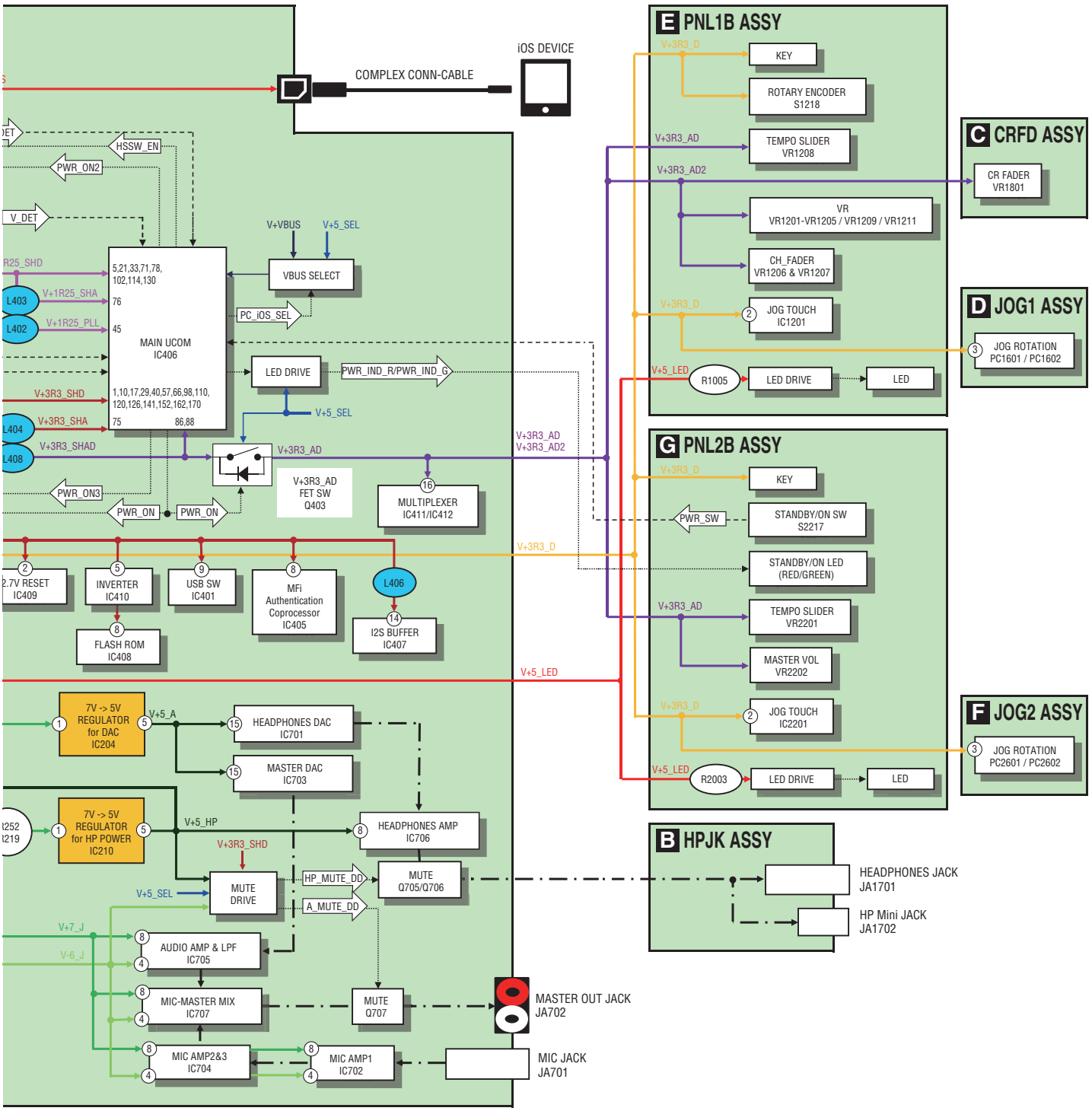
4.2 OVERALL BLOCK DIAGRAM



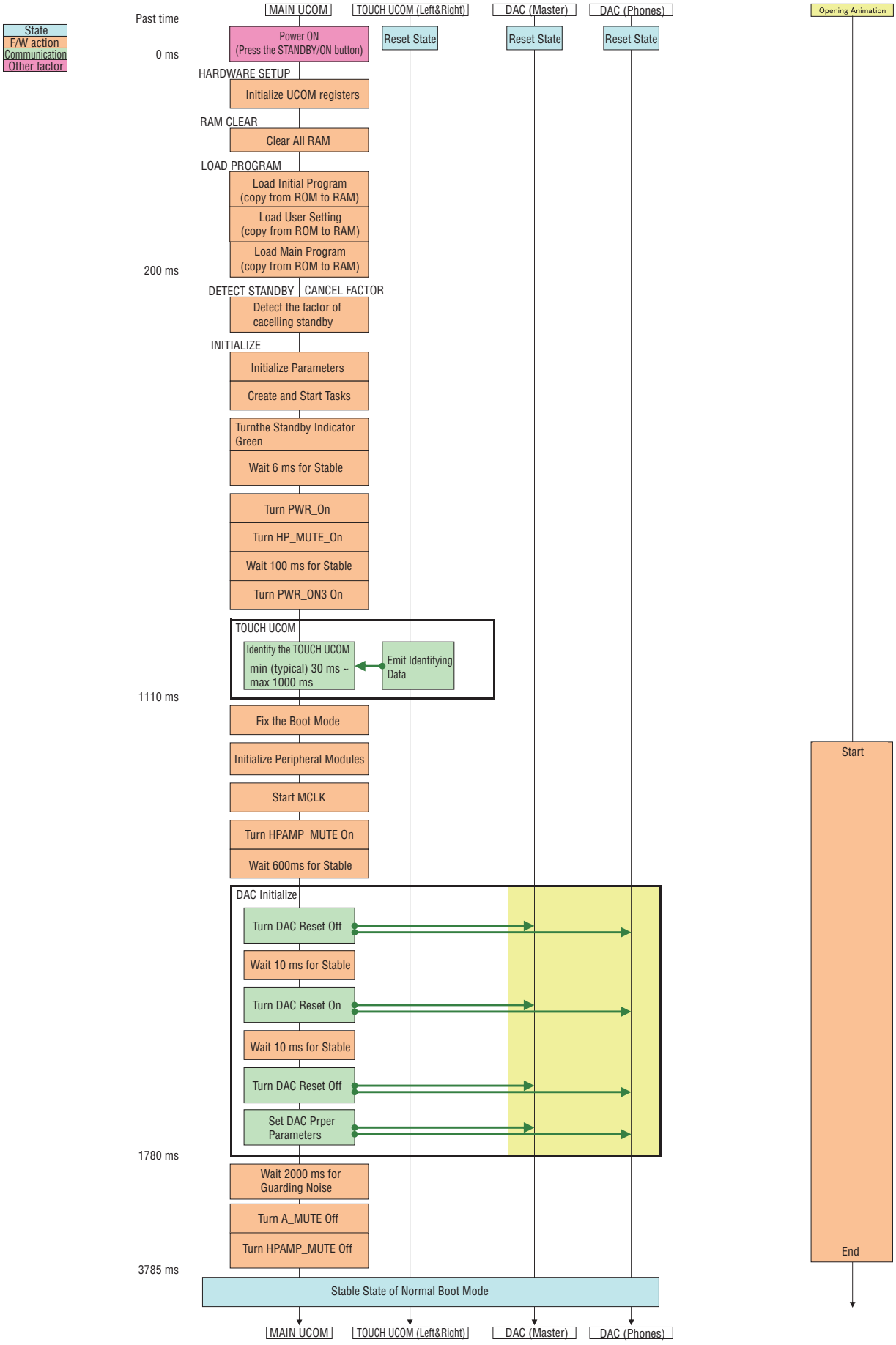

E PNL1B ASSY
D JOG1 ASSY
F JOG2 ASSY
G PNL2B ASSY
IC406
R5S72670P144FP
MAIN UCOM
KEY/LED MATRIX IN/OUT
JOG_1
CH1 HI
CH1 MID
CH1 LOW
CH2 HI
CH2 MID
CH2 LOW
HP_VOL
TEMPO_1_0
TEMPO_1_1
Rotaly VR
VR
VR1206 CH1_FADER
VR1207 CH2_FADER
VR1801 CROSS FADER
PC1601 RPI-5791N1 PHOTO INTERRUPTER
PC1602 RPI-5791N1 PHOTO INTERRUPTER
KN1202 JOG Touch
S1218 Rotary Encoder
IC1201 TOUCH UCOM PIC10F206-I/P (*NSP: Blank IC)
JOG_DIAL1_0
JOG_DIAL1_1
JOG_TCH1
ROTARY_ENC0, ROTARY_ENC1
LED
KEY
Tr. Buf.
IC411 TC74HC4051AFT MUX
IC412 TC74HC4051AFT MUX
AD_MUX_1
AD_MUX_2
A/D
TCLK
TIOC
GPIO
LED_0/1/4
LED_2/3/9
KEY_0/1/4
TIOC GPIO
GPIO
LED_5/6
LED_7/8/10
GRID_0/1/2/3/4/5/6/7
KEY_2/3
IRQ
SSITxD0
SSISCK0
SSIWS0
M_DAC_DATA
M_DAC_BCK
M_DAC_LRCK
IC703 AK4387ET MASTER DAC
IC704 (1/2) NJM4565MD AMP
IC704 (2/2) NJM4565MD AMP
IC705 NJM4580MD AMP/Filter
IC707 NJM4580MD MASTER/MIC MIX
IC702 (1/2) NJM4565MD Filter
IC702 (2/2) NJM4565MD AMP
MUTE
VR1210 MIC VOL
PWR_SW
PWR_IND_R/G
JOG_DIAL2_0
JOG_DIAL2_1
JOG_TCH2
IC2201 TOUCH UCOM PIC10F206-I/P (*NSP: Blank IC)
PC2601 RPI-5791N1 PHOTO INTERRUPTER
PC2602 RPI-5791N1 PHOTO INTERRUPTER
JOG Touch
JOG_2
VR
S2217 STBY/ON button
D2402, D2401 STBY/ON indicator (R/G)
MAS_VOL
TEMPO_2_0
TEMPO_2_1
MASTER OUT JA702
MASTER OUT RCA PIN
MIC IN JA701
MIC IN PHONES JACK
B IPJK ASSY

4.3 POWER SUPPLY BLOCK DIAGRAM



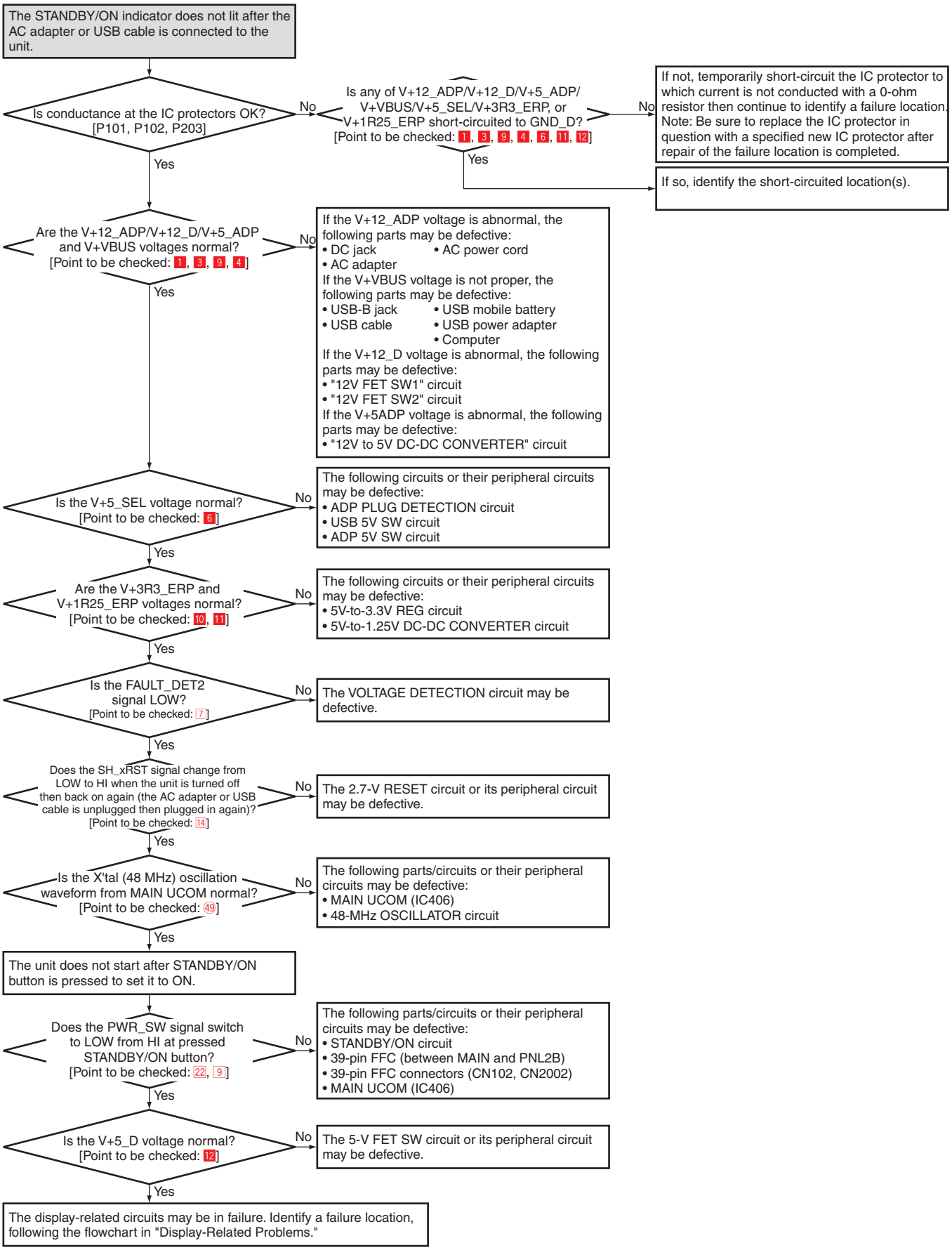

iOS DEVICE
COMPLEX CONN-CABLE
HSSW_EN
PWR_ON2
V_DET
V+VBUS
V+5_SEL
VBUS SELECT
PC_iOS_SEL
MAIN UCOM
IC406
5,21,33,71,78,
102,114,130
76
45
1,10,17,29,40,57,66,98,110,
120,126,141,152,162,170
75
86,88
R25_SHD
L403
V+1R25_SHA
L402
V+1R25_PLL
V+3R3_SHD
V+3R3_SHA
V+3R3_SHAD
L404
L408
LED DRIVE
PWR_IND_R/PWR_IND_G
V+5_SEL
V+3R3_AD
V+3R3_AD
FET SW
Q403
V+3R3_AD
V+3R3_AD2
MULTIPLEXER
IC411/IC412
PWR_ON3
PWR_ON
PWR_ON
V+3R3_D
2.7V RESET
IC409
INVERTER
IC410
USB SW
IC401
MFi
Authentication
Coprocessor
IC405
L406
I2S BUFFER
IC407
FLASH ROM
IC408
V+5_LED
7V -> 5V
REGULATOR
for DAC
IC204
V+5_A
HEADPHONES DAC
IC701
MASTER DAC
IC703
7V -> 5V
REGULATOR
for HP POWER
IC210
V+5_HP
HEADPHONES AMP
IC706
V+3R3_SHD
MUTE
DRIVE
HP_MUTE_DD
A_MUTE_DD
MUTE
Q705/Q706
V+5_SEL
V+7_J
V-6_J
AUDIO AMP & LPF
IC705
MIC-MASTER MIX
IC707
MUTE
Q707
MASTER OUT JACK
JA702
MIC AMP2&3
IC704
MIC AMP1
IC702
MIC JACK
JA701
E PNL1B ASSY
V+3R3_D
KEY
ROTARY ENCODER
S1218
V+3R3_AD
TEMPO SLIDER
VR1208
V+3R3_AD2
VR
VR1201-VR1205 / VR1209 / VR1211
CH_FADER
VR1206 & VR1207
V+3R3_D
JOG TOUCH
IC1201
V+5_LED
R1005
LED DRIVE
LED
C CRFD ASSY
CR FADER
VR1801
D JOG1 ASSY
JOG ROTATION
PC1601 / PC1602
G PNL2B ASSY
V+3R3_D
KEY
PWR_SW
STANDBY/ON SW
S2217
STANDBY/ON LED
(RED/GREEN)
V+3R3_AD
TEMPO SLIDER
VR2201
MASTER VOL
VR2202
V+3R3_D
JOG TOUCH
IC2201
V+5_LED
R2003
LED DRIVE
LED
F JOG2 ASSY
JOG ROTATION
PC2601 / PC2602
B HPJK ASSY
HEADPHONES JACK
JA1701
HP Mini JACK
JA1702

5. DIAGNOSIS
5.1 BOOT SEQUENCE



5.2 TROUBLESHOOTING

Power-Related Problems



Soon after the STANDBY/ON button is set to ON, the STANDBY indicator flashes in red.

Is the FAULT_DET signal HI while the STANDBY/ON button is set to STANDBY?
[Point to be checked: 6]

No → Check the pull-up resistor (R511).

Yes →

Deactivate the voltage-monitoring circuit, by removing R267. Set the STANDBY/ON button to ON then check if the voltages being monitored are OK.
[Point to be checked: 14, 15, 16, 17, 18]

No → The circuit for a power IC with abnormal voltage may be in failure.

Yes →

The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.

Soon after the STANDBY/ON button is set to ON, the unit will shut itself off.

Does the V_DET signal become LOW even for an instant from when the STANDBY/ON button is set to ON until the unit shuts itself off?
[Point to be checked: 8]

No → The MAIN UCOM (IC406) may be in failure.

Yes →

Is the V+5_SEL voltage normal?
[Point to be checked: 6]

No → As voltage decrease has been detected, check if the connection requirements for the unit are met. (Refer to "Connecting" in the operating instructions.)
The AC adapter or USB cable may be in failure, or the PC may not meet the required specifications.

Yes →

Check the pull-up resistor (R507). If it is normal, the VOLTAGE DETECT (V+5_SEL) circuit or its peripheral circuit may be defective.

Problems Related with Connection of an iOS Device

An iOS device does not recognize the unit after it is connected with the unit via the connection cable.

Is the iOS device properly connected with this unit, using the supplied iPhone/iPad connection cable?

No → Properly connect the iOS device to this unit, following the operating instructions.

Yes →

Is the supplied iPhone/iPad connection cable OK (without any damage in the plug, loose connection, or breakage in the cable)?

No → Replace the supplied iPhone/iPad connection cable with a new one.

Yes →

Are the versions of the OS of the connected iOS device and application supported by this unit?

No → Update the versions of the OS and/or application to those supported by this unit.

Yes →

Is the connected iOS device normal? Does the same symptom appear even when another iOS device is connected?

No → Replace the iOS device with one that operates properly.

Yes →

Is the PC_iOS_SEL signal normal?
[Point to be checked: 23]

No → The MAIN UCOM (IC406) may be in failure.

Yes →

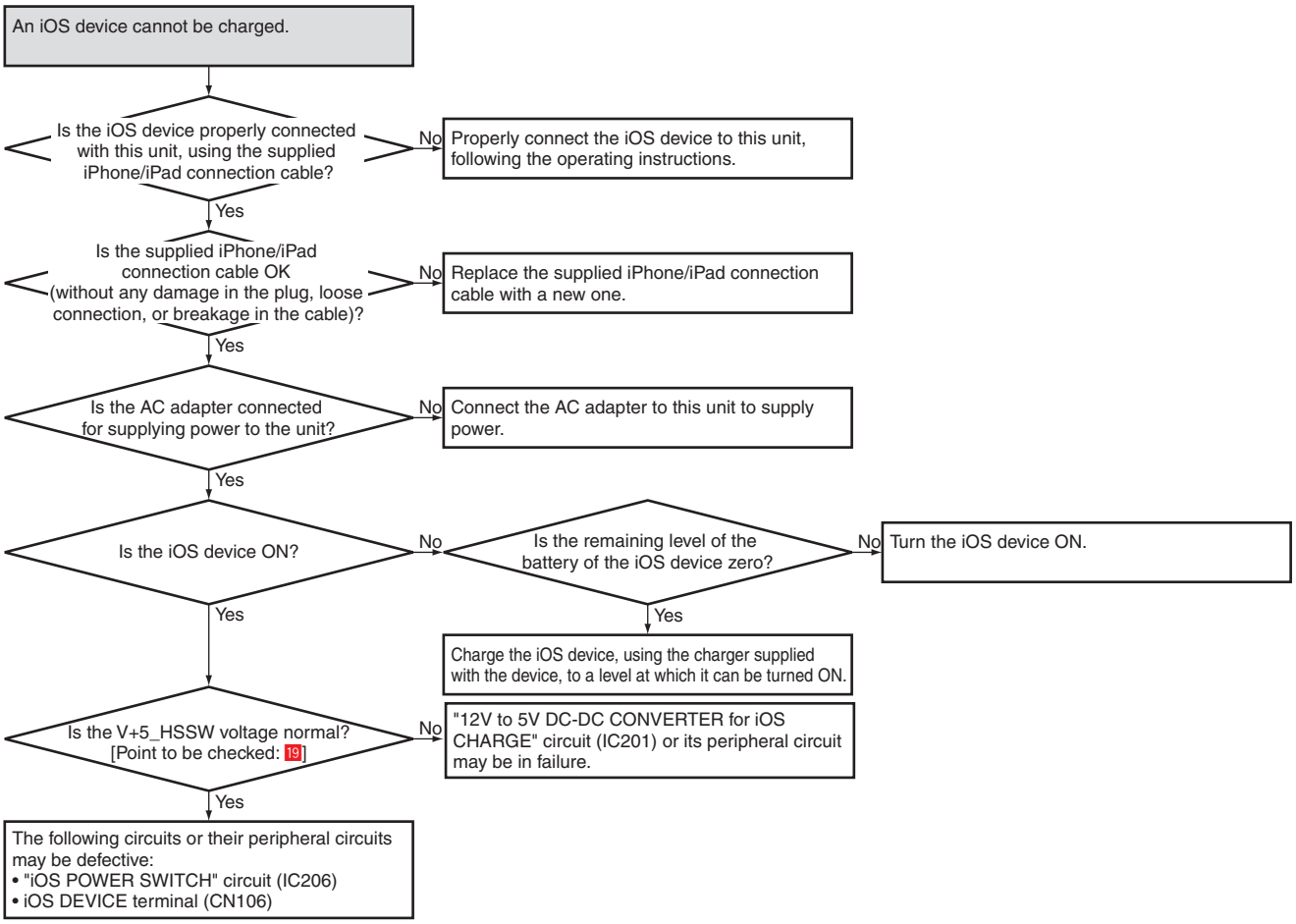
Is the signal between USB SW and the MAIN UCOM normal?
[Point to be checked: ⑯, ⑰]

No → USB SW (IC401) may be in failure.

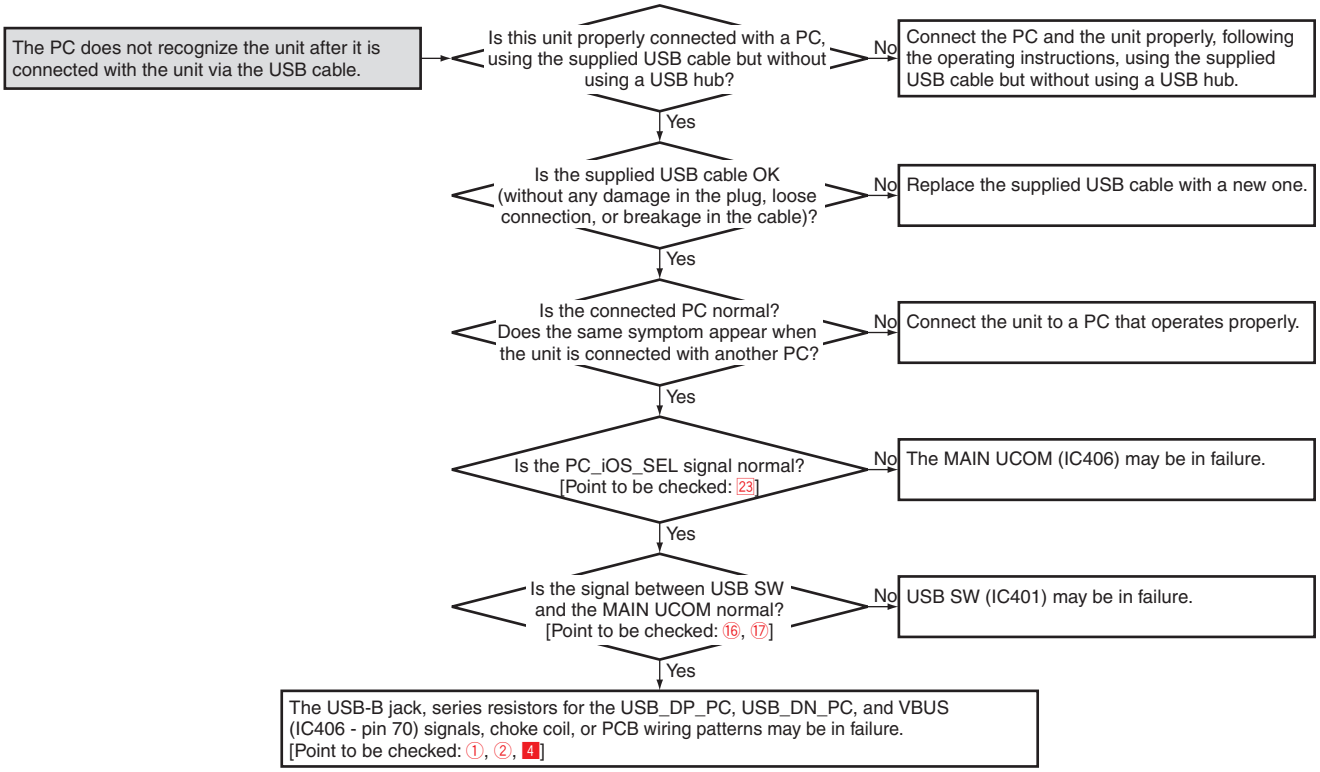
Yes →

The iOS connector, series resistors for the USB_DP_iOS, USB_DN_iOS, and VBUS (IC406 - pin 70) signals, choke coil, or PCB wiring pattern may be in failure.
[Point to be checked: ③, ④]

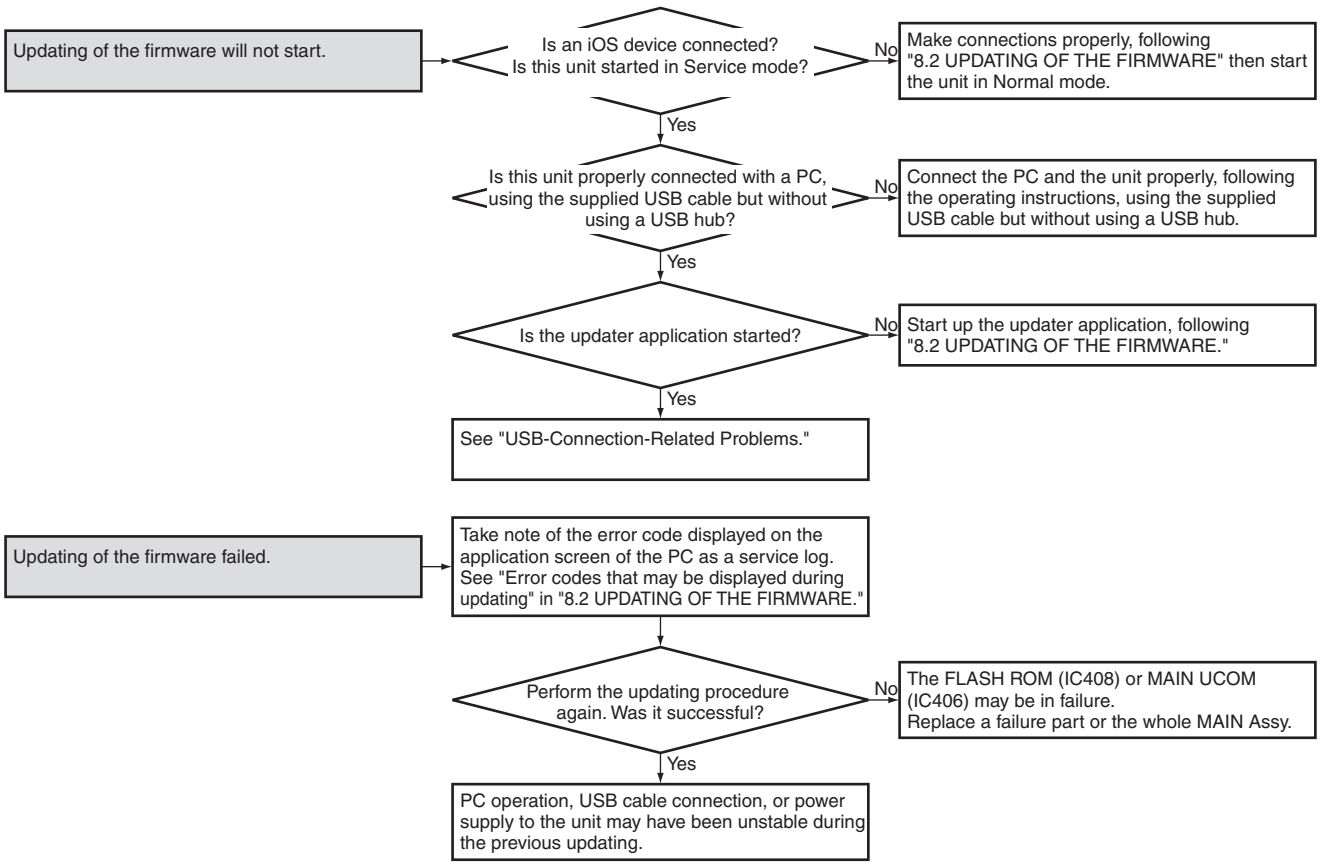
Charging-Related Problems



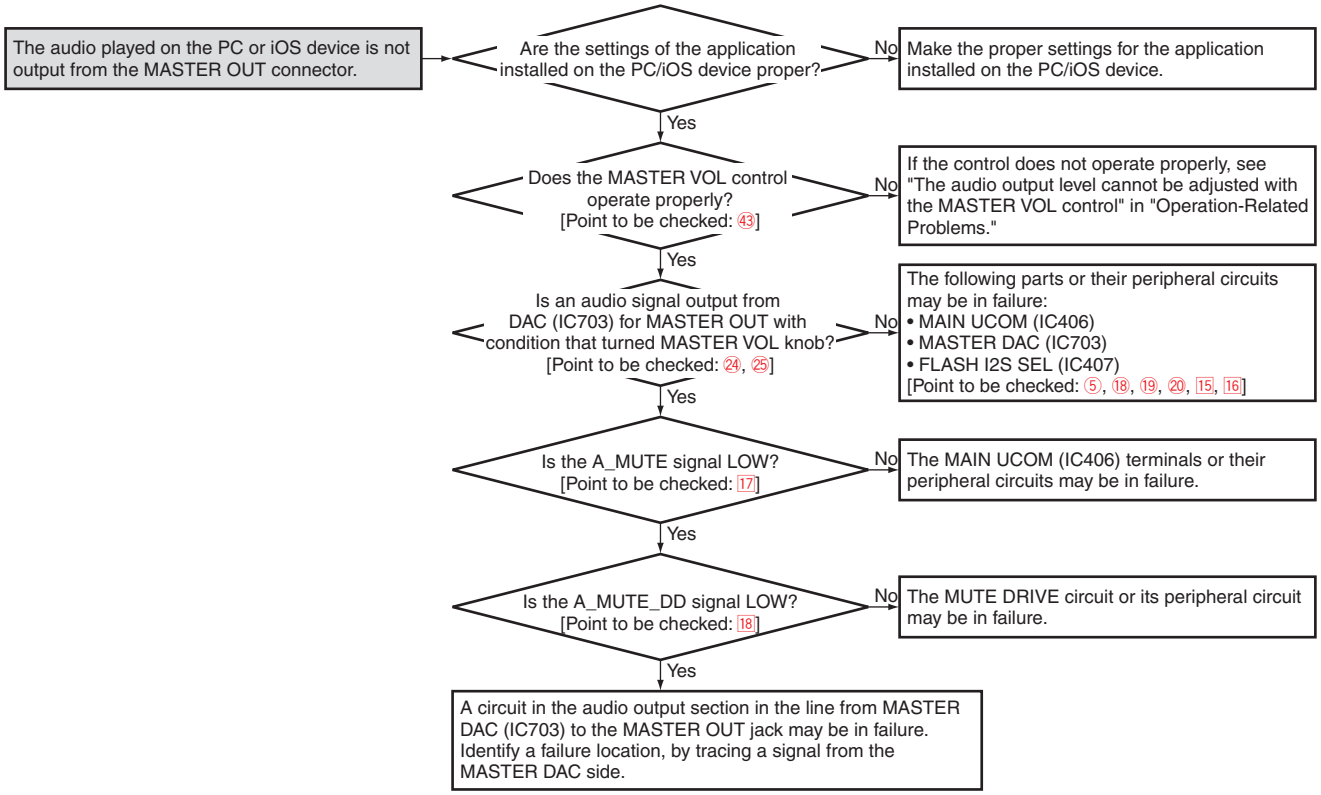
USB-Connection-Related Problems

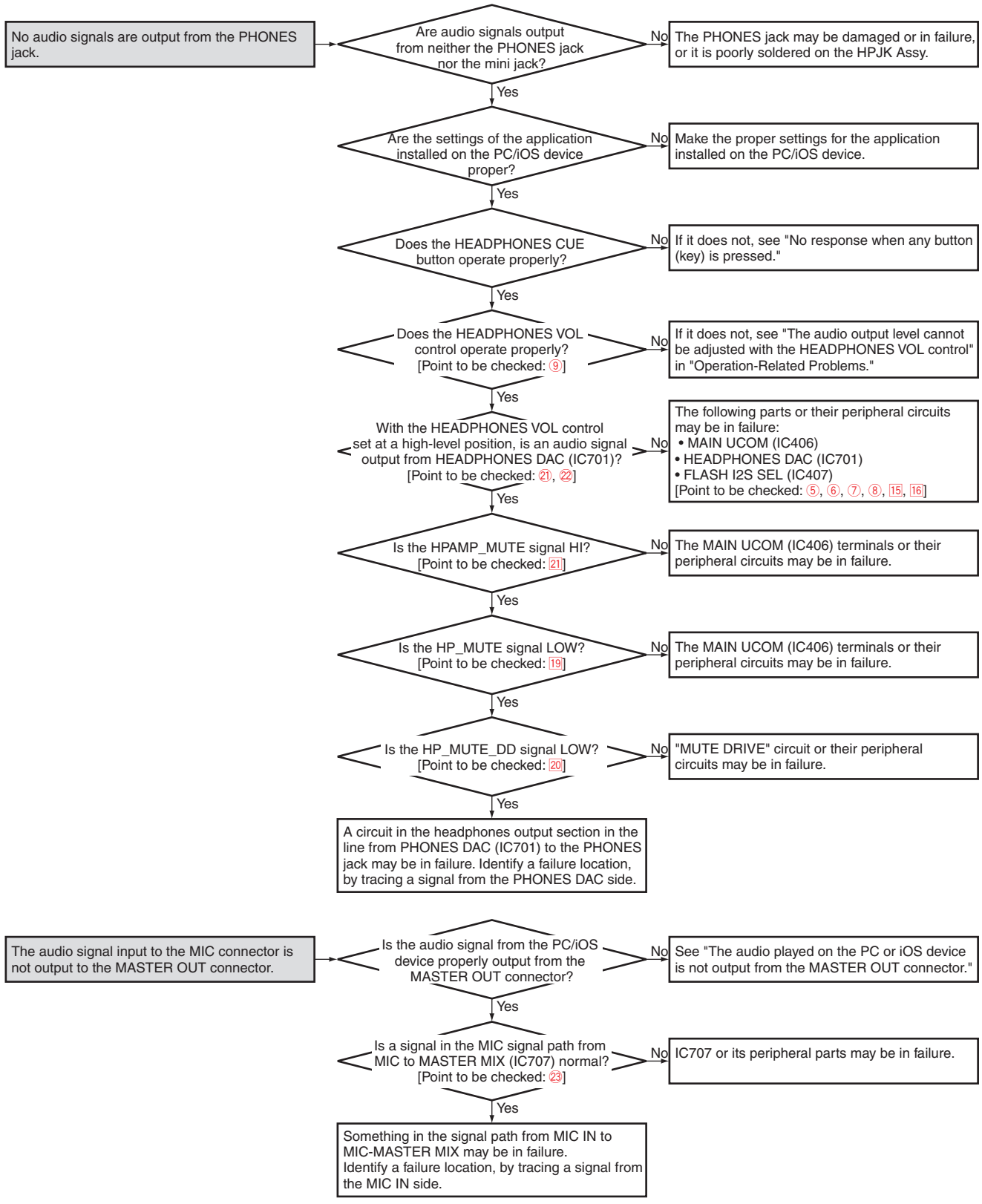


Firmware-Updating-Related Problems



Audio-Related Problems




No audio signals are output from the PHONES jack.
Are audio signals output from neither the PHONES jack nor the mini jack?
No
The PHONES jack may be damaged or in failure, or it is poorly soldered on the HPJK Assy.
Yes
Are the settings of the application installed on the PC/iOS device proper?
No
Make the proper settings for the application installed on the PC/iOS device.
Yes
Does the HEADPHONES CUE button operate properly?
No
If it does not, see "No response when any button (key) is pressed."
Yes
Does the HEADPHONES VOL control operate properly? [Point to be checked: 9]
No
If it does not, see "The audio output level cannot be adjusted with the HEADPHONES VOL control" in "Operation-Related Problems."
Yes
With the HEADPHONES VOL control set at a high-level position, is an audio signal output from HEADPHONES DAC (IC701)? [Point to be checked: 21, 22]
No
The following parts or their peripheral circuits may be in failure:
• MAIN UCOM (IC406)
• HEADPHONES DAC (IC701)
• FLASH I2S SEL (IC407)
[Point to be checked: 5, 6, 7, 8, 15, 16]
Yes
Is the HPAMP_MUTE signal HI? [Point to be checked: 21]
No
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.
Yes
Is the HP_MUTE signal LOW? [Point to be checked: 19]
No
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.
Yes
Is the HP_MUTE_DD signal LOW? [Point to be checked: 20]
No
"MUTE DRIVE" circuit or their peripheral circuits may be in failure.
Yes
A circuit in the headphones output section in the line from PHONES DAC (IC701) to the PHONES jack may be in failure. Identify a failure location, by tracing a signal from the PHONES DAC side.
The audio signal input to the MIC connector is not output to the MASTER OUT connector.
Is the audio signal from the PC/iOS device properly output from the MASTER OUT connector?
No
See "The audio played on the PC or iOS device is not output from the MASTER OUT connector."
Yes
Is a signal in the MIC signal path from MIC to MASTER MIX (IC707) normal? [Point to be checked: 23]
No
IC707 or its peripheral parts may be in failure.
Yes
Something in the signal path from MIC IN to MIC-MASTER MIX may be in failure.
Identify a failure location, by tracing a signal from the MIC IN side.

Display-Related Problems

LED indications for buttons, indicators, or JOG ring are abnormal.
Note: In a case where LED indications are abnormal during operation, see "Operation-Related Problems."

→ Check the abnormal LED, referring to "6.1 TEST MODE."

→ Is the appearance of the lens and button normal when visually inspected?

- No → Replace the defective lens or button.
- Yes → Are indications of multiple LEDs abnormal at the same time?

  - No → An LED or its peripheral parts may be defective:
    - Defective lens
    - Defective LED
    - Defective series resistors, wiring patterns, or jumpers for the LEDs
  - Yes → Are indications of all LEDs controlled with the same GRID signal (GRID_**) abnormal? See "10.10 PNL1 ASSY (3/3)" and "10.14 PNL2 ASSY (3/3)."

    - Yes → GRIDCheck the waveform (GRID_0-7) of the GRID control signal.
      If the waveform is abnormal, the possible causes are as follows:
      - Defective MAIN UCOM (IC406) output terminals
      - Defective LED high-side drive circuit (transistors or resistors)
      - Defective resistors or wiring patterns in the GRID signal line

      [Point to be checked: 50, 51, 52]

      Check the waveform (GRID_0-7_*) of the signal after the LED high-side drive circuit. If the waveform is abnormal, the possible causes are as follows:
      - Defective LED high-side drive circuit (transistors or resistors)
      - Defective resistors or wiring patterns in the GRID_0-7_* signal line

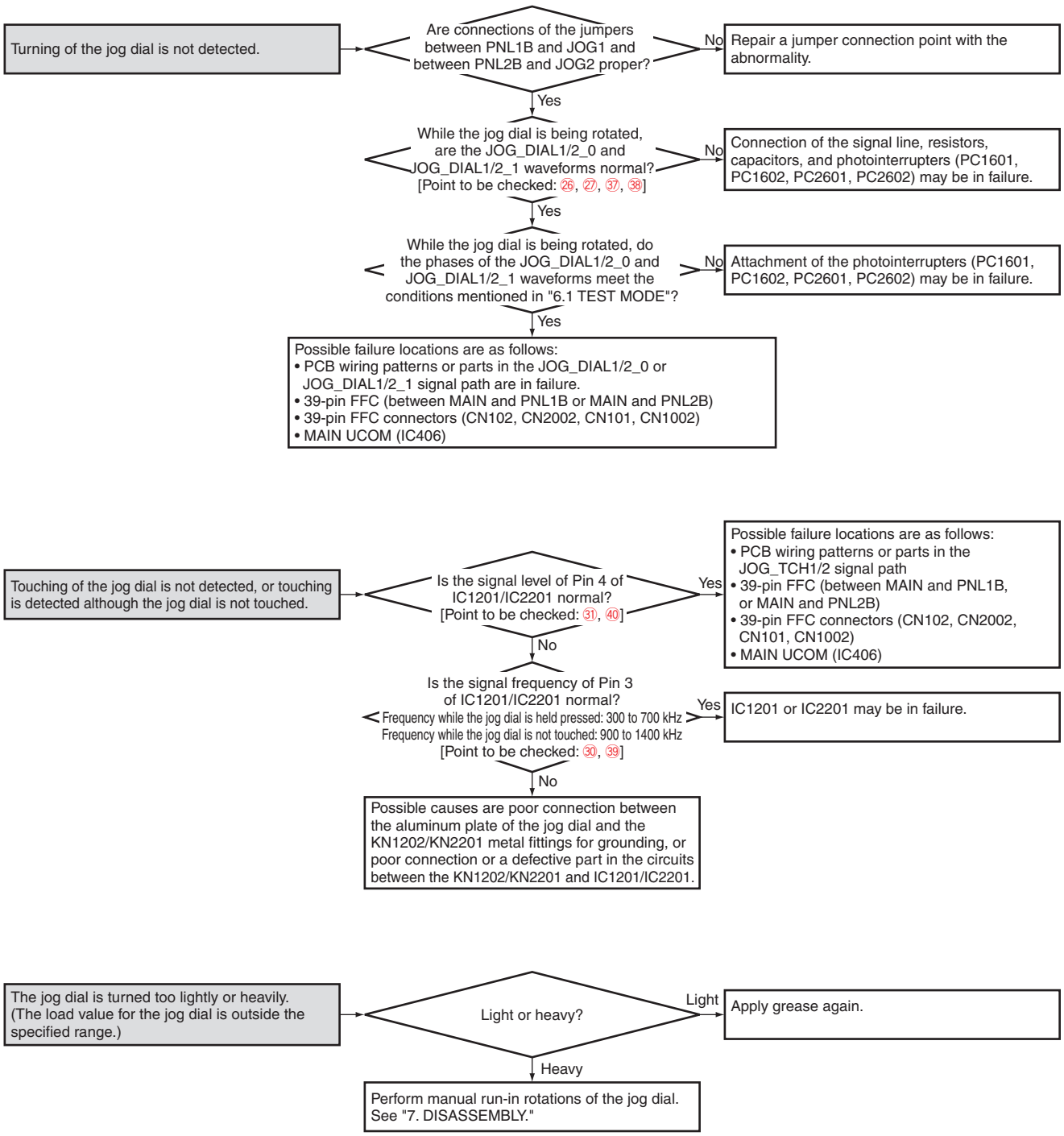
      [Point to be checked: 46]
    - No → Are indications of all LEDs controlled with the same LED signal (LED_**) abnormal? See "10.10 PNL1 ASSY (3/3)" and "10.14 PNL2 ASSY (3/3)."

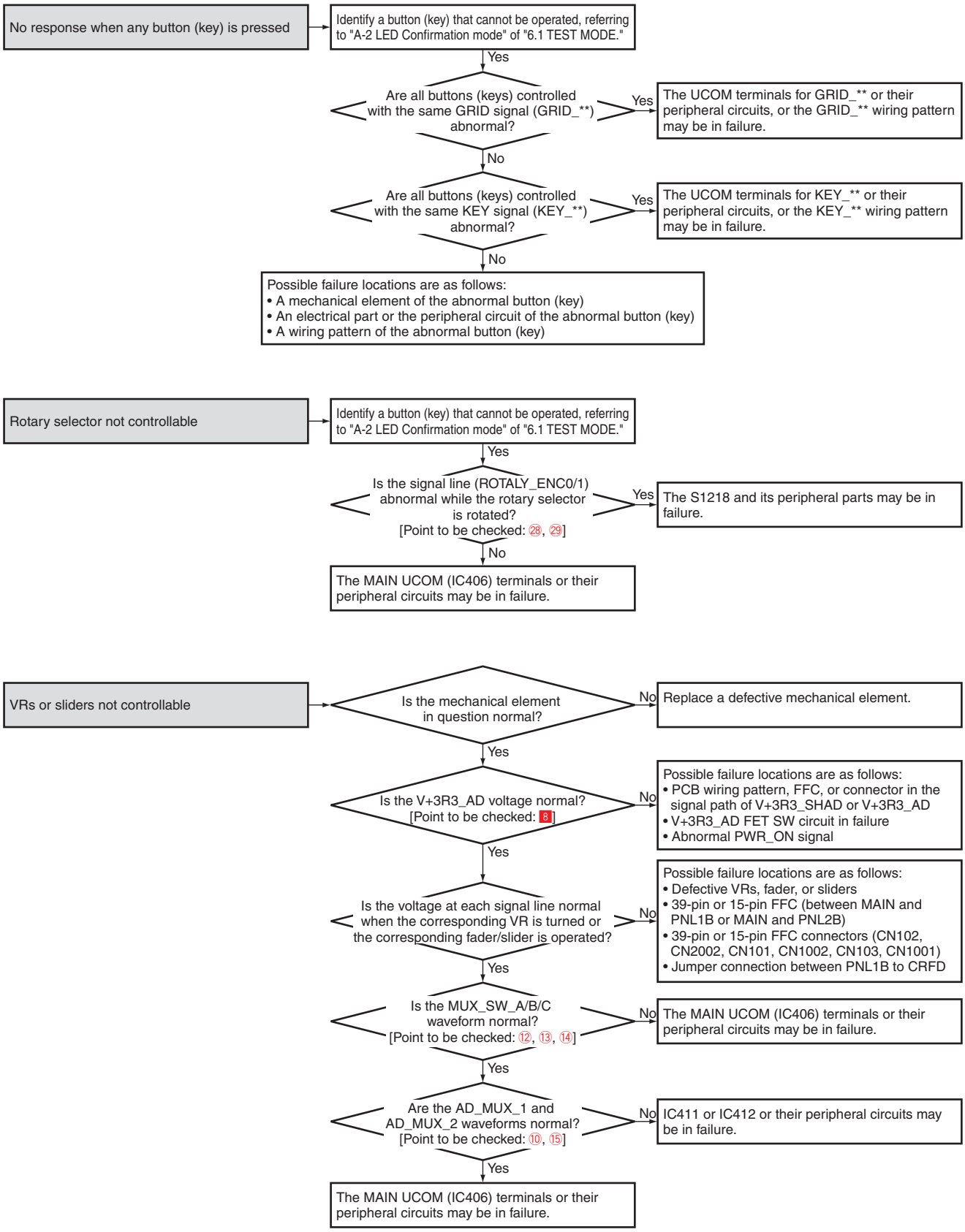
      - Yes → Check the waveform (LED_0-6) of the LED control signal.
        If the waveform is abnormal, the possible causes are as follows:
        - Defective MIAN UCOM (IC406) output terminals
        - Defective LED low-side drive circuit (transistors or resistors)
        - Defective resistors or wiring patterns in the LED signal line

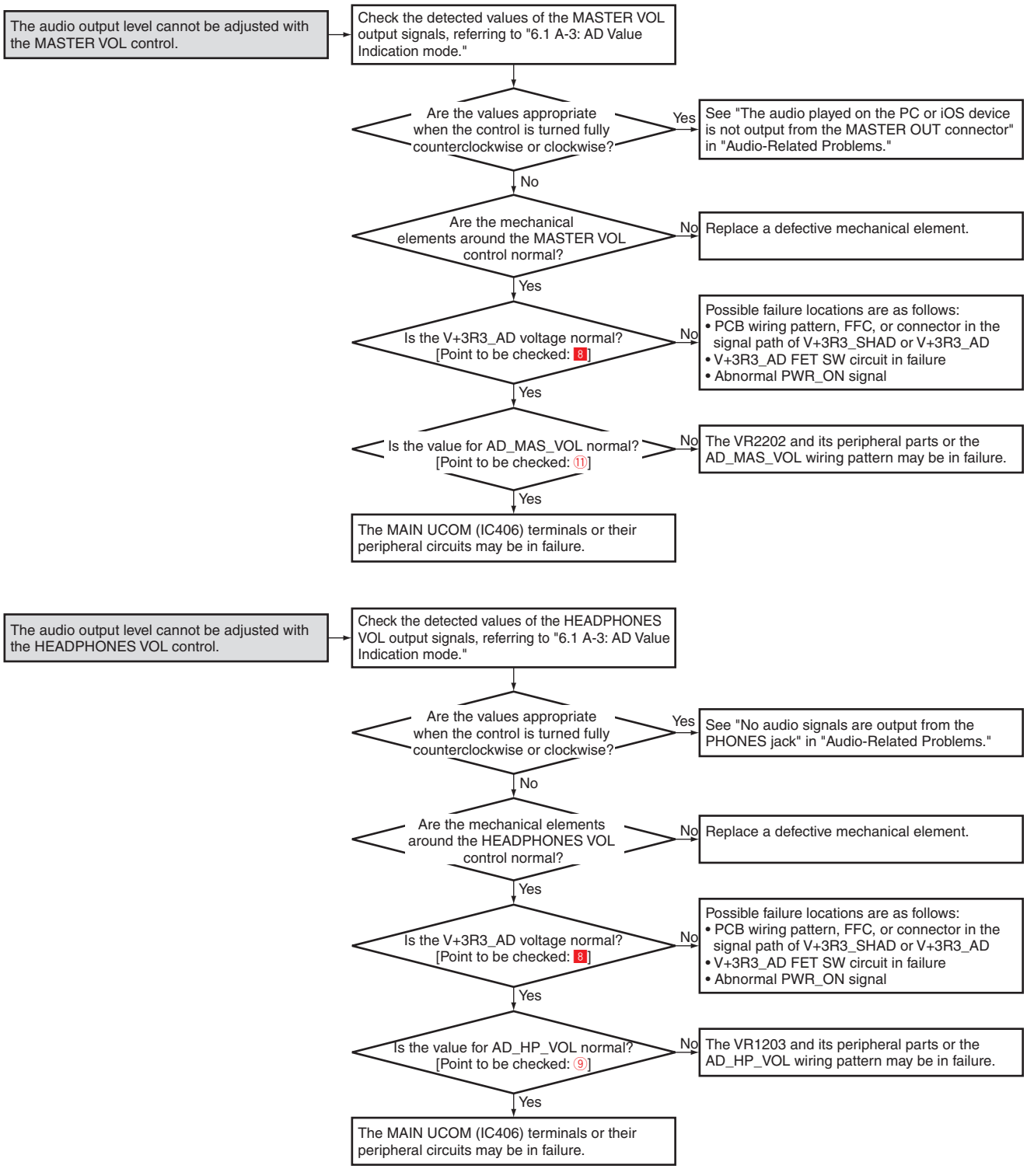
        [Point to be checked: 47]

        Check the waveform (LED_**) of the signal after the LED low-side drive circuit.
        If the waveform is abnormal, the possible causes are as follows:
        - Defective LED low-side drive circuit (transistors or resistors)
        - Defective resistors or wiring patterns in the LED_0-6_** signal line
      - No → Multiple LEDs and their peripheral parts may be in failure:
        - LED in failure
        - Series resistors for the LEDs in failure
        - PCB wiring patterns or jumpers for the LEDs in failure

Operation-Related Problems




No response when any button (key) is pressed
Identify a button (key) that cannot be operated, referring to "A-2 LED Confirmation mode" of "6.1 TEST MODE."
Yes
Are all buttons (keys) controlled with the same GRID signal (GRID_**) abnormal?
Yes
The UCOM terminals for GRID_** or their peripheral circuits, or the GRID_** wiring pattern may be in failure.
No
Are all buttons (keys) controlled with the same KEY signal (KEY_**) abnormal?
Yes
The UCOM terminals for KEY_** or their peripheral circuits, or the KEY_** wiring pattern may be in failure.
No
Possible failure locations are as follows:
• A mechanical element of the abnormal button (key)
• An electrical part or the peripheral circuit of the abnormal button (key)
• A wiring pattern of the abnormal button (key)
Rotary selector not controllable
Identify a button (key) that cannot be operated, referring to "A-2 LED Confirmation mode" of "6.1 TEST MODE."
Yes
Is the signal line (ROTALY_ENC0/1) abnormal while the rotary selector is rotated?
[Point to be checked: 28, 29]
Yes
The S1218 and its peripheral parts may be in failure.
No
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.
VRs or sliders not controllable
Is the mechanical element in question normal?
No
Replace a defective mechanical element.
Yes
Is the V+3R3_AD voltage normal?
[Point to be checked: 8]
No
Possible failure locations are as follows:
• PCB wiring pattern, FFC, or connector in the signal path of V+3R3_SHAD or V+3R3_AD
• V+3R3_AD FET SW circuit in failure
• Abnormal PWR_ON signal
Yes
Is the voltage at each signal line normal when the corresponding VR is turned or the corresponding fader/slider is operated?
No
Possible failure locations are as follows:
• Defective VRs, fader, or sliders
• 39-pin or 15-pin FFC (between MAIN and PNL1B or MAIN and PNL2B)
• 39-pin or 15-pin FFC connectors (CN102, CN2002, CN101, CN1002, CN103, CN1001)
• Jumper connection between PNL1B to CRFD
Yes
Is the MUX_SW_A/B/C waveform normal?
[Point to be checked: 12, 13, 14]
No
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.
Yes
Are the AD_MUX_1 and AD_MUX_2 waveforms normal?
[Point to be checked: 10, 15]
No
IC411 or IC412 or their peripheral circuits may be in failure.
Yes
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.


The audio output level cannot be adjusted with the MASTER VOL control.
Check the detected values of the MASTER VOL output signals, referring to "6.1 A-3: AD Value Indication mode."
Are the values appropriate when the control is turned fully counterclockwise or clockwise?
Yes
See "The audio played on the PC or iOS device is not output from the MASTER OUT connector" in "Audio-Related Problems."
No
Are the mechanical elements around the MASTER VOL control normal?
No
Replace a defective mechanical element.
Yes
Is the V+3R3_AD voltage normal? [Point to be checked: 8]
No
Possible failure locations are as follows:
• PCB wiring pattern, FFC, or connector in the signal path of V+3R3_SHAD or V+3R3_AD
• V+3R3_AD FET SW circuit in failure
• Abnormal PWR_ON signal
Yes
Is the value for AD_MAS_VOL normal? [Point to be checked: ⑪]
No
The VR2202 and its peripheral parts or the AD_MAS_VOL wiring pattern may be in failure.
Yes
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.
The audio output level cannot be adjusted with the HEADPHONES VOL control.
Check the detected values of the HEADPHONES VOL output signals, referring to "6.1 A-3: AD Value Indication mode."
Are the values appropriate when the control is turned fully counterclockwise or clockwise?
Yes
See "No audio signals are output from the PHONES jack" in "Audio-Related Problems."
No
Are the mechanical elements around the HEADPHONES VOL control normal?
No
Replace a defective mechanical element.
Yes
Is the V+3R3_AD voltage normal? [Point to be checked: 8]
No
Possible failure locations are as follows:
• PCB wiring pattern, FFC, or connector in the signal path of V+3R3_SHAD or V+3R3_AD
• V+3R3_AD FET SW circuit in failure
• Abnormal PWR_ON signal
Yes
Is the value for AD_HP_VOL normal? [Point to be checked: ⑨]
No
The VR1203 and its peripheral parts or the AD_HP_VOL wiring pattern may be in failure.
Yes
The MAIN UCOM (IC406) terminals or their peripheral circuits may be in failure.

5.3 DETECTION OF ABNORMAL POWER-SUPPLY VOLTAGES

① A circuit for detecting abnormal voltage from the AC adapter is provided with this unit and will shut the unit off immediately after an error is detected.

- **Content to be monitored**

  Any voltage abnormality, such as a voltage drop or voltage rise in power supplied from the AC adapter
  Power to be monitored: V+12_D, V+12_SW

- **Detection terminal and its terminal voltage**

  V+5_ADP
  Normal: HI (5 V)
  For detecting an error (V+12_D: 9.1 V or less): LOW (0 V)
  V+12_D
  Normal: HI (16.6 V or less)
  For detecting an error (V+12_SW16.6 V or higher): LOW (0 V)

- **Timing of monitoring start**

  For detecting an error (V+12_D: 9.1 V or less): Immediately after power is supplied from the AC adapter
  For detecting an error (V+12_SW: 16.6 V or higher) : Immediately after power is supplied from the AC adapter

- **Timing upon judgment as a failure**

  For detecting an error (V+12_D: 9.1 V or less): Immediately after an error was detected
  For detecting an error (V+12_SW: 16.6 V or higher): Immediately after an error was detected

- **LED indication when an error is generated**

  All LEDs are unlit.

- **Restoration method**

  If the unit shuts itself off because of error detection, after completing diagnosis disconnect the AC adapter and USB cable from the unit then turn the unit back on after a while.

- **Diagnostic procedure**

  Follow the instructions in "5.2 TROUBLESHOOTING."

② A circuit for detecting abnormal voltage from the 12-V-to-5-V DC-DC converter or the USB-bus power is provided with this unit and will shut the unit off immediately after an error is detected.

- **Content to be monitored**

  Any voltage abnormality, such as a voltage drop or voltage rise in power supplied from the 12-V-to-5-V DC-DC converter or USB-bus
  Power to be monitored: V+5_SEL

- **Detection terminal and its terminal voltage**

  TP terminal of V_DET signal on the MAIN Assy or IC406 (MAIN UCOM)-pin 108 (V_DET terminal) on the MAIN Assy
  Normal: HI (3.3 V)
  For detecting an error (4.3 V or less): LOW (0 V)

- **Timing of monitoring start**

  For detecting an error (4.3 V or less): 250 msec after power-on

- **Timing upon judgment as a failure**

  For detecting an error (4.3 V or less): 1 msec after an error is detected

- **LED indication when an error is generated**

  All LEDs are unlit.

- **Restoration method**

  If the unit shuts itself down because of failure, perform diagnosis, disconnect the AC adapter and the USB cable, then after a while turn the unit back on again.

- **Diagnostic procedure**

  Follow the instructions in "5.2 TROUBLESHOOTING."

③ A circuit for detecting abnormal voltage supplied to the microcomputer is provided with this unit and will shut the unit off immediately after an error is detected.

• Content to be monitored

Any voltage abnormality, such as a voltage rise in power supplied to the microcomputer
Power to be monitored: V+3R3_ERP, V+1R25_ERP

Note: For the values of voltages to be detected, see "10.2 MAIN ASSY (2/4)."

• Detection terminal and its terminal voltage

TP terminal of FAULT_DET2 signal on the MAIN Assy
Normal: LOW (0 V)
For detecting an error: HI (5 V)

• Timing of monitoring start

For detecting an error: Immediately after power is supplied

• Timing upon judgment as a failure

For detecting an error: Immediately after power is supplied

• LED indication when an error is generated

All LEDs are unlit.

• Restoration method

If the unit shuts itself down because of failure, perform diagnosis, disconnect the AC adapter and the USB cable, then after a while turn the unit back on again.

• Diagnostic procedure

Follow the instructions in "5.2 TROUBLESHOOTING."

④ The microcomputer of this unit always monitors various power voltages and will shut the unit off immediately after an error is detected.

• Content to be monitored

A voltage abnormality, such as a voltage drop or voltage rise in any of the various power-supply ICs in the MAIN Assy
Power to be monitored: V+7, V-6, V+5_A, V+5_HP, V+3R3_D

Note: For the values of voltages to be detected, see "10.2 MAIN ASSY (2/4)."

• Detection terminal and its terminal voltage

TP terminal of FAULT_DET signal on the MAIN Assy or IC406 (MAIN UCOM)-pin 107 (FAULT_DET input terminal)
Normal: HI (3.3 V)
For detecting an error: LOW (0 V)

• Timing of monitoring start

1100 msec after power-on

• Timing upon judgment as a failure

40 msec after an error is detected

• LED indication when an error is generated

If an error is detected, the STANDBY/ON indicator flashes and all other LEDs become unlit.

• Restoration method

If the unit shuts itself down because of failure, perform diagnosis, disconnect the AC adapter and the USB cable, then after a while turn the unit back on again.

• Diagnostic procedure

Follow the instructions in "5.2 TROUBLESHOOTING."

5.4 OPERATION CHECK WITH Serato DJ Intro

[Installation of Serato DJ Intro]

A brief explanation of how to install Serato DJ Intro on a PC is given below. For details, refer to the operating instructions of the software.
If the OS of the PC to be used is Windows, install the driver software that enables audio output from the PC beforehand.
The operating environment of the PC required for installation of Serato DJ Intro is shown below.

System requirements

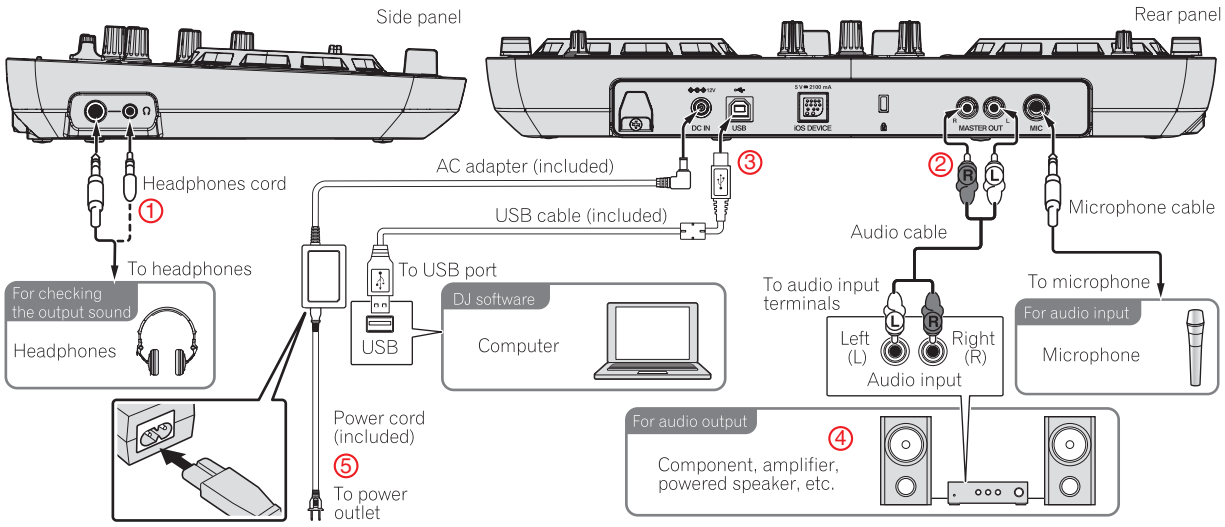
Supported operating systems	CPU and required memory
Mac OS X: 10.9, 10.8, 10.7 and 10.6	Intel® processor, Core™ Duo 1.6 GHz or better Intel® processor, Core™ i3, i5, or i7
	1 GB or more of RAM
Windows: Windows 8.1/8 and Windows 7 (SP1)	Intel® processor, Core™ 2 Duo 2.0 GHz or better
	1 GB or more of RAM

Others	
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
Internet connection	An Internet connection is required for registering the "Serato.com" user account and downloading the software.

- For the latest information on the required operating environment and compatibility as well as to acquire the latest operating system, refer to "Software Info" under "DDJ-WEGO3" on the Pioneer DJ support site below.
  http://pioneerdj.com/support/
- Operating System support assumes you are using the latest point release for that version.

For the latest version of the Serato DJ Intro software, access Serato.com and download the software from there.
For downloading, registration of a user account at "Serato.com" is required.
Unzip the downloaded file, then double-click the unzipped file to launch the installer.
Read the terms of the license agreement carefully, and if you agree, select [I agree to the license terms and conditions], then click [Next].
After installation is completed, the Installation Completed screen will be displayed. Click on [Finish] to terminate the Serato DJ Intro installer.

[Connections]



[Operating procedures]

① Connect headphones to one of the [HEADPHONES] terminals.
② Connect such devices as a power amplifier, powered speakers, etc., to the [MASTER OUT] terminals.
③ Connect this unit to your computer via a USB cable.
④ Turn on the power of the devices connected to the output terminals (power amplifier, powered speakers, etc.).
⑤ Connect supplied AC adapter, and insert power cord in an outlet last.
⑥ Turn on the computer' s power.
⑦ After the startup illumination ends, press the [STANDBY/ON] button on the unit to turn on the power.

Starting the system

For Windows 7

From the Windows [Start] menu, click the [Serato DJ Intro] icon under [All Programs] > [Serato] > [DJ Intro].

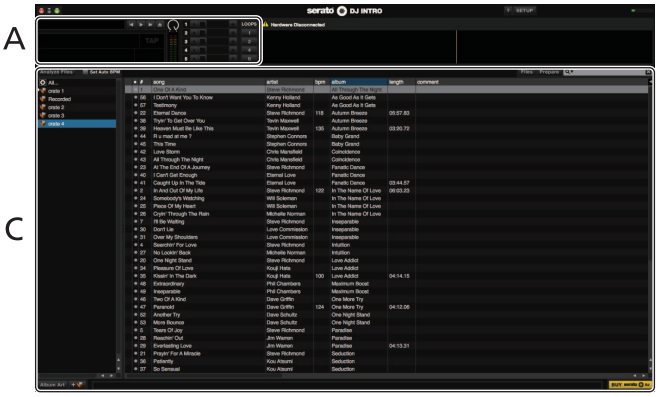
For Windows 8

From [Apps view], click the [Serato DJ Intro] icon.

For Mac OS X

In Finder, open the [Applications] folder, then click the [Serato DJ Intro] icon.

Computer screen directly after the Serato DJ Intro software is launched



A: Deck section
C: Browser section

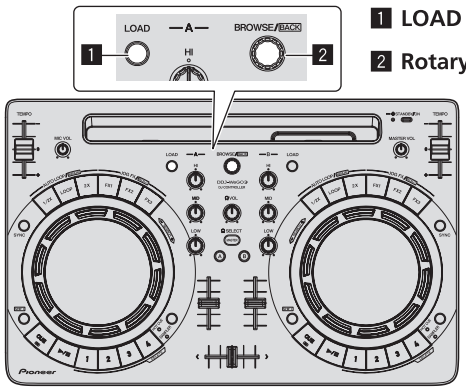
Importing tracks

① Click the [Files] key on the Serato DJ Intro software screen to open the [Files] panel.
② Click the folder on the [Files] panel containing the tracks you want to add to the library to select it.
③ On the Serato DJ Intro software screen, drag and drop the selected folder to the crates panel.

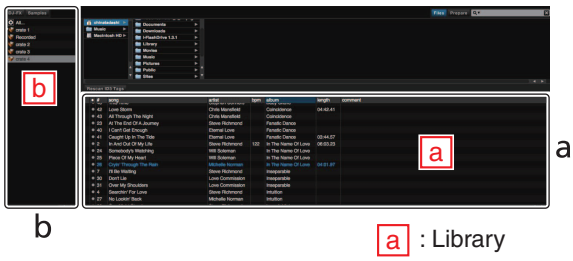
a : [Files] panel
b : Crates panel

Loading tracks and playing them

① Press the rotary selector, move the cursor to the library on the computer' s screen, then turn the rotary selector and select the track.
② Press the [LOAD] button to load the selected track onto the deck.



1 LOAD button
2 Rotary selector



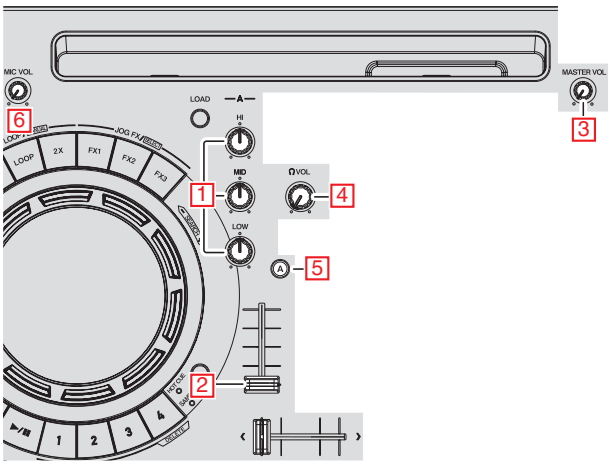
a : Library
b : Crates panel

Playing tracks and outputting the sound

① Set the positions of the controls, etc., as shown below.

Names of controls, etc.		Position
EQ (**HI**, **MID**, **LOW**) controls	1	Center
Channel fader	2	Moved forward
MASTER VOL control	3	Turned fully counterclockwise

② Press the [▶/❚❚] play/pause button to play the track.



③ Move the channel fader (2) away from you.
④ Turn the [MASTER VOL] control (3) to adjust the audio level of the speakers.

Monitoring sound with headphones

Names of controls, etc.		Position
HEADPHONES VOL control	4	Turned fully counterclockwise

① Press the [HEADPHONES SELECT A] button (5).
② Turn the [HEADPHONES VOL] control (4).

Inputting the sound of the microphone

① Connect the microphone to the [MIC] terminal.
② Turn the [MIC VOL] control (6), adjust the audio level input to the [MIC] terminal .

5.5 IC INFORMATION

■ R5S72670P144FP (MAIN ASSY: IC406)

MAIN UCOM

• Pin Function

No.	Pin Name	DDJ-WeGO3	I/O	Function
1	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
2	PG18/LCD_DE/TIOC2A/RxD3/xRTS1	PG18	O	GRID control (GRID_3)
3	Vss	Vss	GND	GND pin
4	PB1/A1/LCD_HSYNC	PB1	O	GRID control (GRID_6)
5	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
6	PB2/A2/LCD_VSYNC	PB2	O	GRID control (GRID_7)
7	PB3/A3/LCD_DATA15	NC	O	No used (OPEN)
8	PB4/A4/TIOC0A/LCD_DATA14	NC	O	No used (OPEN)
9	PG9/LCD_DATA9/SSIRxD0/TxD4/SIOFSYNC	PG9	O	GRID control (GRID_4)
10	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
11	PG8/LCD_DATA8/SSITxD0/RxD4/SIOFSCK	PG8	O	GRID control (GRID_5)
12	Vss	Vss	GND	GND pin
13	PB5/A5/TIOC0B/LCD_DATA13	PB5	I	KEY detection (KEY_0)
14	PB6/A6/TIOC0C/LCD_DATA12	PB6	I	KEY detection (KEY_1)
15	PB7/A7/TIOC0D/LCD_DATA11	PB7	I	KEY detection (KEY_2)
16	PB8/A8/TIOC1A/LCD_DATA10	PB8	O	LED segment control (LED_6)
17	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
18	PB9/A9/TIOC1B/LCD_DATA9	NC	O	No used (OPEN)
19	Vss	Vss	GND	GND pin
20	PB10/A10/TIOC2A/LCD_DATA8	PB10	I	"BROWSE" rotary encoder detection0 (ROTARY_ENC0)
21	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
22	PB11/A11/TIOC2B/LCD_DATA7	PB11	I	"BROWSE" rotary encoder detection1 (ROTARY_ENC1)
23	PB12/A12/TIOC3A/LCD_DATA6	TIOC3A	O	LED segment control_PWM (LED_8)
24	PB13/A13/TIOC3B/LCD_DATA5	PB13	I	KEY detection (KEY_3)
25	PB14/A14/TIOC3C/LCD_DATA4	TIOC3C	O	LED segment control_PWM (LED_9)
26	PB15/A15/TIOC3D/LCD_DATA3	PB15	I	KEY detection (KEY_4)
27	PG7/LCD_DATA7/SD_CD/PINT7/IRQ7	PG7	I	JOG touch detection1 (JOG_TCH1)
28	PG6/LCD_DATA6/SD_WP/PINT6/IRQ6	PG6	I	JOG touch detection2 (JOG_TCH2)
29	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
30	PG5/LCD_DATA5/SD_D1/PINT5/IRQ5	IRQ5	I	AC adapter detection (ADP_PLUG_DET)
31	Vss	Vss	GND	GND pin
32	PG4/LCD_DATA4/SD_D0/PINT4/IRQ4	IRQ4	I	POWER SW detection (PWR_SW)
33	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
34	PB16/A16/TIOC4A/LCD_DATA2	TIOC4A	O	LED segment control_PWM (LED_7)
35	PB17/A17/TIOC4B/LCD_DATA1/SCK1	PB17	O	iOS charge control (PWR_ON2)
36	PB18/A18/TIOC4C/LCD_DATA0/TxD1	TIOC4C	O	LED segment control_PWM (LED_10)
37	PB19/A19/TIOC4D/RxD1	PB19	O	Power ON control (PWR_ON)
38	PB20/A20/SPDIF_IN/SCK4	PB20	O	DEBUG LED1 → No used (OPEN)
39	PB21/A21/SPDIF_OUT/TxD4	PB21	O	DEBUG LED2 → No used (OPEN)
40	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
41	CKIO	NC (CKIO)	O	No used (OPEN)
42	Vss	Vss	GND	GND pin
43	PB22/A22/xCS4/RxD4	PB22	O	Power supply control for TOUCH UCOM (PWR_ON3)
44	NMI	NMI	I	No used (Pull UP)
45	PLLVcc	PLLVcc	PWR	Power supply pin (for analog PLL +1.25 V)
46	xRES	xRES	I	UCOM RESET pin
47	PLLVss	PLLVss	GND	GND pin (for analog PLL)
48	PA0/MD_CLK	PA0/MD_CLK	I	MODE setting pin (Pull UP)
49	PA1/MD_BOOT0	PA1/MD_BOOT0	I	MODE setting pin (Pull UP)
50	EXTAL	NC (EXTAL)	I	No used (GND)
51	XTAL	NC (XTAL)	O	No used (OPEN)
52	PG3/LCD_DATA3/SD_CLK/PINT3	NC	O	No used (OPEN)
53	PG2/LCD_DATA2/SD_CMD/PINT2	NC	O	No used (OPEN)
54	PG1/LCD_DATA1/SD_D3/PINT1	PG1	O	Hi side sw control
55	PG0/LCD_DATA0/SD_D2/PINT0	PG0	I	Hi side sw fault detection
56	Vss	Vss	GND	GND pin
57	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
58	PG20/LCD_EXTCLK/SCK1	PG20	O	USB multiplexer control (PC_iOS_SEL)
59	Vss	Vss	GND	GND pin
60	RTC_X1	NC (RTC_X1)	I	No used (GND)

• Pin Function

No.	Pin Name	DDJ-WeGO3	I/O	Function
61	RTC_X2	NC (RTC_X2)	O	No used (OPEN)
62	PA2/MD_BOOT1	PA2/MD_BOOT1	I	MODE setting pin (Pull UP)
63	USB_X1	USB_X1	I	Clock (48 MHz)
64	USB_X2	USB_X2	O	Clock (48 MHz)
65	xASEMD	xASEMD	I	Debugging pin
66	USBDPVcc	USBDPVcc	PWR	Power supply pin (for USB +3.3 V)
67	USBDPVss	USBDPVss	GND	GND pin (for USB GND)
68	DM	DM	I/O	USB D- data
69	DP	DP	I/O	USB D+ data
70	VBUS	VBUS	I	USB connect to monitor pin.
71	USBDVcc	USBDVcc	PWR	Power supply pin (for USB core +1.25 V)
72	USBDVss	USBDVss	GND	GND pin (for USB core GND)
73	REFRIN	REFRIN	I	Reference resistor connect pin (for USB)
74	USBAPVss	USBAPVss	GND	GND pin (for USB GND)
75	USBAPVcc	USBAPVcc	PWR	Power supply pin (for USB +3.3 V)
76	USBAVcc	USBAVcc	PWR	Power supply pin (for USB core +1.25 V)
77	USBAVss	USBAVss	GND	GND pin (for USB core GND)
78	USBUVcc	USBUVcc	PWR	Power supply pin (for USB 480 MHz operation +1.25 V)
79	USBUVss	USBUVss	GND	GND pin (for USB USB 480 MHz operation GND)
80	PH0/AN0	AN0	I	Analog input (AD_CROSS_FADER)
81	PH1/AN1	AN1	I	Analog input (AD_CH1_FADER)
82	PH2/AN2	AN2	I	Analog input (AD_CH2_FADER)
83	PH3/AN3	AN3	I	Analog input (AD_MUX_1)
84	Avss	AVss	GND	GND pin (for analog)
85	PH4/AN4	AN4	I	Analog input (AD_MUX_2)
86	Avref	AVref	PWR	Power supply pin (for analog reference +3.3 V)
87	PH5/AN5	AN5	I	Reduced voltage detection (V_DET_AD) →No used (OPEN)
88	Avcc	AVcc	PWR	Power supply pin (for analog +3.3 V)
89	xTRST	xTRST	I	Debugging pin
90	xASEBRKAK/xASEBRK	xASEBRKAK/xASEBRK	I/O	Debugging pin
91	TDO	TDO	O	Debugging pin
92	TDI	TDI	I	Debugging pin
93	TMS	TMS	I	Debugging pin
94	TCK	TCK	I	Debugging pin
95	AUDIO_X2	AUDIO_X2	O	Clock (24.576 MHz)
96	AUDIO_X1	AUDIO_X1	I	Clock (24.576 MHz)
97	PG24/MISO1/TIOC0D	PG24	O	multiplexer control A (MUX_SW_A)
98	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
99	PG23/MOSI1/TIOC0C	PG23	O	multiplexer control B (MUX_SW_B)
100	Vss	Vss	GND	GND pin
101	PG22/SSL10/TIOC0B	TIOC0B	I	JOG rotation detection for production 1_0 (JOG_DIAL1_0)
102	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
103	PG21/RSPCK1/TIOC0A	TIOC0A	I	JOG rotation detection for production 2_1 (JOG_DIAL2_1)
104	PJ3/CRx1/CRx0/CRx1/IRQ1/AUDIO_XOUT/xWDTOVF	AUDIO_XOUT	O	MCLK output (MCLK)
105	PJ2/CTx1/CTx0&CTx1/xCS2/SCK0/LCD_M_DISP	PJ2	O	multiplexer control C (MUX_SW_C)
106	PJ1/CRx0/IERxD/IRQ0/RxD0	IRQ0	O	JOG rotation detection for production 2_0 (JOG_DIAL2_0)
107	PJ0/CTx0/IETxD/xCS1/TxD0/A0	PJ0	I	Abnormal voltage detection (FAULT DET)
108	PF8/CE2B/SSIDATA2/DV_CLK/SD_CD	PF8	I	Reduced voltage detection (V_DET)
109	PF7/CE2A/SSIWS2/DV_DATA7/TCLKD/SD_WP	TCLKD	I	JOG rotation detection2_1 (JOG_DIAL2_1)
110	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
111	PF6/xCS6/xCE1B/SSISCK2/DV_DATA6/TCLKB/SD_D1	TCLKB	I	JOG rotation detection1_0 (JOG_DIAL1_0)
112	Vss	Vss	GND	GND pin
113	PF5/xCS5/xCE1A/SSIDATA1/DV_DATA5/TCLKC/SD_D0/AUDATA3	TCLKC	I	JOG rotation detection2_0 (JOG_DIAL2_0)
114	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
115	PF4/xICIOWR/xAH/SSIWS1/DV_DATA4/TxD3/SD_CLK/AUDATA2	PF4	O	HEADPHONES_DAC control (H_DAC_CS)
116	PF3/xICIORD/SSISCK1/DV_DATA3/RxD3/SD_CMD/AUDATA1	PF3	O	DAC control (DAC_xRST)
117	PF2/xBACK/DV_DATA2/TxD2/DACK0/SD_D3/AUDATA0	TxD2	O	DAC control (DAC_CDTI)
118	PF1/BREQ/DV_DATA1/RxD2/DREQ0/SD_D2/xAUDSYNC	PF1	O	MASTER_DAC control (M_DAC_CS)
119	PF0/xWAIT/DV_DATA0/SCK2/TEND0/AUDCK	SCK2	O	DAC control (DAC_CCLK)
120	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)

• Pin Function

No.	Pin Name	DDJ-WeGO3	I/O	Function
121	PG17/LCD_HSYNC/TIOC1B/TxD1	PG17	O	Flash/I2S select signal (FLASH_I2S_SEL)
122	Vss	Vss	GND	GND pin
123	PG16/LCD_VSYNC/TIOC1A/RxD1	PG16	O	Connect to serial FLASH (FLASH1_WP)
124	PF12/xBS/MISO0/TIOC3D/SPDIF_OUT/QMI/QIO1	MISO0	I	Connect to serial FLASH (FLASH1_MISO)
125	PF11/A25/SSIDATA3/MOSI0/TIOC3C/SPDIF_IN/QMO/QIO0	MOSI0	O	Connect to serial FLASH&I2S (FLASH_MOSI_HPDATA)
126	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
127	PF10/A24/SSIWS3/SSL00/TIOC3B/xFCE/QSSL	SSL00	O	Connect to serial FLASH&I2S (FLASH_CS_LRCK)
128	Vss	Vss	GND	GND pin
129	PF9/A23/SSISCK3/RSPCK0/TIOC3A/FRB/QSPCLK	RSPCK0	O	Connect to serial FLASH&I2S (FLASH_SCLK_BCK)
130	Vcc	Vcc	PWR	Power supply pin (for core +1.25 V)
131	PD15/D15/NAF7/PWM2H/QIO3	PD15	O	Serial FLASH CS control (FLASH_CS_EN)
132	PD14/D14/NAF6/PWM2G/QIO2	PD14	O	MFI (RESET)
133	PE5/SDA2/DV_HSYNC	SDA2	I/O	MFI (SDA)
134	PE4/SCL2/DV_VSYNC	SCL2	O	MFI (SCK)
135	PE3/SDA1/IRQ3	SDA1	I/O	EEPROM (SDA) → No used (OPEN)
136	PE2/SCL1/IRQ2	SCL1	O	EEPROM (SCK) → No used (OPEN)
137	PE1/SDA0/ xIOIS16/IRQ1/TCLKA/xADTRG/LCD_EXTCLK	TCLKA	I	JOG rotation detection1_1 (JOG_DIAL1_1)
138	PE0/SCL0/AUDIO_CLK/IRQ0	NC	O	No used (Pull down)
139	PD13/D13/NAF5/PWM2F	NC	O	No used (OPEN)
140	PD12/D12/NAF4/PWM2E	PD12	O	No used (Pull down)
141	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
142	PD11/D11/NAF3/PWM2D	NC	O	No used (OPEN)
143	Vss	Vss	GND	GND pin
144	PD10/D10/NAF2/PWM2C	NC	O	No used (OPEN)
145	PD9/D9/NAF1/PWM2B	PD9	O	iOS Device host control 30pin (xiAP_EN)
146	PD8/D8/NAF0/PWM2A	PD8	I	No used (Pull down)
147	PD7/D7/xFWE/PWM1H	NC	O	No used (OPEN)
148	PD6/D6/FALE/PWM1G	PD6	O	STANDBY/ON indicator Red (PWR_IND_R)
149	PD5/D5/FCLE/PWM1F	PD5	O	STANDBY/ON indicator Green (PWR_IND_G)
150	PG15/LCD_DATA15/TIOC0D/TxD7	TIOC0D	O	LED segment control_PWM (LED_2)
151	PG14/LCD_DATA14/TIOC0C/RxD7	TIOC0C	O	LED segment control_PWM (LED_3)
152	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
153	Vss	Vss	GND	GND pin
154	PG13/LCD_DATA13/TIOC0B/TxD6	PG13	O	LED segment control (LED_0)
155	PG12/LCD_DATA12/TIOC0A/RxD6	PG12	O	LED segment control (LED_1)
156	PD4/D4/xFRE/PWM1E	NC	O	No used (OPEN)
157	PD3/D3/PWM1D	NC	O	No used (OPEN)
158	PD2/D2/PWM1C	NC	O	No used (OPEN)
159	PD1/D1/PWM1B	PD1	O	MUTE control for MASTER_DAC (A_MUTE)
160	PD0/D0/PWM1A	PD0	O	MUTE control for HP_DAC (HP_MUTE)
161	PC0/xCS0/SSIWS0	PC0	O	MUTE control for HPAMP (HPAMP_MUTE)
162	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
163	PC1/xRD/SSISCK0	NC	O	No used (OPEN)
164	Vss	Vss	GND	GND pin
165	PC2/RD/xWR/SSIRxDO	PC2	O	GRID control (GRID_0)
166	PC3/xWE0/DQML/SSITxD0	SSITxD0	O	I2S (M_DAC_DATA)
167	PC4/xWE1/DQMU/xWE	PC4	O	GRID control (GRID_1)
168	PC5/xRAS/TIOC4A/IRQ4	PC5	O	LED segment control (LED_4)
169	PG11/LCD_DATA11/SSIWS0/IRQ3/TxD5/SIOFTxD	SSIWS0	O	I2S (M_DAC_LRCK)
170	PVcc	PVcc	PWR	Power supply pin (for IO +3.3 V)
171	PG10/LCD_DATA10/SSISCK0/IRQ2/RxD5/SIOFRxD	SSISCK0	O	I2S (M_DAC_BCK)
172	Vss	Vss	GND	GND pin
173	PC6/xCAS/TIOC4B/IRQ5	IRQ5	I	iOS Device detection_lightning (ACC_PWR)
174	PC7/CKE/TIOC4C/IRQ6	PC7	O	LED segment control (LED_5)
175	PC8/xCS3/TIOC4D/IRQ7	IRQ7	I	iOS Device detection_30pin (DEVICE_DET)
176	PG19/LCD_CLK/TIOC2B/TxD3/xCTS1	PG19	O	GRID control (GRID_2)

6. SERVICE MODE
6.1 TEST MODE

The outline in the Test mode

The following test modes are prepared for this unit.

A-1 Version Display mode
Mode for indicating the firmware version

A-2 LED Confirmation mode
Mode for checking if all LEDs can be unlit, lit, or dimly lit and if the buttons and jog dials can operate properly

A-3 AD Value Indication mode
Mode for indicating AD values of the controls and faders

A-4 AD-Value Change Confirmation mode
Mode for checking if the AD-value changes of the variable controls are within the proper ranges

A-5 Factory Reset mode
Mode for resetting user settable data stored in this unit to factory default

B-1 Mode for Measurements of Time Required for the Jog Dial to Slow Down
Mode for measuring time required for the Jog dial to slow down to judge if the load on it is proper

B-2 Failure Judgment of Attachment of the Photointerrupters
Mode for judging if the photointerrupters have been attached properly

C-1 Connection Confirmation mode with the Lightning/30-pin Cable

How to Operate in Test Mode

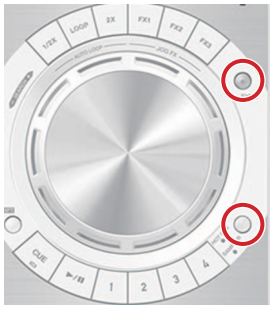
Test mode consists of the following three modes:
Test modes A, B, and C.

[How to Enter Test Mode A]

While holding the SYNC and SHIFT buttons on Deck A pressed, turn the unit ON.

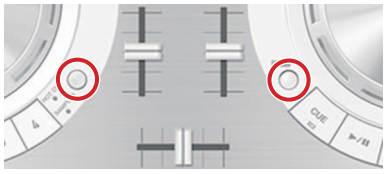
[How to Enter Test Mode B]

While holding the SYNC and HOT CUE/SAMPLER mode switching buttons on Deck B pressed, turn the unit ON.



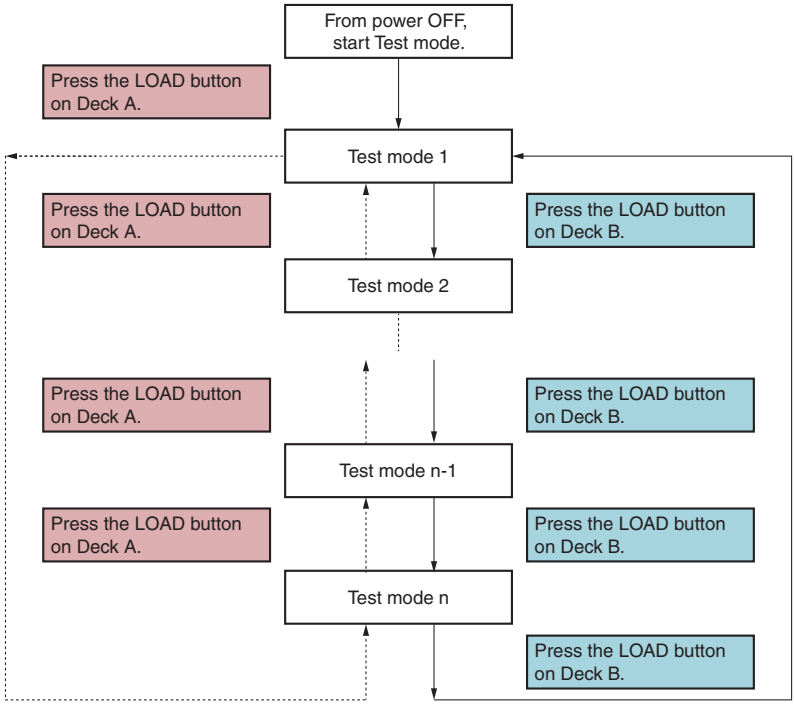
[How to Enter Test Mode C]

While holding the HOT CUE/SAMPLER mode switching button on Deck A and the SHIFT button on Deck B pressed, turn the unit ON.



[How to Change Pages in Test Mode]

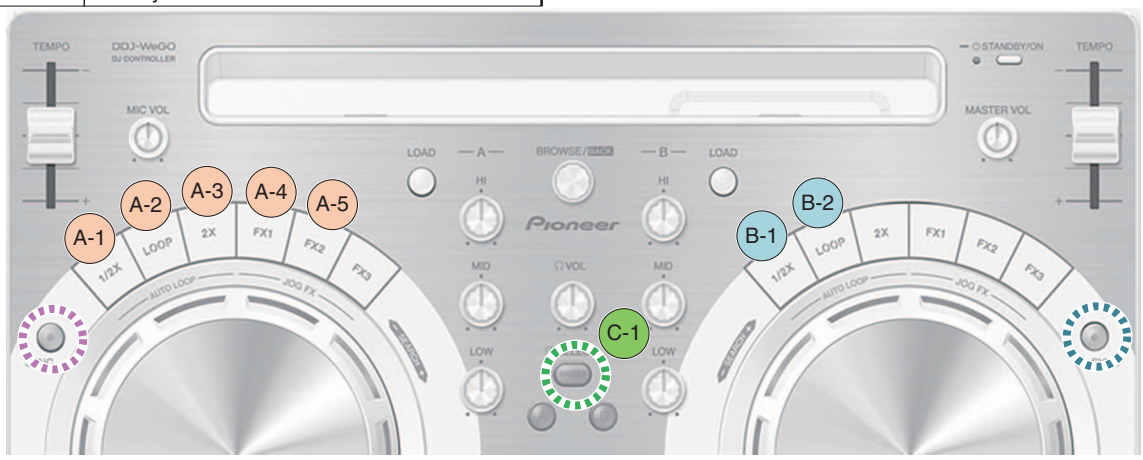
To return to the previous page, press the LOAD button on Deck A. To go to the next page, press the LOAD button on Deck B.
This method is common to Test modes A and B.



[Page Position Indication in Test Mode]

When a new page is displayed with use of the LOAD button, the LED corresponding to the displayed page flashes 1–2 seconds. At the same time, the SYNC button corresponding to Test mode A or B flashes.
Start operation in each mode after flashing of the LED and the button finishes and they are unlit.

Page No., LED	Page name	Page No., LED	Page name
A-1	Version Display mode	B-1	Mode for Measurements of Time Required for the Jog Dial to Slow Down
A-2	LED Confirmation mode		
A-3	AD Value Indication mode	B-2	Failure Judgment of Attachment of the Photointerrupters
A-4	AD-Value Change Confirmation mode	C-1	Connection Confirmation mode with the Lightning/30-pin Cable
A-5	Factory Reset mode		



[Detection of Wrong TOUCH UCOM]

If the mounted TOUCH UCOM is not the one for the unit, the LEDs of the jog dial flash in red immediately after Test mode A, B, or C is entered to alert you of it. In such a case, to cancel the caution indication, hold the rotary selector pressed at least 5 seconds. Then, you can proceed to Test mode.

Note: If this phenomenon is exhibited in Service mode, replace TOUCH UCOM (IC1201 or IC2201) with the appropriate part.
Part number of the appropriate TOUCH UCOM: DYW1849

Details on Each Mode of Test Mode

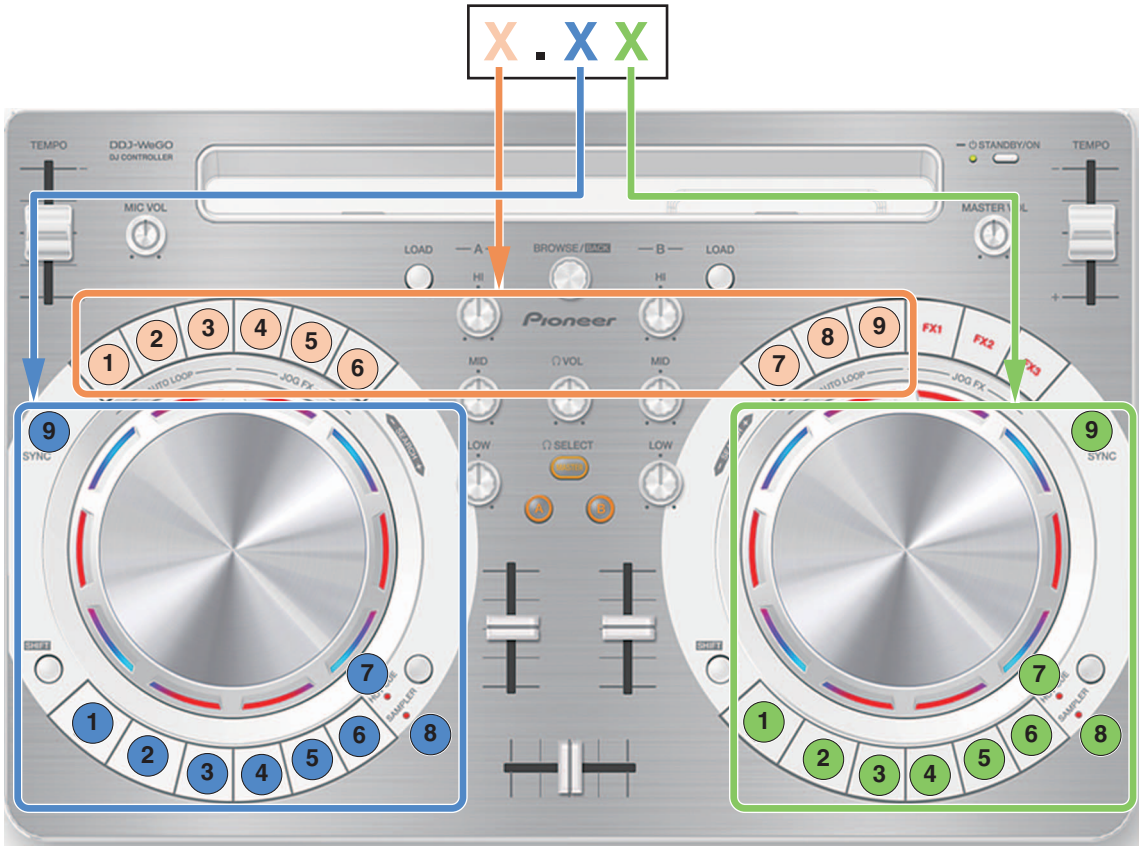
[A-1: Version Display mode]

• Overview

This mode is for displaying the version of the firmware, using the upper and lower LEDs of the jog dial.

• How to Confirm

The number of lit LEDs denotes the version number, as shown in the figure below.
If all the nine LEDs corresponding to a digit are unlit, it denotes zero.
The expressible version number ranges from 0.00 to 9.99.



[A-2: LED Confirmation mode]

• Overview

This mode is for checking if all LEDs on the panel can be unlit, lit, or dimly lit.
It is also confirmed if the buttons and jog dials can operate properly.

• How to Confirm

This mode has the following three statuses:
1. All LEDs unlit
2. All LEDs lit
3. All LEDs dimly lit
   (The intensity is reduced to 20% of that when all LEDs are lit, with the exception of the SYNC, MASTER, A, B, and HOT CUE 1–4 buttons, whose intensity is reduced to 10%.)

To switch the three statuses from 1 (initial display) to 3 to 1 cyclically, turn the rotary selector one click.

1. All LEDs unlit

First check that all LEDs are unlit.
Then check that an operating element can operate properly, by operating the corresponding element.
The operating elements that can be confirmed are those located on the upper and front panels (Fig. 2-1).
Each time an operating element is touched, the corresponding LED must light (Table 2-1).
If the corresponding LED lights, it will be OK.

Fig. 2-1: List of operating elements whose operation can be confirmed in this mode
The operations of the numbered operating elements can be confirmed.

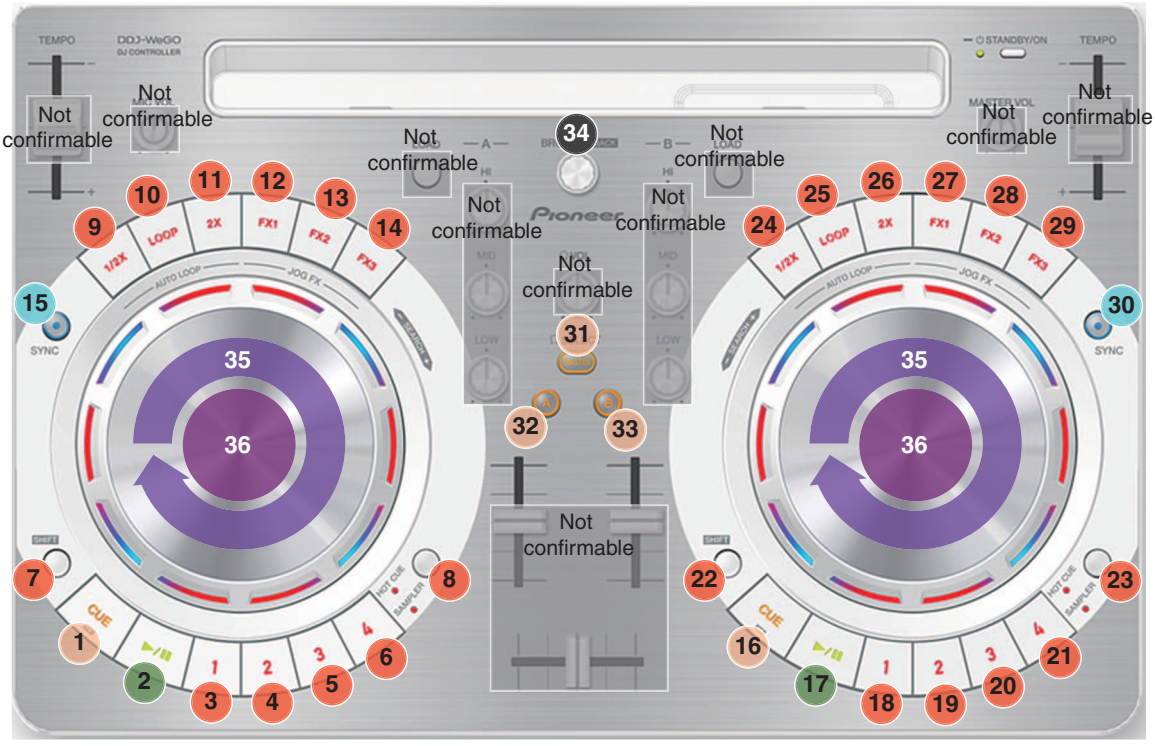


Table 2-1: List of LEDs corresponding to each operating element

No.	Element	Part	Trigger	LED to check
1	CUE (◀I)	DECK A	Press	Own LED
2	▶/II (PLAY/PAUSE)		Press	Own LED
3	HOT CUE 1		Press	Own LED
4	HOT CUE 2		Press	Own LED
5	HOT CUE 3		Press	Own LED
6	HOT CUE 4		Press	Own LED
7	SHIFT		Press	SAMPLER indicator
8	HOT CUE / SAMPLER		Press	HOT CUE indicator
9	1/2X		Press	Own LED
10	LOOP		Press	Own LED
11	2X		Press	Own LED
12	FX1		Press	Own LED
13	FX2		Press	Own LED
14	FX3		Press	Own LED
15	SYNC		Press	Own LED + JOG Upper-left LED on the jog dial in blue
16	CUE (◀I)	DECK B	Press	Own LED
17	▶/II (PLAY/PAUSE)		Press	Own LED
18	HOT CUE 1		Press	Own LED
19	HOT CUE 2		Press	Own LED
20	HOT CUE 3		Press	Own LED
21	HOT CUE 4		Press	Own LED
22	SHIFT		Press	SAMPLER indicator
23	HOT CUE / SAMPLER		Press	HOT CUE indicator
24	1/2X		Press	Own LED
25	LOOP		Press	Own LED
26	2X		Press	Own LED
27	FX1		Press	Own LED
28	FX2		Press	Own LED
29	FX3		Press	Own LED
30	SYNC		Press	Own LED + JOG Upper-right LED on the jog dial in blue
31	MASTER	MIXER	Press	Own LED
32	A		Press	Own LED
33	B		Press	Own LED
34	BROWSE/BACK (PUSH)		Press	Status changes (All LEDs unlit > lit > dimly lit)
35	JOG ROTATION	DECK A	Turn	LEDs of the jog dial on Deck A in red
36	JOG TOUCH		Press	LEDs of the jog dial on Deck A in blue
37	JOG ROTATION	DECK B	Turn	LEDs of the jog dial on Deck B in red
38	JOG TOUCH		Press	LEDs of the jog dial on Deck B in blue

2. All LEDs lit

Check that all LEDs on the upper panel are lit.
The STANDBY/ON indicator turns amber as both the red and green LEDs light.

3. All LEDs dimly lit

Check that all LEDs on the upper panel are dimly lit.
The intensity is reduced to 20% of that when all LEDs are lit, with the exception of the SYNC, MASTER, A, B, and HOT CUE 1–4 buttons, whose intensity is reduced to 10%.

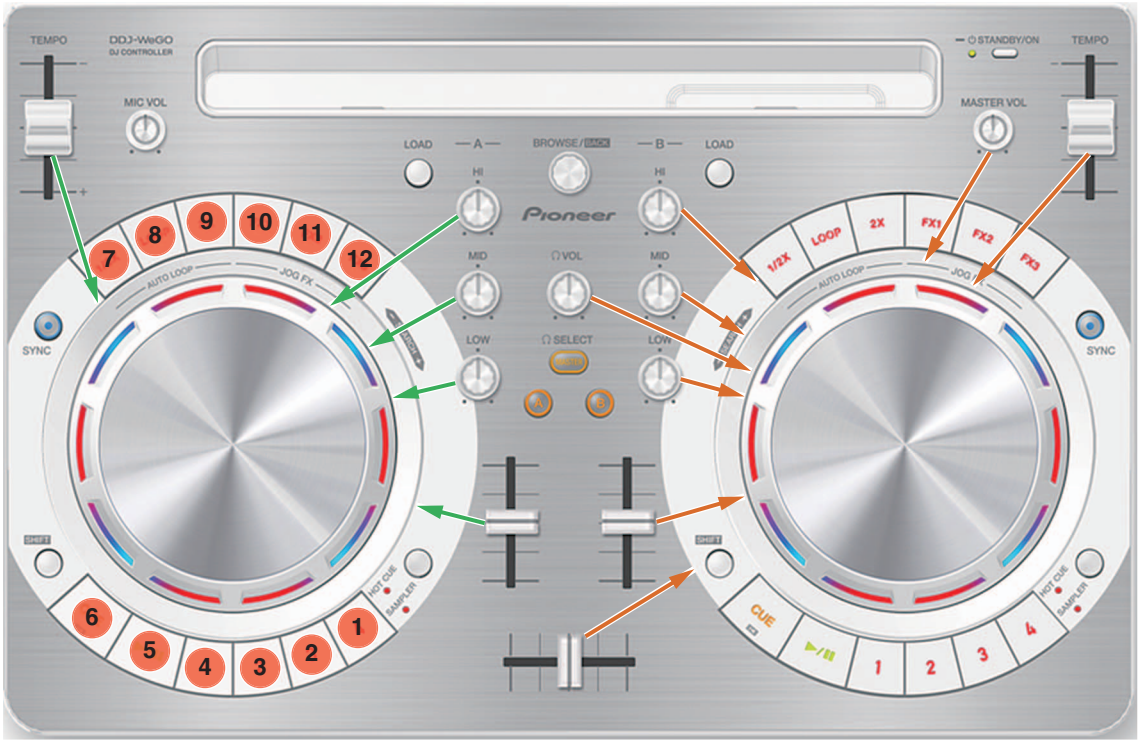
[A-3: AD Value Indication mode]

• Overview

This mode is for displaying the AD values of the variable controls and sliders.

• How to Confirm

1. Confirmation mode for use on the production line
   The button LEDs will light, according to the AD value of the operated operating element.
   On which Deck (A or B) the AD value for each operating element is indicated is shown in the figure below.



The LEDs with the circled numbers in the figure above will light, according to the level of the AD values, as indicated in the table below.

- The correspondence between the AD values and the LEDs to be lit is the same for the left and right decks.
- The AD values to be indicated are those after hysteresis is removed.
- An AD value that is converted for 256 steps after hysteresis is removed will be indicated with use of the LEDs, according to the rules indicated in the table below.

AD value	LED(s) to be lit
0 to 19	None
20 to 39	①
40 to 59	① to ②
60 to 79	① to ③
80 to 99	① to ④
100 to 119	① to ⑤
120 to 139	① to ⑥
140 to 159	① to ⑦
160 to 179	① to ⑧
180 to 199	① to ⑨
200 to 219	① to ⑩
220 to 239	① to ⑪
240 to 255	① to ⑫

• Utilization of this mode during servicing

Use this mode during troubleshooting of "The audio output level cannot be adjusted with the MASTER VOL or HEADPHONES VOL control."
(See "Operation-Related Problems" in "5.2 TROUBLESHOOTING.")

[A-4: AD-Value Change Confirmation mode]

• Overview

This mode is for checking the ranges of changing AD values of the rotary variable controls and faders.

* Because this mode does not decline by the service purpose, the details are omitted.

[A-5: Factory Reset mode]

• Overview

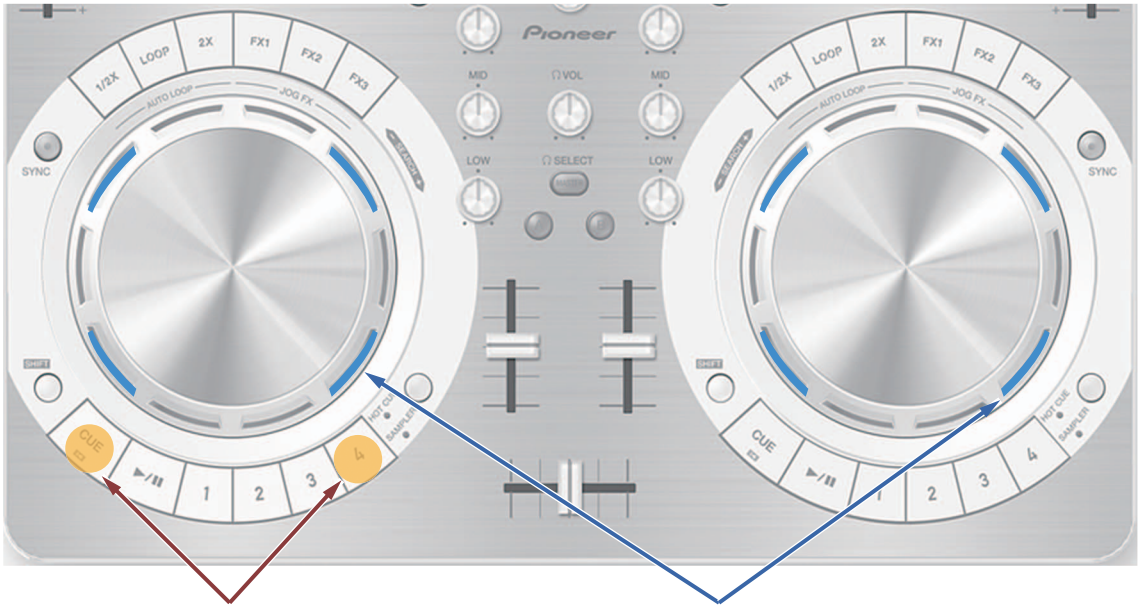
This mode is for resetting the user settable items (Table 9-1) to factory default.

Table 9-1: Factory default settings for the user settable items

Setting item	Factory default setting
Demo mode setting	10 minutes
Auto Standby setting	ON
Pulse mode setting	Normal

• Method for Factory Reset

① Enter Factory Reset mode.
② Start resetting by simultaneously pressing the CUE and 4 buttons on Deck A.
③ The user settings are reset to factory default then the LEDs of the jog dials on Decks A and B light/flash in blue.



[B-1: Mode for Measurements of Time Required for the Jog Dial to Slow Down]

• Overview

This mode is for confirming that the jog dial has been assembled on the production line such that the load on it is within the specified range, by measuring the time required for the jog dial to slow down.

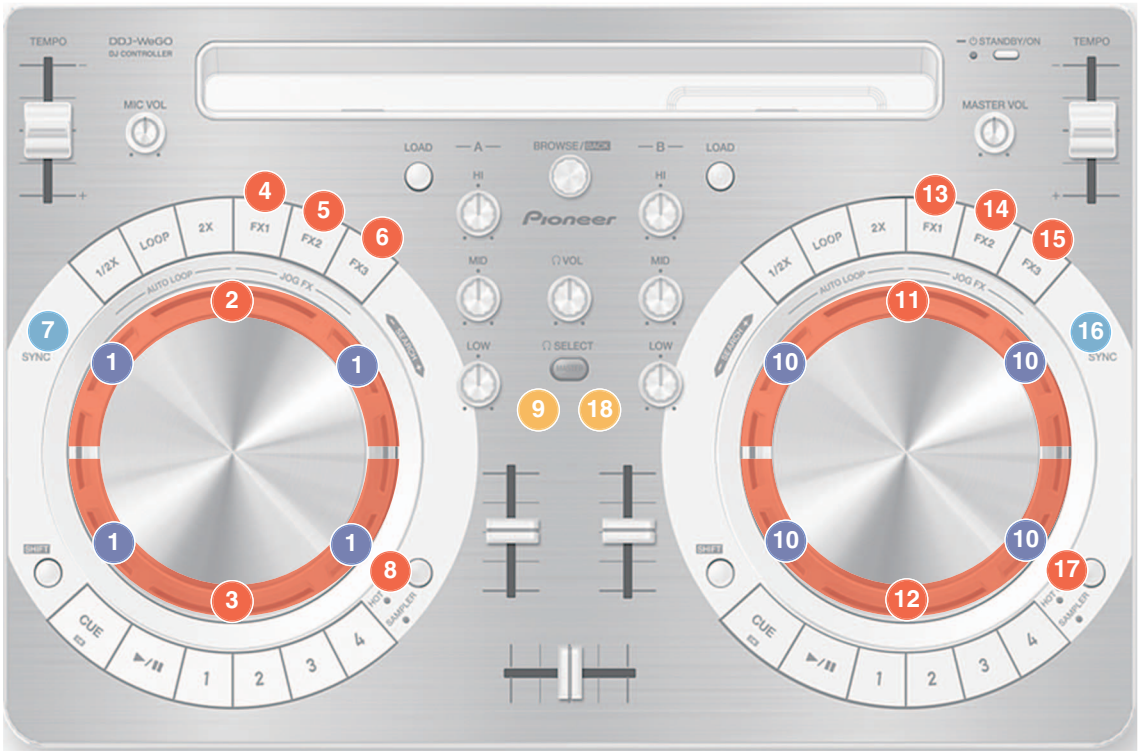
• Measuring procedure

① Enter mode for Measurements of Time Required for the Jog Dial to Slow Down.
② Turn the jog dial swiftly.
③ Measurement starts when the rotation speed of the jog dial reaches 7 times normal speed or higher.
④ The time required for the jog dial to slow down from 3 times to 1.5 times normal speed is measured.
⑤ The LEDs on the jog dial indicate the following information:

- OK: The slowdown time of the latest measurement was within the specified range.
- NG (load too light): The slowdown time of the latest measurement was longer than the specified range.
- NG (load too heavy): The slowdown time of the latest measurement was shorter than the specified range.
- Rotation speed not reaching 7 times normal speed: The latest measurement was invalid because of insufficient rotation speed.
- Number of times of measurement (1–3): The number of times of measurement (1–3) is indicated with the three LEDs. A number times of 4 or higher is also indicated with the three LEDs lit.
- Three sessions of measurement completed: The average of the last three sessions of measurement (including too light or heavy load) was within the specified range.
  The result of measurement when the rotation speed did not reach 7 times normal speed is not included in the calculation.
- Memorization of measurement completed: The LED will light at the same time as the LED for three sessions of measurement completed lights. The LED will remain lit after this mode is quit.
  If the average value becomes outside the specified range, the LED will go dark.

LEDs corresponding to the measurement information

Measurement information	DECK A		DECK B	
	LED indication	Number in the figure	LED indication	Number in the figure
OK	LEDs of the jog dial in blue	①	LEDs of the jog dial in blue	⑩
NG (light)	LED at the upper semicircle of the jog dial in red	②	LED at the upper semicircle of the jog dial in red	⑪
NG (heavy)	LED at the lower semicircle of the jog dial in red	③	LED at the lower semicircle of the jog dial in red	⑫
Not reaching 7 times normal speed	A (flashing)	⑨	B (flashing)	⑱
Number of times of measurement (1–3)	FX (1–3)	④ to ⑥	FX (1–3)	⑬ to ⑮
Three sessions of measurement completed	SYNC	⑦	SYNC	⑯
Memorization of measurement completed	HOT CUE	⑧	HOT CUE	⑰



[B-2: Failure Judgment of Attachment of the Photointerrupters]

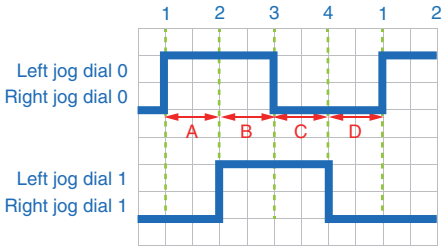
• Overview

This mode is for judging if the photointerrupters have been attached properly, by measuring the phase differences of the two-phase drive signal that controls the jog dial.

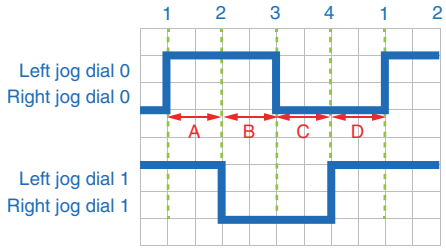
• Definition of the phase differences of the drive signal

The phase differences A, B, C, and D of the two-phase drive pulse signal during clockwise or counterclockwise rotation of the jog dial are defined as shown in the figures below.

During clockwise rotation



During counterclockwise rotation

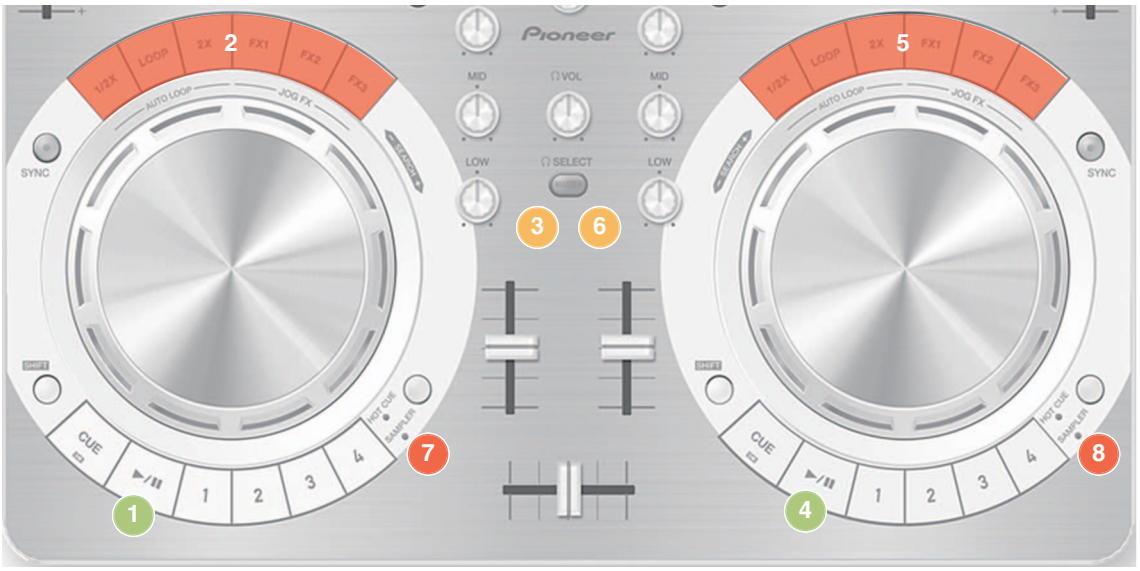


• Measuring procedure

① Enter the mode for Failure Judgment of Attachment of the Photointerrupters.
② Turn the jog dial swiftly.
③ After start of deceleration, the phase differences A, B, C, and D during the periods of 9 times normal speed are measured.
④ The LEDs on the unit indicate the following information:
- OK: The phase differences A–D at 9 times normal speed met all the following conditions:
  Phase difference A: Within 300 to 700 µsec
  Phase difference B: 170 µsec or more
  Phase difference C: Within 300 to 700 µsec
  Phase difference D: 350 µsec or more
- NG: The phase differences A–D at 9 times normal speed did not meet the conditions mentioned above.
- Rotation speed not reaching 9 times normal speed: The latest measurement was invalid because of insufficient rotation speed.
- Memorization of measurement completed: The LED lights after measurement is successfully completed even once. The LED will remain lit after this mode is quit.

• LEDs corresponding to the measurement information

Measurement information	DECK A		DECK B	
	LED indication	Number in the figure	LED indication	Number in the figure
OK	▶/❚❚ (PLAY/PAUSE)	①	▶/❚❚ (PLAY/PAUSE)	④
NG	1/2X, LOOP, 2X, FX1, FX2, FX3	②	1/2X, LOOP, 2X, FX1, FX2, FX3	⑤
Not reaching 9 times normal speed	A (The LED flashes 3 times.)	③	B (The LED flashes 3 times.)	⑥
Memorization of measurement completed	SAMPLER	⑦	SAMPLER	⑧



[C-1: Connection Confirmation mode with the Lightning/30-pin Cable]

• Before confirmation in this mode

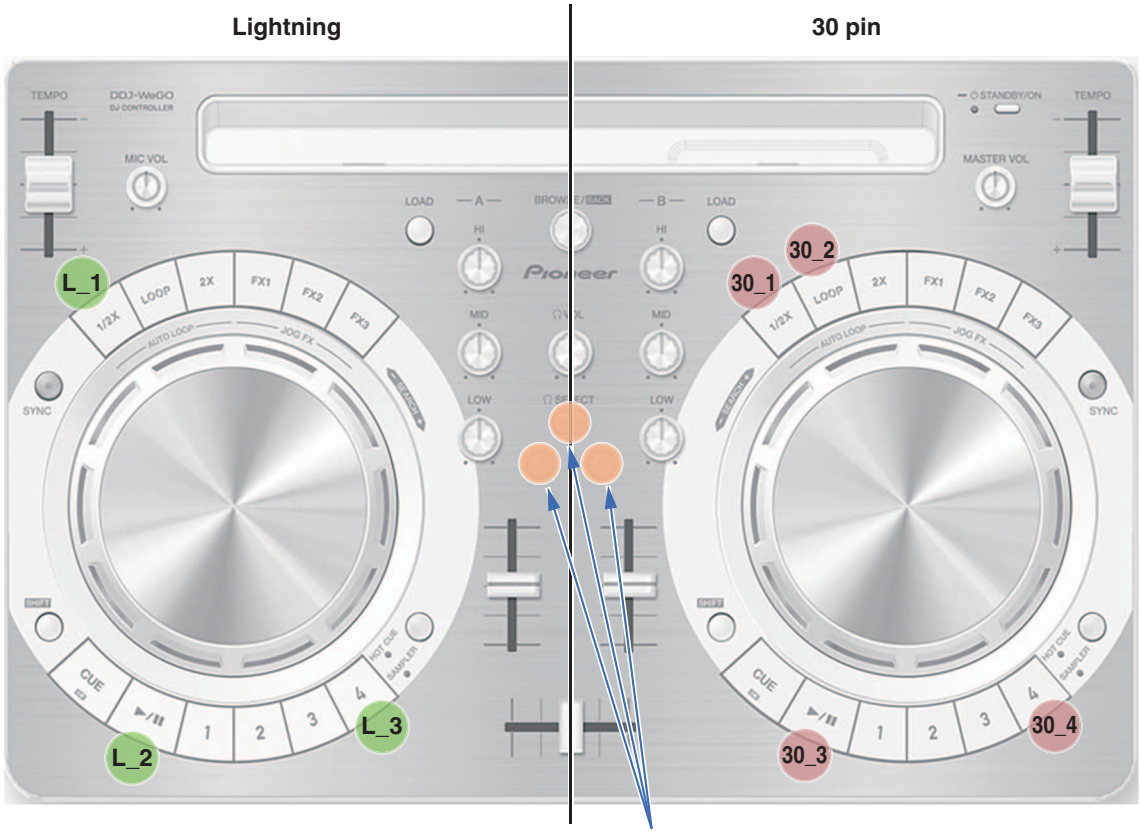
① Properly connect the iPhone/iPad connecting cable to the DDJ-WeGO3.
② Turn the DDJ-WeGO3 ON.
③ Turn the iOS device ON.
④ Connect the Lightning/30-pin connector of the connecting cable to the iOS device (iPhone/iPad/iPod touch).
⑤ On the iOS device, select Settings, General, then About.
If "PIONEER DDJ-WeGO3" is displayed along with the version and capacity, the DDJ-WeGO3 is properly recognized.

• Overview

This mode is for confirming that communications between an iOS device and this unit can be performed properly.

• How to Confirm

Connect an iOS device to this unit after it enters this mode. The results of connection procedures will be indicated with the LEDs. The results for a device with a Lightning connector will be indicated with the LEDs on the left and those for a device with 30-pin dock connector will be indicated with the LEDs on the right.



LEDs lit to indicate that the unit is in this mode

The meanings of the LEDs indicated in the figure above are as follows:

LED number	Meaning
L_1	Lights when connection of an iOS device is detected.
L_2	Lights after an authentication process with the iOS device is successfully completed then power supply to the device is detected.
L_3	Lights if any error (detection of HSSW_DET, etc.) occurred.
30_1	Lights when connection of an iOS device is detected.
30_2	Lights when the Apple Device Detect and Accessory Identify signals are output to the iOS device.
30_3	Lights after an authentication process with the iOS device is successfully completed then power supply to the device is detected.
30_4	Lights if any error (detection of HSSW_DET, etc.) occurred.

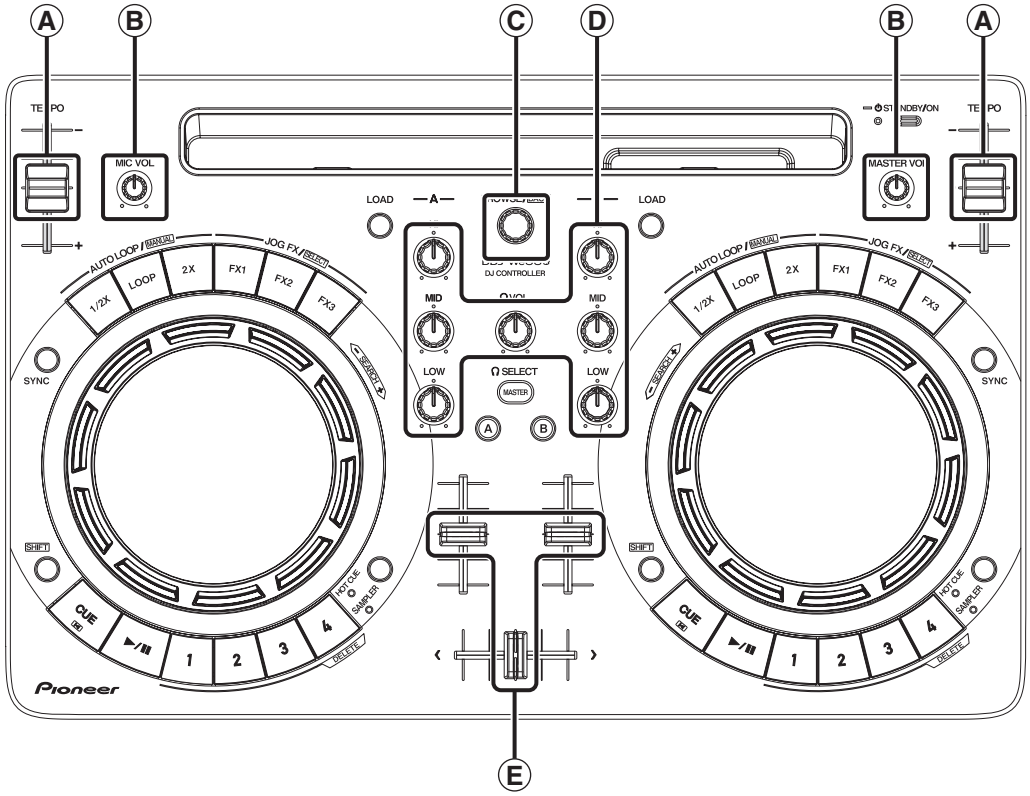
6.2 ABOUT DEVICE

Device Name	Part No.	Function	Ref. No.	Assy
USB SW	TS3USB30RSW	iOS, USB differential signal select switch	IC401	MAIN Assy
MFi Authentication Coprocessor	H337S3959	MFi Authentication IC	IC405	
MAIN UCOM	R5S72670P144FP	Main microcomputer (Main control, USB control, Panel control)	IC406	
FLASH ROM	DYW1848	SPI FLASH ROM for Main microcomputer	IC408	
HP DAC	AK4387ET	D/A converter for HP audio	IC701	
MASTER DAC	AK4387ET	D/A converter for MASTER audio	IC703	
TOUCH UCOM	DYW1849	Touch detection microcomputer for jog dial	IC1201	PNL1B Assy
			IC2201	PNL2B Assy

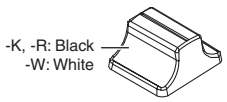
7. DISASSEMBLY

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.

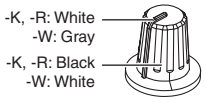
Knobs and Volumes Location



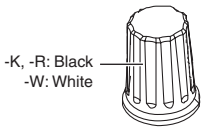
A -K, -R: DNK6283
-W: DNK6355
×2



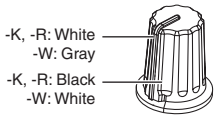
B -K, -R: DAA1262
-W: DAA1335
×2



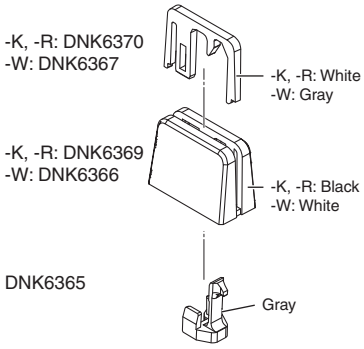
C -K, -R: DAA1337
-W: DAA1334
×1



D -K, -R: DAA1324
-W: DAA1336
×7



E DNK6365
×3
+
-K, -R: DNK6369
-W: DNK6366
×3
+
-K, -R: DNK6370
-W: DNK6367
×3

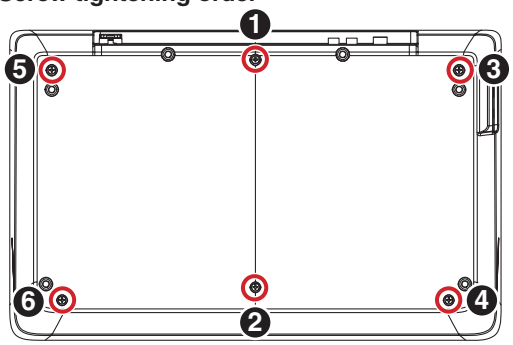


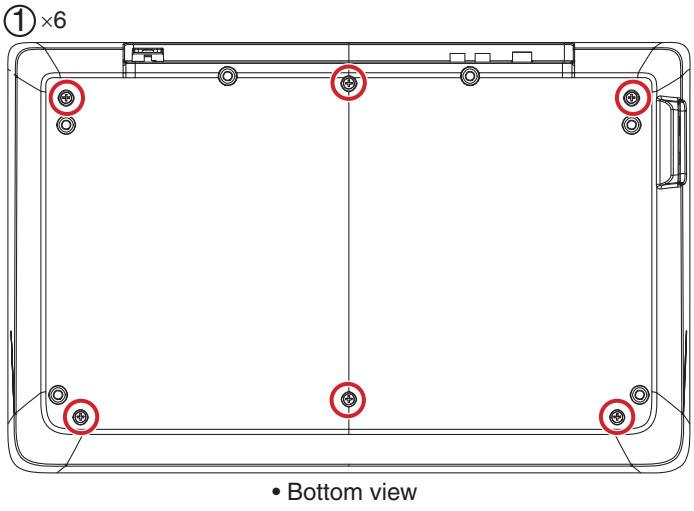
Disassembly

[1] Chassis Section

(1) Remove the 6 screws.
(BPZ30P100FTB)
(-K, -R: BPZ30P100FTB)
(-W: BPZ30P080FNI)

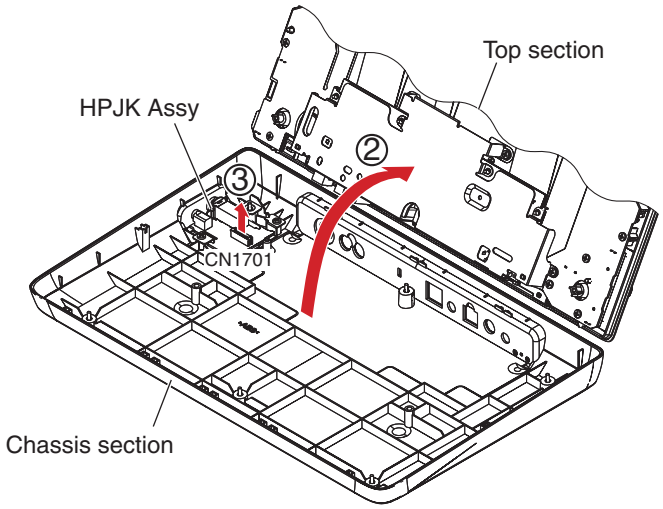
Screw tightening order





• Bottom view

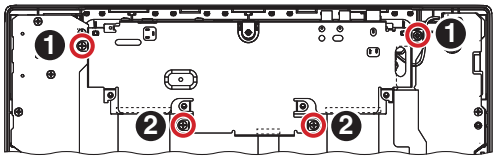
(2) Pull-up the Top section and remove the chassis section.
(3) Disconect the jumper wire.
(CN1701)

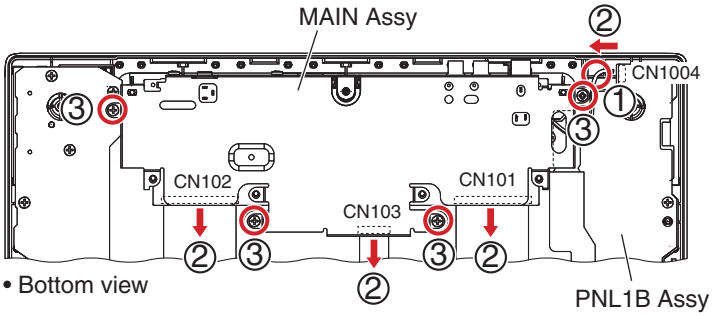


[2] MAIN Assy

(1) Release the jumper wire.
(2) Disconnect the 1 connector and 3 flexible cables.
(CN101 to 103, 1004)
(3) Remove the MAIN Assy with stay by removing the 4 screws.
(BPZ30P080FNI)

Screw tightening order

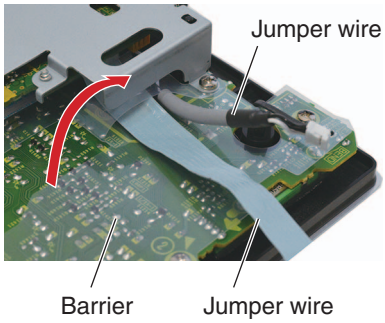


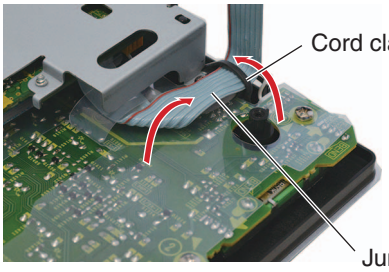


• Bottom view

PNL1B Assy

Notes on Cable Styling



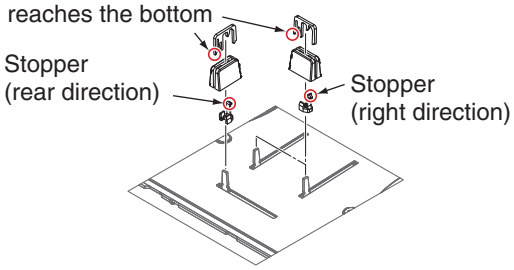


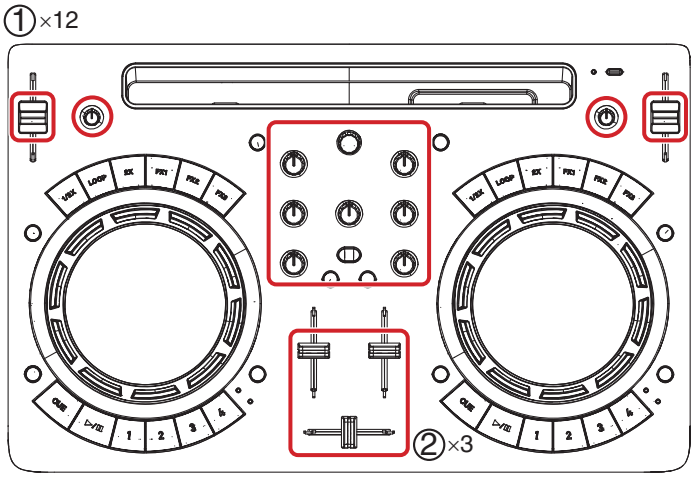
[3] PNL1B, JOG1, CRFD, PNLB2 and JOG2 Assemblies

(1) Remove the all knobs.
(2) Remove the 3 nobs/SL2, 3 nobs/SL1 and 3 Stoppers/SLD. (See below.)

The reference of the direction

Side on which the line reaches the bottom

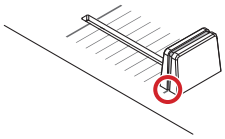




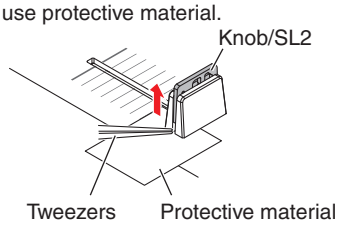
• Disassembly of the slider knob

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 knob/SL2 is removed.

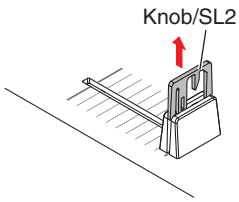
① Find the side on which the line reaches the bottom.



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.

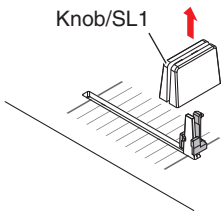


③ Remove the Knob/SL2.

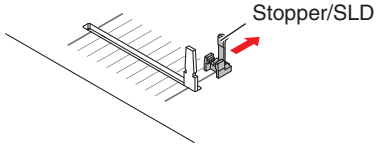


*: During reassembly, fully push down knob/SL2 until it is dented into knob/SL1.

④ Remove the knob/SL1.

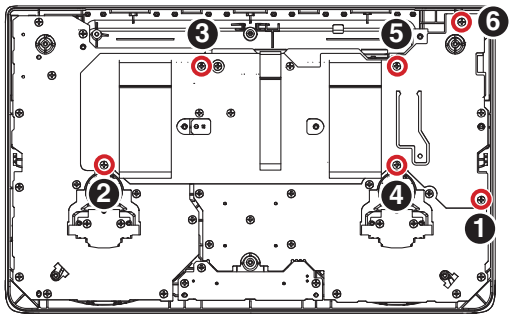


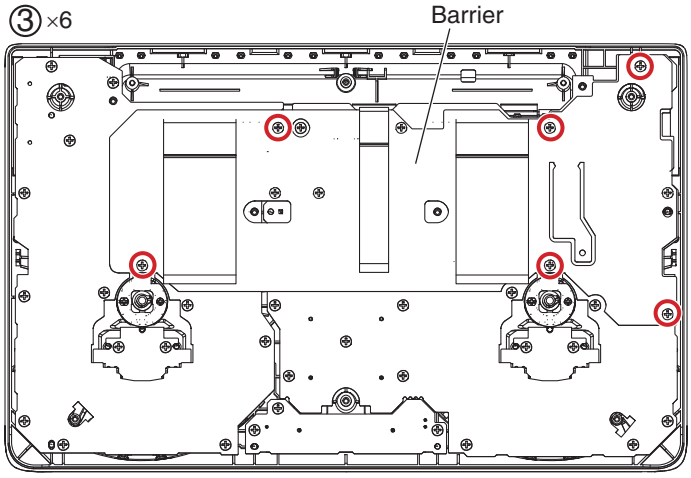
⑤ Remove the stopper/SLD.



(3) Remove the barrier by removing the 6 screws. (BPZ30P080FNI)

Screw tightening order



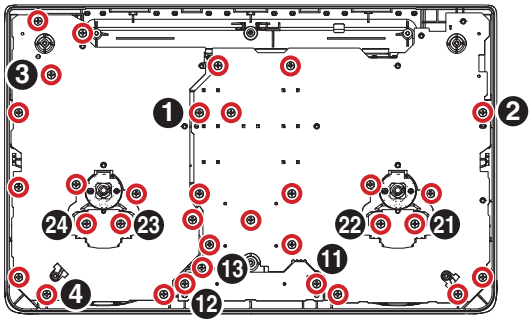


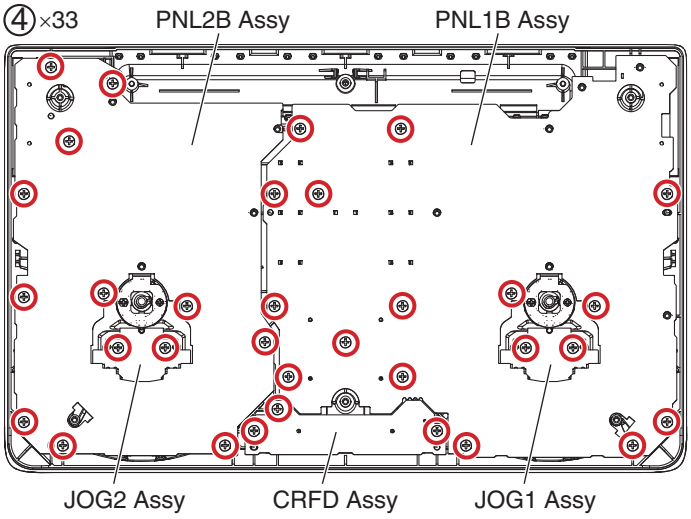
• Bottom view

(4) Remove the PNL1B, JOG1, CRFD, PNLB2, and JOG2 Assemblies by removing the 33 screws. (BPZ30P080FNI)

Screw tightening order

PNL1B, PNL2B: ❶ → ❷ → ❸ → ❹
(The other screws are random order.)
CRFD: ⓫ → ⓬ → ⓭
JOG1, JOG2: ㉑ → ㉒ → ㉓ → ㉔





• Bottom view

[4] Jog dial Section

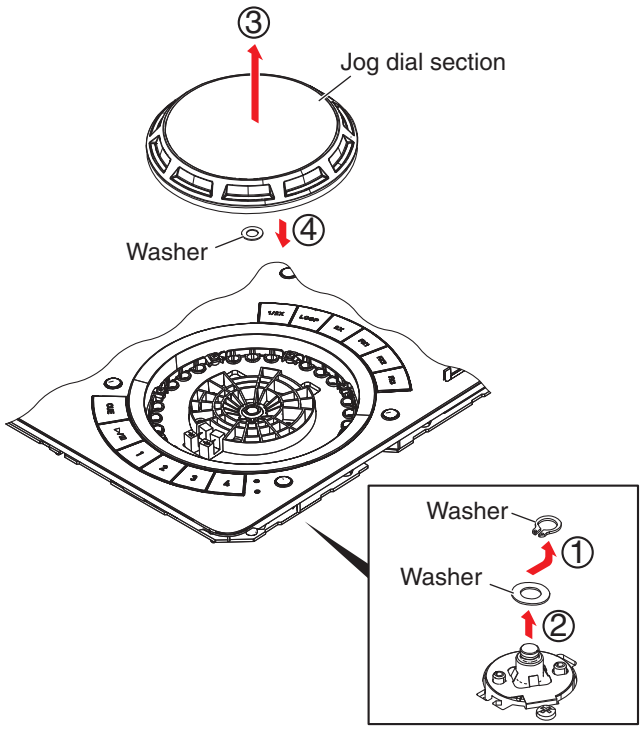
Note:
When you remove the Jog dial section, it is not necessary to remove the each PCB Assemblies.
A figure is only Right DECK side, but the left DECK side is similar, too.

Remove the chassis section by removing the 6 screws.
(-K, -R: BPZ30P100FTB)
(-W: BPZ30P080FNI)

---

(1) Remove the one washer.
(YC60FAC)
(2) Remove the one washer.
(WA62D095D050)
(3) Remove the Jog dial section.
(4) Remove the one washer.
(WA62D095D050)

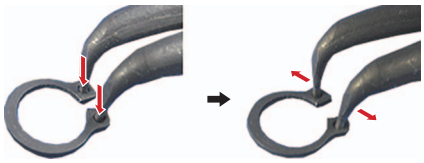
* When you reassemble the Jog dial section, work on grease application according to "Procedure for applying grease during reassembly of the Jog dial" of the next clause.



For Disassembly/Assembly of Washer (①: YC60FAC)

Please use the jig. (Recommend Snap ring pryor.)

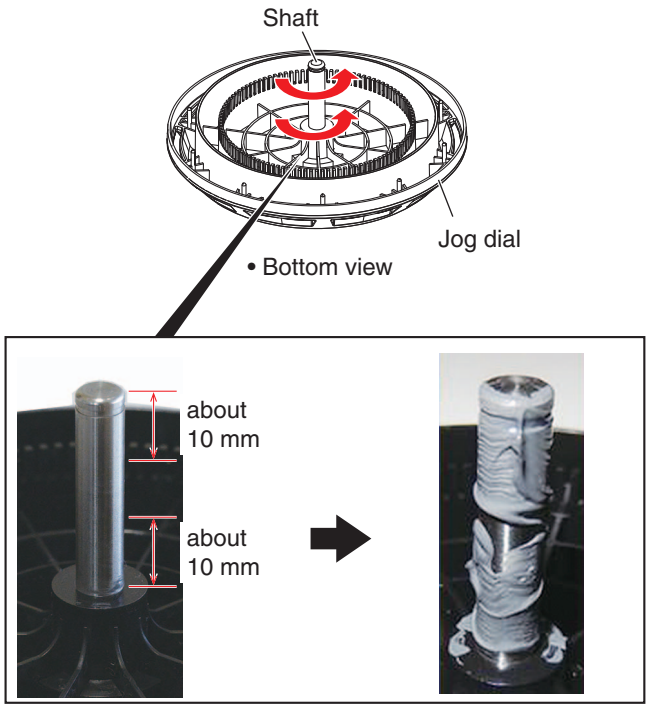
Insert the jig in the hole. Open the jig.



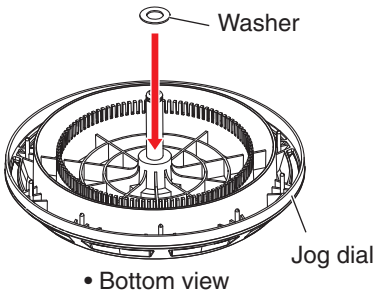
Procedure for applying grease during reassembly of the Jog dial

[Cases where the Jog dial is required to be detached]
· When the Jog dial/ASW is to be replaced
· When the Panel/BS is to be detached for replacement
* After the Panel/BS is detached, carefully wipe off the grease from the Jog dial, as well as from the shaft bearing, then apply new grease, in the following manner:
Grease to be used: GEM1100

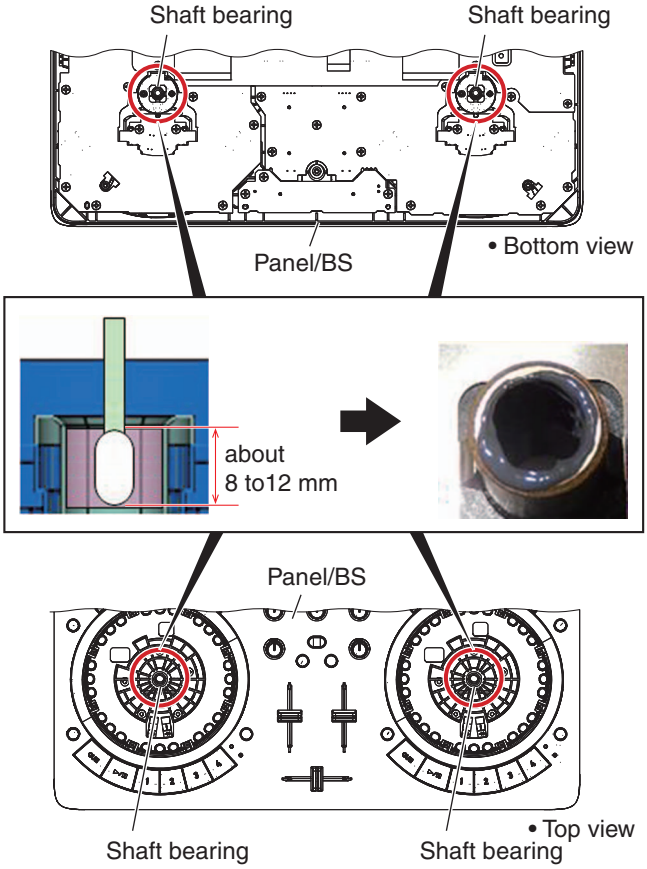
(1) Apply grease to the tip and base of the shaft of the Jog dial, one round each.



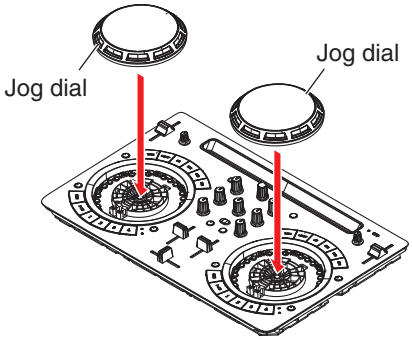
(2) Put a washer (WA62D095D050) on the shaft and place it at the base of the shaft.



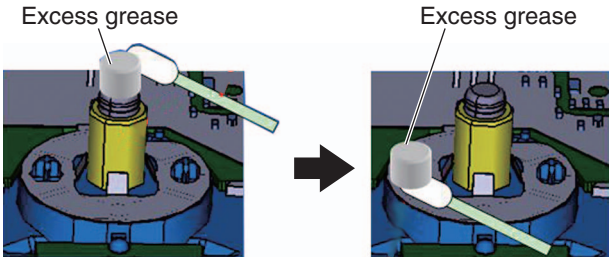
(3) Apply grease lightly to the shaft bearing of the panel/BS up to a depth of approximately 8 to 12 mm from the bottom-panel side. Then turn the control panel over and apply grease from the opposite side in the same manner.



(4) Insert the two jog dials.

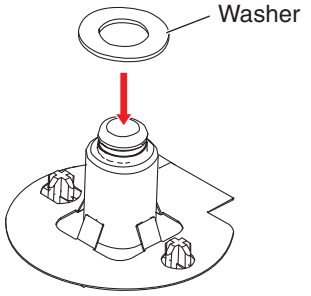


(5) Turn the panel/BS over then wipe off the excess grease.



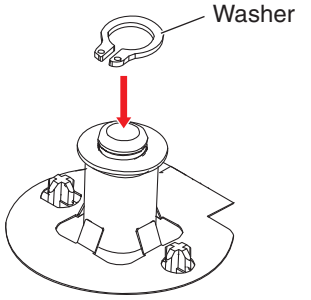
• Bottom view

(6) Put the washer (WA62D095D050) on the shaft.



• Bottom view

(7) Put the washer (YC60FAC) on the groove of the shaft.



• Bottom view

(8) Turn the control panel over then check that the Jog dial rotates properly.

(9) Perform manual running-in rotations of the Jog dial, as indicated below.
① Turn the Jog dial manually 50 rotations.
② Perform failure judgment of the Jog dial.
For details on the measurement method, see "B-1 Jog dial Rotation Time measurement mode" in "6. SERVICE MODE."
③-1 In a case of failure because of excessive load, repeat the following procedure until a good result is obtained in failure judgment.
Manually turn the Jog dial 50 rotations then perform failure judgment of the Jog dial again.
③-2 In a case of failure because of insufficient load, apply grease again.
(Repeat the above procedures from Step (1).)

8. EACH SETTING AND ADJUSTMENT
8.1 NECESSARY ITEMS TO BE NOTED

After 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.

• IC and PCB Assy storing firmware and user settings IC408, MAIN Assy	⇨ • Confirmation of the version of the firmware • Updating to the latest version of the firmware • Factory reset (Be changed user setting to condition before the repair when be possible)
• JOG dial/ASW	⇨ • Confirmation of the specified value by "Mode for Measurements of Time Required for the Jog Dial to Slow Down" * at the "NG" judgment execute habituation of the grease again.
• PC1601, PC1602 (JOG1 Assy) PC2601, PC2602 (JOG2 Assy)	⇨ • Failure Judgment of Attachment of the Photointerrupters * If the result of a failure judgment is "NG," reattach the photointerrupters, making sure they are properly placed, not slanted. If the result of a failure judgment remains "NG" even after the photointerrupters have been reattached properly, replace them again.

8.2 UPDATING OF THE FIRMWARE

Items necessary for updating

- DDJWeGO3UpdateProgram.exe : Application program
- ddjwego3hid.dll : HID library
- ddjwego3__v***.bin : Firmware data

Create a folder in a desired location on your Windows PC then store the above-mentioned files in that folder.
(Example: In a case of Ver. 1.02)

Updating procedures

(1) Make connections.
Connect this unit and a PC, using a USB cable.

(2) Start the unit.
Press the STANDBY/ON button of the unit to start it normally.

(3) Run the Updater Application.
Execute updating, by double-clicking on "DDJWeGO3UpdateProgram.exe."
(When you execute the updater application, this unit will automatically enter Update mode.)

(4) Updating is completed.
A dialog box with an OK button will appear after updating is completed successfully.

Error codes that may be displayed during updating

Indications of updating errors on the unit

Location	Indication
DECK A (left)	The LEDs on the Jog dial flash in red.
DECK B (right)	The LEDs on the Jog dial flash in red.

List of error codes to be displayed on the PC while the application is running

Error code	Meaning
0E01	There is no file.
0E02	Sufficient memory capacity for the files cannot be ensured on the PC.
0E03	Invalid file length
0E04	Invalid version value in the file
0E05	CRC error during communication with the unit
0E11	The version value of the unit is outside the expected scope.
0E21	The unit is not connected with a PC via a USB cable.
0E31	The unit is not started in Update mode.
0E32	Sufficient memory capacity cannot be ensured for communication with the unit.
0E33	Checksum error on the unit side
0E34	Writing error on the unit side
0E35	Verification error on the unit side
0E36	Timeout of communication with the unit
0E37	The USB cable was disconnected during updating.
0E41	An unknown code was received from the unit, or some unanticipated error was generated.

8.3 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE

This unit is provided with user settable items, as shown below.
Although no serious operational problems occur even if data for such user settable items are cleared during repair, it is recommended that you take note of those settings before starting repair.
Use the Check Sheet, to which you can transcribe the settings.
If the corresponding part or board Assy is replaced for repair, change the user resettable settings to those noted on the Check Sheet before starting repair. If resetting is not possible, when returning the repaired product, be sure to tell the customer that the Utility settings have been cleared and will have to be reset, as required.

Item for Which User's Setting is Available	Setting Value (The factory default settings are indicated in bold.) / Indication method	Part Name	Content to be Stored
Demo mode setting	Time to demo mode start: **10 min** / 5 min / 1 min / OFF	IC408 (MAIN Assy)	Utility setting
	DECK A [1] button lit / [2]button lit / [3]button lit / [CUE] button lit		
Auto standby setting	**ON** / OFF		
	DECK B [1]button lit / [CUE]button lit		
Pulse mode (illuminations) setting	**Normal (Standard LED lighting / blinking pattern)** / Moderate (The lighting / blinking pattern that controlled light quantity of the LED)		
	HEADPHONES SELECT A button lit / HEADPHONES SELECT B button lit		

Each of the above items can be set in Utilities modes.
To enter Utilities mode,
while pressing two LOAD buttons on the DECKs A and B, press the STANDBY/ON button.
(The SYNC buttons lit on the DECKs A and B).
Then, can set each item when you press either HOT CUE/SAMPLER button on the DECK A, HOT CUE/SAMPLER button on the DECK B, HEADPHONES SELECT MASTER button.
(For details, refer to the operating instructions of the unit.)

Sheet for confirmation of the user setting

Demo mode setting				Auto standby setting		Pulse mode (illuminations) setting	
10 min	5 min	1 min	OFF	ON	OFF	Normal	Moderate

A

B

C

D

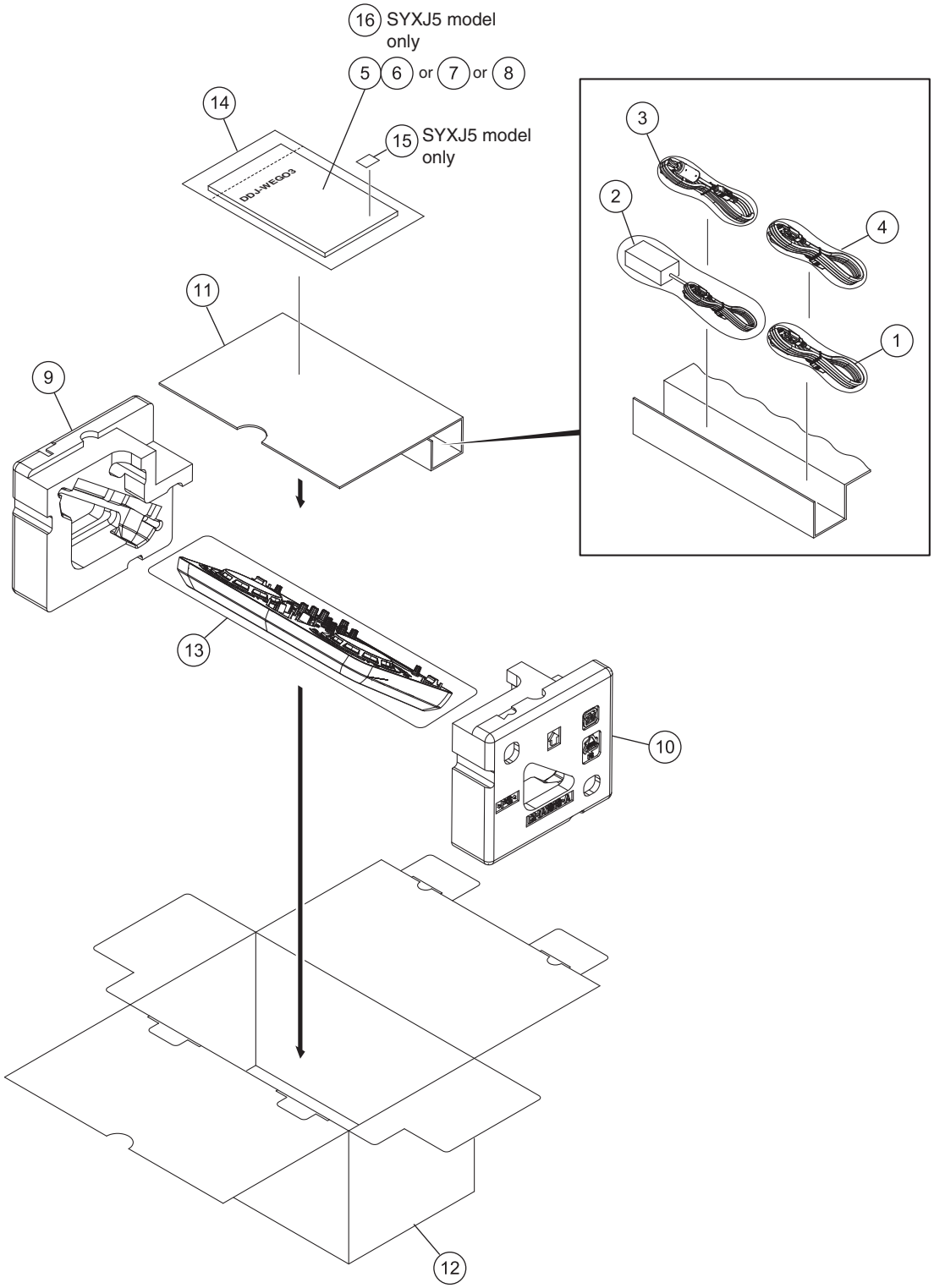
E

F

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 Cord	See Contrast table (2)
⚠	2	AC Adapter	DWR1546
	3	USB Cable	DDE1140
	4	iPhone/iPad Connection Cable (Lightning)	DDE1145
	5	Operating Instructions (DJ unit Setup)	See Contrast table (2)
	6	Operating Instructions (DJ unit Setup)	See Contrast table (2)
	7	Operating Instructions (DJ unit Setup)	See Contrast table (2)
	8	Operating Instructions (DJ unit Setup)	See Contrast table (2)
	9	Pad/L	DHA1918
	10	Pad/R	DHA1919
	11	Partition/ACC	DHC1086
	12	Packing Case	See Contrast table (2)
	13	Packing Sheet	AHG7053
NSP	14	Polyethylene Bag	AHG7117
	15	Label/IM1	See Contrast table (2)
NSP	16	Warranty	See Contrast table (2)

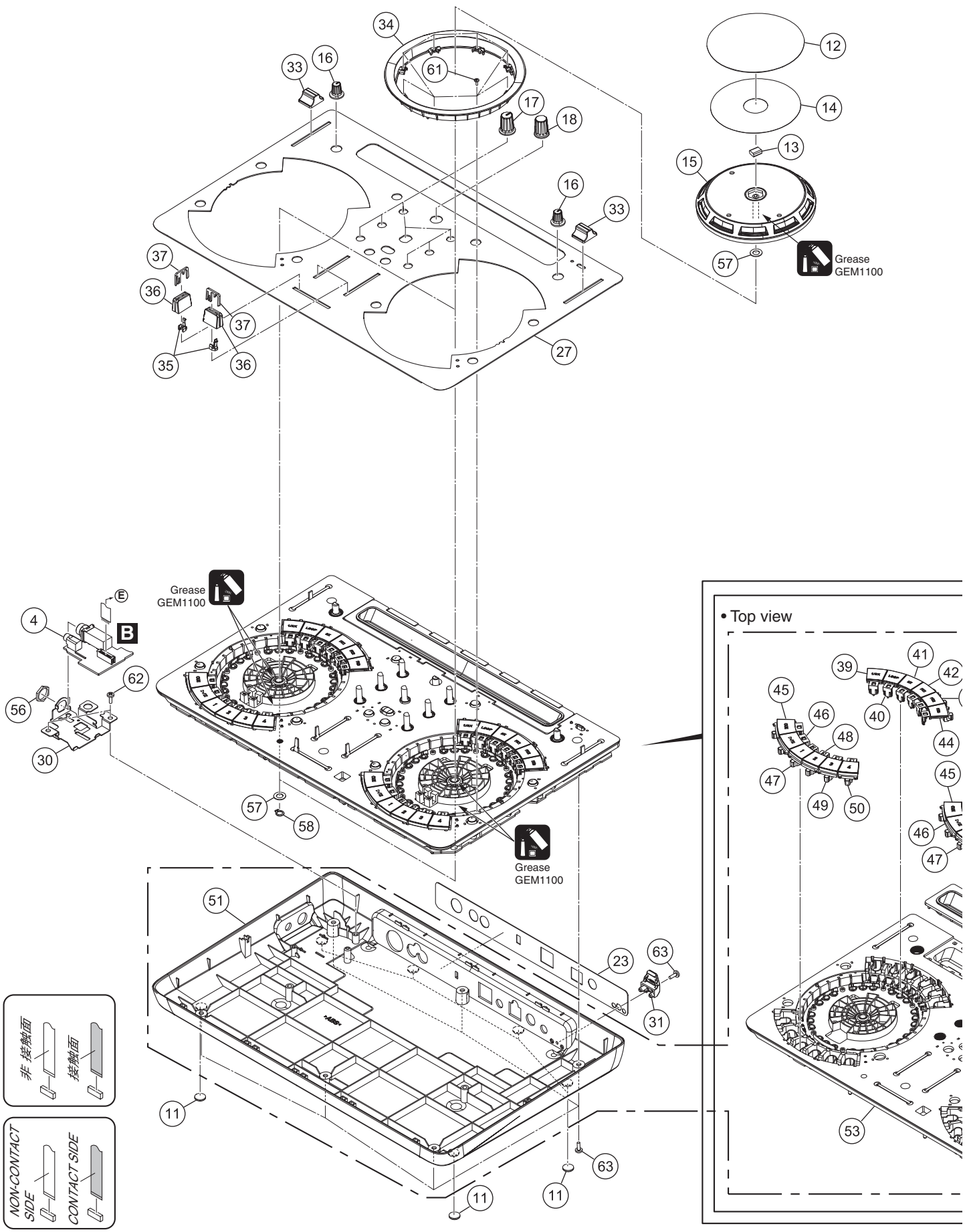
(2) CONTRAST TABLE

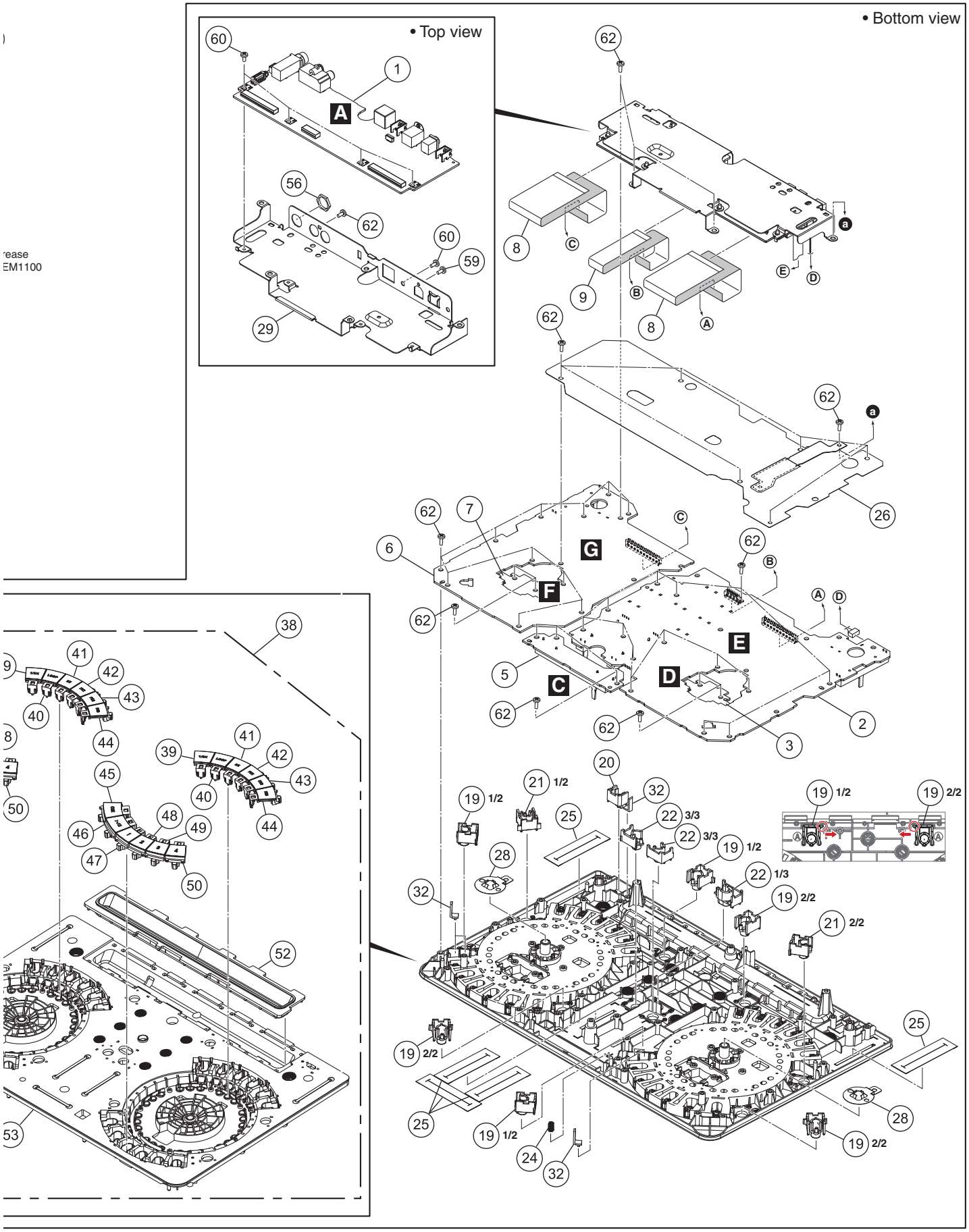
DDJ-WEGO3-K/SYXJ5, UXJCB, AXJ5, DDJ-WEGO3-W/SYXJ5, UXJCB, AXJ5, DDJ-WEGO3-R/SYXJ5 and UXJCB are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO3-K /SYXJ5	DDJ-WEGO3-K /UXJCB	DDJ-WEGO3-K /AXJ5	DDJ-WEGO3-W /SYXJ5	DDJ-WEGO3-W /UXJCB	DDJ-WEGO3-W /AXJ5
⚠	1	Power Cord	ADG1154	XDG3052	ADG7079	ADG1154	XDG3052	ADG7079
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used	Not used	DRH1287	Not used	Not used
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used	Not used	DRH1288	Not used	Not used
	7	Operating Instructions (DJ unit Setup) (En)	Not used	DRH1289	Not used	Not used	DRH1289	Not used
	8	Operating Instructions (DJ unit Setup) (Zhcn)	Not used	Not used	DRH1291	Not used	Not used	DRH1291
	12	Packing Case	DHG3373	DHG3374	DHG3376	DHG3369	DHG3370	DHG3372
	15	Label/IM1	DRW2534	Not used	Not used	DRW2534	Not used	Not used
NSP	16	Warranty	ARY7158	Not used	Not used	ARY7158	Not used	Not used

Mark	No.	Symbol and Description	DDJ-WEGO3-R /SYXJ5	DDJ-WEGO3-R /UXJCB
⚠	1	Power Cord	ADG1154	XDG3052
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used
	7	Operating Instructions (DJ unit Setup) (En)	Not used	DRH1289
	8	Operating Instructions (DJ unit Setup) (Zhcn)	Not used	Not used
	12	Packing Case	DHG3397	DHG3399
	15	Label/IM1	DRW2534	Not used
NSP	16	Warranty	ARY7158	Not used

9.2 EXTERIOR SECTION




• Top view
• Bottom view
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(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	MAIN Assy	DWX3591
	2	PNL1B Assy *1	DWX3592
NSP	3	JOG1 Assy *1	DWX3593
	4	HPJK Assy	DWX3594
	5	CRFD Assy	DWX3597
	6	PNL2B Assy *2	DWX3595
NSP	7	JOG2 Assy *2	DWX3596
	8	FFC/39P	DDD1673
	9	FFC/15P	DDD1674
	10	•••••	
	11	Foot/RUB	DEB2012
	12	Plate/JOG	See Contrast table (2)
	13	Gasket/JOG	DEC3539
	14	DS Tape/JOG	DEH1057
	15	Jog Dial/ASW	See Contrast table (2)
	16	Rotary Knob S (Black)	See Contrast table (2)
	17	Knob/PLS	See Contrast table (2)
	18	Knob/RBK	See Contrast table (2)
	19	Button/TMP	See Contrast table (2)
	20	Button/TIM	See Contrast table (2)
	21	Button/MT	See Contrast table (2)
	22	Button/CUE	See Contrast table (2)
	23	Sheet/TML	See Contrast table (2)
	24	Coil Spring/SFX	DBH1796
	25	Fader Packing	DEC3355
	26	Barrier	DEC3559
	27	Panel/AL	See Contrast table (2)
	28	Plate/CND	DNH3137
	29	Stay/TML	DNH3162
	30	Stay/PHN	DNH3163
	31	Hook/CRD	See Contrast table (2)
	32	Lens/PWR	DNK6089
	33	Knob/SLD	See Contrast table (2)
	34	Escutcheon	See Contrast table (2)
	35	Stopper/SLD	DNK6365

Mark	No.	Description	Part No.
	36	Knob/SL1	See Contrast table (2)
	37	Knob/SL2	See Contrast table (2)
⚠	38	1..Panel/BS	See Contrast table (2)
	39	2..Button/BL1	See Contrast table (2)
	40	2..Button/BL2	See Contrast table (2)
	41	2..Button/BL3	See Contrast table (2)
	42	2..Button/BF1	See Contrast table (2)
	43	2..Button/BF2	See Contrast table (2)
	44	2..Button/BF3	See Contrast table (2)
	45	2..Button/BC	See Contrast table (2)
	46	2..Button/BP	See Contrast table (2)
	47	2..Button/BH1	See Contrast table (2)
	48	2..Button/BH2	See Contrast table (2)
	49	2..Button/BH3	See Contrast table (2)
	50	2..Button/BH4	See Contrast table (2)
⚠	51	2..Chassis	See Contrast table (2)
	52	2..Holder/PAD	See Contrast table (2)
⚠	53	2..Panel/BS	DNK6362
	54	•••••	
	55	•••••	
	56	Nut (M12)	NKX2FNI
	57	Washer	WA62D095D050
	58	Washer	YC60FAC
	59	Screw (M3*5)	DBA1340
	60	Screw	BBZ30P060FTC
	61	Screw	BPZ20P050FTC
	62	Screw	BPZ30P080FNI
	63	Screw	See Contrast table (2)

*1: As the PNL1B Assy and JOG1 Assy are wired with jumper leads.
If a DWX3592 (PNL1B Assy) is ordered, the PNL1B Assy and JOG1 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG1 Assy alone (NSP: non-service part).

*2: As the PNL2B Assy and JOG2 Assy are wired with jumper leads.
If a DWX3595 (PNL2B Assy) is ordered, the PNL2B Assy and JOG2 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG2 Assy alone (NSP: non-service part).

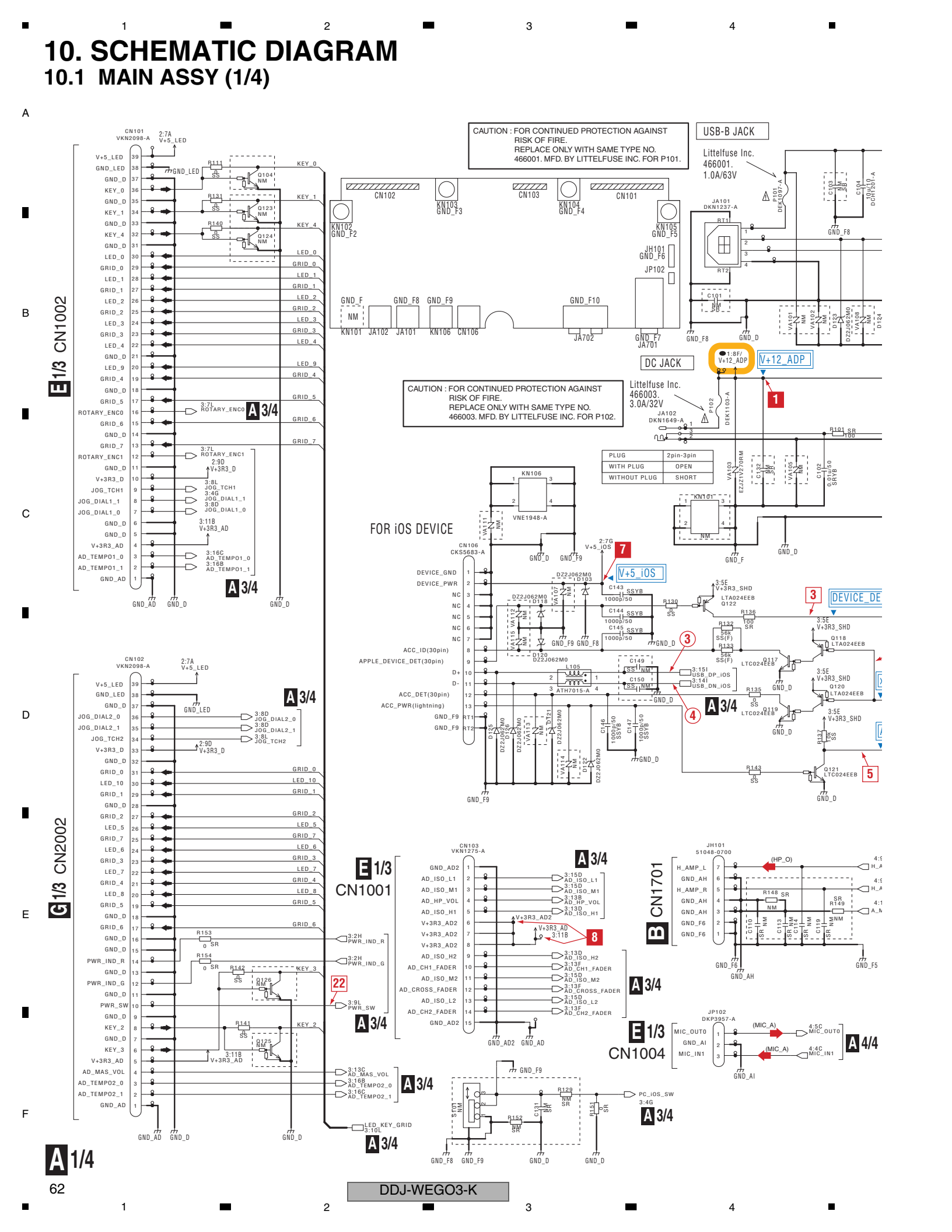
(2) CONTRAST TABLE

DDJ-WEGO3-K, DDJ-WEGO3-W and DDJ-WEGO3-R are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO3-K	DDJ-WEGO3-W	DDJ-WEGO3-R
	12	Plate/JOG	DAH2999	DAH2999	Not used
	12	Plate	Not used	Not used	DAH3024
	15	Jog Dial/ASW	DXB2160	DXB2160	Not used
	15	Jog Dial	Not used	Not used	DXB2166
	16	Rotary Knob S (Black)	DAA1262	Not used	DAA1262
	16	Knob/SWH	Not used	DAA1335	Not used
	17	Knob/PLS	DAA1324	Not used	DAA1324
	17	Knob/WHT	Not used	DAA1336	Not used
	18	Knob/RBK	DAA1337	Not used	DAA1337
	18	Knob/RWH	Not used	DAA1334	Not used
	19	Button/TMP	DAC2845	Not used	DAC2845
	19	Button/SFT	Not used	DAC3006	Not used
	20	Button/TIM	DAC2849	Not used	DAC2849
	20	Button/STB	Not used	DAC3010	Not used
	21	Button/MT	DAC2875	Not used	DAC2875
	21	Button/SNC	Not used	DAC3005	Not used
	22	Button/CUE	DAC3012	DAC3007	DAC3012
	23	Sheet/TML	DAH3001	DAH3000	DAH3001
	27	Panel/AL	DNB1236	DNB1235	DNB1238
	31	Hook/CRD	DNK6084	Not used	DNK6084
	31	Hook/CDW	Not used	DNK6398	Not used
	33	Knob/SLD	DNK6283	Not used	DNK6283
	33	Knob/TMP	Not used	DNK6355	Not used
	34	Escutcheon	DNK6359	DNK6351	DNK6359
	36	Knob/SL1	DNK6369	DNK6366	DNK6369
	37	Knob/SL2	DNK6370	DNK6367	DNK6370
⚠	38	Panel/BS	DXB2159	DXB2158	DXB2159
	39	Button/BL1	DAC3055	Not used	DAC3055
	39	Button/WL1	Not used	DAC3043	Not used
	40	Button/BL2	DAC3056	Not used	DAC3056
	40	Button/WL2	Not used	DAC3044	Not used
	41	Button/BL3	DAC3057	Not used	DAC3057
	41	Button/WL3	Not used	DAC3045	Not used
	42	Button/BF1	DAC3058	Not used	DAC3058
	42	Button/WF1	Not used	DAC3046	Not used
	43	Button/BF2	DAC3059	Not used	DAC3059
	43	Button/WF2	Not used	DAC3047	Not used
	44	Button/BF3	DAC3060	Not used	DAC3060
	44	Button/WF3	Not used	DAC3048	Not used
	45	Button/BC	DAC3061	Not used	DAC3061
	45	Button/WC	Not used	DAC3049	Not used
	46	Button/BP	DAC3062	Not used	DAC3062
	46	Button/BP	Not used	DAC3050	Not used
	47	Button/BH1	DAC3063	Not used	DAC3063
	47	Button/WH1	Not used	DAC3051	Not used
	48	Button/BH2	DAC3064	Not used	DAC3064
	48	Button/WH2	Not used	DAC3052	Not used
	49	Button/BH3	DAC3065	Not used	DAC3065
	49	Button/WH3	Not used	DAC3053	Not used
	50	Button/BH4	DAC3066	Not used	DAC3066
	50	Button/WH4	Not used	DAC3054	Not used
⚠	51	Chassis	DNK6357	DNK6348	DNK6404
	52	Holder/PAD	DNK6358	DNK6349	DNK6358
	63	Screw	BPZ30P100FTB	BPZ30P080FNI	BPZ30P100FTB

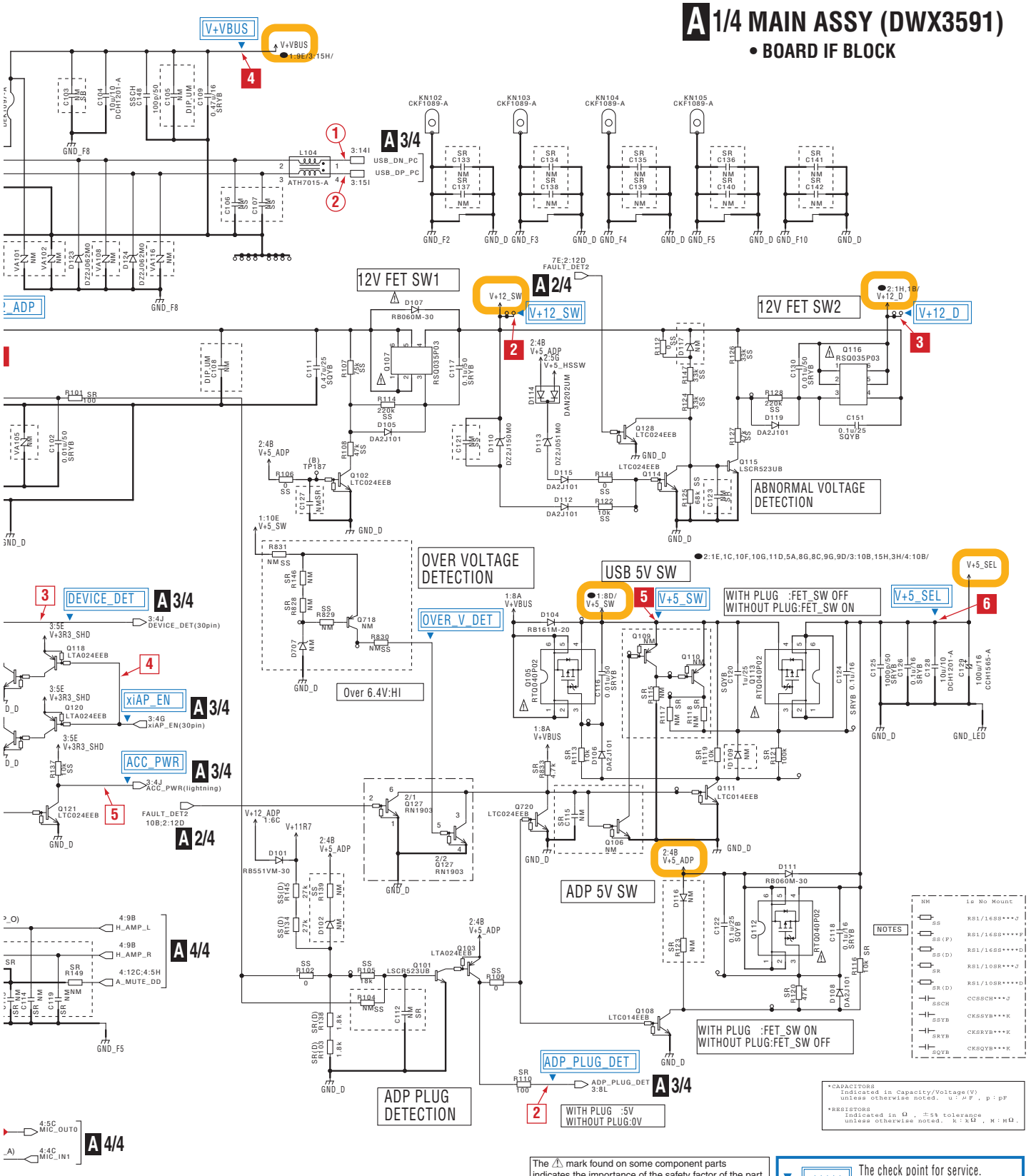
10. SCHEMATIC DIAGRAM

10.1 MAIN ASSY (1/4)



A 1/4 MAIN ASSY (DWX3591)

• BOARD IF BLOCK



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。

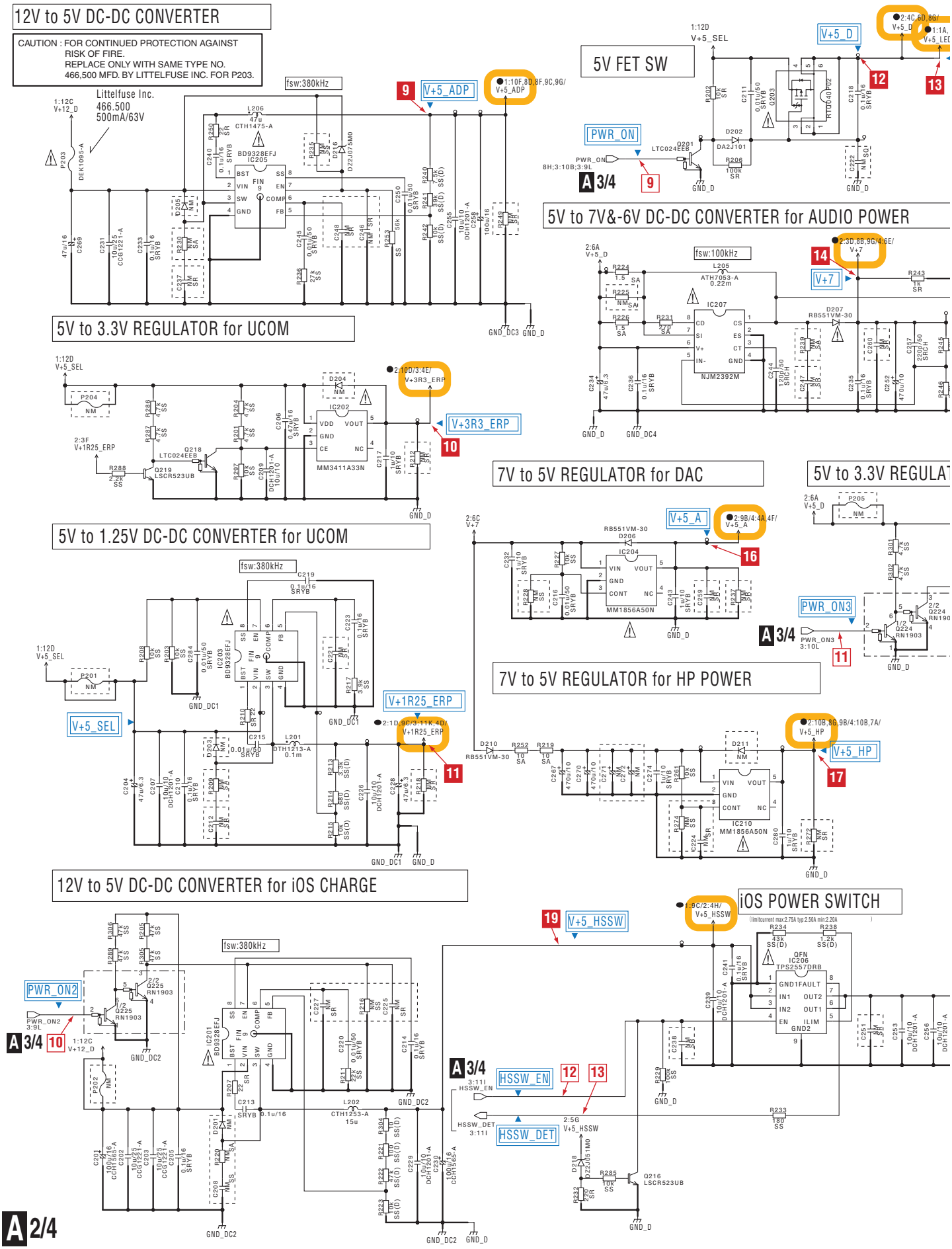
▼ ***** The check point for service. (Legend silk indication on the PCB.)

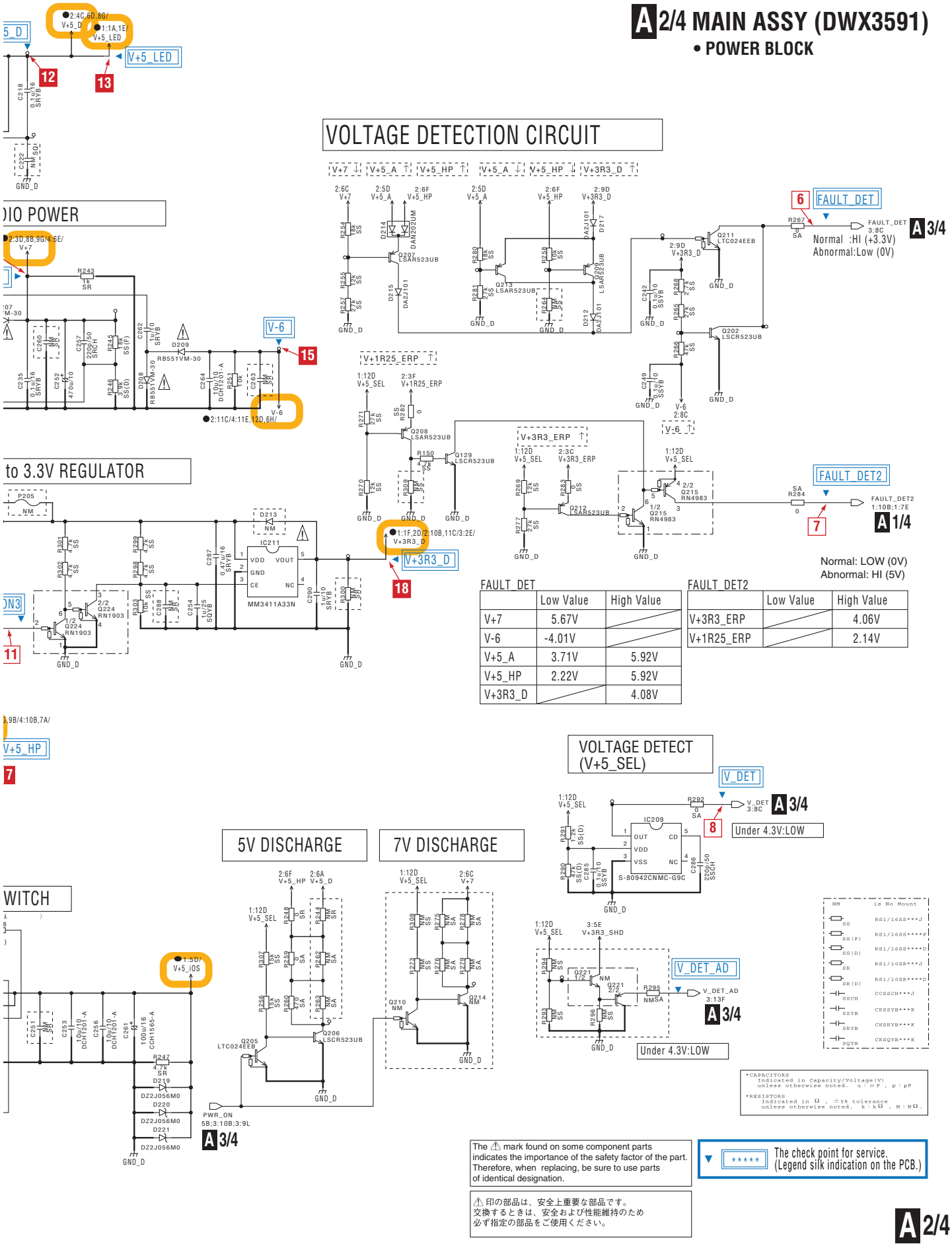
(MIC_A) : MIC Audio Signal

(HP_O) : HP OUT Signal (L ch)

A 1/4

10.2 MAIN ASSY (2/4)





FAULT_DET	Low Value	High Value
V+7	5.67V	
V-6	-4.01V	
V+5_A	3.71V	5.92V
V+5_HP	2.22V	5.92V
V+3R3_D		4.08V

FAULT_DET2	Low Value	High Value
V+3R3_ERP		4.06V
V+1R25_ERP		2.14V

NM	is No Mount
SS	RS1/16SS***J
SS(F)	RS1/16SS****F
SS(D)	RS1/16SS****D
SR	RS1/10SR***J
SR(D)	RS1/10SR****D
SSCH	CCSSCH***J
SSYB	CKSSYB***K
SRYB	CKSRYB***K
SQYB	CKSQYB***K

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

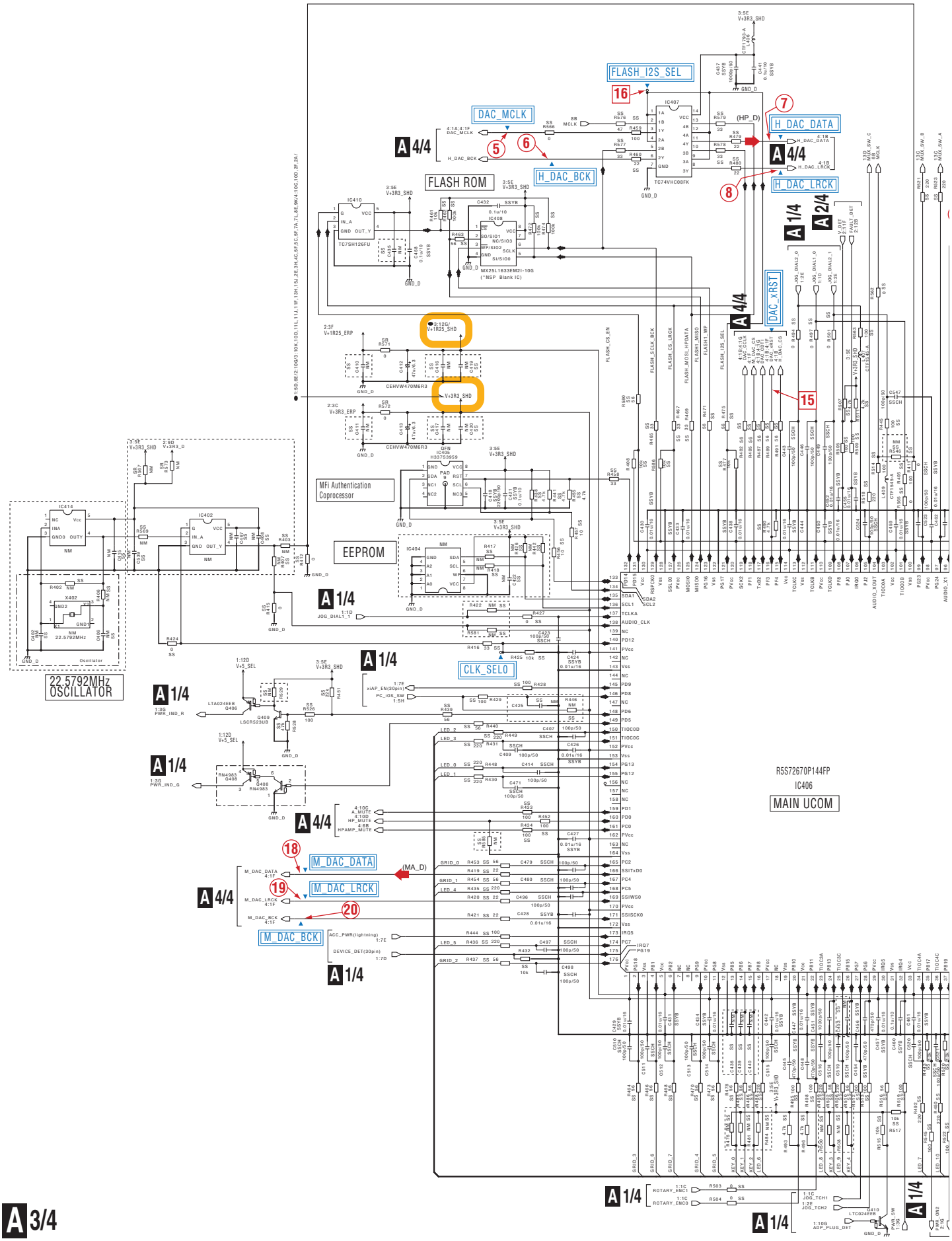
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ .

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。

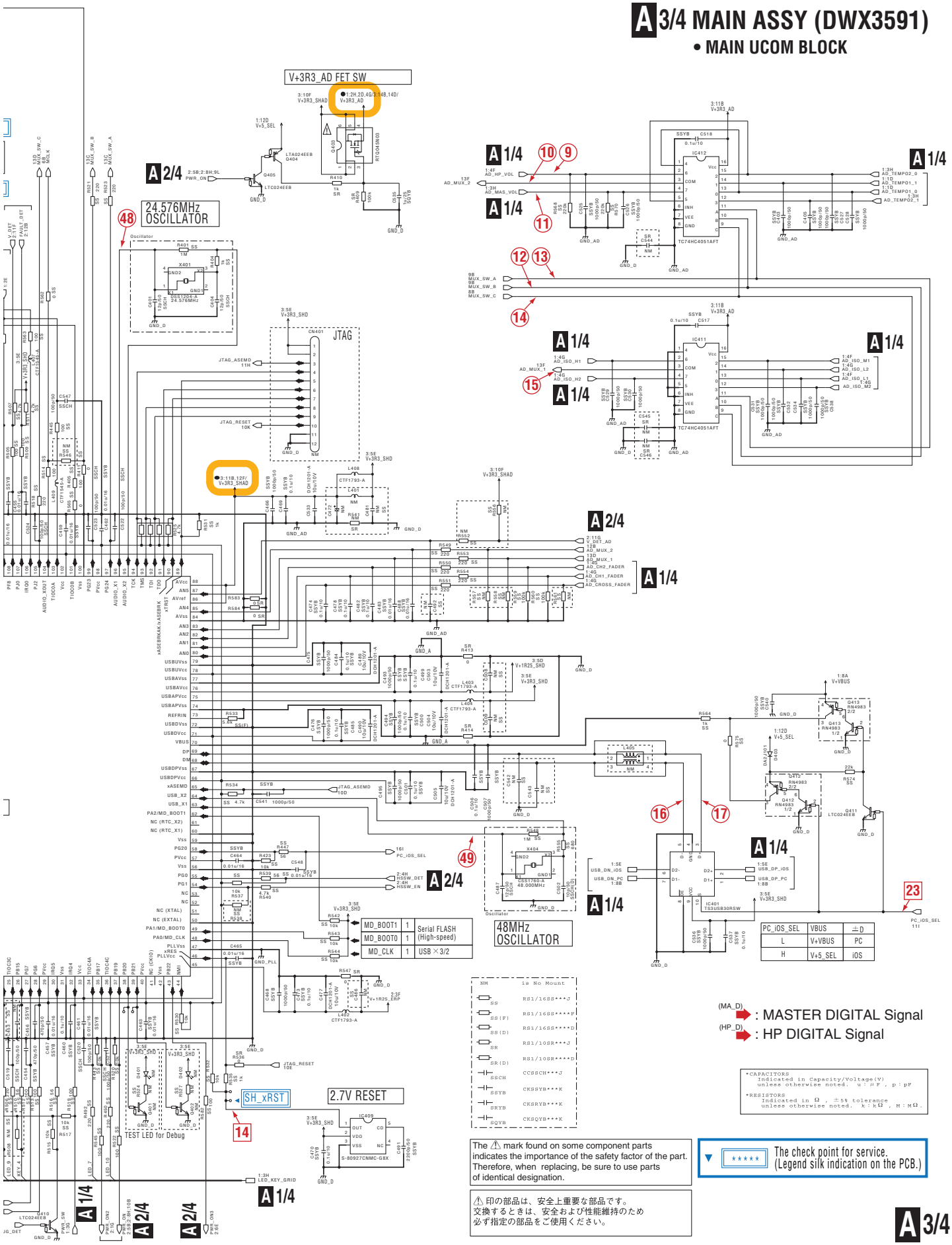
***** The check point for service. (Legend silk indication on the PCB.)

10.3 MAIN ASSY (3/4)

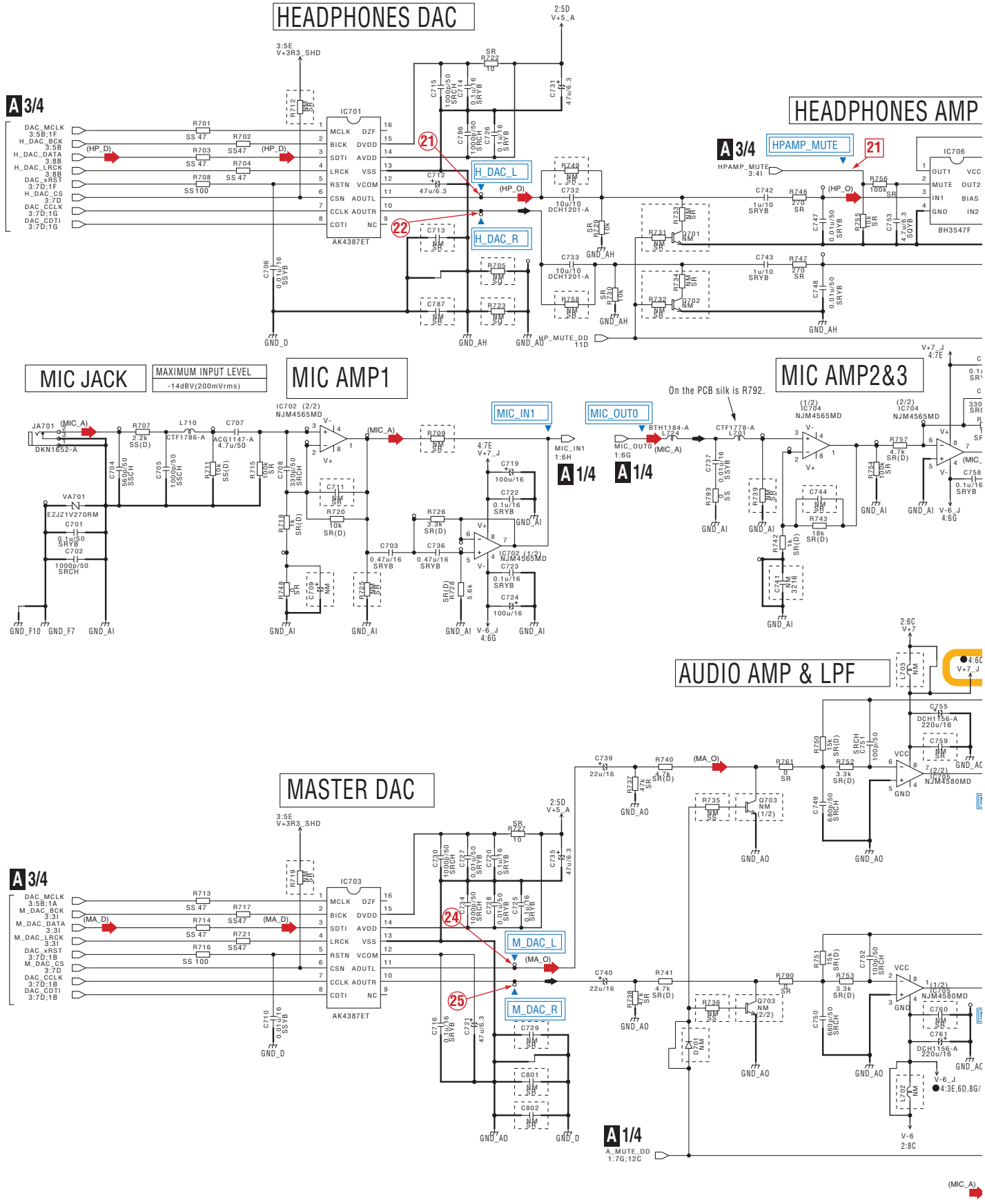


A 3/4 MAIN ASSY (DWX3591)

• MAIN UCOM BLOCK

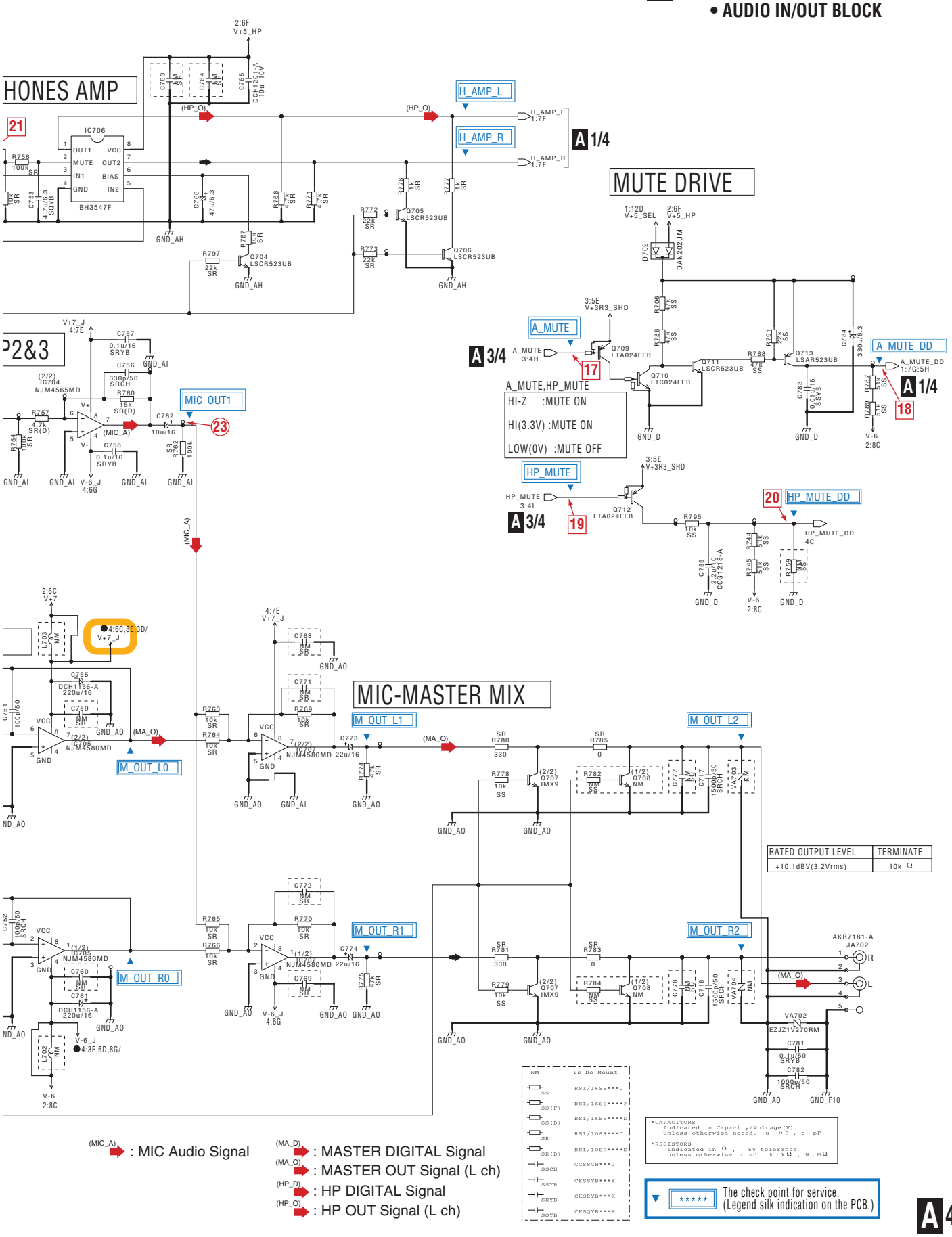


10.4 MAIN ASSY (4/4)

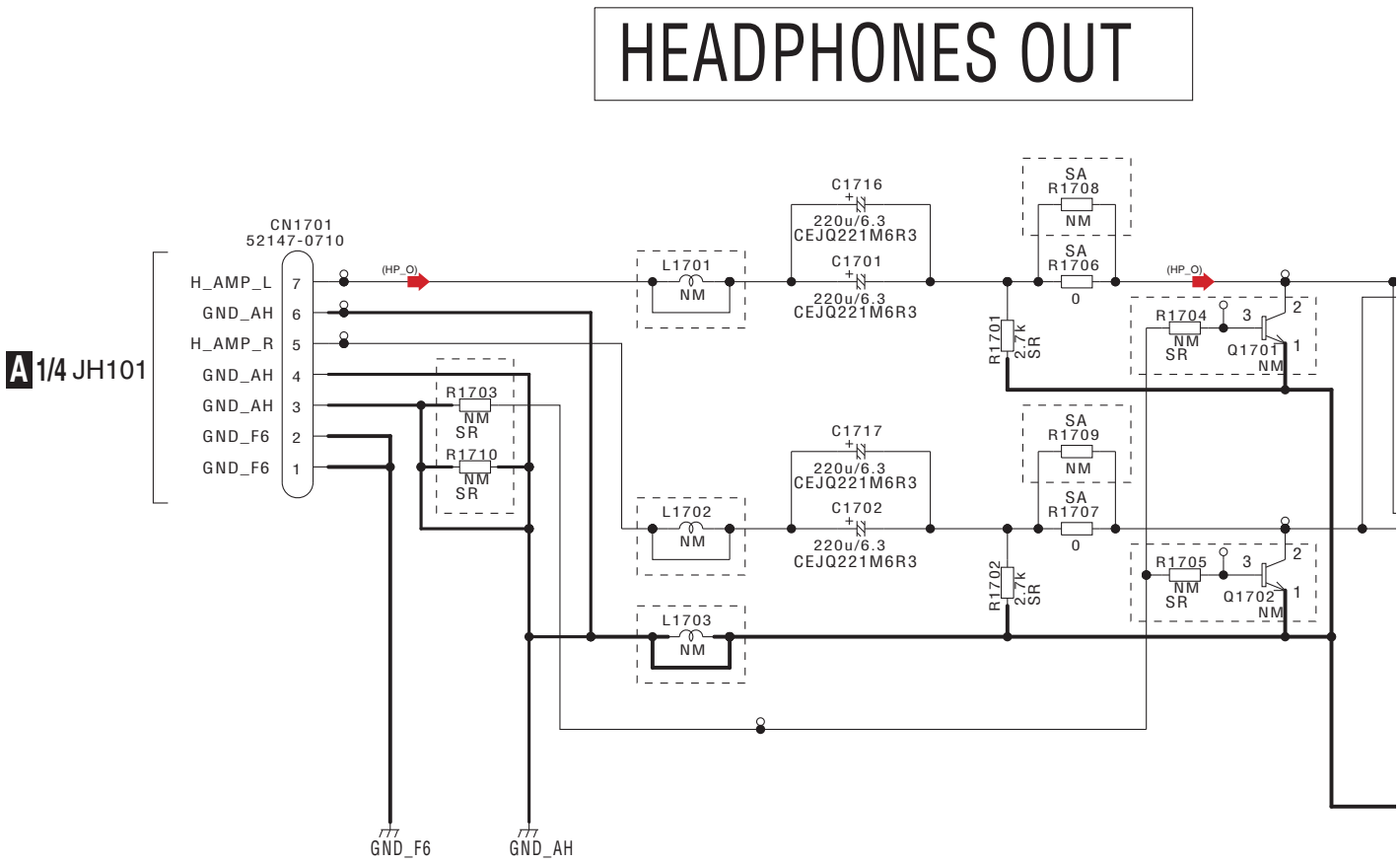


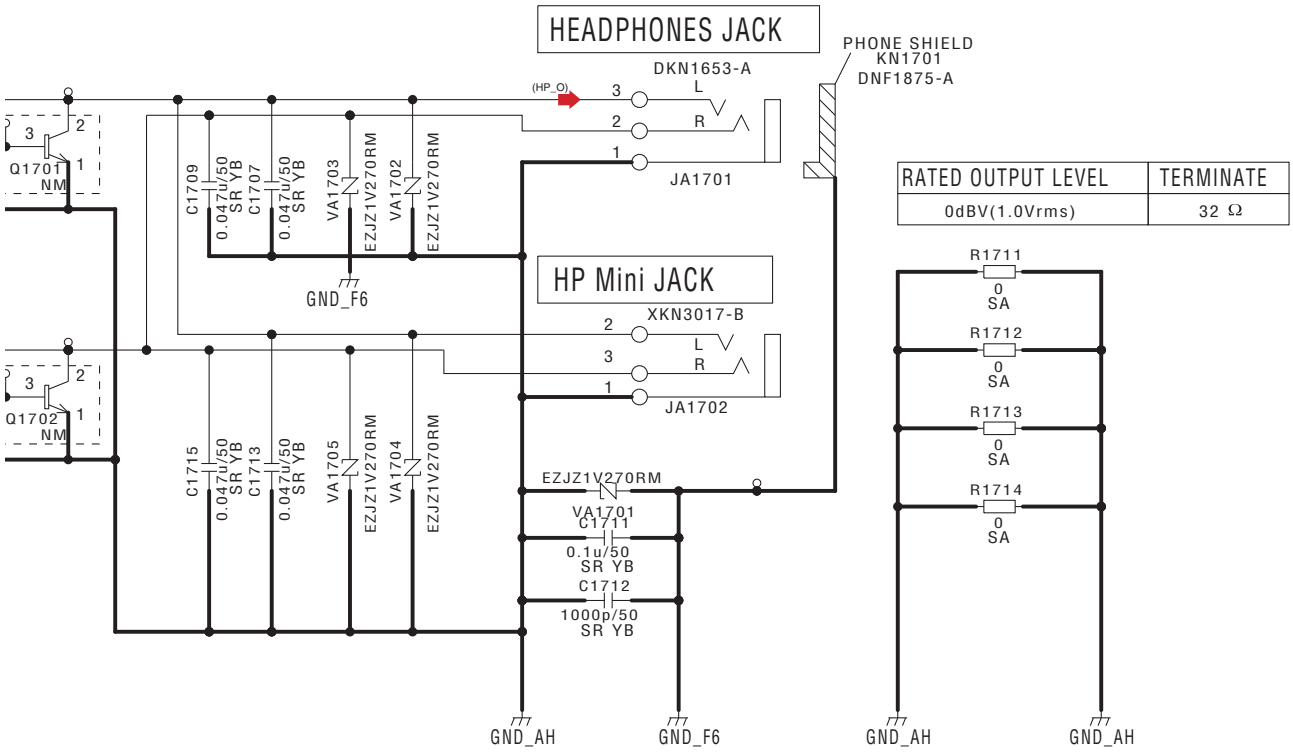
A 4/4 MAIN ASSY (DWX3591)

• AUDIO IN/OUT BLOCK



10.5 HPJK ASSY





RATED OUTPUT LEVEL	TERMINATE
0dBV(1.0Vrms)	32 Ω

(HP_O) : HP OUT Signal (L ch)

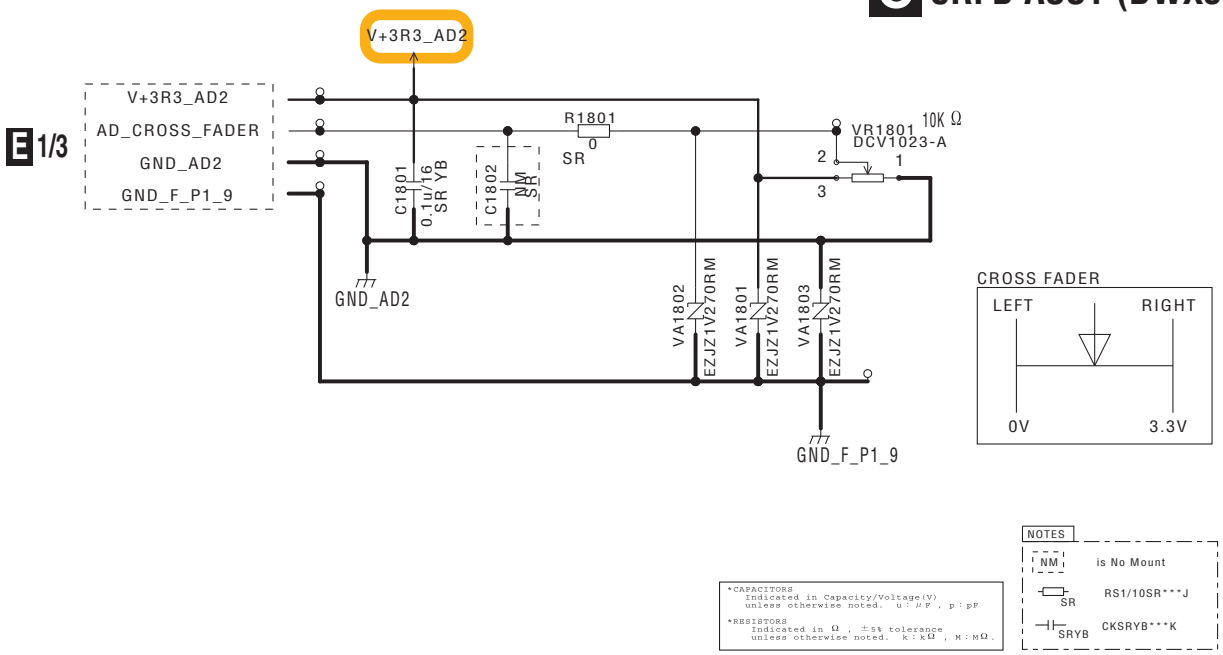
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

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

NOTES
NM is No Mount
SR RS1/10SR***J
SA RS1/4SA***J
SRYB CKSRYB***K

10.6 CRFD ASSY

C CRFD ASSY (DWX3597)



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

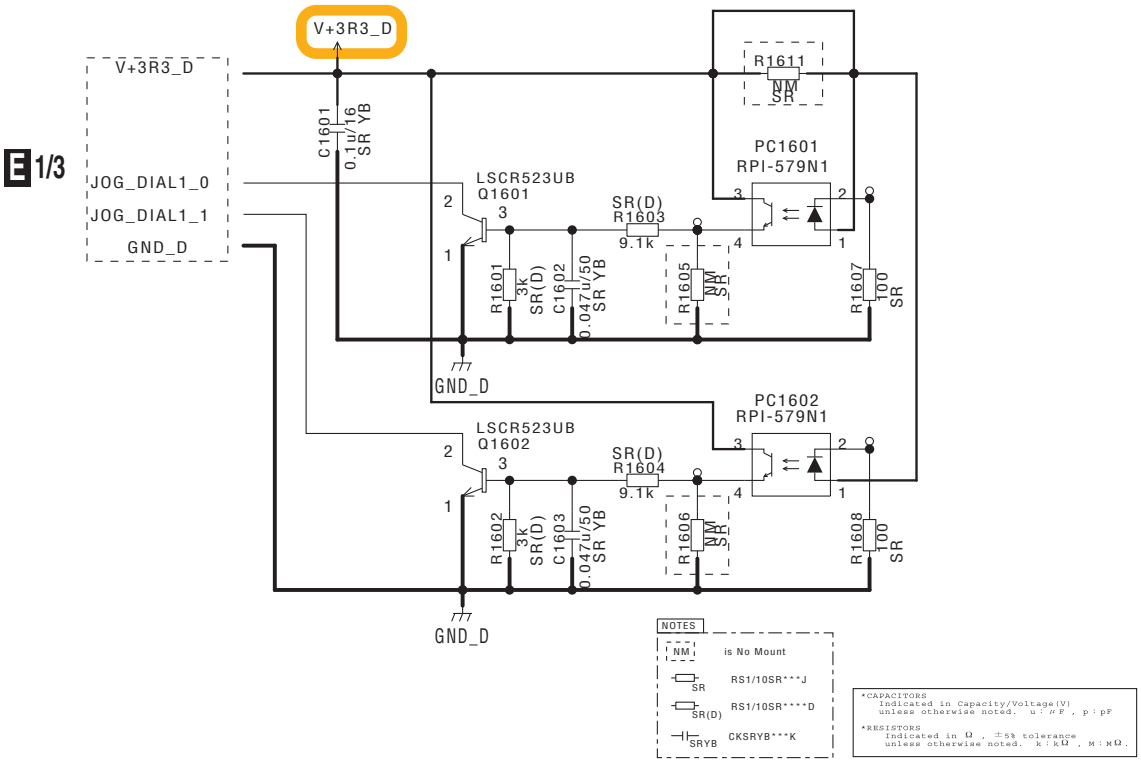
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

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

C

10.7 JOG1 ASSY

D JOG1 ASSY (DWX3593)



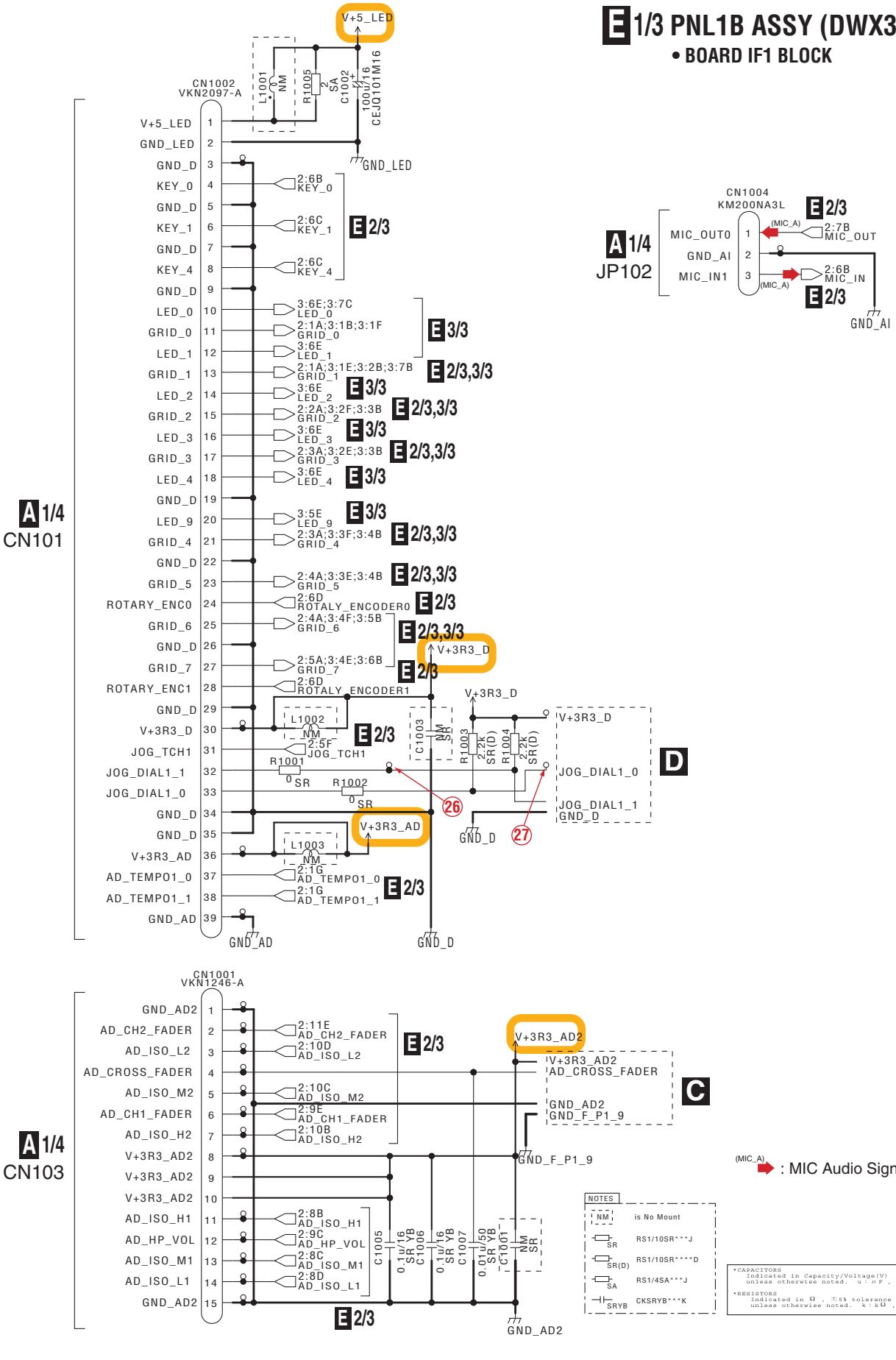
NOTES
NM is No Mount
SR RS1/10SR***J
SR(D) RS1/10SR****D
SRYB CKSRYB***K

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

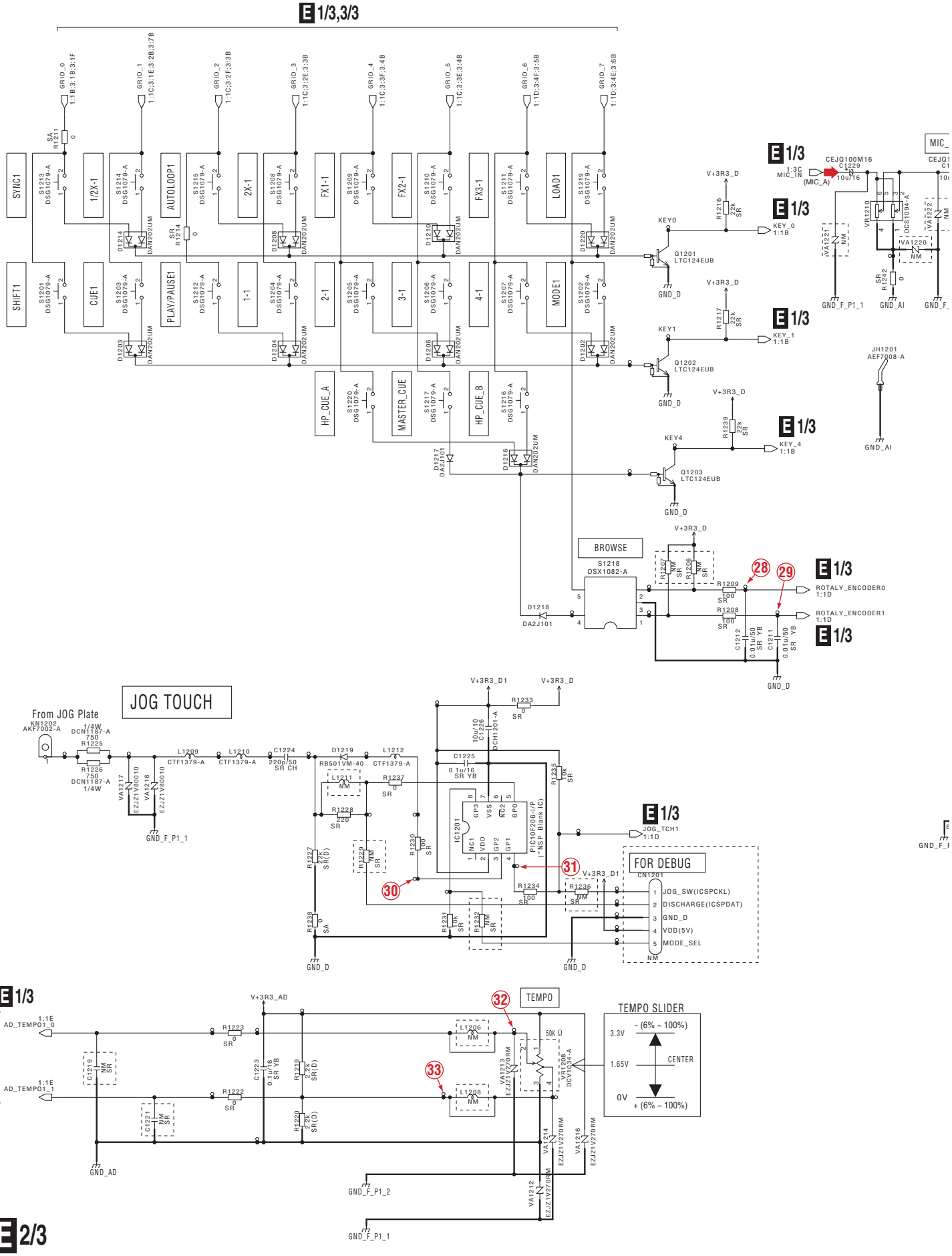
*RESISTORS
Indicated in Ω , ±5% tolerance
unless otherwise noted. k : kΩ , M : MΩ.

D

10.8 PNL1B ASSY (1/3)

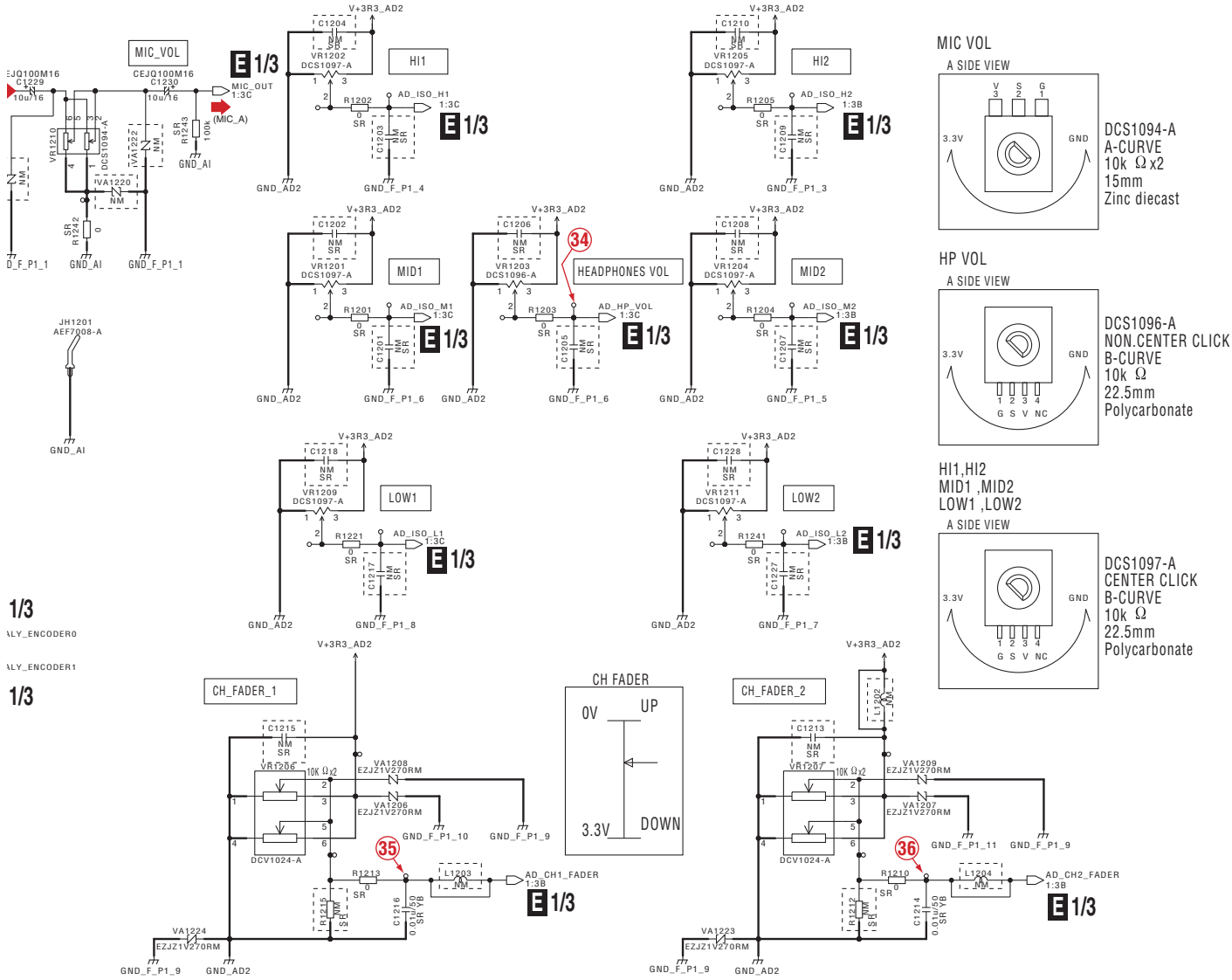


10.9 PNL1B ASSY (2/3)

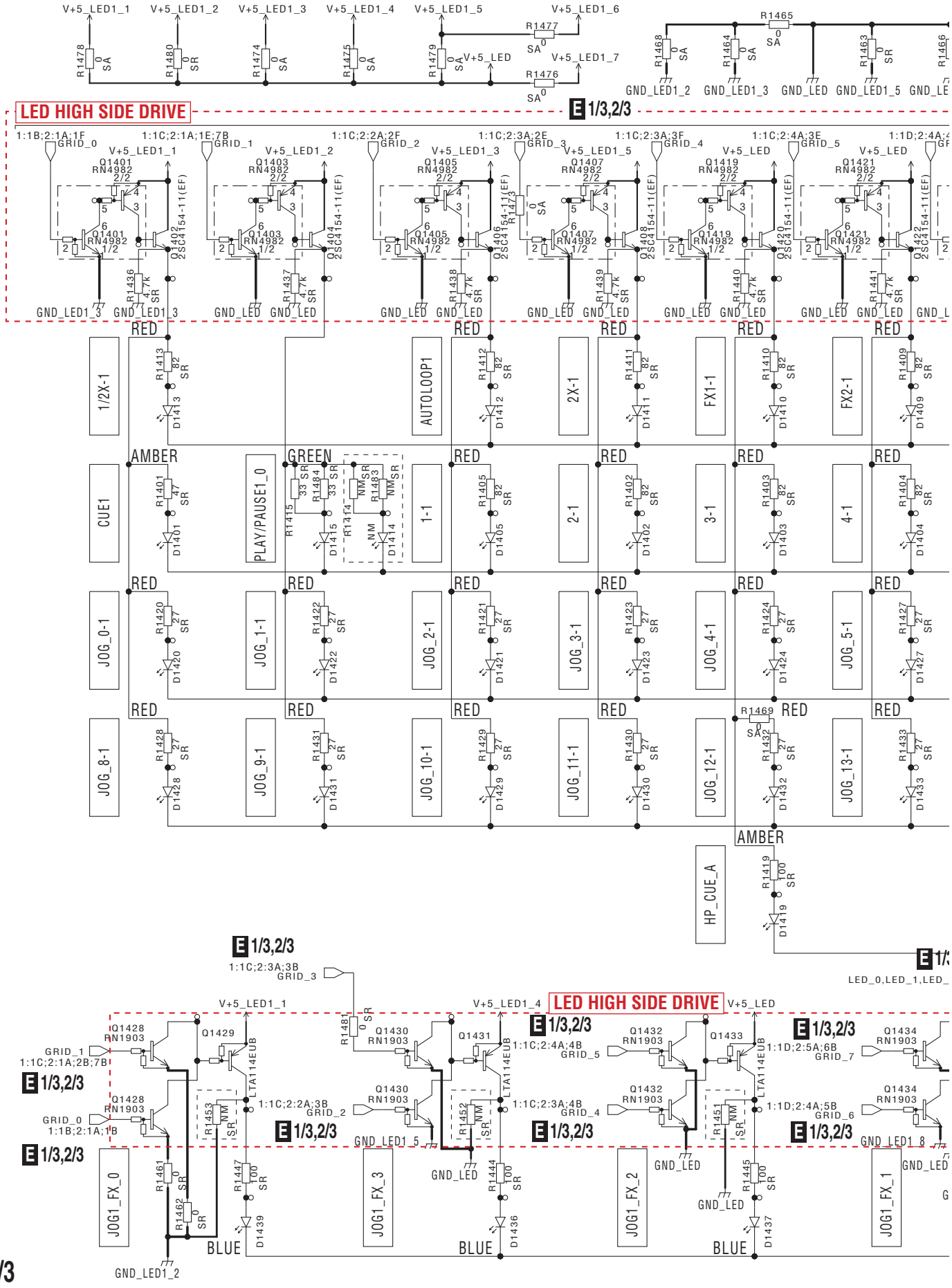


E 2/3 PNL1B ASSY (DWX3592)

• KEY1, VR1, JOG TCH1 BLOCK

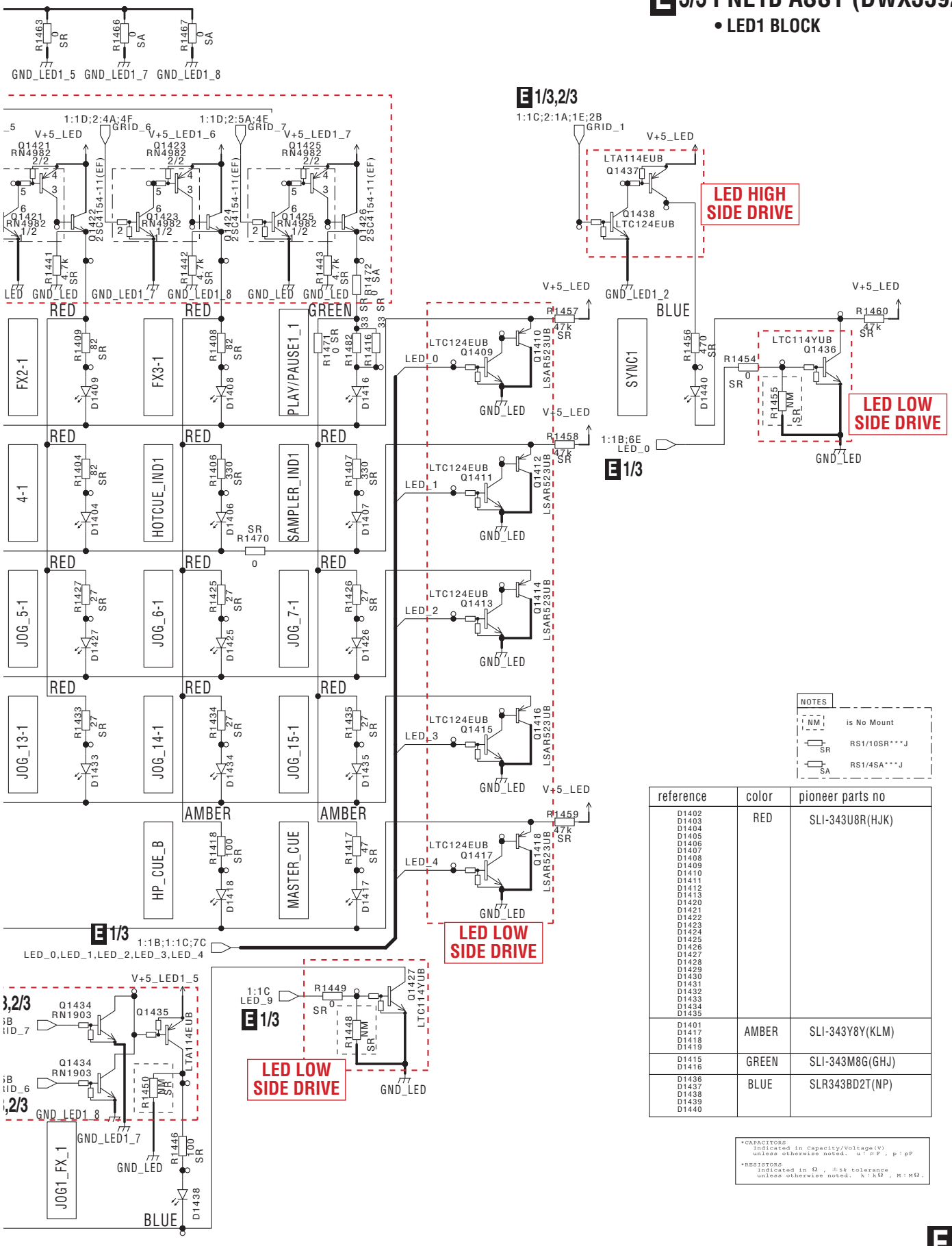


10.10 PNL1B ASSY (3/3)



E 3/3 PNL1B ASSY (DWX3592)

• LED1 BLOCK



NOTES

NM is No Mount

SR RS1/10SR***J

SA RS1/4SA***J

reference	color	pioneer parts no
D1402 D1403 D1404 D1405 D1406 D1407 D1408 D1409 D1410 D1411 D1412 D1413 D1420 D1421 D1422 D1423 D1424 D1425 D1426 D1427 D1428 D1429 D1430 D1431 D1432 D1433 D1434 D1435	RED	SLI-343U8R(HJK)
D1401 D1417 D1418 D1419	AMBER	SLI-343Y8Y(KLM)
D1415 D1416	GREEN	SLI-343M8G(GHJ)
D1436 D1437 D1438 D1439 D1440	BLUE	SLR343BD2T(NP)

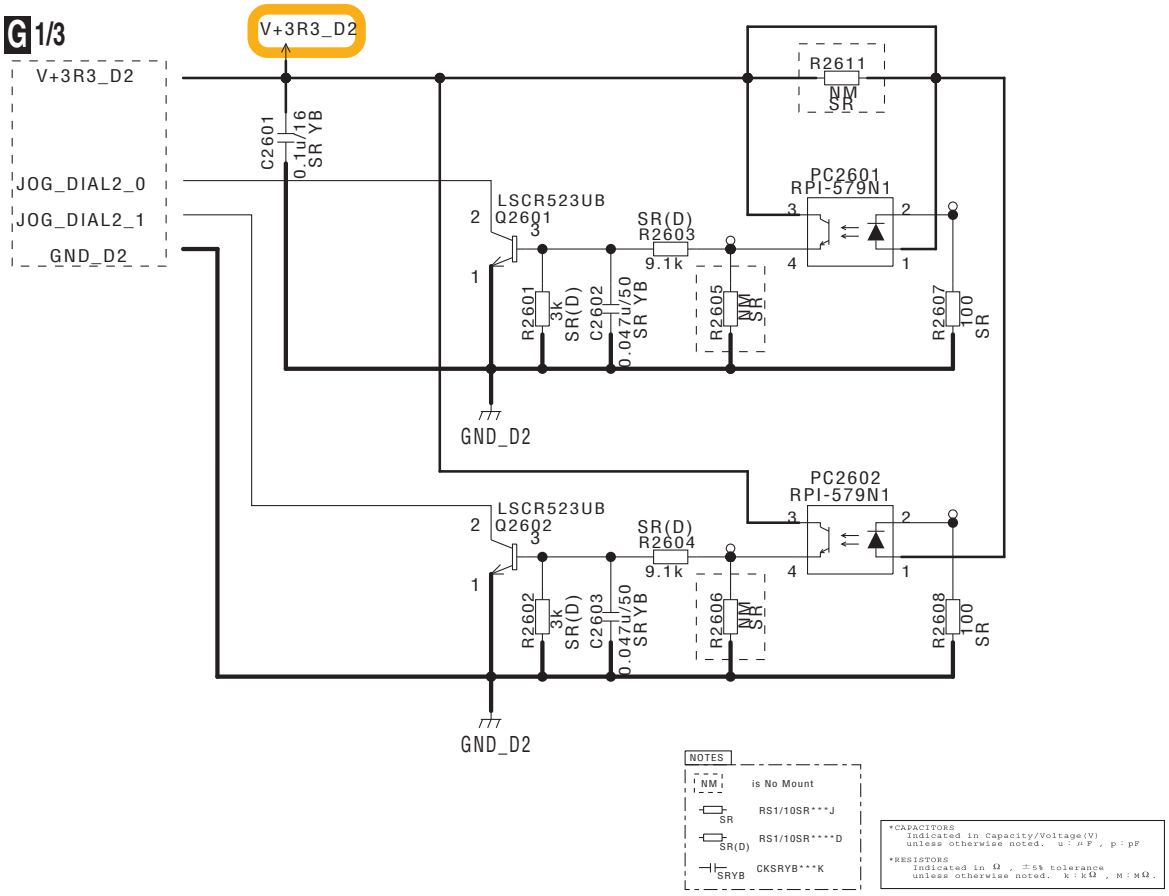
*CAPACITORS
Indicated in Capacity/Voltage(V)
unless otherwise noted. u : μF , p : pF

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

E 3/3

10.11 JOG2 ASSY

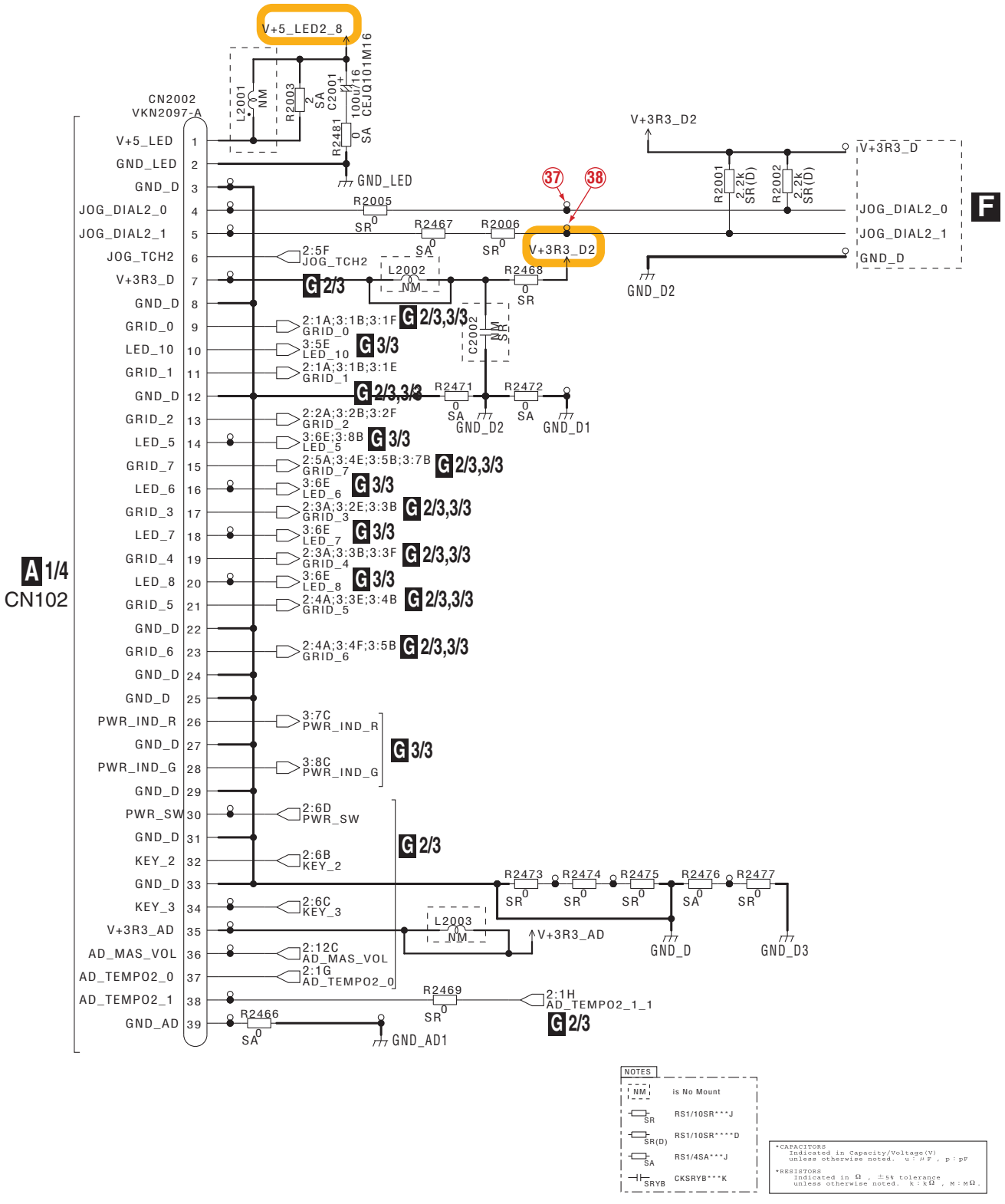
F JOG2 ASSY (DWX3596)



10.12 PNL2B ASSY (1/3)

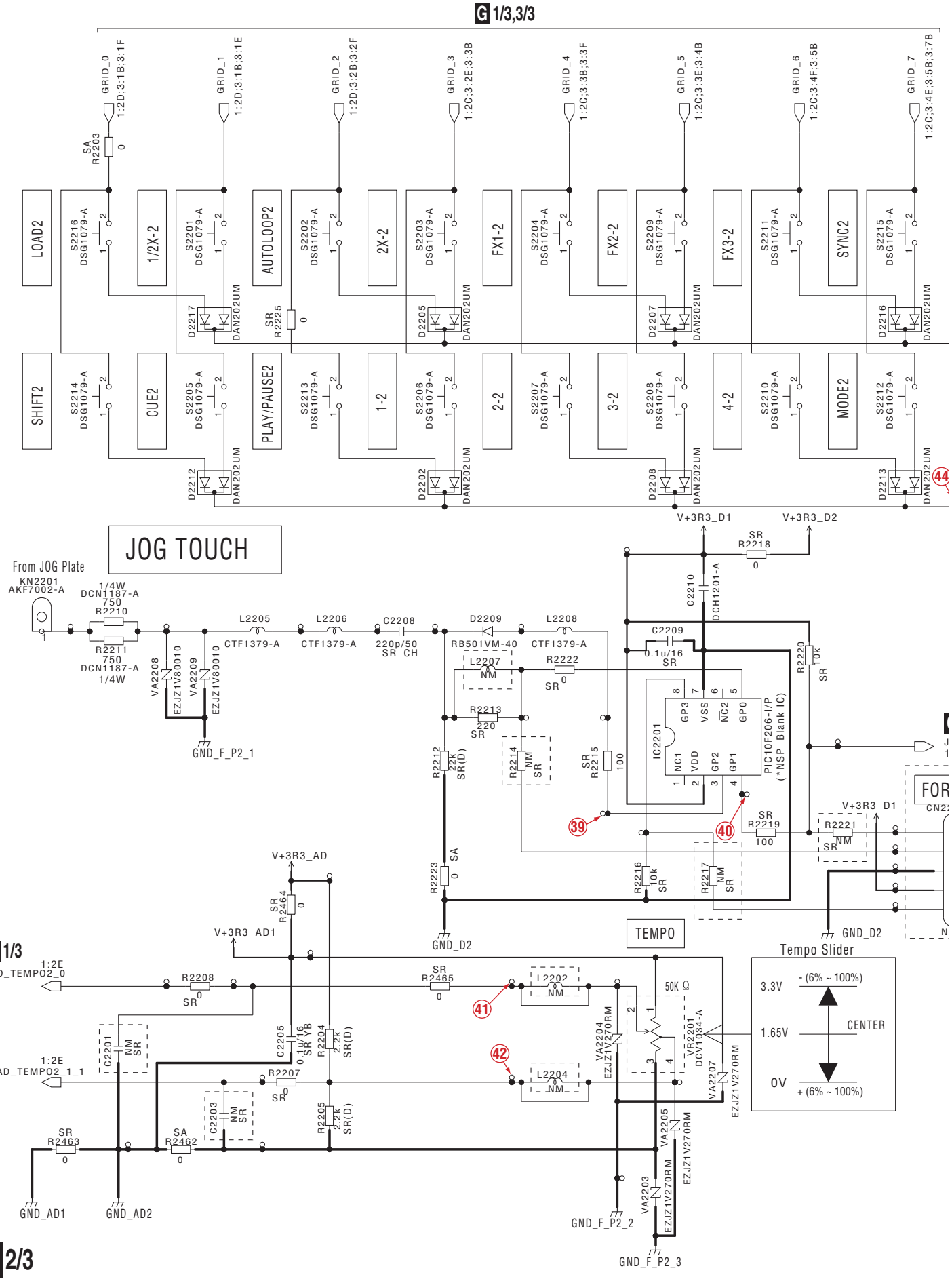
G 1/3 PNL2B ASSY (DWX3595)

• BOARD IF2 BLOCK



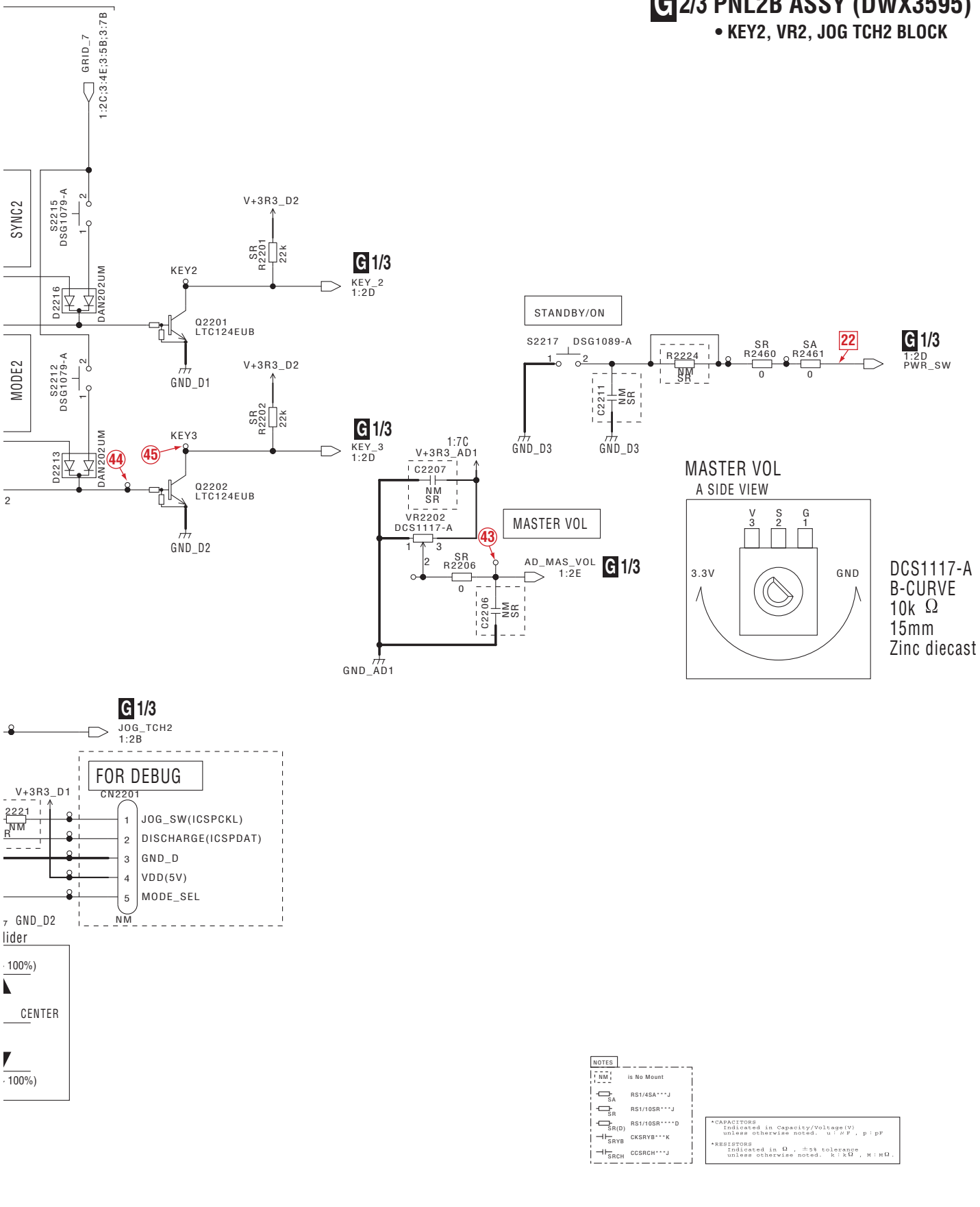
G 1/3

10.13 PNL2B ASSY (2/3)

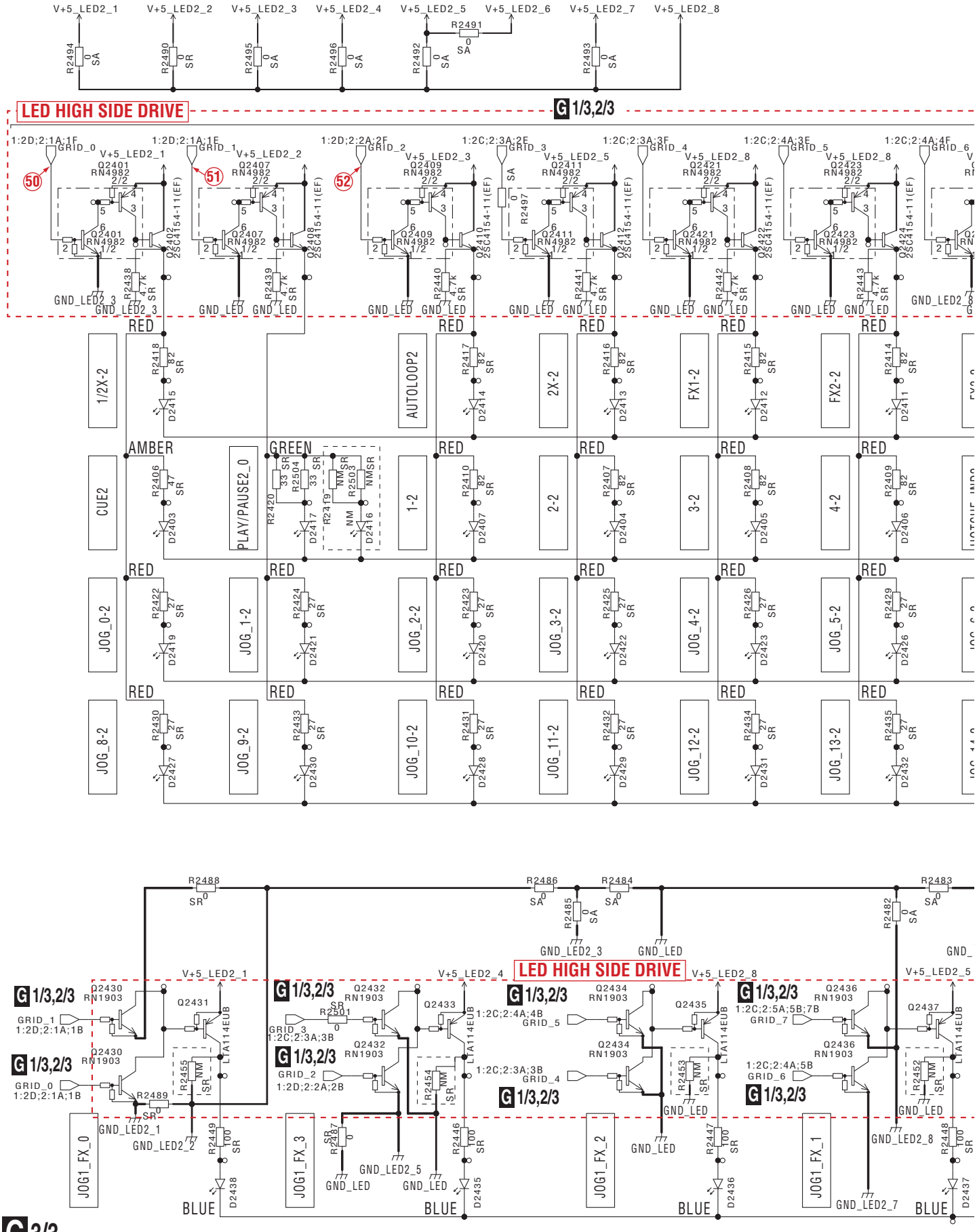


G 2/3 PNL2B ASSY (DWX3595)

• KEY2, VR2, JOG TCH2 BLOCK

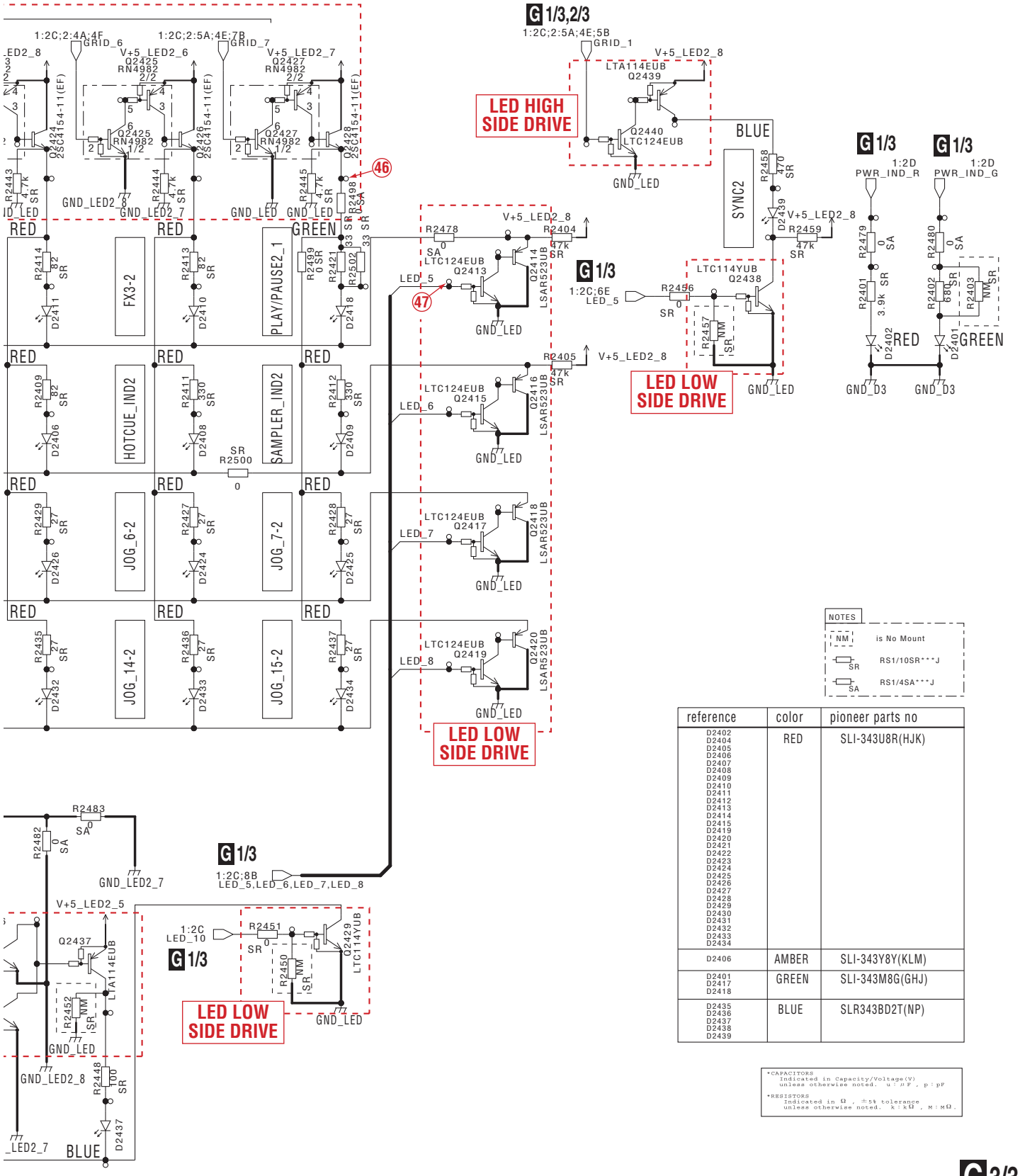


10.14 PNL2B ASSY (3/3)



G 3/3 PNL2B ASSY (DWX3595)

• LED2 BLOCK



NOTES

NM is No Mount

SR RS1/10SR***J

SA RS1/4SA***J

reference	color	pioneer parts no
D2402 D2404 D2405 D2406 D2407 D2408 D2409 D2410 D2411 D2412 D2413 D2414 D2415 D2419 D2420 D2421 D2422 D2423 D2424 D2425 D2426 D2427 D2428 D2429 D2430 D2431 D2432 D2433 D2434	RED	SLI-343U8R(HJK)
D2406	AMBER	SLI-343Y8Y(KLM)
D2401 D2417 D2418	GREEN	SLI-343M8G(GHJ)
D2435 D2436 D2437 D2438 D2439	BLUE	SLR343BD2T(NP)

*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 .

10.15 VOLTAGES

名称 Name	正常電圧レベル Normal Voltage Level	関連するAssy Related Assy	観測ポイント Measurement Point
V+12_ADP	11.4 to 12.6 V	MAIN ASSY	1
V+12_SW	11.4 to 12.6 V	MAIN ASSY	2
V+12_D	11.4 to 12.6 V	MAIN ASSY	3
V+VBUS	4.7 to 5.3 V	MAIN ASSY	4
V+5_SW	4.7 to 5.3 V	MAIN ASSY	5
V+5_SEL	4.7 to 5.3 V	MAIN ASSY	6
V+5_iOS	5.0 to 5.3 V	MAIN ASSY	7
V+3R3_AD V+3R3_AD2	3.2 to 3.4 V	MAIN ASSY, PNL1B ASSY, PNL2B ASSY, CRFD ASSY	8
V+5_ADP	4.9 to 5.3 V	MAIN ASSY	9
V+3R3_ERP	3.2 to 3.4 V	MAIN ASSY	10
V+1R25_ERP	1.2 to 1.3 V	MAIN ASSY	11
V+5_D	4.7 to 5.3 V	MAIN ASSY	12
V+5_LED	4.7 to 5.3 V	MAIN ASSY, PNL1B ASSY, PNL2B ASSY	13
V+7	6.7 to 7.3 V	MAIN ASSY	14
V-6	-5.7 to -6.3 V	MAIN ASSY	15
V+5_A	4.9 to 5.1 V	MAIN ASSY	16
V+5_HP	4.3 to 5.1 V	MAIN ASSY	17
V+3R3_D	3.2 to 3.4 V	MAIN ASSY, PNL1B ASSY, PNL2B ASSY, JOG1 ASSY, JOG2 ASSY	18
V+5_HSSW	5.0 to 5.3 V	MAIN ASSY	19

■ 主要信号論理表 / Main Signals Logic Table

名称	正常電圧レベル	関連するAssy	観測ポイント
Name	**Normal Voltage Level**	**Related Assy**	**Measurement Point**
ADP_PLUG_DET	WITH PLUG: HI WITHOUT PLUG: LOW	MAIN ASSY	2
DEVICE_DET	WITH iOS DEVICE (30pin): HI WITHOUT iOS DEVICE (30pin): LOW	MAIN ASSY	3
xiAP_EN	WITH iOS DEVICE (30pin): LOW WITHOUT iOS DEVICE (30pin): HI	MAIN ASSY	4
ACC_PWR	WITH iOS DEVICE (lightning): LOW WITHOUT iOS DEVICE (lightning): HI	MAIN ASSY	5
FAULT_DET	NORMAL: HI ABNORMAL: LOW	MAIN ASSY	6
FAULT_DET2	NORMAL: LOW ABNORMAL: HI	MAIN ASSY	7
V_DET	NORMAL: HI ABNORMAL: LOW	MAIN ASSY	8
PWR_ON	POWER ON: HI POWER OFF: LOW	MAIN ASSY	9
PWR_ON2	POWER ON, WITH iOS DEVICE AND AC ADAPTER: HI POWER ON, WITHOUT iOS DEVICE or AC ADAPTER: LOW POWER OFF: LOW	MAIN ASSY	10
PWR_ON3	POWER ON: HI POWER OFF: LOW	MAIN ASSY	11
HSSW_EN	WITH iOS DEVICE (30pin, lightning) &AC ADAPTER: HI WITHOUT iOS DEVICE or AC ADAPTER: LOW HSSW_DET is HI: LOW	MAIN ASSY	12
HSSW_DET	NORMAL: LOW ABNORMAL: HI	MAIN ASSY	13
SH_xRST	POWER ON: HI POWER OFF: LOW	MAIN ASSY	14
DAC_xRST	POWER ON: HI POWER OFF: LOW	MAIN ASSY	15
FLASH_I2S_SEL	DURING STARTUP: LOW AFTER STARTUP: HI	MAIN ASSY	16
A_MUTE	MUTE_ON: HI MUTE_OFF: LOW	MAIN ASSY	17
A_MUTE_DD	MUTE_ON: HI MUTE_OFF: LOW	MAIN ASSY	18
HP_MUTE	MUTE_ON: HI MUTE_OFF: LOW	MAIN ASSY	19
HP_MUTE_DD	MUTE_ON: HI MUTE_OFF: LOW	MAIN ASSY	20
HPAMP_MUTE	MUTE_ON: LOW MUTE_OFF: HI	MAIN ASSY	21
PWR_SW	STANDBY/ON button is pressed: LOW STANDBY/ON button is not pressed: HI	MAIN ASSY, PNL2B ASSY	22
PC_iOS_SEL	WITH iOS DEVICE: HI WITH PC: LOW	MAIN ASSY	23

10.16 WAVEFORMS

注意：
オシロスコープの表示電圧値は参考値であり、オシロスコープの設定やプローブによって変化します。
◯ で囲まれた数字は回路図及び PCB 図の各測定ポイントの番号を示します。

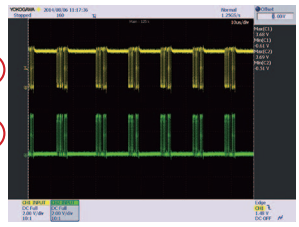
Note:
The indicated voltage values of the oscilloscope in this section are reference values and may vary, depending on the settings of the oscilloscopes and probes.
The numerics circled with a frame denote numbers for the measurement points indicated in the Schematic diagrams and PCB diagrams.

A MAIN ASSY

USB-B +D/-D
Condition: Power ON
using USB cable, PC connected

(2) **L104 - pin 4 (USB_DP_PC)**
V: 2.0 V/div. H: 10 µS/div.

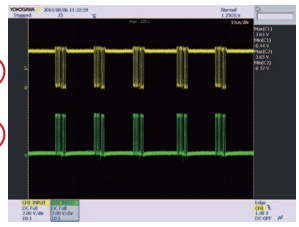
(1) **L104 - pin 1 (USB_DN_PC)**
V: 2.0 V/div. H: 10 µS/div.



iOS +D/-D
using AC adapter,
iOS device connected

(3) **L105 - pin 1 (USB_DP_iOS)**
V: 2.0 V/div. H: 10 µS/div.

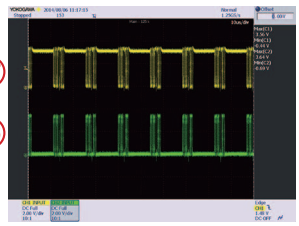
(4) **L105 - pin 4 (USB_DN_iOS)**
V: 2.0 V/div. H: 10 µS/div.



USB +D/-D
Condition: Power ON
using USB cable, PC connected

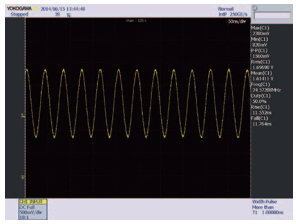
(17) **IC401 - pin 3 (DP)**
V: 2.0 V/div. H: 10 µS/div.

(16) **IC401 - pin 5 (DM)**
V: 2.0 V/div. H: 10 µS/div.



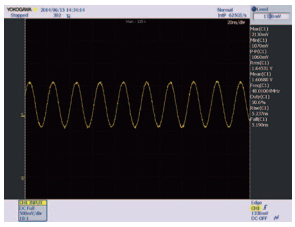
X'tal (24.576 MHz OSCILLATOR)
Condition: Power ON
using AC adapter

(48) **IC406 - pin 96 (AUDIO_X1)**
V: 500 mV/div. H: 20 nS/div.



X'tal (48 MHz OSCILLATOR)
Condition: Power ON
using AC adapter

(49) **IC406 - pin 63 (USB_X1)**
V: 500 mV/div. H: 20 nS/div.



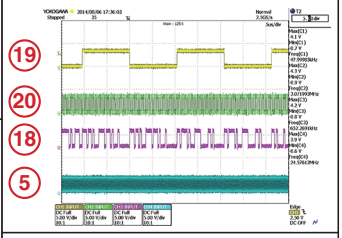
MASTER DAC I2S
Condition: Power ON
using AC adapter,
1 kHz, 0 dB Playback (PC), MASTER VOL MAX

(19) **M_DAC_LRCK**
V: 5.0 V/div. H: 5 µS/div.

(20) **M_DAC_BCK**
V: 5.0 V/div. H: 5 µS/div.

(18) **M_DAC_DATA**
V: 5.0 V/div. H: 5 µS/div.

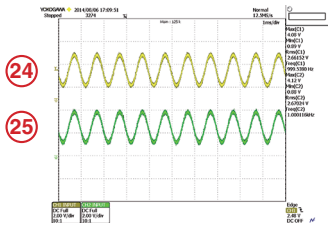
(5) **DAC_MCLK**
V: 5.0 V/div. H: 5 µS/div.



MASTER DAC Output
Condition: Power ON
using AC adapter,
1 kHz, 0 dB Playback (PC), MASTER VOL MAX

(24) **M_DAC_L**
V: 2.0 V/div. H: 1 mS/div.

(25) **M_DAC_R**
V: 2.0 V/div. H: 1 mS/div.



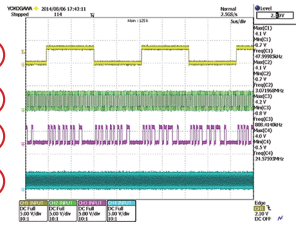
HEADPHONES DAC I2S
Condition: Power ON
using AC adapter,
1 kHz, 0 dB Playback (PC), Headphones VOL MAX

(8) **H_DAC_LRCK**
V: 5.0 V/div. H: 5 µS/div.

(6) **H_DAC_BCK**
V: 5.0 V/div. H: 5 µS/div.

(7) **H_DAC_DATA**
V: 5.0 V/div. H: 5 µS/div.

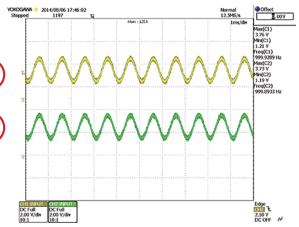
(5) **DAC_MCLK**
V: 5.0 V/div. H: 5 µS/div.



HEADPHONES DAC Output
Condition: Power ON
using AC adapter,
1 kHz, 0 dB Playback (PC), Headphones VOL MAX

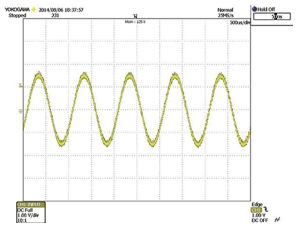
(21) **H_DAC_L**
V: 2.0 V/div. H: 1 mS/div.

(22) **H_DAC_R**
V: 2.0 V/div. H: 1 mS/div.



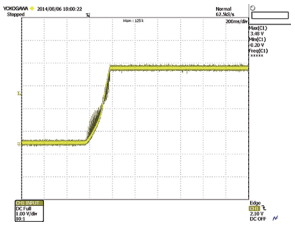
MIC Signal
Condition: Power ON
using AC adapter,
1 kHz, -54 dB input, MIC VOL MAX

(23) **MIC_OUT1**
V: 1.0 V/div. H: 500 µS/div.



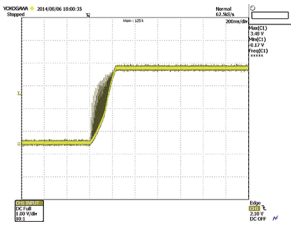
MASTER VOL Operation
Condition: Power ON
using AC adapter,
MASTER VOL MIN → MAX

(11) (43) **AD_MAS_VOL**
V: 1.0 V/div. H: 500 mS/div.



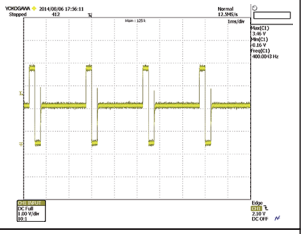
HEADPHONES VOL Operation
Condition: Power ON
using AC adapter,
Headphones VOL MIN → MAX

(9) (34) **AD_HP_VOL**
V: 1.0 V/div. H: 200 mS/div.



Multiplexer output
Condition: Power ON
using AC adapter,
Headphones VOL MIN / MASTER VOL MAX

(10) (15) **IC412 - pin 3 (AD_MUX_2)**
V: 1.0 V/div. H: 1 mS/div.

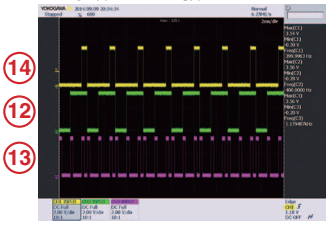


Multiplexer Switching
Condition: Power ON
using AC adapter

(14) **MUX_SW_C**
V: 2.0 V/div. H: 2 mS/div.

(12) **MUX_SW_B**
V: 2.0 V/div. H: 2 mS/div.

(13) **MUX_SW_A**
V: 2.0 V/div. H: 2 mS/div.

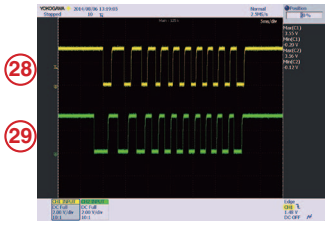


E PNL1B ASSY

BROWSE
Condition: Power ON
using AC adapter, Right rotation

(28) **R1209 (ROTALY_ENCODER0)**
V: 2.0 V/div. H: 5 mS/div.

(29) **R1208 (ROTALY_ENCODER1)**
V: 2.0 V/div. H: 5 mS/div.



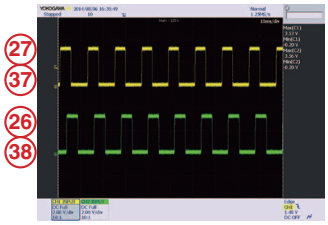
JOG DIAL
Condition: Power ON
using AC adapter, Right rotation

(27) **R1002 (JOG_DIAL1_0)**
V: 2.0 V/div. H: 10 mS/div.

(37) **R2005 (JOG_DIAL2_0)**
V: 2.0 V/div. H: 10 mS/div.

(26) **R1001 (JOG_DIAL1_1)**
V: 2.0 V/div. H: 10 mS/div.

(38) **R2006 (JOG_DIAL2_1)**
V: 2.0 V/div. H: 10 mS/div.



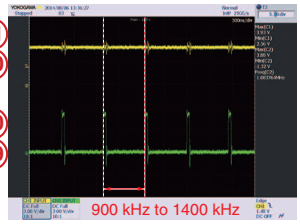
JOG Touch (Release)
Condition: Power ON
using AC adapter

(31) **IC1201 - pin 4 (JOG_TCH1)**
V: 2.0 V/div. H: 500 nS/div.

(40) **IC2201 - pin 4 (JOG_TCH2)**
V: 2.0 V/div. H: 500 nS/div.

(30) **IC1201 - pin 3**
V: 2.0 V/div. H: 500 nS/div.

(39) **IC2201 - pin 3**
V: 2.0 V/div. H: 500 nS/div.



JOG Touch (Touch)
Condition: Power ON
using AC adapter

(31) **IC1201 - pin 4 (JOG_TCH1)**
V: 2.0 V/div. H: 500 nS/div.

(31) **IC2201 - pin 4 (JOG_TCH2)**
V: 2.0 V/div. H: 500 nS/div.

(30) **IC1201 - pin 3**
V: 2.0 V/div. H: 500 nS/div.

(39) **IC2201 - pin 3**
V: 2.0 V/div. H: 500 nS/div.

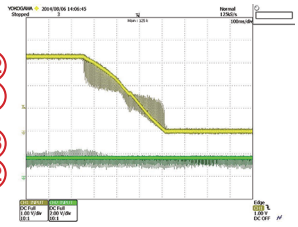
TEMPO slider operation
Condition: Power ON
Tempo slider operation - → +

(32) **AD_TEMPO1_0**
V: 1.0 V/div. H: 100 mS/div.

(41) **AD_TEMPO2_0**
V: 1.0 V/div. H: 100 mS/div.

(33) **AD_TEMPO1_1**
V: 2.0 V/div. H: 100 mS/div.

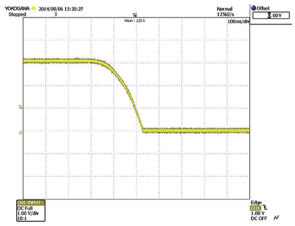
(42) **AD_TEMPO2_1**
V: 2.0 V/div. H: 100 mS/div.



CH Fader operation
Condition: Power ON
CH Fader operation DOWN → UP

(35) **AD_CH1_FADER**
V: 1.0 V/div. H: 100 mS/div.

(36) **AD_CH2_FADER**
V: 1.0 V/div. H: 100 mS/div.

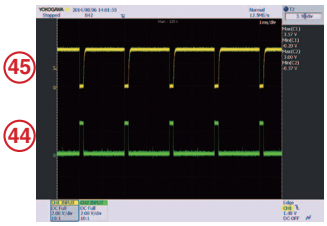


G PNL2B ASSY

KEY
Condition: Power ON
using AC adapter,
CUE button is pushed of left JOG

(45) **Q2202 - C (KEY_3)**
V: 2.0 V/div. H: 1 mS/div.

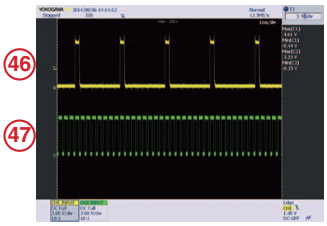
(44) **Q2202 - B**
V: 2.0 V/div. H: 1 mS/div.



LED
Condition: Power ON
All lighting mode

(46) **R2498**
V: 2.0 V/div. H: 1 mS/div.

(47) **Q2413 - B (LED_5)**
V: 2.0 V/div. H: 1 mS/div.

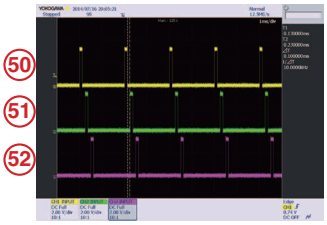


GRID Control
Condition: Power ON
using AC adapter

(50) **Q2401 - pin 2 (GRID_0)**
V: 2.0 V/div. H: 1 mS/div.

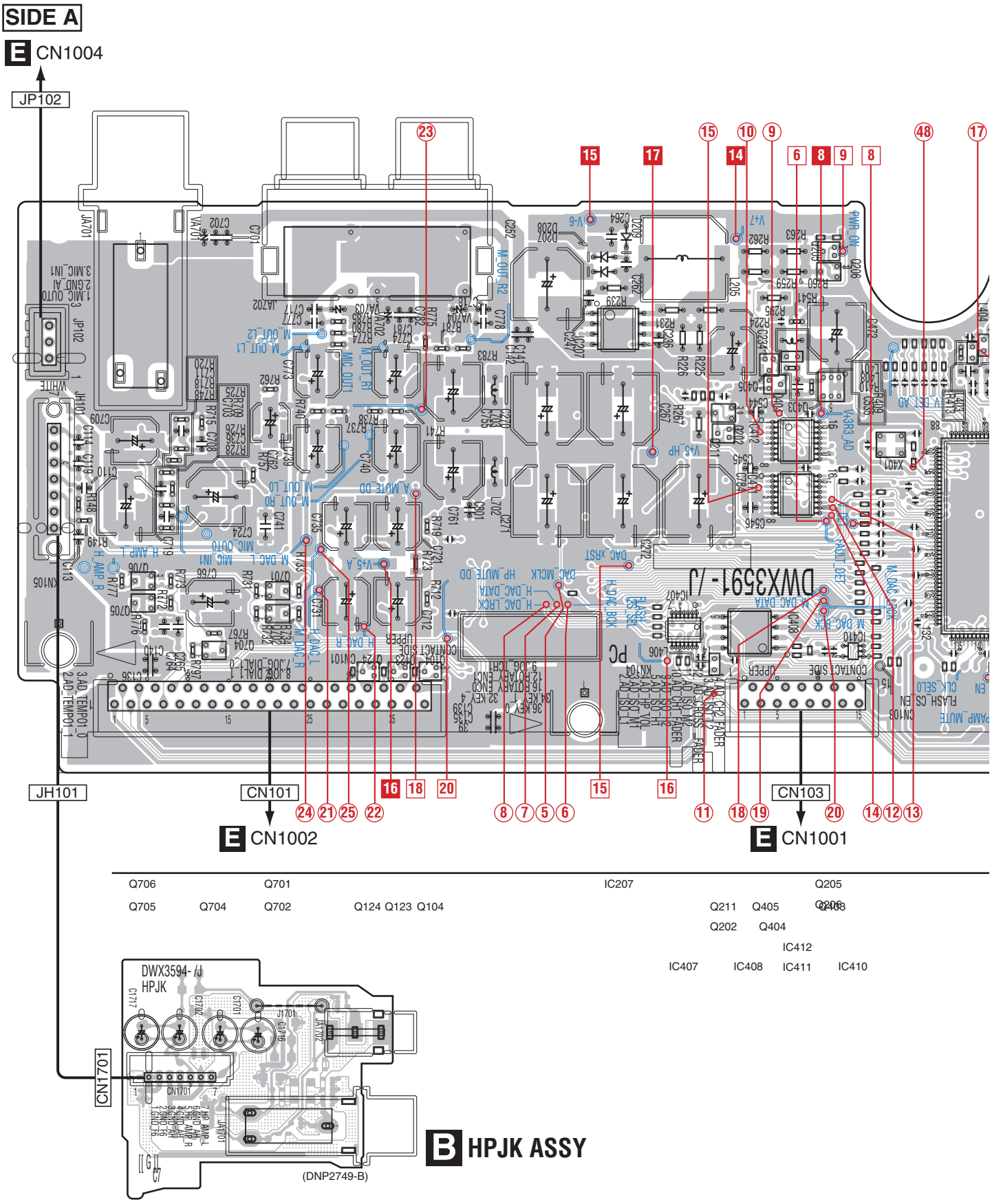
(51) **Q2407 - pin 2 (GRID_1)**
V: 2.0 V/div. H: 1 mS/div.

(52) **Q2409 - pin 2 (GRID_2)**
V: 2.0 V/div. H: 1 mS/div.



11. PCB CONNECTION DIAGRAM

11.1 MAIN and HPJK ASSYS

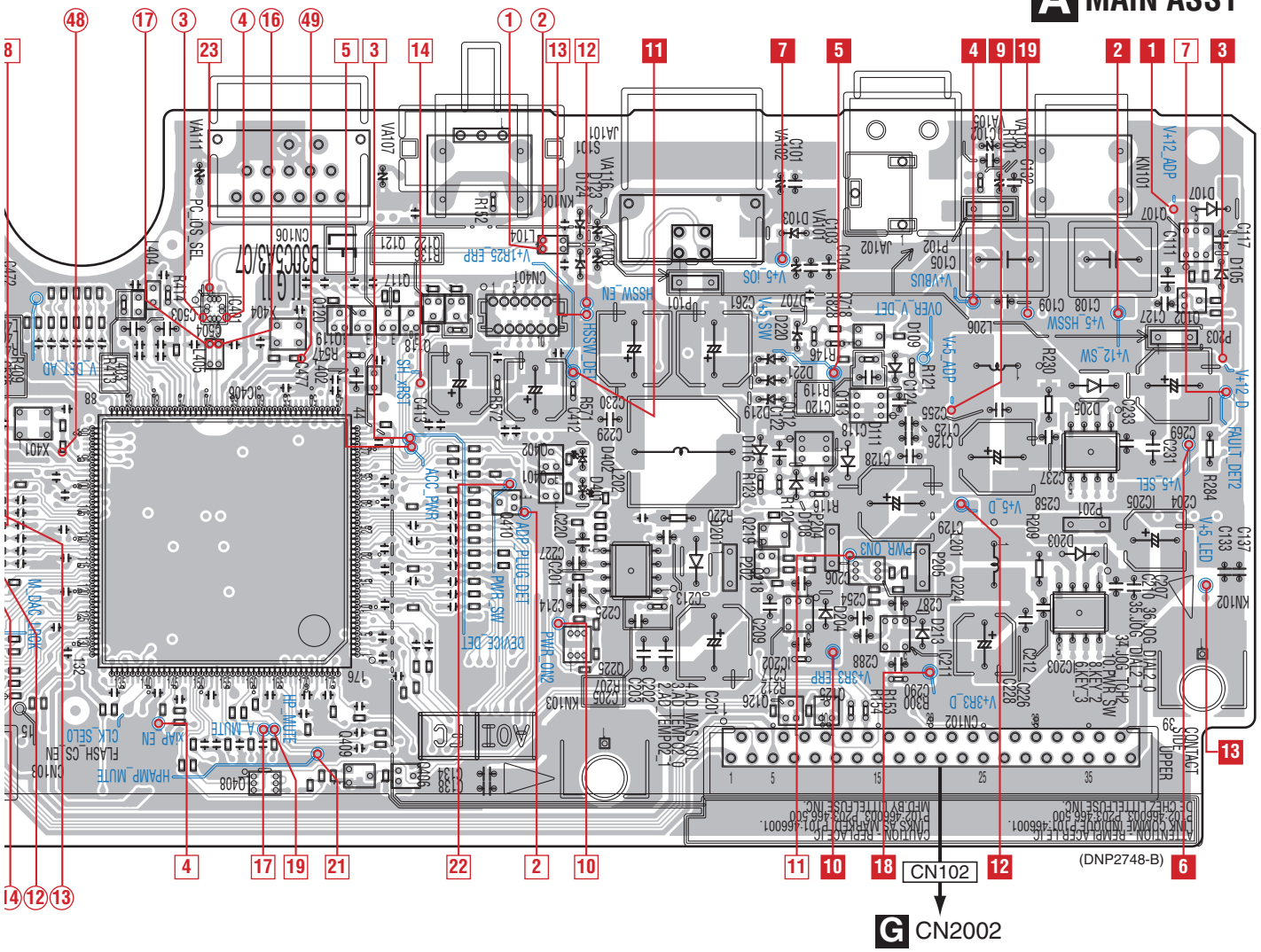


A B

SIDE A

The blue character is silk for services.

A MAIN ASSY

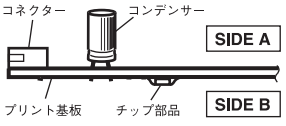


Q117+Q120Q122 Q718 Q107
IC406 Q402 Q112 Q113 Q102
Q410 Q401 Q219 Q224 IC203
Q225 Q218 IC211
Q408 Q409 Q406 Q126 Q125

PCB 図に対する注意

1. この PCB 図にマウントしている部品は複数の仕向地の部品を含んでいます。各仕向地の情報は、回路図で確認するようにしてください。

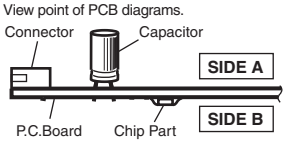
2. PCB 図の見かた。



NOTE FOR PCB DIAGRAMS :

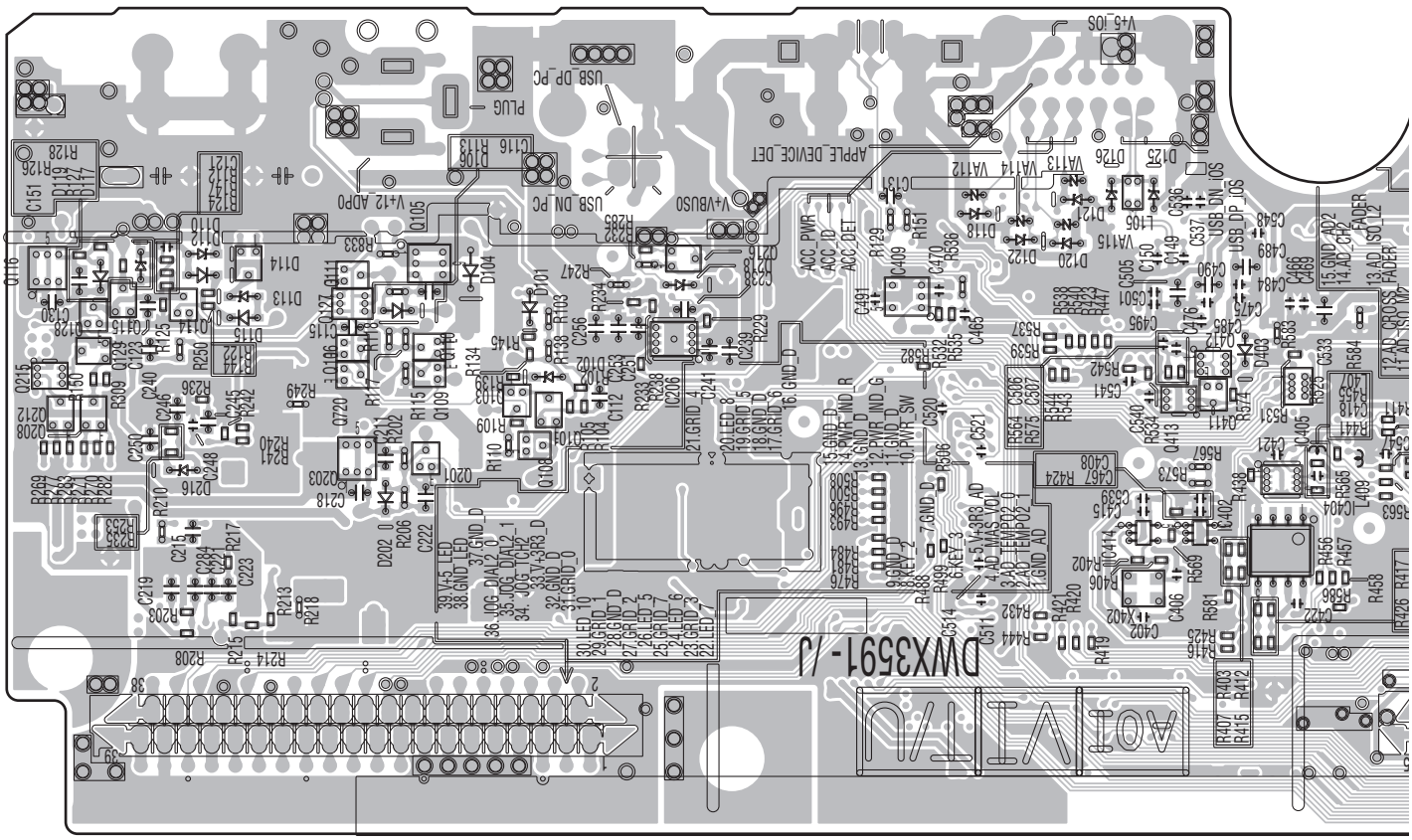
1. The parts mounted on this PCB include all necessary parts for several destinations. For further information for respective destinations, be sure to check with the schematic diagram.

2. View point of PCB diagrams.



SIDE B

A MAIN ASSY

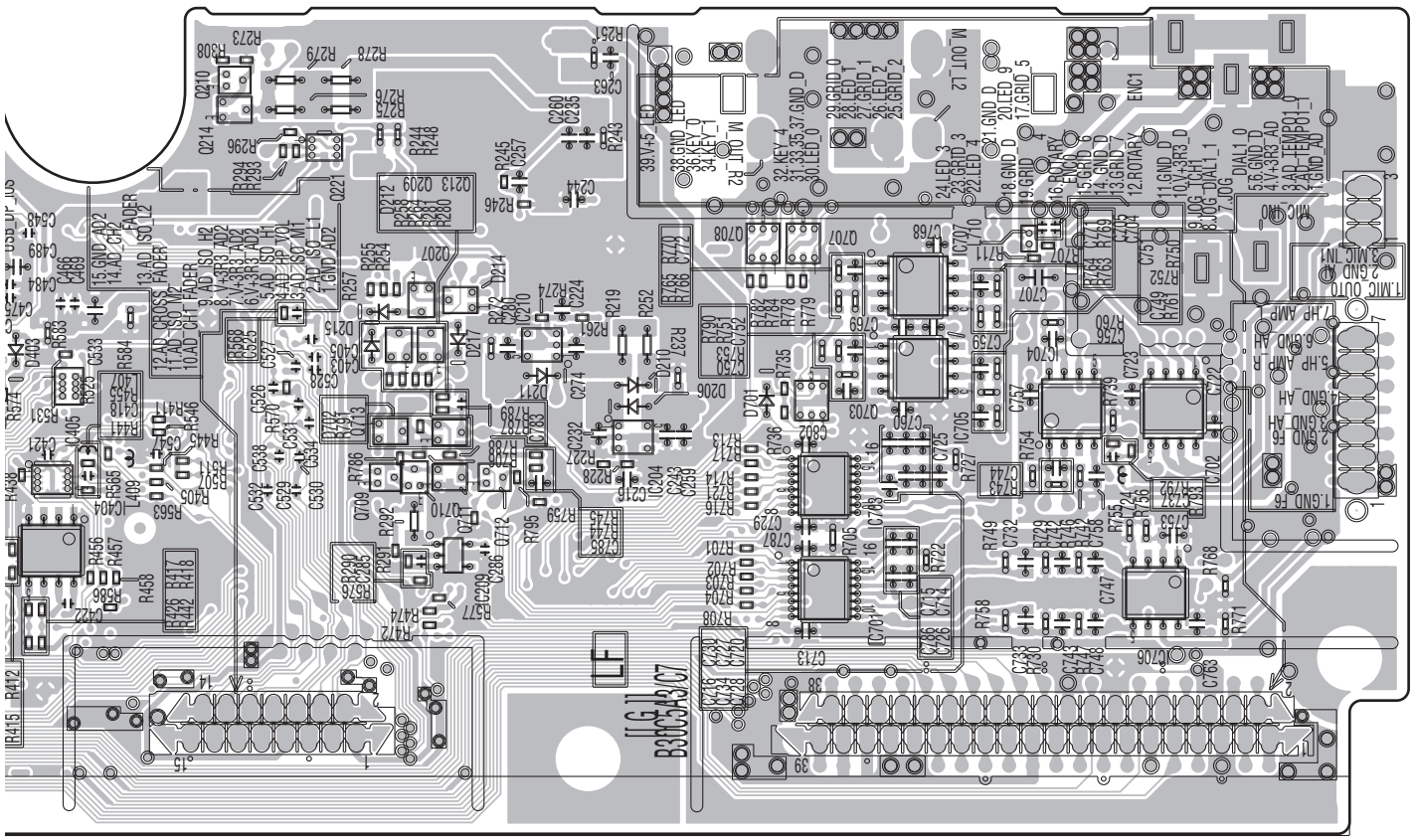


(DNP2748-B)

Q115 Q114 Q111 Q105 Q216 Q412
Q128 Q127 IC206 Q413 Q411
Q215 Q129 Q106 Q116 Q103 Q101 IC405
Q212 Q208 Q720 Q109
Q203 Q201 Q108 IC414 IC402 IC404

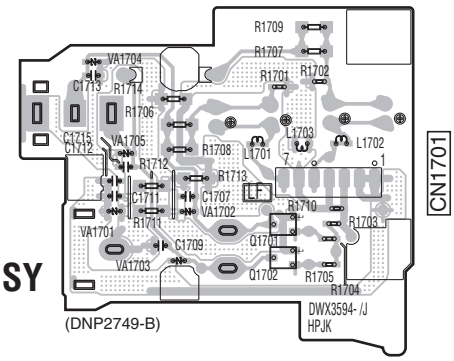
SIDE B

JP102



CN103 CN101 JH101

Q210 Q221 Q207 Q708 Q707 IC707 IC704 IC702
Q214 Q209 Q213 IC210 Q703 IC705 IC706
IC405 Q713 IC204 IC703
Q709-Q712
IC404 IC701



CN1701

B HPJK ASSY

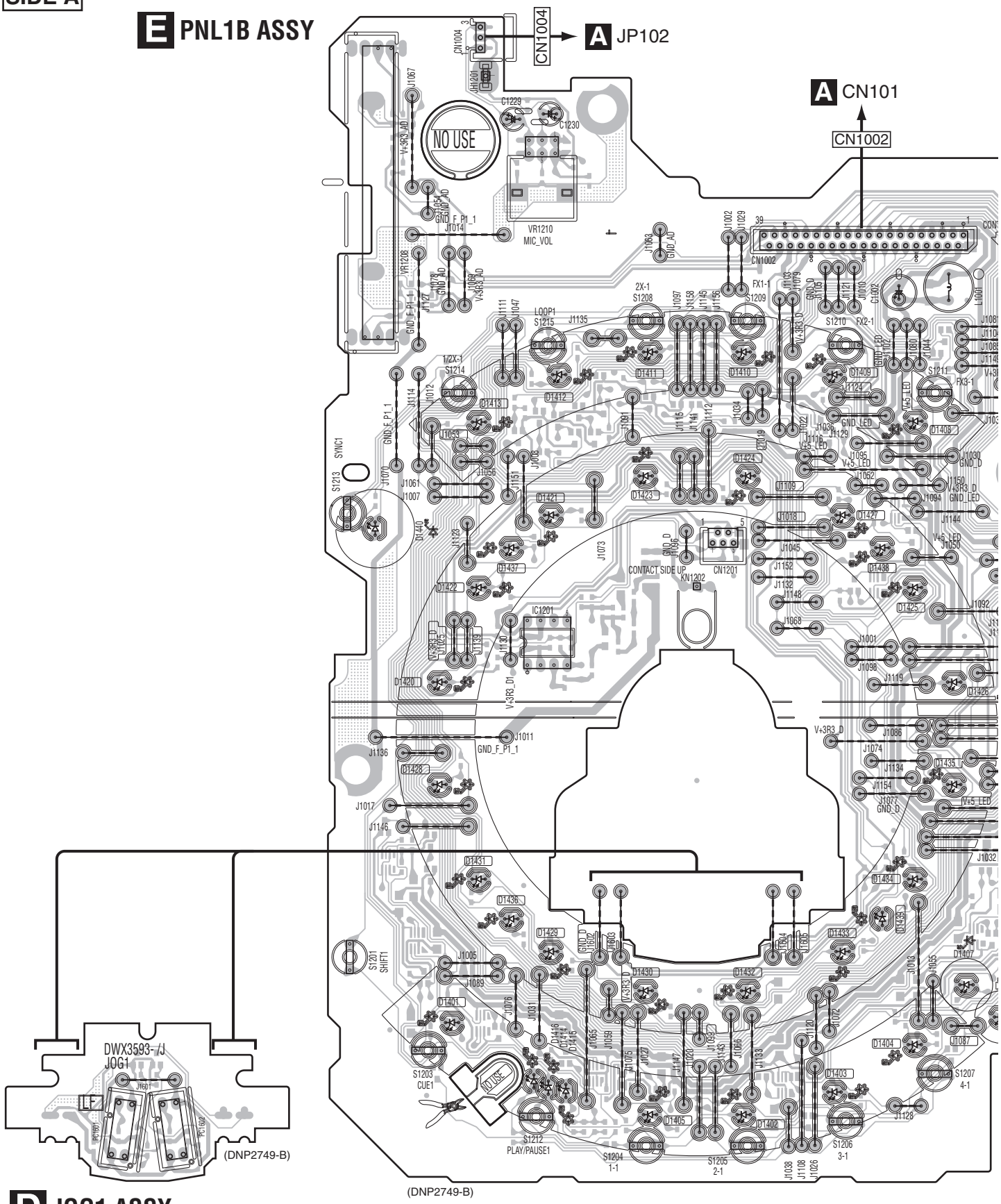
(DNP2749-B)

DWX3594-/J
HPJK

A B

11.2 CRFD, JOG1 and PNL1B ASSYS

SIDE A



D E

SIDE A

A

B

C

D

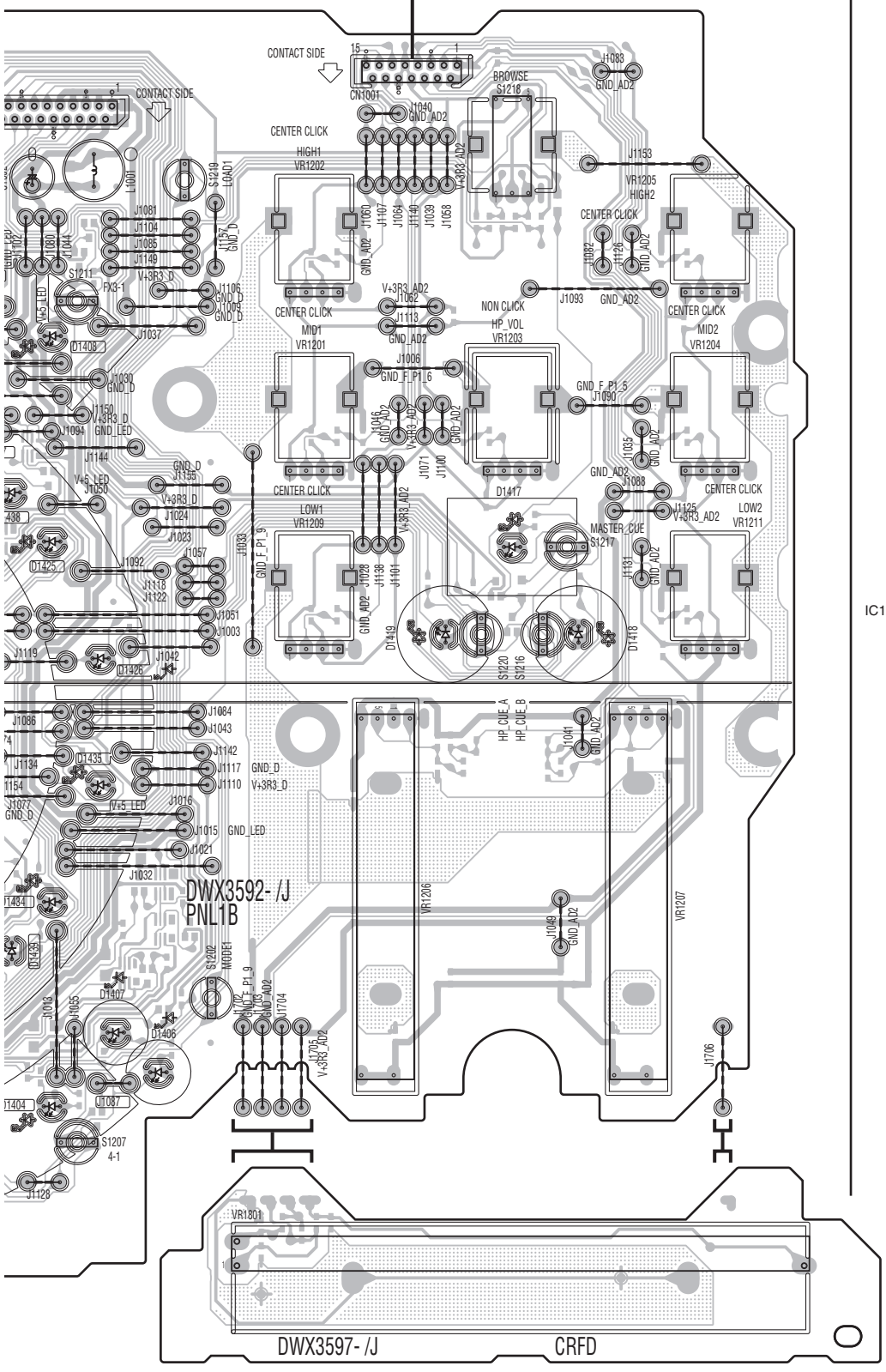
E

F

01

A CN103

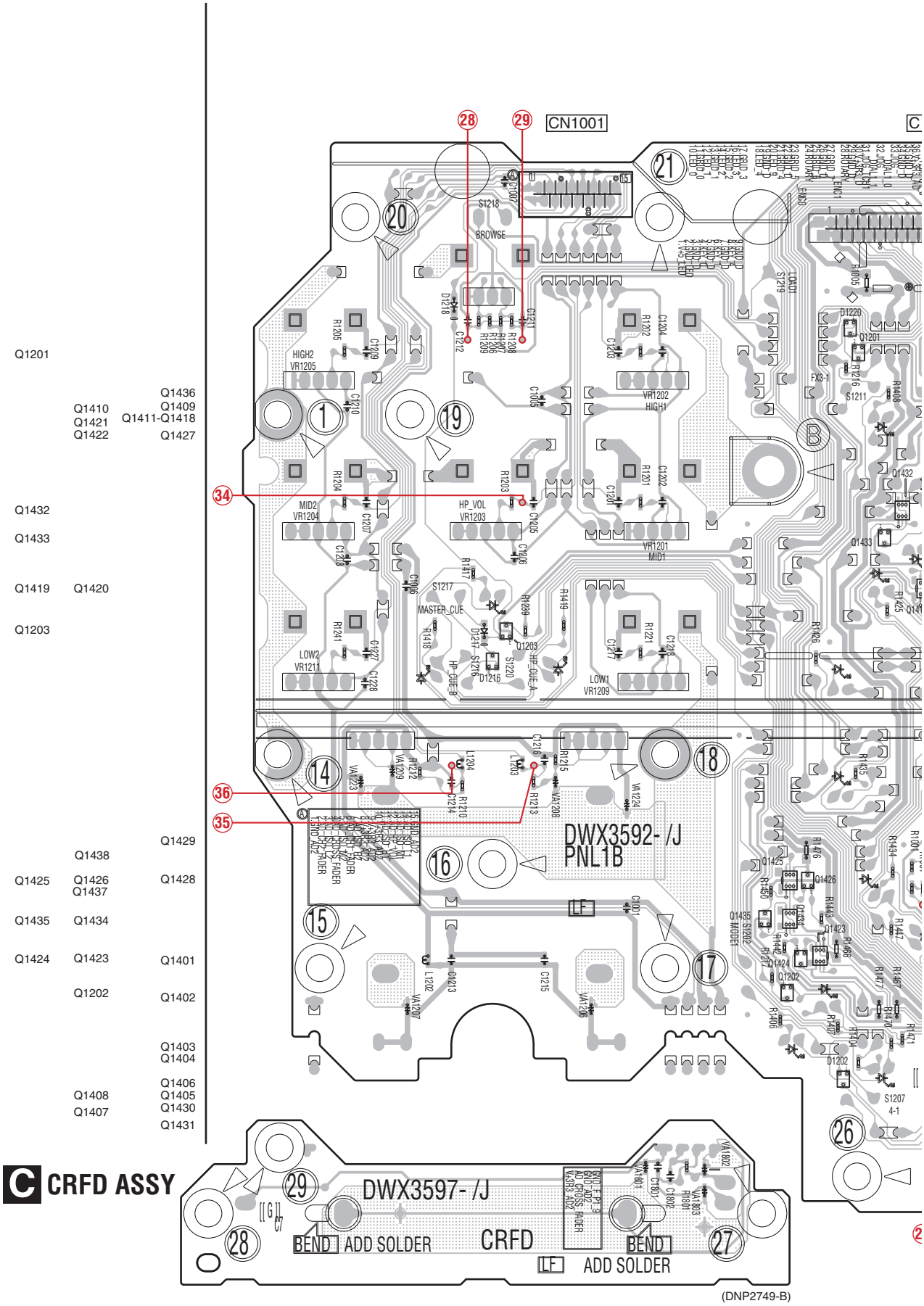
CN1001



C CRFD ASSY

(DNP2749-B)

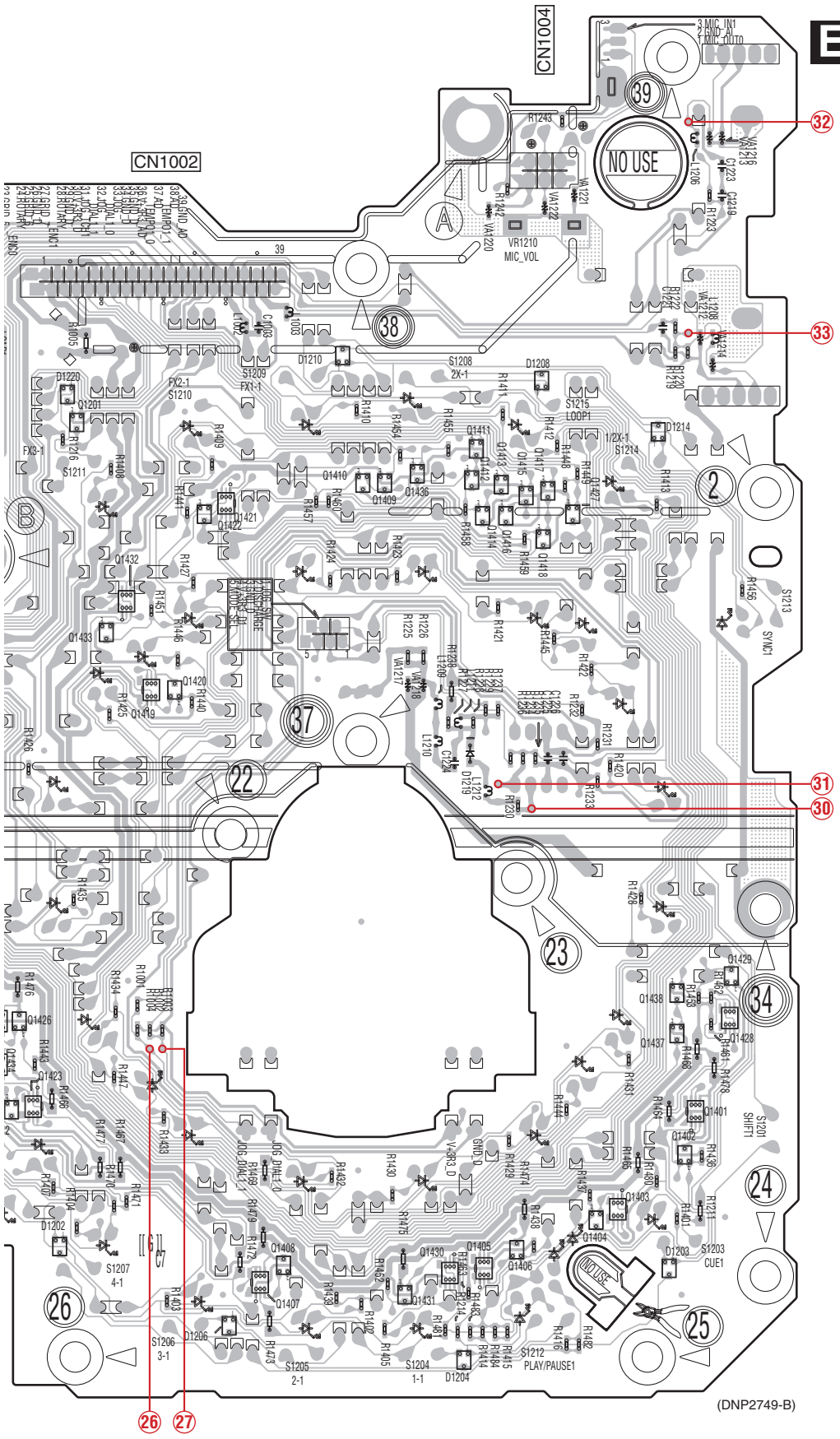
SIDE B



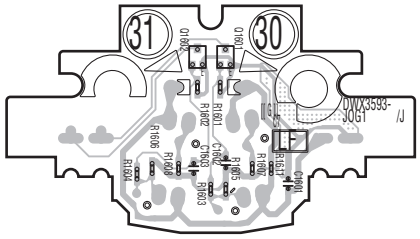
C CRFD ASSY

C E

E PNL1B ASSY

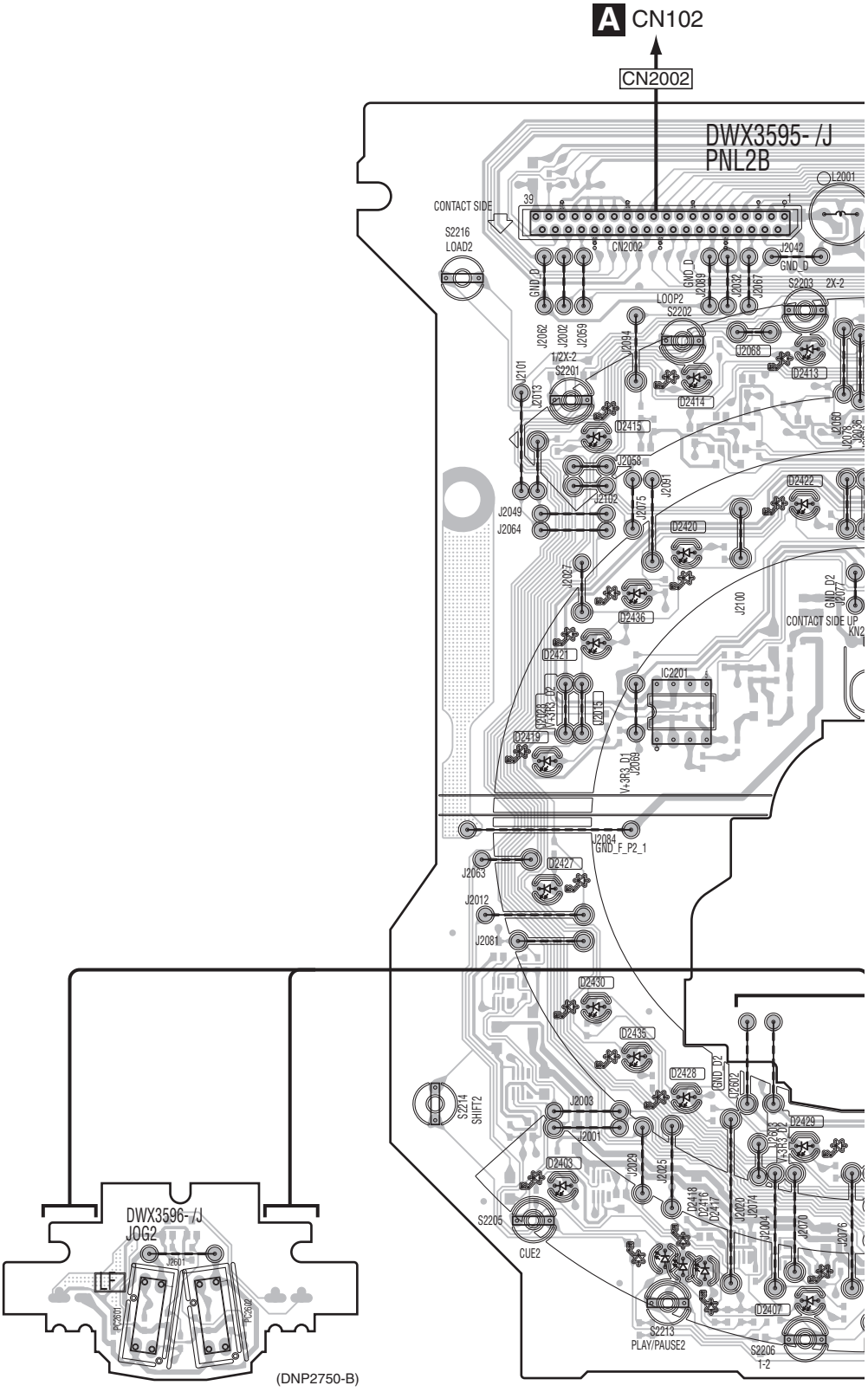


D JOG1 ASSY



11.3 JOG2 and PNL2B ASSYS

SIDE A

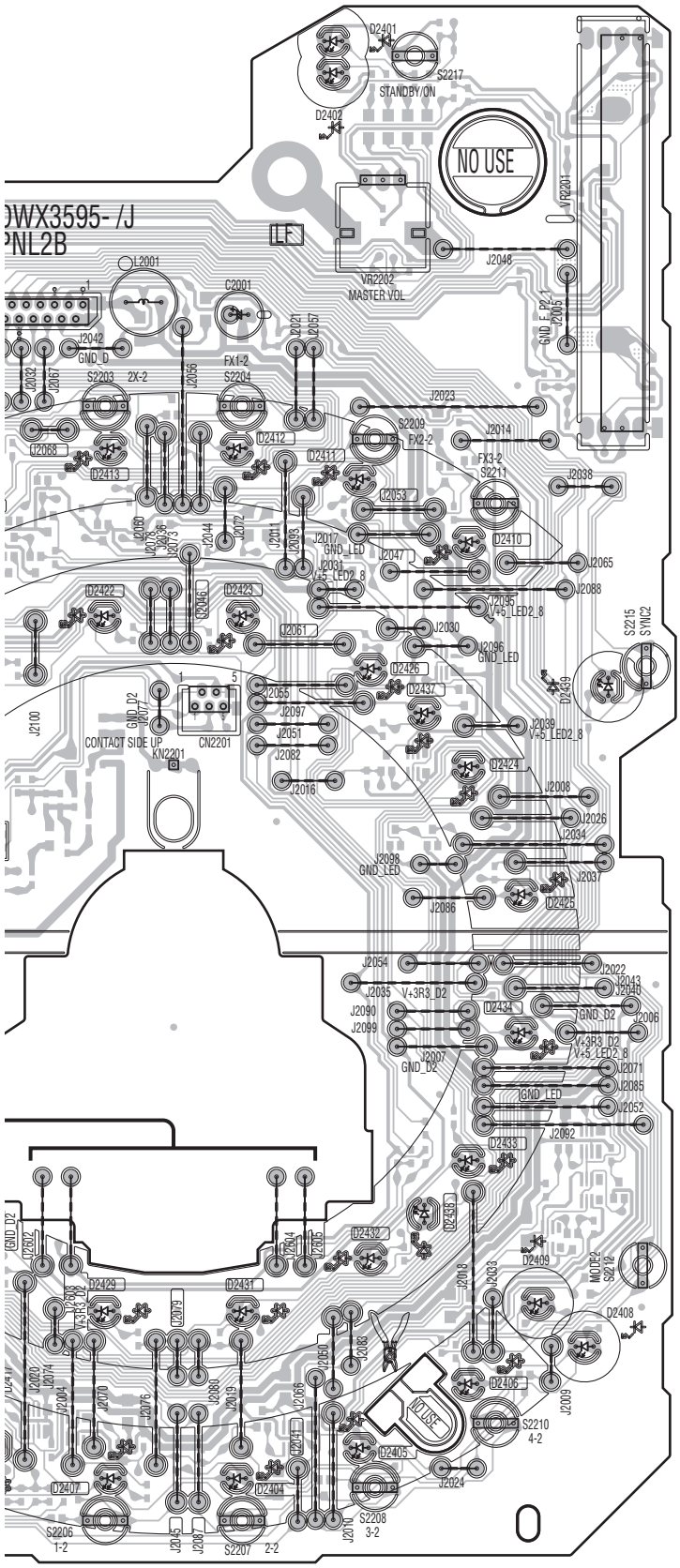


F JOG2 ASSY

F G

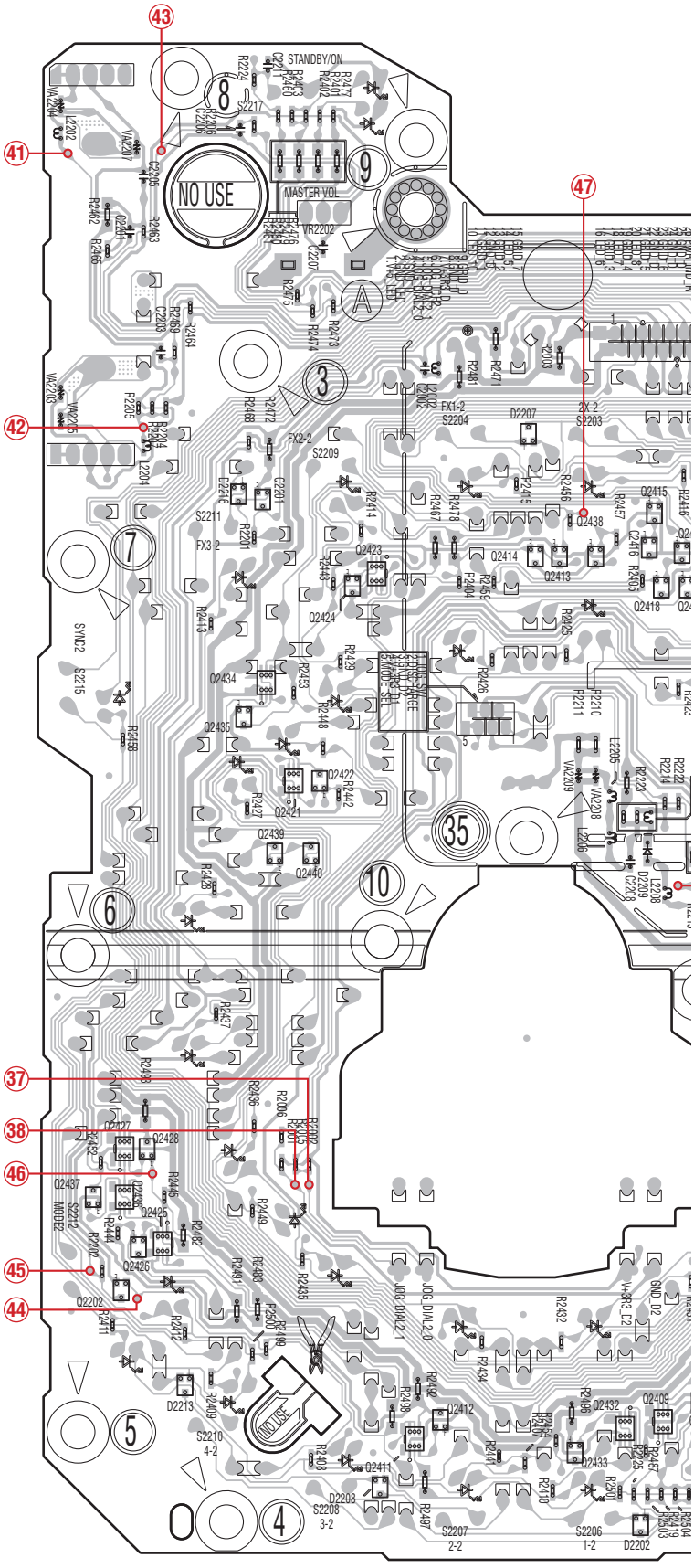
SIDE A

G PNL2B ASSY



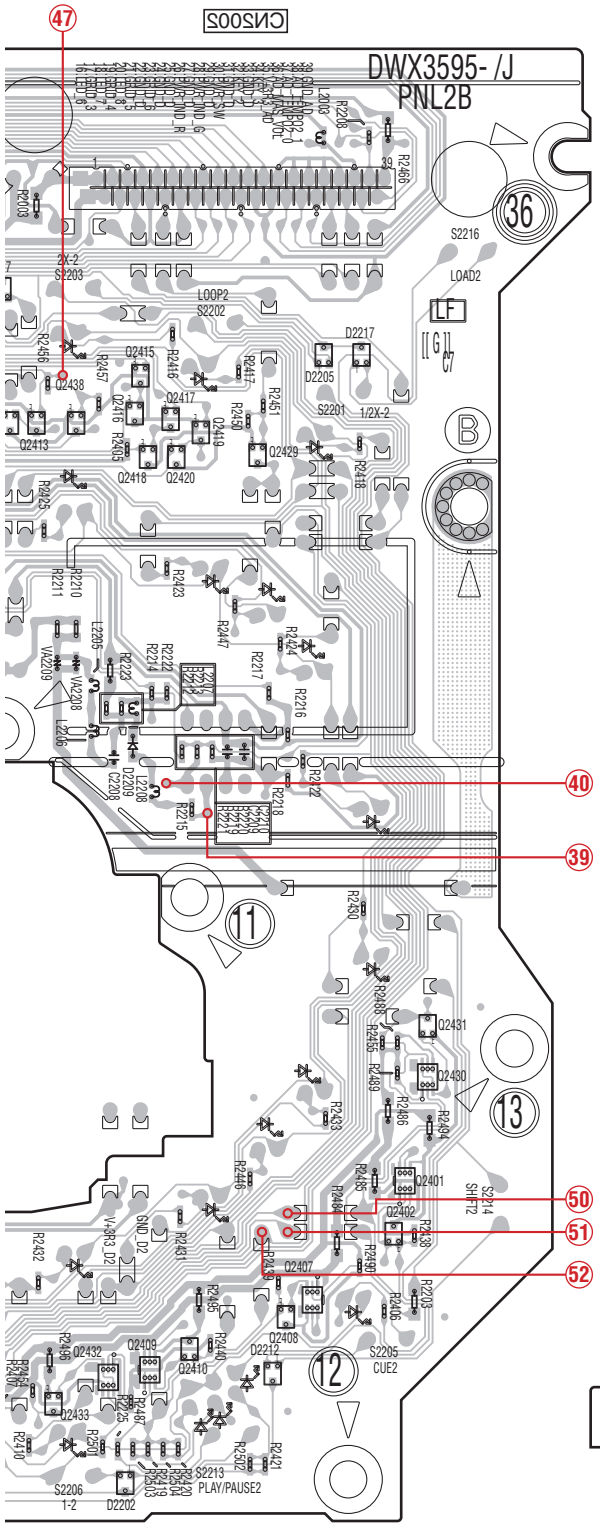
SIDE B

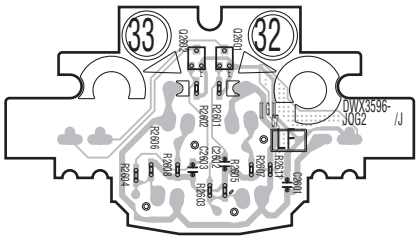
G PNL2B ASSY



Q2201		
Q2414	Q2438 Q2413 Q2423 Q2424	Q2415-Q2420 Q2429
Q2434		
Q2435		
Q2421	Q2422	
Q2439	Q2440	
		Q2431
Q2427	Q2428	Q2430
Q2437	Q2436	
Q2426	Q2425	Q2401
Q2202		Q2402
		Q2407 Q2408
		Q2410
	Q2412	Q2409
	Q2411	Q2432 Q2433

SIDE B





F JOG2 ASSY

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*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	MAIN ASSY	DWX3591
NSP	1	PNL1 ASSY	DWM2543
	2	PNL1B ASSY *1	DWX3592
NSP	2	JOG1 ASSY *1	DWX3593
	2	HPJK ASSY	DWX3594
	2	CRFD ASSY	DWX3597
NSP	1	PNL2 ASSY	DWM2544
	2	PNL2B ASSY *2	DWX3595
NSP	2	JOG2 ASSY *2	DWX3596

*1: As the PNL1B Assy and JOG1 Assy are wired with jumper leads.
If a DWX3592 (PNL1B Assy) is ordered, the PNL1B Assy and JOG1 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG1 Assy alone (NSP: non-service part).

*2: As the PNL2B Assy and JOG2 Assy are wired with jumper leads.
If a DWX3595 (PNL2B Assy) is ordered, the PNL2B Assy and JOG2 Assy wired with jumper leads will be delivered.
The part supply is impossible in JOG2 Assy alone (NSP: non-service part).

A MIAN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	201,203,205	BD9328EFJ
⚠	IC	202,211	MM3411A33N
⚠	IC	204,210	MM1856A50N
⚠	IC	206	TPS2557DRB
⚠	IC	207	NJM2392M
	IC	209	S-80942CNMC-G9C
	IC	401	TS3USB30RSW
	IC	405	H337S3959
	IC	406	R5S72670P144FP
	IC	407	TC74VHC08FK
	IC	408	DYW1848
	IC	409	S-80927CNMC-G8X
	IC	410	TC7SH126FU
	IC	411,412	TC74HC4051AFT
	IC	701,703	AK4387ET
	IC	702,704	NJM4565MD
	IC	705,707	NJM4580MD
	IC	706	BH3547F
	Q	101,115,129,202	LSCR523UB
	Q	102,114,117,119	LTC024EEB
	Q	103,118,120,122	LTA024EEB
⚠	Q	105,112,113,203	RTQ040P02
⚠	Q	107,116	RSQ035P03
	Q	108,111	LTC014EEB
	Q	121,128,201,205	LTC024EEB
	Q	127,224,225	RN1903
	Q	206,216,219,409	LSCR523UB
	Q	207-209,212,213	LSAR523UB
	Q	211,218,405,410	LTC024EEB
	Q	215,408,412,413	RN4983
⚠	Q	403	RTQ045N03
	Q	404,406,709,712	LTA024EEB
	Q	411,710,720	LTC024EEB
	Q	704-706,711	LSCR523UB
	Q	707	IMX9
	Q	713	LSAR523UB
	D	101,206,210	RB551VM-30
	D	103,118,120-126	DZ2J062M0
	D	104	RB161M-20
	D	105,106,108,112	DA2J101
⚠	D	107	RB060M-30
	D	110	DZ2J150M0
	D	111	RB060M-30
	D	113,218	DZ2J051M0
	D	114,214,702	DAN202UM
	D	115,119,202,212	DA2J101
⚠	D	207-209	RB551VM-30
	D	215,217,403	DA2J101
	D	216	DZ2J075M0
	D	219-221	DZ2J056M0

MISCELLANEOUS

	L	104,105	COIL ATH7015
	L	201	SMD SPL INDUCTOR DTH1213

Mark	No.	Description	Part No.
	L 202	INDUCTOR	CTH1253
	L 205	POWER INDUCTOR	ATH7053
	L 206	COIL	CTH1475
	L 402-404,406,408	INDUCTOR	CTF1793
	L 407,409	INDUCTOR	CTF1545
	L 701	INDUCTOR	CTF1778
	L 710	INDUCTOR	CTF1786
	L 724	SMD SPL INDUCTOR	BTH1184
	JA 101	USB CONNECTOR	DKN1237
	JA 102	DC POWER JACK	DKN1649
	JA 701	6.5 DIA JACK	DKN1652
	JA 702	PIN JACK(2P)	AKB7181
	KN 102-105	WRAPPING TERMINAL	CKF1089
	KN 106	SCREW PLATE	VNE1948
	X 401	CRYSTAL (24.576 MHz)	DSS1204
	X 404	RESONATOR (48 MHz)	CSS1760
	CN 101,102	39P CONNECTOR	VKN2098
	CN 103	15P CONNECTOR	VKN1275
	CN 106	CONNECTOR	CKS5683
	JH 101	7P CABLE HOLDER	51048-0700
	JP 101	JUMPER WIRE	D20PDY0720E
	JP 102	BOARD IN JUMPER/3P	DKP3957
⚠	P 101	PROTECTOR(1.000A)	DEK1097
⚠	P 102	PROTECTOR(3.000A)	DEK1103
⚠	P 203	PROTECTOR(0.500A)	DEK1095
	VA 103,701,702	VARISTORS	EZJZ1V270RM

RESISTORS

	R 101,110,136		RS1/10SR101J
	R 103,138		RS1/10SR1801D
	R 113,116,119,202		RS1/10SR103J
	R 120,737,738,774		RS1/10SR473J
	R 121,206,409,715		RS1/10SR104J
	R 132,133		RS1/16SS5602F
	R 134,145		RS1/16SS2702D
	R 151,153,154,248		RS1/10SR0R0J
	R 207,210,250		RS1/10SR220J
	R 213		RS1/16SS3301D
	R 214		RS1/16SS6800D
	R 215,223,242,711		RS1/16SS1002D
	R 219,252		RS1/4SA100J
	R 221		RS1/16SS1000D
	R 222,290		RS1/16SS4702D
	R 224,226		RS1/4SA1R5J
	R 231		RS1/4SA271J
	R 232		RS1/10SR221J
	R 234		RS1/16SS4302D
	R 238,291		RS1/16SS1201D
	R 240		RS1/16SS7501D
	R 241		RS1/16SS3902D
	R 243,410,776,777		RS1/10SR102J
	R 245		RS1/16SS1802F
	R 246		RS1/16SS3901D
	R 247,768,771,833		RS1/10SR472J
	R 251,729,730,755		RS1/10SR103J
	R 259,267,284,292		RS1/4SA0R0J
	R 260		RS1/4SA471J
	R 304		RS1/16SS10R0D
	R 413,414,536,547		RS1/10SR0R0J
	R 525		RAB4CQ472J
	R 533		RS1/16SS5601F
	R 571,572,583,584		RS1/10SR0R0J
	R 707		RS1/16SS2201D
	R 718,742		RS1/10SR1001D
	R 720		RS1/10SR1002D
	R 722,727		RS1/10SR100J
	R 726,752,753		RS1/10SR3301D
	R 728		RS1/10SR5601D
	R 740,741,757		RS1/10SR4701D
	R 743		RS1/10SR1802D
	R 746,747		RS1/10SR271J
	R 748,761,783,785		RS1/10SR0R0J
	R 750,751,760		RS1/10SR1502D
	R 754,756,762		RS1/10SR104J
	R 763-767,769,770		RS1/10SR103J
	R 772,773,797		RS1/10SR223J
	R 775		RS1/10SR473J
	R 780,781		RS1/10SR331J
	R 790		RS1/10SR0R0J
	Other Resistors		RS1/16SS###J

CAPACITORS

	C 102,116,130,211		CKSRYB103K50
	C 104,128,207,209		DCH1201
	C 109,206,287,703		CKSRYB474K16
	C 111		CKSQYB474K25
	C 117,701,781		CKSRYB104K50
	C 118,124,126,205		CKSRYB104K16
	C 120,254,535		CKSQYB105K25
	C 122,151		CKSQYB104K25
	C 125		CKSRYB102K50
	C 129,201,230,261		CCH1565
	C 143-147,403,405		CKSSYB102K50
	C 148,407,409,414		CCSSCH101J50
	C 202,203,231		CCG1221
	C 204,228,234,712		CEVW470M6R3
	C 210,213,214,218		CKSRYB104K16
	C 215,216,220,245		CKSRYB103K50
	C 217,232,243,262		CKSRYB105K10
	C 219,223,233,235		CKSRYB104K16
	C 226,229,239,253		DCH1201
	C 236,240,241,714		CKSRYB104K16
	C 242,249,285,421		CKSSYB104K10
	C 244		CCSRCH121J50
	C 250,284,727,728		CKSRYB103K50
	C 252,267,270		CEVW471M10
	C 255,256,264,477		DCH1201
	C 257		CCSRCH221J50
	C 258,719,724		CEVW101M16
	C 269		CEVW470M16
	C 274,280,290,742		CKSRYB105K10
	C 286		CCSSCH221J50
	C 401,404,487		CCSSCH120J50
	C 412,413		CEHVW470M6R3
	C 418,491		CKSSYB222K50
	C 423,443,446,449		CCSSCH101J50
	C 424,426-431,433		CKSSYB103K16
	C 432,441,458,460		CKSSYB104K10
	C 434,438,442,444		CKSSYB103K16
	C 437,451,466,468		CKSSYB102K50

Mark	No.	Description	Part No.
	C	445,448,454,456	CKSSYB471K50
	C	447,450,452,455	CKSSYB103K16
	C	457,459,461-465	CKSSYB103K16
	C	469,470,473,474	CKSSYB104K10
	C	471,479,480	CCSSCH101J50
	C	475,476,493-495	CKSSYB102K50
	C	478,482,484,485	CKSSYB104K10
	C	483,488,548,706	CKSSYB103K16
	C	489,490,503-505	DCH1201
	C	496-498,510-516	CCSSCH101J50
	C	499-501,506,517	CKSSYB104K10
	C	502	CCSSCH100D50
	C	507,525-532,534	CKSSYB102K50
	C	518,537	CKSSYB104K10
	C	519-524,547	CCSSCH101J50
	C	533,732,733,765	DCH1201
	C	536,538,540,541	CKSSYB102K50
	C	702,715,730,734	CCSRCH102J50
	C	704	CCSSCH561J50
	C	705	CCSSCH102J50
	C	707	ACG1147
	C	708,756	CCSRCH331J50
	C	710,737,783	CKSSYB103K16
	C	716,720,722,723	CKSRYB104K16
	C	717,718	CCSRCH152J50
	C	721,731,735,766	CEVW470M6R3
	C	725,726,757,758	CKSRYB104K16
	C	736	CKSRYB474K16
	C	739,740,773,774	CEVW220M16
	C	743	CKSRYB105K10
	C	747,748	CKSRYB103K50
	C	749,750	CCSRCH681J50
	C	751,752	CCSRCH101J50
	C	753	CKSQYB475K6R3
	C	755,761	DCH1156
	C	762	CEVW100M16
	C	782,786	CCSRCH102J50
	C	784	CEVW331M6R3
	C	785	CCG1218

B HPJK ASSY

MISCELLANEOUS

JA 1701	6.5 DIA JACK	DKN1653
JA 1702	STEREO MINI JACK	XKN3017
KN 1701	PHONE SHIELD	DNF1875
CN 1701	7P JUMPER CONNECTOR	52147-0710
VA 1701-1705	VARISTORS	EZJZ1V270RM

RESISTORS

R	1706,1707,1711-1714	RS1/4SA0R0J
	Other Resistors	RS1/10SR###J

CAPACITORS

C	1701,1702,1716,1717	CEJQ221M6R3
C	1707,1709,1713,1715	CKSRYB473K50
C	1711	CKSRYB104K50
C	1712	CKSRYB102K50

C CRFD ASSY

MISCELLANEOUS

VR 1801	VARIABLE RESISTOR	DCV1023

RESISTORS

	All Resistors	RS1/10SR###J

MISCELLANEOUS

VA 1801-1803	VARISTORS	EZJZ1V270RM

CAPACITORS

C	1801	CKSRYB104K16

D JOG1 ASSY

SEMICONDUCTORS

Q	1601,1602	LSCR523UB

MISCELLANEOUS

PC 1601,1602	PHOTO INTERRUPTER	RPI-579N1

RESISTORS

R	1601,1602	RS1/10SR3001D
R	1603,1604	RS1/10SR9101D
	Other Resistors	RS1/10SR###J

CAPACITORS

C	1601	CKSRYB104K16
C	1602,1603	CKSRYB473K50

E PNL1B ASSY

SEMICONDUCTORS

IC	1201	DYW1849
Q	1201-1203,1409,1411	LTC124EUB
Q	1401,1403,1405,1407	RN4982
Q	1402,1404,1406,1408	2SC4154-11
Q	1410,1412,1414,1416	LSAR523UB
Q	1413,1415,1417,1438	LTC124EUB
Q	1418	LSAR523UB
Q	1419,1421,1423,1425	RN4982
Q	1420,1422,1424,1426	2SC4154-11
Q	1427,1436	LTC114YUB
Q	1428,1430,1432,1434	RN1903
Q	1429,1431,1433,1435	LTA114EUB
Q	1437	LTA114EUB
D	1202-1204,1206,1208	DAN202UM
D	1210,1214,1216,1220	DAN202UM
D	1217,1218	DA2J101
D	1219	RB501VM-40
D	1401,1417-1419	SLI-343Y8Y(KLM)
D	1402-1413,1420-1435	SLI-343U8R(HJK)
D	1415,1416	SLI-343M8G(GHJ)
D	1436-1440	SLR343BD2T(NP)

MISCELLANEOUS

L	1209,1210,1212	INDUCTOR CTF1379
KN 1202	EARTH TERMINAL	AKF7002
VR 1201,1202,1204	POTENTIOMETER	DCS1097
VR 1203	POTENTIOMETER	DCS1096
VR 1205,1209,1211	POTENTIOMETER	DCS1097

Mark	No.	Description	Part No.
	VR	1206,1207 VARIABLE RESISTOR	DCV1024
	VR	1208 SLIDE VR	DCV1034
	VR	1210 POTENTIOMETER	DCS1094
	S	1201-1217,1219,1220 TACT SWITCH	DSG1079
	S	1218 ENCODER	DSX1082
	CN	1001 15P CONNECTOR	VKN1246
	CN	1002 39P CONNECTOR	VKN2097
	CN	1004 L-PLUG(3P)	KM200NA3L
	JH	1201 PCB BINDER	AEF7008
	VA	1206-1209,1212-1214 VARISTORS	EZJZ1V270RM
	VA	1216,1223,1224 VARISTORS	EZJZ1V270RM
	VA	1217,1218 SMD VARISTOR	EZJZ1V80010

RESISTORS

	R	1003,1004,1219,1220	RS1/10SR2201D
	R	1005	RS1/4SA2R0J
	R	1211,1238,1464-1469	RS1/4SA0R0J
	R	1225,1226	DCN1187
	R	1227	RS1/10SR2202D
	R	1472-1479	RS1/4SA0R0J
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	1002	CEJQ101M16
	C	1005,1006,1223,1225	CKSRYB104K16
	C	1007,1211,1212,1214	CKSRYB103K50
	C	1216	CKSRYB103K50
	C	1224	CCSRCH221J50
	C	1226	DCH1201
	C	1229,1230	CEJQ100M16

F JOG2 ASSY

SEMICONDUCTORS

	Q	2601,2602	LSCR523UB

MISCELLANEOUS

	PC	2601,2602 PHOTO INTERRUPTER	RPI-579N1

RESISTORS

	R	2601,2602	RS1/10SR3001D
	R	2603,2604	RS1/10SR9101D
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	2601	CKSRYB104K16
	C	2602,2603	CKSRYB473K50

G PNL2B ASSY

SEMICONDUCTORS

	IC	2201	DYW1849
	Q	2201,2202,2413,2415	LTC124EUB
	Q	2401,2407,2409,2411	RN4982
	Q	2402,2408,2410,2412	2SC4154-11
	Q	2414,2416,2418,2420	LSAR523UB
	Q	2417,2419,2440	LTC124EUB
	Q	2421,2423,2425,2427	RN4982
	Q	2422,2424,2426,2428	2SC4154-11
	Q	2429,2438	LTC114YUB
	Q	2430,2432,2434,2436	RN1903
	Q	2431,2433,2435,2437	LTA114EUB
	Q	2439	LTA114EUB
	D	2202,2205,2207,2208	DAN202UM
	D	2209	RB501VM-40
	D	2212,2213,2216,2217	DAN202UM
	D	2401,2417,2418	SLI-343M8G(GHJ)
	D	2402,2404-2415	SLI-343U8R(HJK)
	D	2403	SLI-343Y8Y(KLM)
	D	2419-2434	SLI-343U8R(HJK)
	D	2435-2439	SLR343BD2T(NP)

MISCELLANEOUS

	L	2205,2206,2208 INDUCTOR	CTF1379
	KN	2201 EARTH TERMINAL	AKF7002
	VR	2201 SLIDE VR	DCV1034
	VR	2202 ROTARY VR	DCS1117
	S	2201-2216 TACT SWITCH	DSG1079
	S	2217 TACT SWITCH	DSG1089
	CN	2002 39P CONNECTOR	VKN2097
	VA	2203-2205,2207 VARISTORS	EZJZ1V270RM
	VA	2208,2209 SMD VARISTOR	EZJZ1V80010

RESISTORS

	R	2001,2002,2204,2205	RS1/10SR2201D
	R	2003	RS1/4SA2R0J
	R	2203,2223,2461,2462	RS1/4SA0R0J
	R	2210,2211	DCN1187
	R	2212	RS1/10SR2202D
	R	2466,2467,2471,2472	RS1/4SA0R0J
	R	2476,2478-2486	RS1/4SA0R0J
	R	2491-2498	RS1/4SA0R0J
		Other Resistors	RS1/10SR###J

CAPACITORS

	C	2001	CEJQ101M16
	C	2205,2209	CKSRYB104K16
	C	2208	CCSRCH221J50
	C	2210	DCH1201