Pioneer DJ

Service Manual

DDJ-WEGO4-K

ORDER NO.
RRV4663

DJ Controller

DDJ-WEGO4-K
DDJ-WEGO4-W

This unit is designed based on the DDJ-WEGO3 model. The major difference is as follows.
- The connecting terminal to the iOS device is changed from 13 pin to USB A. The connecting cable to use is changed from the exclusive cable of unit accessory to the cable of iOS device accessory.
- The surface treatment of Aluminum panel and JOG plate is changed. JOG dial painting color is changed.
- EQ knob is changed from HI/MID/LOW 3 band to HI/LOW 2 band and Color FX Filter.
- The signal processing of the MIC is changed from Analog MIX to Digital MIX.

This service manual contains the difference between this model and DDJ-WEGO3 about each item separately.
Refer to the service manual of DDJ-WEGO3 about the contents that is not described in this service manual.

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

Model	Type	Power Requirement	Remarks
DDJ-WEGO4-K, W	SYXJ	AC 220 V to 240 V	
DDJ-WEGO4-K, W	UXJCB	AC 120 V	
DDJ-WEGO4-K, W	LWPWXJ	AC 110 V to 240 V	
DDJ-WEGO4-K, W	AXJ	AC 220 V	

THIS SERVICE MANUAL SHOULD BE USED TOGETHER WITH THE FOLLOWING MANUAL(S).

Model	Order No.	Remarks
DDJ-WEGO3-K, W, R	RRV4567	

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SAFETY INFORMATION

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

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

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1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.
  Do NOT use a soldering iron whose tip temperature cannot be controlled.

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	IC405	USB multiplexer	TS3USB30RSW	QFN

1.3 SERVICE NOTICE

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 (DEK1123) (LITTELFUSE INC. 04371.25WR): 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-WEGO4.
   (See "Before confirmation in this mode" in [C-1: Connection Confirmation mode with the iPhone/iPad] in "6.1 TEST MODE.")
2. Check if iPhone/iPad connecting cable is okay, referring to [C-1: Connection Confirmation mode with the iPhone/iPad].
3. Check if the DDJ-WEGO4 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 rekordbox installed).
   Basically, if both the iPhone/iPad connecting cable and the DDJ-WEGO4 are okay, the problem is on the connected iOS device side.

[iOS devices usable with this unit]

[The iOS devices able to use in combination this unit with WeDJ]

- iOS : iOS 8 and 9
- Corresponding models for iPhone/iPad connecting cable (Lightning) :
  iPad Pro (9.7-inch), iPad Air 2, iPad Air,
  iPad mini 4, iPad mini 3, iPad mini 2

[The iOS devices able to use in combination this unit with djay 2 or vjay]

- iOS : iOS 8 and 9
- Corresponding models for iPhone/iPad connecting cable (Lightning) :
  iPad Pro (9.7-inch), iPad Air 2, iPad Air, iPad (Fourth generation)
  iPad mini 4, iPad mini 3, iPad mini 2, iPad mini,
  iPhone SE, iPhone 6s plus, iPhone 6s, iPhone 6 plus,
  iPhone 6, iPhone 5s, iPhone 5c, iPhone 5,
  iPod touch (Sixth generation), iPod touch (Fifth generation)
- Models that the Dock connector is mounted :
  iPad (Third generation), iPad 2, iPhone 4s

http://pioneerdj.com/support/

FLASH ROM (IC402) ON THE MAIN Assy

The writing of the unit serial No. is necessary when replacing the MAIN Assy or FLASH ROM (IC402) on the MAIN Assy.
Refer to "8.3 WRITING THE SERIAL NUMBER OF THE UNIT".

2. SPECIFICATIONS

AC adapter
Power requirements
..... AC 220 V to 240 V, 50 Hz/60 Hz (SYXJ)
AC 120 V, 60 Hz (UXJCB)
AC 110 V to 240 V, 50 Hz/60 Hz (LWPWXJ)
AC 220 V, 50 Hz/60 Hz (AXJ)
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) × 2.3 in. (H) × 9.4 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 / Load impedance
MASTER ..... 2.1 Vrms / 10 kΩ
Total harmonic distortion (20 Hz to 20 kHzBW)
USB ..... 0.006 %
Frequency characteristic
USB ..... 20 Hz to 20 kHz
S/N ratio (rated output, A-WEIGHTED)
USB ..... 103 dB
MIC ..... 65 dB
Input impedance
MIC ..... 3 kΩ or more
Output impedance
MASTER ..... 1 kΩ or less
PHONES ..... 10Ω 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 output terminal
RCA pin jacks ..... 1 set
PHONES output terminal
1/4” stereo phone jack ..... 1 set
3.5 mm stereo mini jack ..... 1 set
MIC input terminal
1/4” TS jack ..... 1 set
USB terminal
A type ..... 1 set
B type ..... 1 set

Accessories

- Operating Instructions (Quick Start Guide)
  (SYXJ: DRH1405)
  (UXJCB: DRH1404)
  (LWPWXJ: DRH1407)
  (AXJ: DRH1409)
- AC adapter
  (SYXJ, LWPWXJ, AXJ: DWR1551)
  (UXJCB: DWR1552)
- Power cord
  (SYXJ, LWPWXJ: ADG1154)
  (UXJCB: XDG3052)
  (AXJ: ADG7079)
- USB cable
  (DDE1140)
- Warranty*
  (DRY1270)
- rekordbox dj license key label
  (DXA2304)
- VirtualDJ LE 8 license key label
  (DXA2328)

*The included warranty is for the European region.

Caution
The license key cannot be reissued. Be careful not to lose it.

3. BASIC ITEMS FOR SERVICE

[3.3 PCB LOCATIONS], refer to Service Manual for DDJ-WEGO3.

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 (rekordbox dj) installed, via USB, then operate the DJ application (rekordbox dj).	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. If you want to confirm the MIC sound in a state of connecting rekordbox dj, you should display [MIXER/MIC] panel in rekordbox dj, and confirm that [MIC ON] button is turned on.
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. If you want to confirm the operation of the charge, you need to power on of the unit.
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

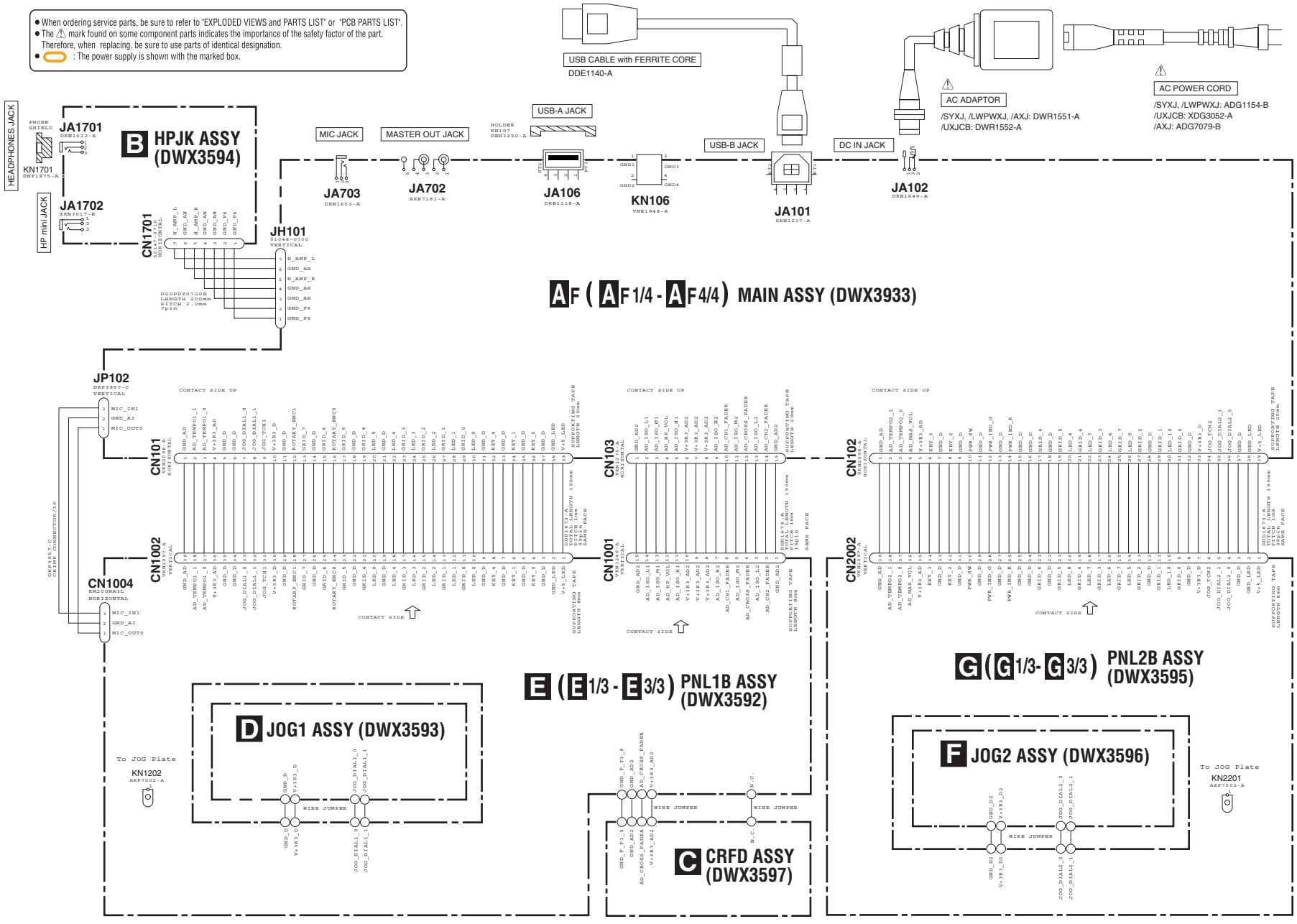
Jig Name	Part No.	Purpose of use / Remarks
Software for writing the serial number	GGS1186	For writing the serial number of the unit to the MAIN Assy after replacement.
USB cable	GGP1188	for PC connection, accessory (Part No.: DDE1140)
iPhone/iPad connection cable	----------	for iOS device connection
iOS device	iPad/iPhone/iPod touch	The version of an iOS device must be iOS8 or 9.

■ Lubricants and Glues List

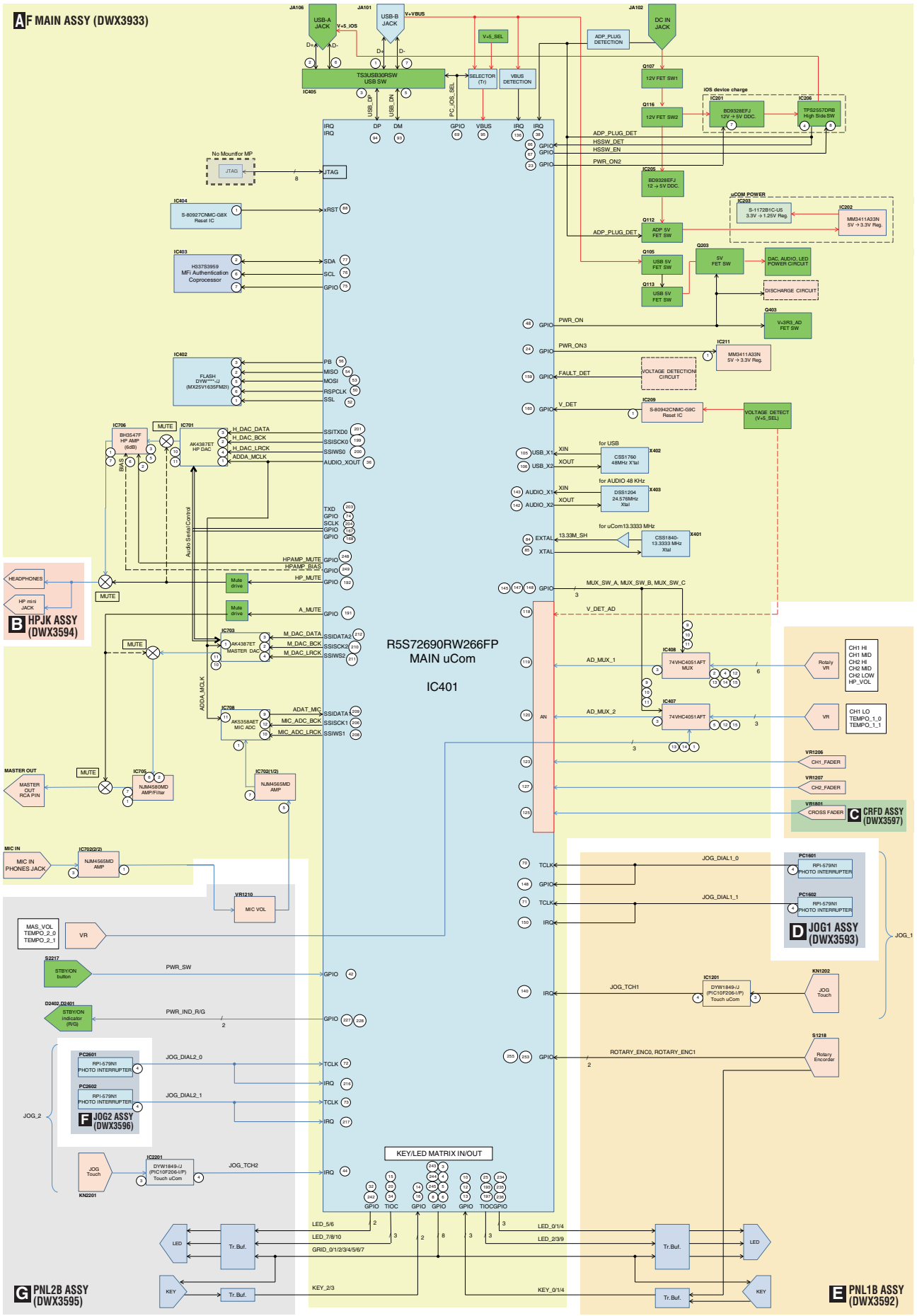
Name	Part No.	Remarks
Grease	GEM1100	Refer to "7. DISASSEMBLY".

4. BLOCK DIAGRAM

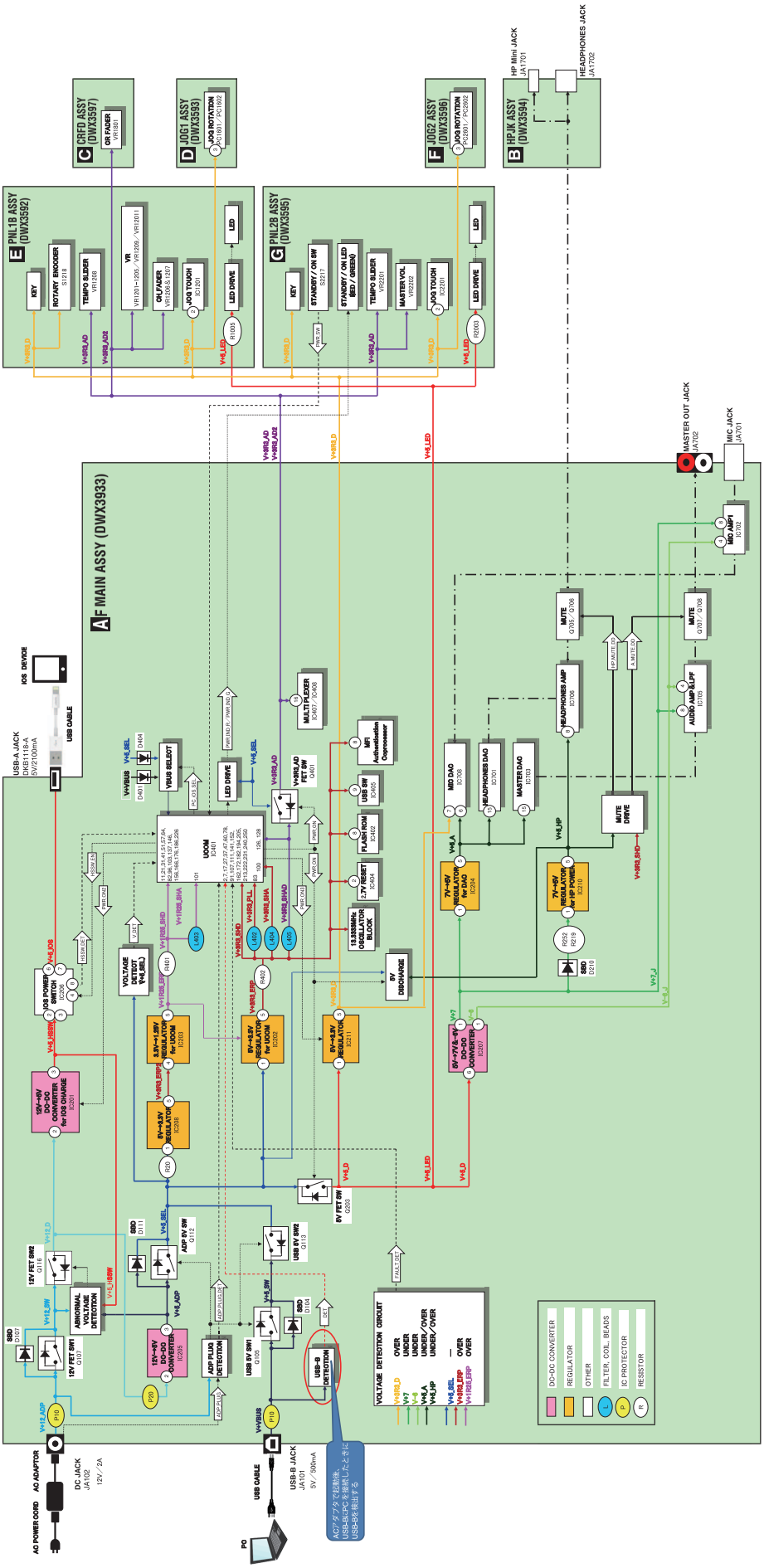
- When ordering service parts, be sure to refer to "EXPLODED VIEWS and PARTS LIST" or "PCB PARTS LIST".
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- : The power supply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



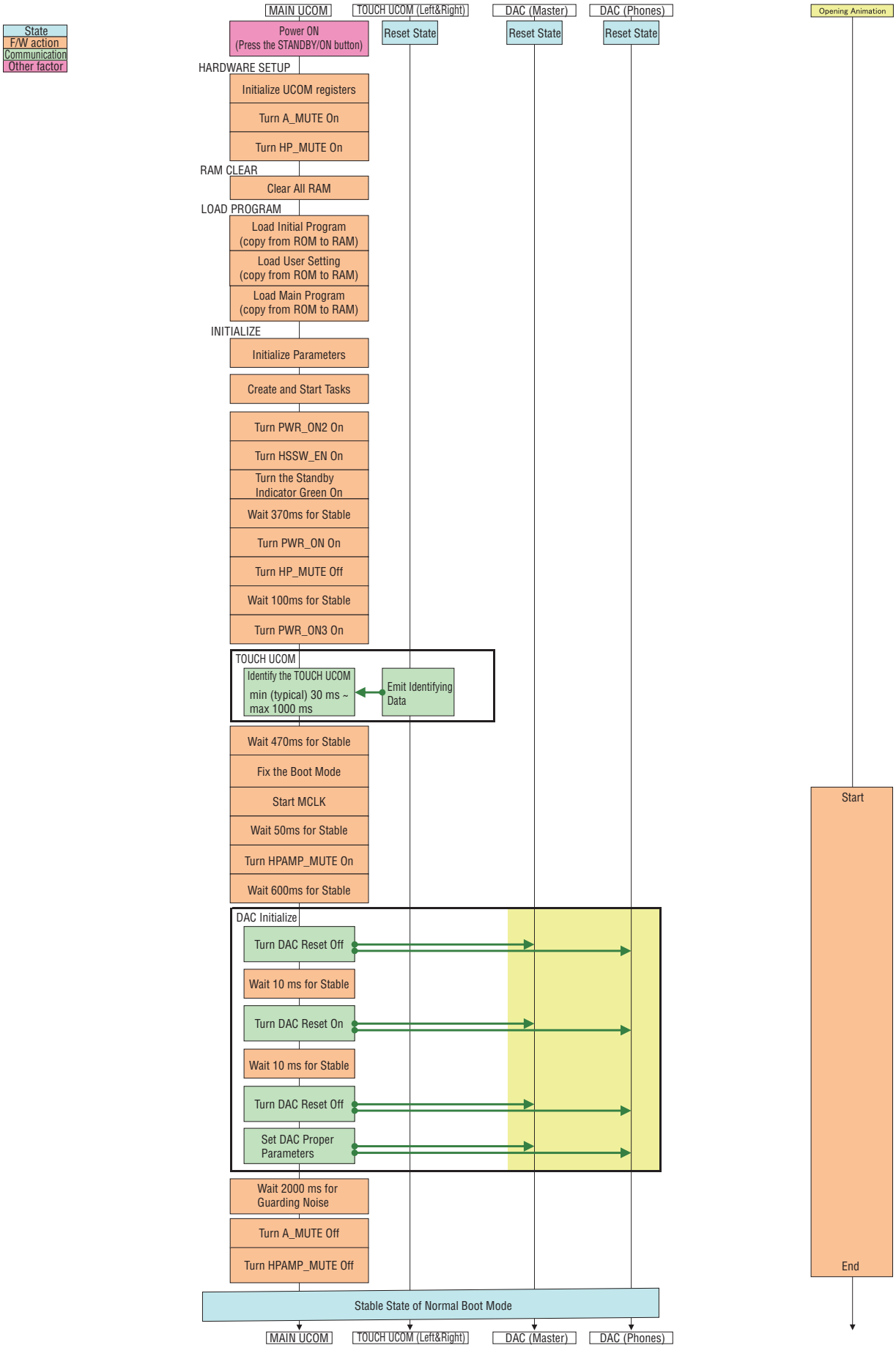
4.2 OVERALL BLOCK DIAGRAM



4.3 POWER SUPPLY BLOCK DIAGRAM



5. DIAGNOSIS
5.1 BOOT SEQUENCE



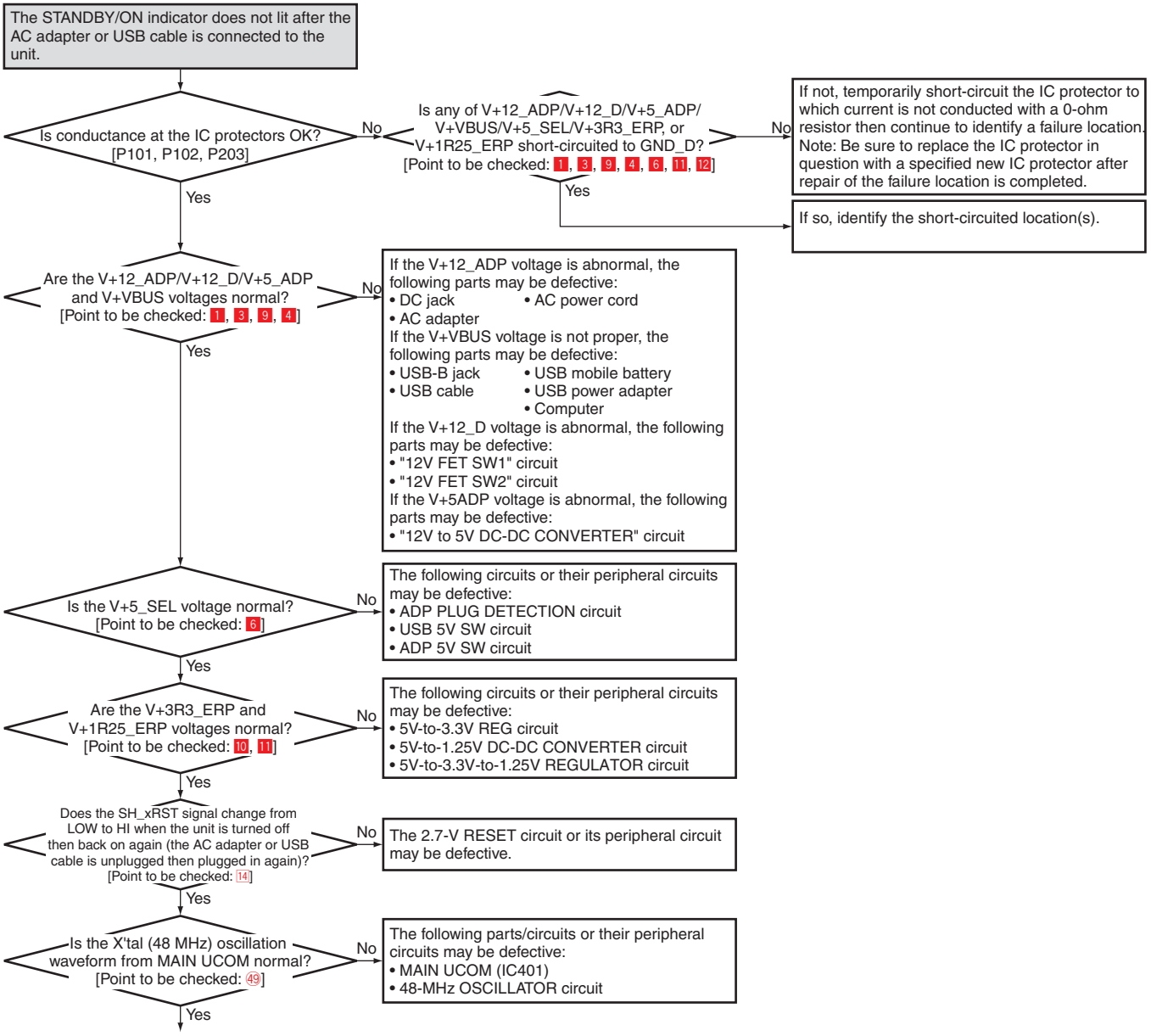
5.2 TROUBLESHOOTING

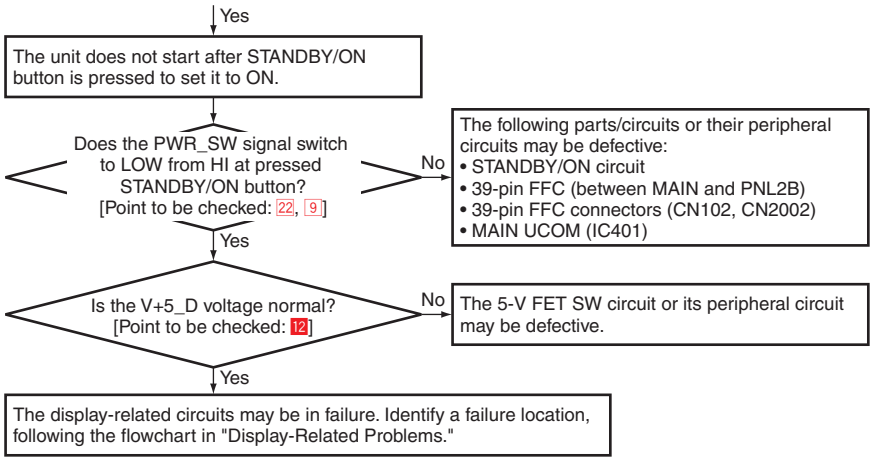
Refer to the service manual of DDJ-WEGO3 about the troubleshooting of DDJ-WEGO4 except the following list.

Reading table of the contrast description of troubleshooting

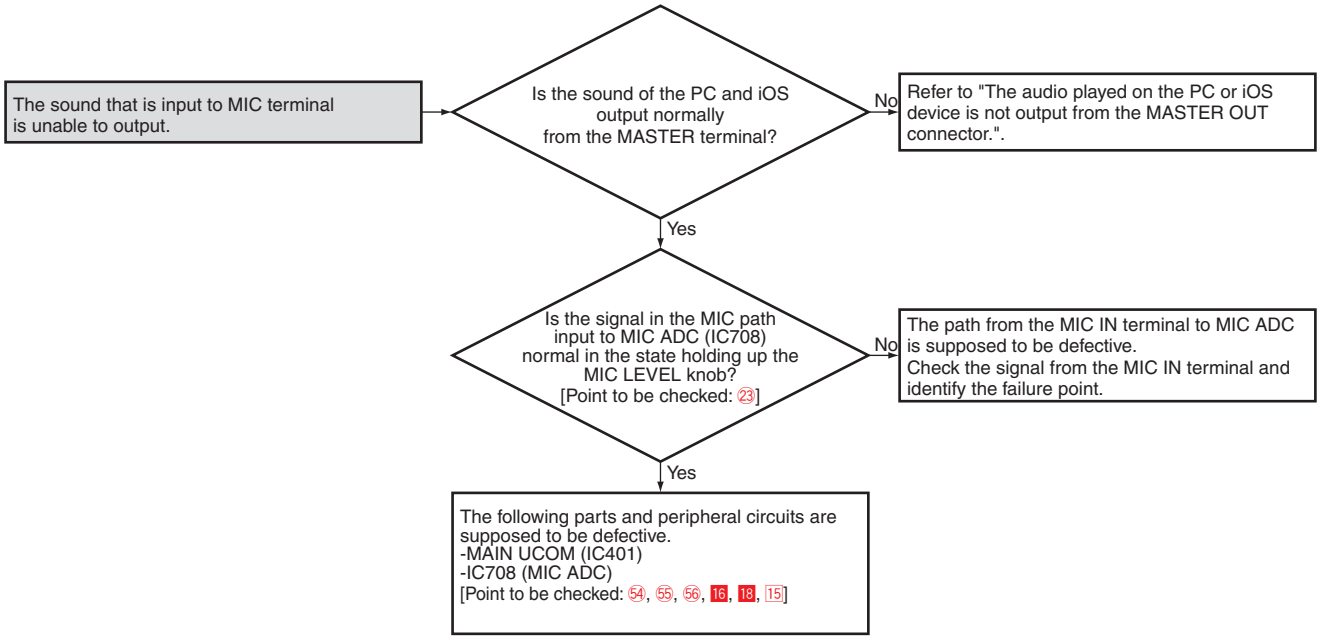
DDJ-WEGO3	DDJ-WEGO4
MAIN UCOM (IC406)	MAIN UCOM (IC401)
VBUS (IC406_pin70)	VBUS (IC401_pin95)
USB SW (IC401)	USB SW (IC405)
Pull-up resistor (R511)	Pull-up resistor (R479)
Pull-up resistor (R507)	Pull-up resistor (R481)
iOS DEVICE terminal (CN106)	USB-A JACK (JA106)
FLASH ROM (IC408)	FLASH ROM (IC402)
HEADPHONES VOL control	HEADPHONES LEVEL control
MASTER VOL control	MASTER LEVEL control

Power-Related Problems





Audio-Related Problems



5.3 DETECTION OF ABNORMAL POWER-SUPPLY VOLTAGES

This unit do not have the circuit for detecting an abnormality of the power-supply voltages about UCOM.
So, it does not apply to ③ in Service Manual about DDJ-WEGO3.
Refer to the service manual of DDJ-WEGO3 about the detection of abnormal power-supply voltages of DDJ-WEGO4 except the following list.

Reading table of the contrast description of detection of abnormal power-supply voltages

DDJ-WEGO3	DDJ-WEGO4
IC406 (MAIN UCOM_pin108) (V_DET terminal)	IC401 (MAIN UCOM_pin160) (V_DET terminal)
IC406 (MAIN UCOM_pin107) (FAULT_DET input terminal)	IC401 (MAIN UCOM_pin159) (FAULT_DET input terminal)

5.4 OPERATION CHECK WITH rekordbox

[Installation of rekordbox]

A brief explanation of how to install rekordbox on a PC is given below. For details, refer to the operating instructions of the software.
Install the driver software that enables audio output from the computer beforehand.
The operating environment of the PC required for installation of rekordbox is shown below.

Minimum operating environment

Supported operating systems	CPU and required memory
Mac OS X: 10.11/10.10/10.9 (latest update)	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM
Windows: 32-bit version or 64-bit version of Windows 10/Windows 8.1/Windows 7 (latest service pack)	Intel® processor Core™ i3/i5/i7, Intel® processor Core™ 2 Duo
	4 GB or more of RAM

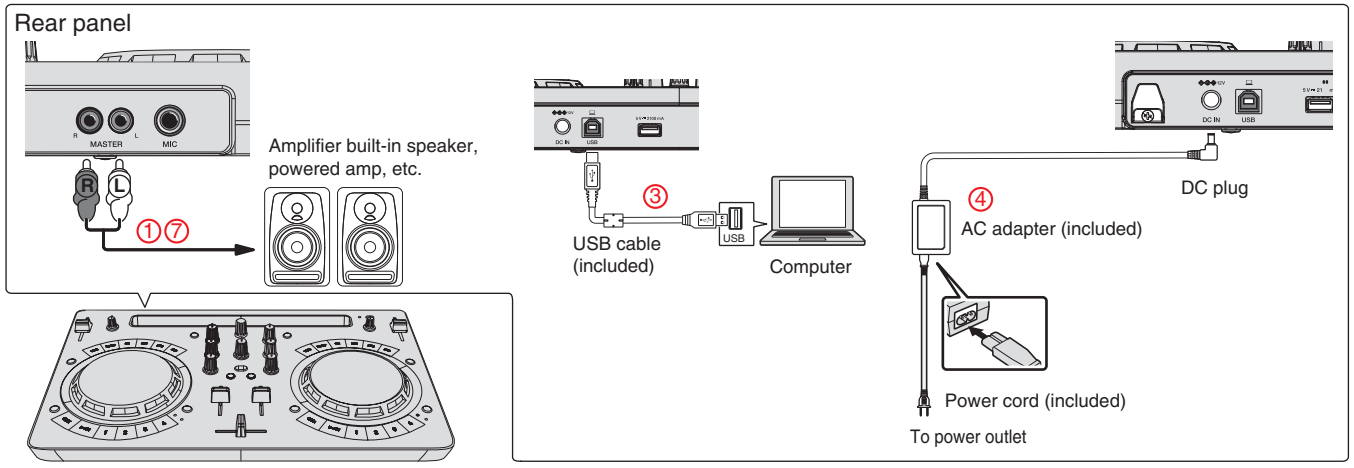
Others	
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1280 x 768 or greater
Internet connection	An Internet connection is required for registering the rekordbox user account and downloading the software.

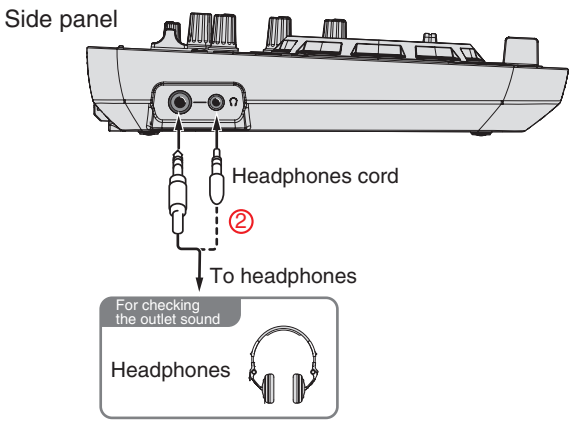
- For information on the latest system requirements, compatibility, and supported operating systems of rekordbox, see [**System Requirements**] on the rekordbox.com site below.
  http://rekordbox.com/
- Operating System support assumes you are using the latest point release for that version.

For the latest version of the rekordbox software, access rekordbox.com and download the software from there.
For downloading, registration of a user account at rekordbox 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 [Agree], then click [Next](Mac OS X: Continue).
After installation is completed, the Installation Completed screen will be displayed. Click on [Finish](Mac OS X: Close) to quit the rekordbox installer.

- Be sure to use rekordbox Version 4.2.2 or later, because the prior versions of rekordbox do not support the DDJ-WEGO4.
- Activation using a license key is required to use PERFORMANCE mode for enabling the DJ performance function of rekordbox.

[Connections]





[Operating procedures]

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

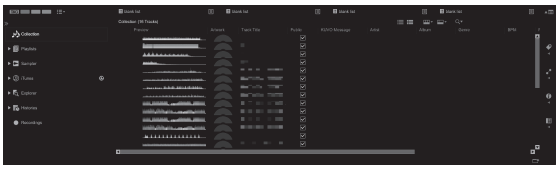
Launching rekordbox

Adding music files to [Collection]

[**Collection**] is a screen for displaying a list of the music files managed by rekordbox.
Registering the music files on the computer as the music collection of rekordbox and then analyzing them enables those tracks to be used with rekordbox.

1 Click [Collection] in the tree view.
A list of the tracks registered in [**Collection**] is displayed.

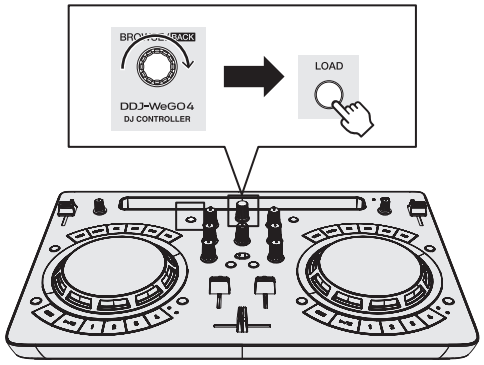
2 Open Finder or Windows explorer, then drag and drop music files or folders including music files to the track list.
The music files are added to the collection, and the waveform informa tion analysis of the music files starts. Wait until the analysis of all the music files are finished.



Loading tracks into a deck

The following describes the procedure for loading tracks into deck 1 (left side) as an example.

Turn the rotary selector to select a track in [Collection] and then press the [LOAD] button of deck 1 (left side).
The track is loaded into the deck.



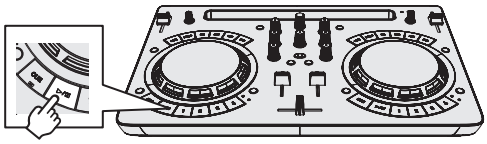
Playing a music file

The following describes the procedure for outputting the sound of deck 1 (left side) as an example.

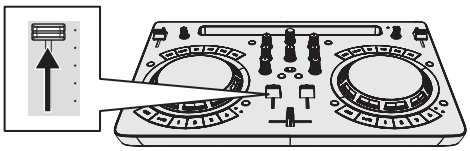
1 Set the positions of the controls, etc., as shown below.

Names of controls, etc.	Position
EQ (**HI**, **LOW**) controls	Center
FILTER control	Center
Channel fader	Moved forward
MASTER LEVEL control	Turned fully counterclockwise
Crossfader	Center

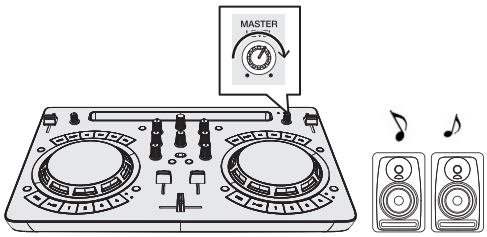
2 Press the [PLAY/PAUSE ►/❚❚] button to play the track.



3 Move the channel fader away from you.



4 Turn the [MASTER LEVEL] control to adjust the audio level of the speakers.
Adjust the audio level output from the [**MASTER**] output terminals to an appropriate level.



- Sound is output from the speakers according to your audio environment.

5.5 IC INFORMATION

■ R5S72690RW266FP-K (MAIN ASSY : IC401)

MAIN UCOM

• Pin Function

Pin No.	ピン名称 Pin Name	DDJ-WEGO4	I/O	信号名 Signal	Function
1	PC1/ RD	PC1	O	OPEN	No used (OPEN)
2	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
3	PC2/RD/ WR /SCK6	PC2	O	GRID_3	GRID control (GRID_3)
4	PC3/ WE0 /DQMLL/RxD6	PC3	O	GRID_4	GRID control (GRID_4)
5	PC4/ WE1 / WE /DQMLU/TxD6	PC4	O	GRID_5	GRID control (GRID_5)
6	PC5/ RAS /CRx0/CRx0/CRx1/CRx2/IRQ0	PC5	O	GRID_6	GRID control (GRID_6)
7	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
8	PC6/ CAS /SCK7/CTx0/CTx0&CTx1&CTx2	PC6	O	GRID_7	GRID control (GRID_7)
9	Vss	Vss	GND	GNDD	GND pin
10	PC7/CKE/RxD7/CRx1/CRx0/CRx1/IRQ1	PC7	O	KEY_0	KEY detection (KEY_0)
11	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
12	PC8/ CS3 /TxD7/CTx1/CTx0&CTx1	PC8	O	KEY_1	KEY detection (KEY_1)
13	PB1/A1/TIOC0A	PB1	O	KEY_4	KEY detection (KEY_4)
14	PB2/A2/TIOC0B	PB2	O	KEY_2	KEY detection (KEY_2)
15	PB3/A3/TIOC0C	TIOC0C	O	LED_8	LED_SEG control_PWM (LED_8)
16	PJ14/DV_DATA14/LCD_DATA14/PINT6/PWM2G/TxD6	PJ14	O	KEY_3	KEY detection (KEY_3)
17	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
18	PJ15/DV_DATA15/LCD_DATA15/PINT7/PWM2H/TxD7	PJ15	O	OPEN	No used (OPEN)
19	Vss	Vss	GND	GNDD	GND pin
20	PB4/A4/TIOC0D	TIOC0D	O	LED_7	LED_SEG control_PWM (LED_7)
21	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
22	PJ16/DV_DATA16/LCD_DATA16/RSPCK0/TIOC0A/SIOFSCK	PJ16	O	OPEN	No used (OPEN)
23	PJ17/DV_DATA17/LCD_DATA17/SSL00/TIOC0B/SIOFSYNC	PJ17	O	PWR_ON2	iOS charge control (POWER ON2)
24	PJ18/DV_DATA18/LCD_DATA18/MOSI0/TIOC0C/SIOFTxD	PJ18	O	PWR_ON3	Power supply control for TOUCH UCOM (POWER ON3)
25	PB5/A5/TIOC1A	TIOC1A	O	LED_2	LED_SEG control_PWM (LED_2)
26	PB6/A6/TIOC1B	PB6	O	OPEN	No used (OPEN)
27	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
28	PB7/A7/TIOC2A	PB7	O	OPEN	No used (OPEN)
29	Vss	Vss	GND	GNDD	GND pin
30	PB8/A8/TIOC2B	PB8	O	OPEN	No used (OPEN)
31	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
32	PB9/A9/TIOC3A	PB9	O	LED_6	LED_SEG control (LED_6)
33	PB10/A10/TIOC3B	PB10	O	OPEN	No used (OPEN)
34	PB11/A11/TIOC3C	TIOC3C	O	LED_10	LED_SEG control_PWM (LED_10)
35	PB12/A12/TIOC3D	PB12	O	OPEN	No used (OPEN)
36	PJ19/DV_DATA19/LCD_DATA19/MISO0/TIOC0D/SIOFRxD/AUDIO_XOUT	AUDIO_XOUT	O	ADDA_MCLK	MCLK (ADDA_MCLK)
37	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
38	PJ20/DV_DATA20/LCD_DATA20/LCD_TCON3/IRQ0/CRx2/CRx0/CRx1/CRx2	PJ20	I	ADP_PLUG_DET	AC adapter detection (ADP_PLUG_DET)
39	Vss	Vss	GND	GNDD	GND pin
40	PB13/A13/QIO2_1/SPBIO2_1	PB13	O	OPEN	No used (OPEN)
41	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
42	PJ21/DV_DATA21/LCD_DATA21/LCD_TCON4/IRQ1/CTx2/CTx0&CTx1&CTx2	PJ21	I	PWR_SW	Power switch detection (PWR_SW)
43	PJ22/DV_DATA22/LCD_DATA22/LCD_TCON5/IRQ2/CRx1/CRx0/CRx1	PJ22	O	OPEN	No used (OPEN)
44	PJ23/DV_DATA23/LCD_DATA23/LCD_TCON6/IRQ3/CTx1/CTx0&CTx1	IRQ3	I	JOG_TCH_2	JOG touch detection 2 (JOG_TCH_2)
45	PB14/A14/QIO3_1/SPBIO3_1	PB14	O	DEBUG1	DEBUG LED →No used (OPEN)
46	PB15/A15/QIO2_0/SPBIO2_0	PB15	O	DEBUG2	DEBUG LED →No used (OPEN)
47	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
48	PB16/A16/QIO3_0/SPBIO3_0	PB16	O	PWR_ON	Power ON control (ON/OFF)
49	Vss	Vss	GND	GNDD	GND pin
50	PB17/A17/QSPCLK_0/RSPCK0/SPBCLK	RSPCK0	O	SH_FLASH_SCLK	Connect to serial FLASH (SH_FLASH_SCLK)
51	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
52	PB18/A18/QSSL_0/SSL00/SPBSSL	SSL00	O	SH_FLASH_xCS	Connect to serial FLASH (SH_FLASH_xCS)
53	PB19/A19/QMO_0/QIO0_0/MOSI0/SPBMO_0/SPBIO0_0	MOSI0	O	SH_FLASH_MOSI	Connect to serial FLASH (SH_FLASH_MOSI)
54	PB20/A20/QMI_0/QIO1_0/MISO0/SPBMI_0/SPBIO1_0	MISO0	I	SH_FLASH_MISO	Connect to serial FLASH (SH_FLASH_MISO)
55	Vss	Vss	GND	GNDD	GND pin
56	PB21/A21/CRx2/IERxD	PB21	O	SH_FLASH_WP	Connect to serial FLASH (SH_FLASH_WP)
57	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
58	PB22/A22/CTx2/IETxD/ CS4	PB21	O	OPEN	No used (OPEN)
59	PC0/ CS0 /MD_BOOT2	MD_BOOT2	I	PULL-UP (10k)	MODE setting pin(Pull UP)
60	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
61	CKIO	NC (CKIO)	O	No USE (OPEN)	No used (OPEN)
62	Vss	Vss	GND	GNDD	GND pin
63	PA0/MD_BOOT0	MD_BOOT0	I	PULL-UP (10k)	MODE setting pin(Pull UP)
64	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
65	PA1/MD_BOOT1	MD_BOOT1	I	PULL-DOWN (10k)	MODE setting pin(Pull DOWN)

• Pin Function

Pin No.	ピン名称 Pin Name	DDJ-WEGO4	I/O	信号名 Signal	Function
66	PJ28/SSISCK5/TIOC1B/ RTS7	PJ28	I	HSSW_DET	High side switch FAULT detection (HSSW_DET)
67	PJ29/SSIWS5/TIOC2A/IERxD	PJ29	O	HSSW_EN	High side switch control (HSSW_EN)
68	PJ30/SSIDATA5/TIOC2B/IETxD	PJ30	O	OPEN	No used (OPEN)
69	PJ31/DV_CLK	PJ31	O	PC_iOS_SEL	USB multiplexer control (PC_iOS_SEL)
70	PE0/SCL0/TCLKA/LCD_EXTCLK	TCLKA	I	JOG_DIAL1_0	JOG1 rotation detection (JOG_DIAL1_0)
71	PE1/SDA0/TCLKB/AUDIO_CLK/DV_CLK	TCLKB	I	JOG_DIAL1_1	JOG1 rotation detection (JOG_DIAL1_1)
72	PE2/SCL1/TCLKC/ IOIS16 /DV_VSYNC	TCLKC	I	JOG_DIAL2_0	JOG2 rotation detection (JOG_DIAL2_0)
73	PE3/SDA1/TCLKD/ ADTRG /DV_HSYNC	TCLKD	I	JOG_DIAL2_1	JOG2 rotation detection (JOG_DIAL2_1)
74	PE4/SCL2/RxD4/DV_VSYNC	PE4	O	OPEN	No used (OPEN)
75	PE5/SDA2/RxD5/DV_HSYNC	PE5	O	I2C(RST)	Mfi (RESET)
76	PE6/SCL3/RxD6	SCL3	O	I2C(SCL)	Mfi (SCL)
77	PE7/SDA3/RxD7	SDA3	I/O	I2C(SDA)	Mfi (SDA)
78	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
79	NMI	NMI	I	PULL-UP (10k)	No used (Pull UP)
80	Vss	Vss	GND	GNDD	GND pin
81	ASEMD	xASEMD	I	DEBUG_JTAG_xASEMD	Debugging pin
82	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
83	PLLVcc	PLLVcc	PWR	V+3R3_PLL	Power supply pin for PLL (+3.3V)
84	EXTAL	EXTAL	I	EXTAL	Clock (13.3333MHz)
85	XTAL	XTAL	O	No USE (OPEN)	No used (OPEN)
86	PLLVss	PLLVss	GND	GNDD	GND pin (for analog PLL)
87	PLLVss	PLLVss	GND	GNDD	GND pin (for analog PLL)
88	RES	RES	I	SHリセット	UCOM RESET pin
89	RTC_X1	NC (RTC_X1)	I	No USE (GNDD)	No used (GND)
90	RTC_X2	NC (RTC_X2)	O	No USE (OPEN)	No used (OPEN)
91	USBDPVcc	USBDPVcc	PWR	V+3R3_SHD	Power supply pin (for USB +3.3 V)
92	USBDPVss	USBDPVss	GND	GNDD	GND pin (for USB GND)
93	DM	DM	I/O	D-_A_SH	USB D- data
94	DP	DP	I/O	D+_A_SH	USB D+ data
95	VBUS	VBUS	I	VBUS_SELECT	USB connect to monitor pin
96	USBDVcc	USBDVcc	PWR	V+1R25_SHD	Power supply pin (for USB core +1.25 V)
97	USBDVss	USBDVss	GND	GNDD	GND pin (for USB core GND)
98	REFRIN	REFRIN	I	PULL-DOWN (5.6k)	Reference resistor connect pin (for USB)
99	USBAPVss	USBAPVss	GND	GNDA_USB_SH	GND pin (for USB GND)
100	USBAPVcc	USBAPVcc	PWR	V+3R3_SHA	Power supply pin (for USB +3.3 V)
101	USBAVcc	USBAVcc	PWR	V+1R25_SHA	Power supply pin (for USB core +1.25 V)
102	USBAVss	USBAVss	GND	GNDA_USB_SH	GND pin (for USB core GND)
103	USBUVcc	USBUVcc	PWR	V+1R25_SHD	Power supply pin (for USB 480MHz operation +1.25 V)
104	USBUVss	USBUVss	GND	GNDD	GND pin (for USB USB 480MHz operation GND)
105	USB_X1	USB_X1	I	USB_X1	USB Clock(48MHz)
106	USB_X2	USB_X2	O	USB_X2	USB Clock(48MHz)
107	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
108	VIDEO_X1	VIDEO_X1	I	GNDD	No used (GND)
109	VIDEO_X2	VIDEO_X2	O	OPEN	No used (OPEN)
110	Vss	Vss	GND	GNDD	GND pin
111	VDAVcc	VDAVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
112	VDAVss	VDAVss	GND	GNDD	GND pin
113	VIN1	VIN1	I	OPEN	No used (OPEN)
114	VIN2	VIN2	I	OPEN	No used (OPEN)
115	VRT	VRT	O	OPEN	No used (OPEN)
116	VRB	VRB	O	OPEN	No used (OPEN)
117	BIAS	BIAS	I	PULL-DOWN (24k)	No used (Pull DOWN)
118	PH0/AN0/PINT0	AN0	I	V_DET_AD	Reduced voltage detection (V_DET_AD) → No used (OPEN)
119	PH1/AN1/PINT1	AN1	I	AD_MUX_1	Analog input (AD_MUX_1)
120	PH2/AN2/PINT2	AN2	I	AD_MUX_2	Analog input (AD_MUX_1)
121	PH3/AN3/PINT3	AN3	I	PULL-DOWN (10k)	No used (Pull DOWN)
122	PH4/AN4/PINT4	AN4	I	PULL-DOWN (10k)	No used (Pull DOWN)
123	PH5/AN5/PINT5/LCD_EXTCLK	AN5	I	AD_CH1_FADER	Analog input (AD_CH1_FADER)
124	AVss	AVss	GND	GNDD	GND pin (for analog)
125	PH6/AN6/PINT6	AN6	I	AD_CROSS_FADER	Analog input (AD_CROSS_FADER)
126	AVcc	AVcc	PWR	V+3R3_SHAD	Power supply pin (for analog reference +3.3 V)
127	PH7/AN7/PINT7	AN7	I	AD_CH2_FADER	Analog input (AD_CH2_FADER)
128	AVref	AVref	PWR	V+3R3_SHAD	Power supply pin (for analog reference +3.3 V)
129	TRST	xTRST	I	xTRST	Debugging pin
130	ASEBRKAK / ASEBRK	xASEBRKAK/xASEBRK	I/O	xASEBRKAK/xASEBRK	Debugging pin
131	TDO	TDO	O	TDO	Debugging pin
132	TDI	TDI	I	TDI	Debugging pin
133	TMS	TMS	I	TMS	Debugging pin
134	TCK	TCK	I	TCK	Debugging pin

• Pin Function

Pin No.	ピン名称 Pin Name	DDJ-WEGO4	I/O	信号名 Signal	Function
135	Vss	Vss	GND	GNDD	GND pin
136	PG0/D16/LCD_DATA0/IRQ0/TIOC0A	IRQ0	I	VBUS_DET	USB B detection (VBUS_DET)
137	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
138	PG1/D17/LCD_DATA1/IRQ1/TIOC0B	PG1	O	OPEN	No used (OPEN)
139	Vss	Vss	GND	GNDD	GND pin
140	PG2/D18/LCD_DATA2/IRQ2/TIOC0C	IRQ2	I	JOG_TCH_1	JOG touch detection 1 (JOG_TCH_1)
141	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
142	AUDIO_X2	AUDIO_X2	O	24.576MHz	Clock (24.576MHz)
143	AUDIO_X1	AUDIO_X1	I	24.576MHz	Clock (24.576MHz)
144	Vss	Vss	GND	GNDD	GND pin
145	PG3/D19/LCD_DATA3/IRQ3/TIOC0D	PG3	O	MUX_SW_C	multiplexer control C(MUX_SW_C)
146	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
147	PG4/D20/LCD_DATA4/IRQ4/TIOC1A	PG4	O	MUX_SW_B	multiplexer control B(MUX_SW_B)
148	PG5/D21/LCD_DATA5/IRQ5/TIOC1B	PG5	O	MUX_SW_A	multiplexer control A(MUX_SW_A)
149	PG6/D22/LCD_DATA6/IRQ6/TIOC2A	IRQ6	I	JOG_DIAL1_0	JOG rotation detection for production (JOG_DIAL1_0)
150	PG7/D23/LCD_DATA7/IRQ7/TIOC2B	IRQ7	I	JOG_DIAL1_1	JOG rotation detection for production (JOG_DIAL1_1)
151	PJ0/DV_DATA0/LCD_DATA0/SD_CD_1/PWM1A	PJ0	O	OPEN	No used (OPEN)
152	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
153	PJ1/DV_DATA1/LCD_DATA1/SD_WP_1/PWM1B	PJ1	O	OPEN	No used (OPEN)
154	Vss	Vss	GND	GNDD	GND pin
155	PG8/D24/LCD_DATA8/PINT0/TIOC3A	PG8	O	OPEN	No used (OPEN)
156	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
157	PJ2/DV_DATA2/LCD_DATA2/SD_D1_1/PWM1C	PJ2	O	OPEN	No used (OPEN)
158	PJ3/DV_DATA3/LCD_DATA3/SD_D0_1/PWM1D	PJ3	O	OPEN	No used (OPEN)
159	PJ4/DV_DATA4/LCD_DATA4/SD_CLK_1/PWM1E	PJ4	I	FAULT_DET	Abnormal voltage detection (FAULT_DET)
160	PG9/D25/LCD_DATA9/PINT1/TIOC3B	PG9	I	V_DET	Reduced voltage detection (V_DET)
161	PG10/D26/LCD_DATA10/PINT2/TIOC3C	PG10	O	OPEN	No used (OPEN)
162	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
163	PG11/D27/LCD_DATA11/PINT3/TIOC3D	PG11	O	OPEN	No used (OPEN)
164	Vss	Vss	GND	GNDD	GND pin
165	PG12/D28/LCD_DATA12/PINT4	PG12	O	OPEN	No used (OPEN)
166	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
167	PG13/D29/LCD_DATA13/PINT5	PG13	O	M_DAC_CS	MASTER DAC CS control (M_DAC_CS)
168	PG14/D30/LCD_DATA14/PINT6	PG14	O	H_DAC_CS	HP DAC CS control (H_DAC_CS)
169	PG15/D31/LCD_DATA15/PINT7	PG15	O	OPEN	No used (OPEN)
170	PG16/ WE2 / ICIORD /DQMUL/LCD_DATA16/AUDATA0	PG16	O	OPEN	No used (OPEN)
171	PJ5/DV_DATA5/LCD_DATA5/SD_CMD_1/PWM1F	PG17	O	OPEN	No used (OPEN)
172	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
173	PJ6/DV_DATA6/LCD_DATA6/SD_D3_1/PWM1G	PJ6	O	OPEN	No used (OPEN)
174	Vss	Vss	GND	GNDD	GND pin
175	PG17/ WE3 / ICIOWR / AH /DQMUU/LCD_DATA17/AUDATA1	PG17	O	OPEN	No used (OPEN)
176	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
177	PJ7/DV_DATA7/LCD_DATA7/SD_D2_1/PWM1H	PJ7	O	OPEN	No used (OPEN)
178	PJ8/DV_DATA8/LCD_DATA8/PINT0/PWM2A/ CTS5	PJ8	O	OPEN	No used (OPEN)
179	PJ9/DV_DATA9/LCD_DATA9/PINT1/PWM2B/ RTS5	PJ9	O	OPEN	No used (OPEN)
180	PG18/DV_DATA4/LCD_DATA18/SPDIF_IN/SCK4	PG18	O	OPEN	No used (OPEN)
181	PG19/DV_DATA5/LCD_DATA19/SPDIF_OUT/SCK5	PG19	O	OPEN	No used (OPEN)
182	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
183	PG20/DV_DATA6/LCD_DATA20/LCD_TCON3/RxD4	PG20	O	OPEN	No used (OPEN)
184	Vss	Vss	GND	GNDD	GND pin
185	PG21/DV_DATA7/LCD_DATA21/LCD_TCON4/TxD4/AUDATA2	PG21	O	OPEN	No used (OPEN)
186	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
187	PG22/LCD_DATA22/LCD_TCON5/RxD5/ AUDSYNC	PG22	O	OPEN	No used (OPEN)
188	PG23/LCD_DATA23/LCD_TCON6/TxD5/AUDATA3	PG23	O	OPEN	No used (OPEN)
189	PG24/LCD_CLK	PG24	O	OPEN	No used (OPEN)
190	PG25/LCD_TCON0	PG25	O	OPEN	No used (OPEN)
191	PG26/LCD_TCON1	PG26	O	A_MUTE	MUTE control MASTER(A_MUTE)
192	PG27/LCD_TCON2/LCD_EXTCLK	PG27	O	HP_MUTE	MUTE control HP(HP_MUTE)
193	PF0/ BREQ /QSPCLK_1/RSPCK1/TIOC4A/DREQ0/AUDCK	TIOC4A	O	LED_9	LED_SEG control_PWM (LED_9)
194	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
195	PF1/ BACK /QSSL_1/SSL10/TIOC4B/DACK0	PF1	O	OPEN	No used (OPEN)
196	Vss	Vss	GND	GNDD	GND pin
197	PF2/ WAIT /QMO_1/QIO0_1/MOSI1/TIOC4C/TEND0/SPBMO_1/SPBIO0_1	TIOC4C	O	LED_3	LED_SEG control_PWM (LED_3)
198	PF3/ CS2 /QMI_1/QIO1_1/MISO1/TIOC4D/AUDIO_XOUT/SPBMI_1/SPBIO1_1	PF3	O	LED_4	LED_SEG control (LED_4)
199	PF4/ CS5 / CE1A /SSISCK0/SGOUT_0	SSISCK0	O	H_DAC_BCK	I2S (H_DAC_BCK)
200	PF5/SSIWS0/SGOUT_1	SSIWS0	O	H_DAC_LRCK	I2S (H_DAC_LRCK)
201	PF6/ CE2A /SSITxD0/SGOUT_2	SSITxD0	O	H_DAC_DATA	I2S (H_DAC_DATA)

• Pin Function

Pin No.	ピン名称 Pin Name	DDJ-WEGO4	I/O	信号名 Signal	Function
202	PF7/SSIRxD0/RxD0/SGOUT_3/ CTS1	PF7	O	OPEN	No used (OPEN)
203	PF8/A23/TxD0	TXD0	O	DAC_CDTI	DAC control (DAC_CDTI)
204	PF9/ BS /DV_DATA0/SCK0/MMC_D4/ RTS1	SCK0	O	DAC_CCLK	DAC control (DAC_CCLK)
205	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
206	PF10/ CS1 /SSISCK1/DV_DATA1/SCK1/MMC_D5	SSISCK1	O	MIC_ADC_BCK	I2C (MIC_ADC_BCK)
207	Vss	Vss	GND	GNDD	GND pin
208	PF11/SSIWS1/DV_DATA2/RxD1/MMC_D6	SSIWS1	O	MIC_ADC_LRCK	I2C (MIC_ADC_LRCK)
209	PF12/SSIDATA1/DV_DATA3/TxD1/MMC_D7	SSIDATA1	I	ADAT_MIC	I2C (ADAT_MIC)
210	PF13/A24/SSISCK2/SCK2	SSISCK2	O	M_DAC_BCK	I2C (M_DAC_BCK)
211	PF14/A25/SSIWS2/RxD2	SSIWS2	O	M_DAC_LRCK	I2C (M_DAC_LRCK)
212	PF15/A0/SSIDATA2/ WDTOVF /TxD2/ UBCTRG	SSIDATA2	O	M_DAC_DATA	I2C (M_DAC_DATA)
213	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
214	PJ10/DV_DATA10/LCD_DATA10/PINT2/PWM2C/SCK5	PJ10	O	OPEN	No used (OPEN)
215	Vss	Vss	GND	GNDD	GND pin
216	PF16/SD_CD_0/ FCE /IRQ4/MMC_CD	IRQ4	I	JOG_DIAL2_0	JOG rotation detection for production (JOG_DIAL2_0)
217	PF17/SD_WP_0/FRB/IRQ5	IRQ5	I	JOG_DIAL2_1	JOG rotation detection for production (JOG_DIAL2_1)
218	PF18/SD_D1_0/SSISCK3/IRQ6/MMC_D1	PF18	O	OPEN	No used (OPEN)
219	PJ11/DV_DATA11/LCD_DATA11/PINT3/PWM2D/SCK6	PJ11	O	OPEN	No used (OPEN)
220	PJ12/DV_DATA12/LCD_DATA12/PINT4/PWM2E/SCK7	PJ12	O	OPEN	No used (OPEN)
221	PJ13/DV_DATA13/LCD_DATA13/PINT5/PWM2F/TxD5	PJ13	O	OPEN	No used (OPEN)
222	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
223	PF19/SD_D0_0/SSIWS3/IRQ7/MMC_D0	PF19	O	OPEN	No used (OPEN)
224	Vss	Vss	GND	GNDD	GND pin
225	PF20/SD_CLK_0/SSIDATA3/MMC_CLK	PF20	O	OPEN	No used (OPEN)
226	Vcc	Vcc	PWR	V+1R25_SHD	Power supply pin (for core +1.25 V)
227	PF21/SD_CMD_0/SCK3/MMC_CMD	PF21	O	PWR_ING_R	STANDBY/ON indicator (Red)
228	PF22/SD_D3_0/RxD3/MMC_D3	PF22	O	PWR_ING_G	STANDBY/ON indicator (Green)
229	PF23/SD_D2_0/TxD3/MMC_D2	PF23	O	OPEN	No used (OPEN)
230	PD0/D0/PWM1A	PWM1A	O	OPEN	No used (OPEN)
231	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
232	PJ24/SGOUT_0/SSISCK4/LCD_TCON3/SPDIF_IN/SCK7	PJ24	O	OPEN	No used (OPEN)
233	Vss	Vss	GND	GNDD	GND pin
234	PD1/D1/PWM1B	PD1	O	OPEN	No used (OPEN)
235	PD2/D2/PWM1C	PD2	O	LED_1	LED_SEG control (LED_1)
236	PD3/D3/PWM1D	PD3	O	LED_0	LED_SEG control (LED_0)
237	PJ25/SGOUT_1/SSIWS4/LCD_TCON4/SPDIF_OUT/RxD7	PJ25	O	OPEN	No used (OPEN)
238	PJ26/SGOUT_2/SSIDATA4/LCD_TCON5/TxD7	PJ26	O	OPEN	No used (OPEN)
239	PJ27/SGOUT_3/TIOC1A/ CTS7	PJ27	O	ADDA_xRST	ADC,DAC RESET(ADDA_xRST)
240	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
241	Vss	Vss	GND	GNDD	GND pin
242	PD4/D4/ FRE /PWM1E	PD4	O	LED_5	LED_SEG control (LED_5)
243	PD5/D5/FCLE/PWM1F	PD5	O	GRID_2	GRID control (GRID_2)
244	PD6/D6/FALE/PWM1G	PD6	O	GRID_0	GRID control (GRID_0)
245	PD7/D7/ FWE /PWM1H	PD7	O	GRID_1	GRID control (GRID_1)
246	PD8/D8/NAF0/PWM2A	PD8	O	OPEN	No used (OPEN)
247	PD9/D9/NAF1/PWM2B	PD9	O	OPEN	No used (OPEN)
248	PD10/D10/NAF2/PWM2C	PD10	O	HPAMP_MUTE	MUTE Control HPAMP(HPAMP_MUTE)
249	PD11/D11/NAF3/PWM2D	PD11	O	HPAMP_BIAS	HPAMP BIAS control (HPAMP_BIAS)
250	PVcc	PVcc	PWR	V+3R3_SHD	Power supply pin (for IO +3.3 V)
251	PD12/D12/NAF4/PWM2E	PD12	O	OPEN	No used (OPEN)
252	Vss	Vss	GND	GNDD	GND pin
253	PD13/D13/NAF5/PWM2F	PD13	I	ROTARY_ENC1	"BROWSE" rotary encoder detection 1 (ROTARY_ENC1)
254	PD14/D14/NAF6/PWM2G	PD14	O	OPEN	No used (OPEN)
255	PD15/D15/NAF7/PWM2H	PD15	I	ROTARY_ENC0	"BROWSE" rotary encoder detection 0 (ROTARY_ENC0)
256	MD_CLK0	MD_CLK0	I	PULL-UP (10k)	Clock mode setting (Pull UP)

6. SERVICE MODE
6.1 TEST MODE

This unit terminal for iOS DEVICE has been changed from Lightning terminal (pin 13) of DDJ-WEGO3 to USB A terminal. So, it has been changed item of test mode from [C-1: Connection Confirmation mode with the Lightning/30-pin Cable] to [C-1: Connection Confirmation mode with the iPhone/iPad]. And changed item of <user settable items> of [A-5: Factory Reset mode] from {Auto Standby setting} to {Charging mode setting}.
The factory default setting of {Charging mode setting} is "Able to charge only at power-on and enables auto standby".
Refer to the service manual of DDJ-WEGO3 about the test mode of DDJ-WEGO4 except the following list.

Reading table of the contrast description of test mode

DDJ-WEGO3	DDJ-WEGO4
DECK A	DECK 1
DECK B	DECK 2
HOT CUE 1	PERFORMANCE 1
HOT CUE 2	PERFORMANCE 2
HOT CUE 3	PERFORMANCE 3
HOT CUE 4	PERFORMANCE 4
MASTER	HEADPHONES SELECT MASTER
A	HEADPHONES SELECT 1
B	HEADPHONES SELECT 2

[C-1: Connection Confirmation mode with the iPhone/iPad]

• Before confirmation in this mode

① Properly connect the iPhone/iPad supplied cable to the DDJ-WEGO4.
② Turn the DDJ-WEGO4 ON.
③ Turn the iOS device ON.
④ Connect the iPhone/iPad supplied cable to the iOS device (iPhone/iPad/iPod touch).
⑤ On the iOS device, select Settings, General, About, then DJ Controller.
If "DDJ-WEGO4" is displayed along with the version and serial number, the DDJ-WEGO4 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

When the unit is transited to the mode for confirming connection to the iPhone/ iPad, the [HEADPHONES SELECT MASTER] button, [HEADPHONES SELECT 1] button and [HEADPHONES SELECT 2] button is lit. When the iPhone and iPad is connected to the USB-A terminal of this unit using the charging cable (cable provided with the iPhone and iPad), this unit displays the connection state with the iPhone and iPad by the LED of the figure below.

• iPhone and iPad corresponding to this unit

iPhone SE / iPhone 6s plus / iPhone 6s / iPhone 6 plus / iPhone 6 / iPhone 5s / iPhone 5c / iPhone 5 / iPhone 4s /
iPad Pro (9.7-inch) / iPad Air 2 / iPad Air / iPad (Fourth generation) / iPad (Third generation) / iPad 2 / iPad mini 4 /
iPad mini 3 / iPad mini 2 / iPad mini
* But the OS is necessary to be iOS8 or iOS9. (2016/7/11 right now)

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	Lit when this unit is transited to the device mode by the role SW.
L_3	Lit when this unit is transited to the power feeding state after rocognizing process with the iOS device is completed normally.
L_4	Lit in the case that the certain error (HSSW_DET detection, etc) occurs.

6.2 ABOUT DEVICE

Device Name	Part No.	Function	Ref. No.	Assy
MAIN UCOM	R5S72690RW266FP	Main microcomputer (Main control, USB control, Panel control)	IC401	MAIN Assy
FLASH ROM	DYW**** (MX25V1635FM2I-K)	SPI FLASH ROM for Main microcomputer	IC402	
MFi Authentication Coprocessor	H337S3959	MFi Authentication IC	IC403	
USB SW	TS3USB30RSW	iOS, USB differential signal select switch	IC405	
HP DAC	AK4387ET	D/A converter for HP audio	IC701	
MASTER DAC	AK4387ET	D/A converter for MASTER audio	IC703	
MIC ADC	AK5358AET	D/A converter for MIC	IC708	
TOUCH UCOM	DYW**** (PIC10F206-I/P)	Touch detection microcomputer for jog dial	IC1201	PNL1B Assy
			IC2201	PNL2B Assy

Note on DYW**
The "****" part of the part number changes each time the firmware is updated.

7. DISASSEMBLY

[7. DISASSEMBLY], refer to Service Manual for DDJ-WEGO3.

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
  IC402, 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)
  - Writing the serial number of the unit

- 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)

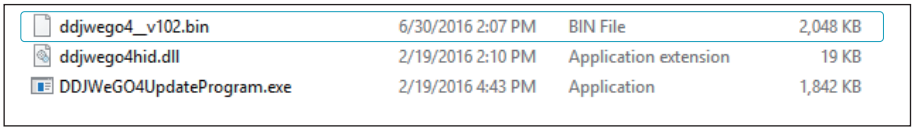
  ⇒
  - Failure Judgment of Attachment of the Photointerrupters
    * If the result of a failure judgment is "NG," reattach the photointerrupters, making sure they are properly placed, not slanted.
    If the result of a failure judgment remains "NG" even after the photointerrupters have been reattached properly, replace them again.

8.2 UPDATING OF THE FIRMWARE

■ Items necessary for updating

- DDJWeGO4UpdateProgram.exe : Application program
- ddjwego4hid.dll : HID library
- ddjwego4__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)



The subsequent procedures are based on DDJ-WEGO3.

8.3 WRITING THE SERIAL NUMBER OF THE UNIT

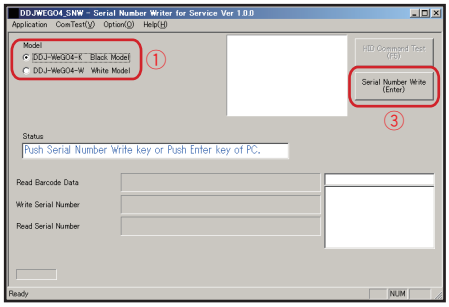
The following work is done by PC that is connecting unit by USB B terminal.

Preparations

① Download the software for writing the serial number from Niis.
② The compressed files decompress and save to PC.
The generated folder is below.
- Ini folder
- Log folder
- DDJWEGO4_SNW.exe
- device.ini
- hidcom.dll
- UsbMidi.dll

Procedure

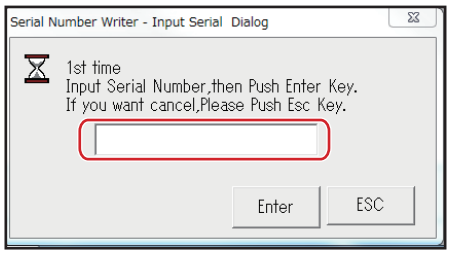
① Turn on PC, and click “DDJWEGO4_SNW.exe” in the generated folder. To select the products that fall from the Model.

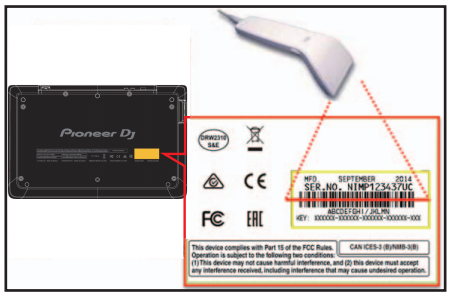


② Connect the unit with a PC via a USB B cable.

③ Push [Serial Number Write] button, display serial input dialog (first time).

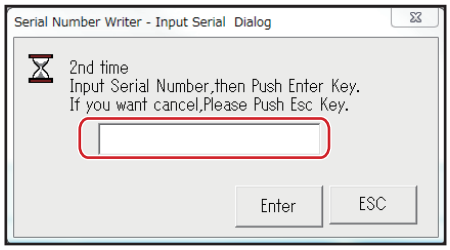
Enter serial number by handwork or barcode reader, and push “Enter”.
If enter by handwork, enter “ ' ” before serial number.
(If forgot, displayed error)
If enter by barcode reader, need to connect for PC in advance.





*Reference screen

④ Again display serial input dialog (secon time), enter serial number by handwork or barcode reader, and push “Enter”.



⑤ Turn on product dialog is displayed, and do it.

⑥ If update is finished correctly, display “OK” after a while.

This is completed about to write serial number for system.
This unit is not able to confirm the serial number in the service mode.
You can confirm the serial number on the procedure described in “6.1 TEST MODE [C-1: The mode for confirming connection to the iPhone/ iPad] • Before confirmation in this mode”.

The procedure about checking serial number

The confirmation of the serial number, you must have iOS device.
Connect the iOS device to this unit.
On the iOS device, select Settings, General, About, then DJ Controller. "DDJ-WEGO4" is displayed along with the version and serial number.

For details, refer to “6.1 TEST MODE
[C-1: The mode for confirming connection to the iPhone/ iPad]
• Before confirmation in this mode”.

8.4 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	IC402 (MAIN Assy)	Utility setting
	DECK 1 [1] button lit / [2]button lit / [3]button lit / [CUE] button lit		
Charging mode setting	**Able to charge only at power-on and enables auto standby** / Able to charge only at power-on and disables auto standby / Always enable to charge		
	DECK 2 [1]button lit / [2]button lit / [3]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 1 button lit / HEADPHONES SELECT 2 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 1 and 2, press the STANDBY/ON button.
(The SYNC buttons lit on the DECKs 1 and 2).
Then, can set each item when you press either HOT CUE/SAMPLER button on the DECK 1, HOT CUE/SAMPLER button on the DECK 2, HEADPHONES SELECT MASTER button.
(For details, refer to the operating instructions of the unit.)

Sheet for confirmation of the user setting

Demo mode setting			
10 min	5 min	1 min	OFF

Charging mode setting		
Able to charge only at power-on and enables auto standby	Able to charge only at power-on and disables auto standby	Always enable to charge

Pulse mode (illuminations) setting	
Normal	Moderate

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

DDJ-WEGO3-K/SYXJ5 and DDJ-WEGO4-K/SYXJ, UXJCB, LWPWXJ and AXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO3-K/SYXJ5	DDJ-WEGO4-K/SYXJ	DDJ-WEGO4-K/UXJCB	Remaks
⚠	1	Power Cord	ADG1154	ADG1154	XDG3052	
⚠	2	AC Adapter	DWR1546	DWR1551	DWR1552	
	4	iPhone/iPad Connection Cable (Lightning)	DDE1145	Not used	Not used	
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used	Not used	
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used	Not used	
	9	Pad/L	DHA1918	DHA1957	DHA1957	
	10	Pad/R	DHA1919	DHA1958	DHA1958	
	11	Partition/ACC	DHC1086	DHC1097	DHC1097	
	12	Packing Case	DHG3373	Not used	Not used	
		Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru)	Not used	DRH1405	Not used	No.17
		Operating Instructions (Quick Start Guide) (En)	Not used	Not used	DRH1404	No.18
		Operating Instructions (Quick Start Guide) (En, Es)	Not used	Not used	Not used	No.19
		Operating Instructions (Quick Start Guide) (Zhcn)	Not used	Not used	Not used	No.20
		Packing Case	Not used	DHG3497	DHG3497	No.21
		Packing Case	Not used	DHG3503	DHG3498	No.22
		Master carton	DHG3387	DHG3512	DHG3499	No.23
NSP		Leaflet	DRH1376	Not used	Not used	No.24
NSP		Leaflet	DRM1402	DRM1410	DRM1410	No.25
NSP		Leaflet	DRM1403	DRM1417	DRM1417	No.26
NSP		Label	DRW2690	Not used	Not used	No.27
NSP		Label	DRW2702	Not used	Not used	No.28
NSP		Label	Not used	Not used	Not used	No.29
NSP		Warranty	DRY1270	DRY1270	Not used	No.30
NSP		ERRATA	Not used	DRM1418	DRM1418	No.31
NSP		rekordbox dj license key label	Not used	DXA2304	DXA2304	No.32
NSP		VirtualDJ LE 8 license key label	Not used	DXA2328	DXA2328	No.33

Mark	No.	Symbol and Description	DDJ-WEGO3-K/SYXJ5	DDJ-WEGO4-K/LWPWXJ	DDJ-WEGO4-K/AXJ	Remaks
⚠	1	Power Cord	ADG1154	ADG1154	ADG7079	
⚠	2	AC Adapter	DWR1546	DWR1551	DWR1551	
	4	iPhone/iPad Connection Cable (Lightning)	DDE1145	Not used	Not used	
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used	Not used	
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used	Not used	
	9	Pad/L	DHA1918	DHA1957	DHA1957	
	10	Pad/R	DHA1919	DHA1958	DHA1958	
	11	Partition/ACC	DHC1086	DHC1097	DHC1097	
	12	Packing Case	DHG3373	Not used	Not used	
		Operating Instructions (Quick Start Guide) (En, Fr, De, It, NI, Es, Pt, Ru)	Not used	Not used	Not used	No.17
		Operating Instructions (Quick Start Guide) (En)	Not used	Not used	Not used	No.18
		Operating Instructions (Quick Start Guide) (En, Es)	Not used	DRH1407	Not used	No.19
		Operating Instructions (Quick Start Guide) (Zhcn)	Not used	Not used	DRH1409	No.20
		Packing Case	Not used	DHG3497	DHG3501	No.21
		Packing Case	Not used	DHG3504	DHG3506	No.22
		Master carton	DHG3387	DHG3513	DHG3515	No.23
NSP		Leaflet	DRH1376	Not used	Not used	No.24
NSP		Leaflet	DRM1402	DRM1410	DRM1410	No.25
NSP		Leaflet	DRM1403	DRM1417	DRM1417	No.26
NSP		Label	DRW2690	Not used	Not used	No.27
NSP		Label	DRW2702	Not used	Not used	No.28
NSP		Label	Not used	Not used	DRW2711	No.29
NSP		Warranty	DRY1270	Not used	Not used	No.30
NSP		ERRATA	Not used	DRM1418	DRM1418	No.31
NSP		rekordbox dj license key label	Not used	DXA2304	DXA2304	No.32
NSP		VirtualDJ LE 8 license key label	Not used	DXA2328	DXA2328	No.33

DDJ-WEGO3-W/SYXJ5 and DDJ-WEGO4-W/SYXJ, UXJCB, LWPWXJ and AXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO3-W/SYXJ5	DDJ-WEGO4-W/SYXJ	DDJ-WEGO4-W/UXJCB	Remaks
⚠	1	Power Cord	ADG1154	ADG1154	XDG3052	
⚠	2	AC Adapter	DWR1546	DWR1551	DWR1552	
	4	iPhone/iPad Connection Cable (Lightning)	DDE1145	Not used	Not used	
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used	Not used	
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used	Not used	
	9	Pad/L	DHA1918	DHA1957	DHA1957	
	10	Pad/R	DHA1919	DHA1958	DHA1958	
	11	Partition/ACC	DHC1086	DHC1097	DHC1097	
	12	Packing Case	DHG3369	Not used	Not used	
		Operating Instructions (Quick Start Guide) (En, Fr, De, It, Nl, Es, Pt, Ru)	Not used	DRH1405	Not used	No.17
		Operating Instructions (Quick Start Guide) (En)	Not used	Not used	DRH1404	No.18
		Operating Instructions (Quick Start Guide) (En, Es)	Not used	Not used	Not used	No.19
		Operating Instructions (Quick Start Guide) (Zhcn)	Not used	Not used	Not used	No.20
		Packing Case	Not used	DHG3500	DHG3500	No.21
		Packing Case	Not used	DHG3508	DHG3507	No.22
		Master carton	DHG3387	DHG3517	DHG3516	No.23
NSP		Leaflet	DRH1376	Not used	Not used	No.24
NSP		Leaflet	DRM1402	DRM1410	DRM1410	No.25
NSP		Leaflet	DRM1403	DRM1417	DRM1417	No.26
NSP		Label	DRW2690	Not used	Not used	No.27
NSP		Label	DRW2702	Not used	Not used	No.28
NSP		Label	Not used	Not used	Not used	No.29
NSP		Warranty	DRY1270	DRY1270	Not used	No.30
NSP		ERRATA	Not used	DRM1418	DRM1418	No.31
NSP		rekordbox dj license key label	Not used	DXA2304	DXA2304	No.32
NSP		VirtualDJ LE 8 license key label	Not used	DXA2328	DXA2328	No.33

Mark	No.	Symbol and Description	DDJ-WEGO3-W/SYXJ5	DDJ-WEGO4-W/LWPWXJ	DDJ-WEGO4-W/AXJ	Remaks
⚠	1	Power Cord	ADG1154	ADG1154	ADG7079	
⚠	2	AC Adapter	DWR1546	DWR1551	DWR1551	
	4	iPhone/iPad Connection Cable (Lightning)	DDE1145	Not used	Not used	
	5	Operating Instructions (DJ unit Setup) (En, Fe, De, It, Nl)	DRH1287	Not used	Not used	
	6	Operating Instructions (DJ unit Setup) (Es, Pt, Ru, Ko, Ja)	DRH1288	Not used	Not used	
	9	Pad/L	DHA1918	DHA1957	DHA1957	
	10	Pad/R	DHA1919	DHA1958	DHA1958	
	11	Partition/ACC	DHC1086	DHC1097	DHC1097	
	12	Packing Case	DHG3369	Not used	Not used	
		Operating Instructions (Quick Start Guide) (En, Fr, De, It, NI, Es, Pt, Ru)	Not used	Not used	Not used	No.17
		Operating Instructions (Quick Start Guide) (En)	Not used	Not used	Not used	No.18
		Operating Instructions (Quick Start Guide) (En, Es)	Not used	DRH1407	Not used	No.19
		Operating Instructions (Quick Start Guide) (Zhcn)	Not used	Not used	DRH1409	No.20
		Packing Case	Not used	DHG3500	DHG3502	No.21
		Packing Case	Not used	DHG3509	DHG3511	No.22
		Master carton	DHG3387	DHG3518	DHG3520	No.23
NSP		Leaflet	DRH1376	Not used	Not used	No.24
NSP		Leaflet	DRM1402	DRM1410	DRM1410	No.25
NSP		Leaflet	DRM1403	DRM1417	DRM1417	No.26
NSP		Label	DRW2690	Not used	Not used	No.27
NSP		Label	DRW2702	Not used	Not used	No.28
NSP		Label	Not used	Not used	DRW2712	No.29
NSP		Warranty	DRY1270	Not used	Not used	No.30
NSP		ERRATA	Not used	DRM1418	DRM1418	No.31
NSP		rekordbox dj license key label	Not used	DXA2304	DXA2304	No.32
NSP		VirtualDJ LE 8 license key label	Not used	DXA2328	DXA2328	No.33

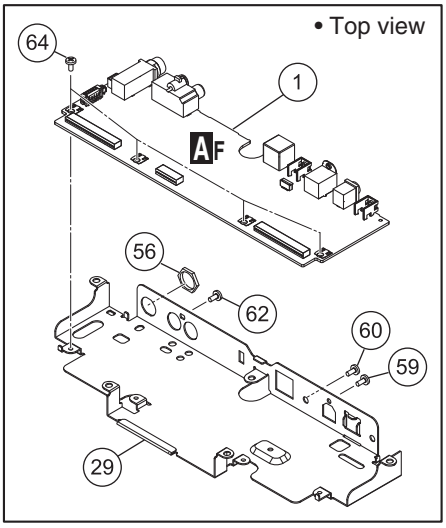
9.2 EXTERIOR SECTION

DDJ-WEGO3-K/SYXJ5 and DDJ-WEGO4-K/SYXJ, UXJCB, LWPWXJ and AXJ are constructed the same except for the following:

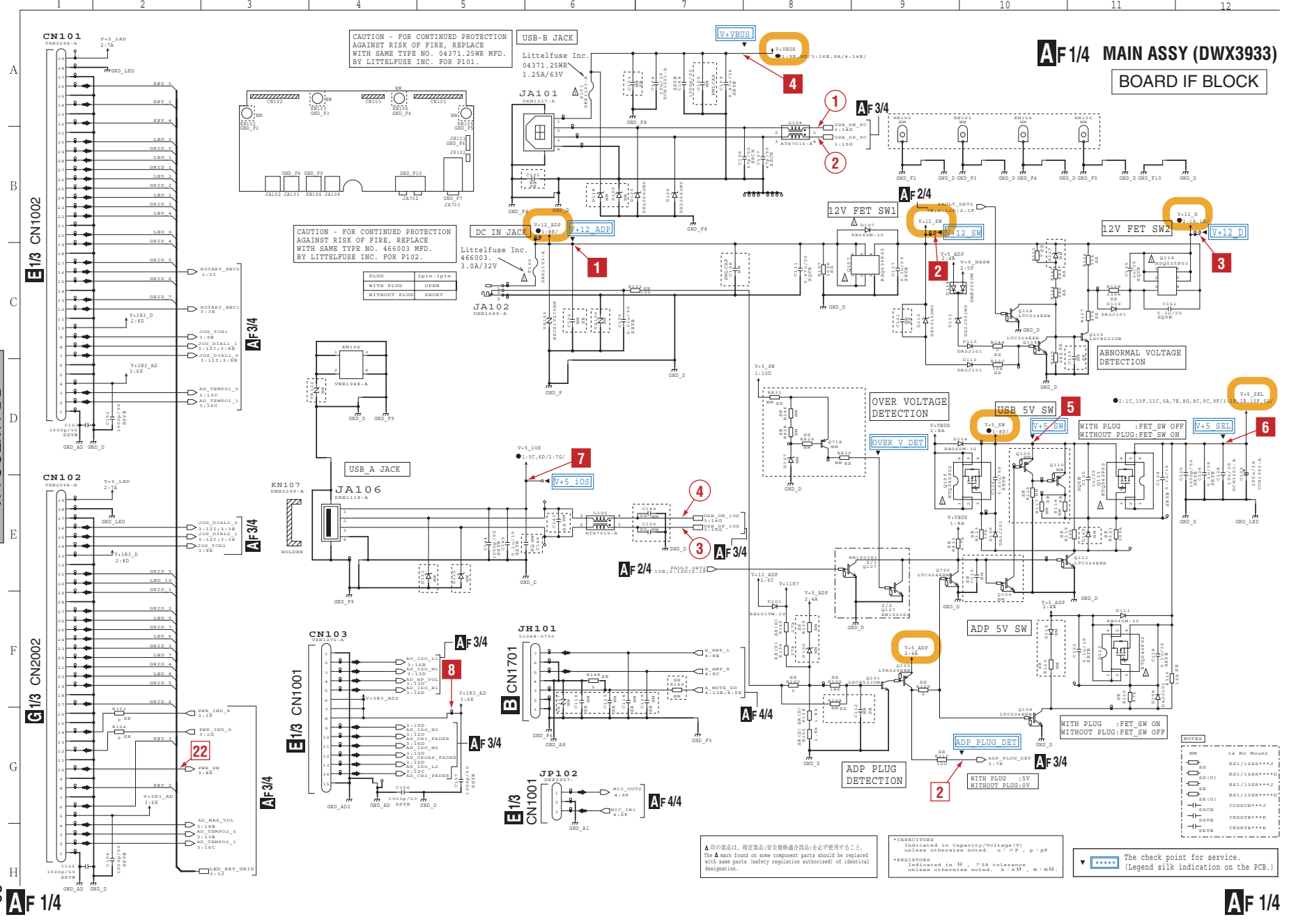
Mark	No.	Symbol and Description	DDJ-WEGO3-K/SYXJ5	DDJ-WEGO4-W/SYXJ DDJ-WEGO4-K/UXJCB DDJ-WEGO4-K/LWPWXJ DDJ-WEGO4-K/AXJ	Remaks
	1	MAIN Assy	DWX3591	DWX3933	
	12	Plate/JOG	DAH2999	DAH3129	
	15	Jog Dial/ASW	DXB2160	DXB2166	
	22	Button/CUE	DAC3012	DAC3255	
	23	Sheet/TML	DAH3001	DAH3127	
	27	Panel/AL	DNB1236	DNB1250	
⚠	38	Panel/BS	DXB2159	DXB2180	
		Screw	Not used	ABZ30P060FTC	No.64

DDJ-WEGO3-W/SYXJ5 and DDJ-WEGO4-W/SYXJ, UXJCB, LWPWXJ and AXJ are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO3-W/SYXJ5	DDJ-WEGO4-W/SYXJ DDJ-WEGO4-W/UXJCB DDJ-WEGO4-W/LWPWXJ DDJ-WEGO4-W/AXJ	Remaks
	1	MAIN Assy	DWX3591	DWX3933	
	12	Plate/JOG	DAH2999	DAH3130	
	22	Button/CUE	DAC3007	DAC3256	
	23	Sheet/TML	DAH3000	DAH3128	
	27	Panel/AL	DNB1235	DNB1251	
⚠	38	Panel/BS	DXB2158	DXB2181	
		Screw	Not used	ABZ30P060FTC	No.64



10. SCHEMATIC DIAGRAM



AF 2/4 MAIN ASSY (DWX3933)

POWER BLOCK

12V to 5V DC-DC CONVERTER

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE WITH SAME TYPE NO. 466.500 MFD. BY LITTELFUSE INC. FOR P203.

Littelfuse Inc 466.500 500mA/63V

5V FET SW

5V to 7V&-6V DC-DC CONVERTER for AUDIO POWER

5V to 3.3V REGULATOR for UCOM

5V to 1.25V REGULATOR for UCOM

7V to 5V REGULATOR for DAC

5V to 3.3V REGULATOR

7V to 5V REGULATOR for HP POWER

12V to 5V DC-DC CONVERTER for iOS CHARGE

iOS POWER SWITCH

V+5iOS DISCHARGE

5V DISCHARGE

7V DISCHARGE

VOLTAGE DETECTION CIRCUIT

VOLTAGE DETECT (V+5_SEL)

FAULT_DET

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

Normal :HI (+3.3V)
Abnormal:Low (0V)

V_DET

Under 4.2V:LOW

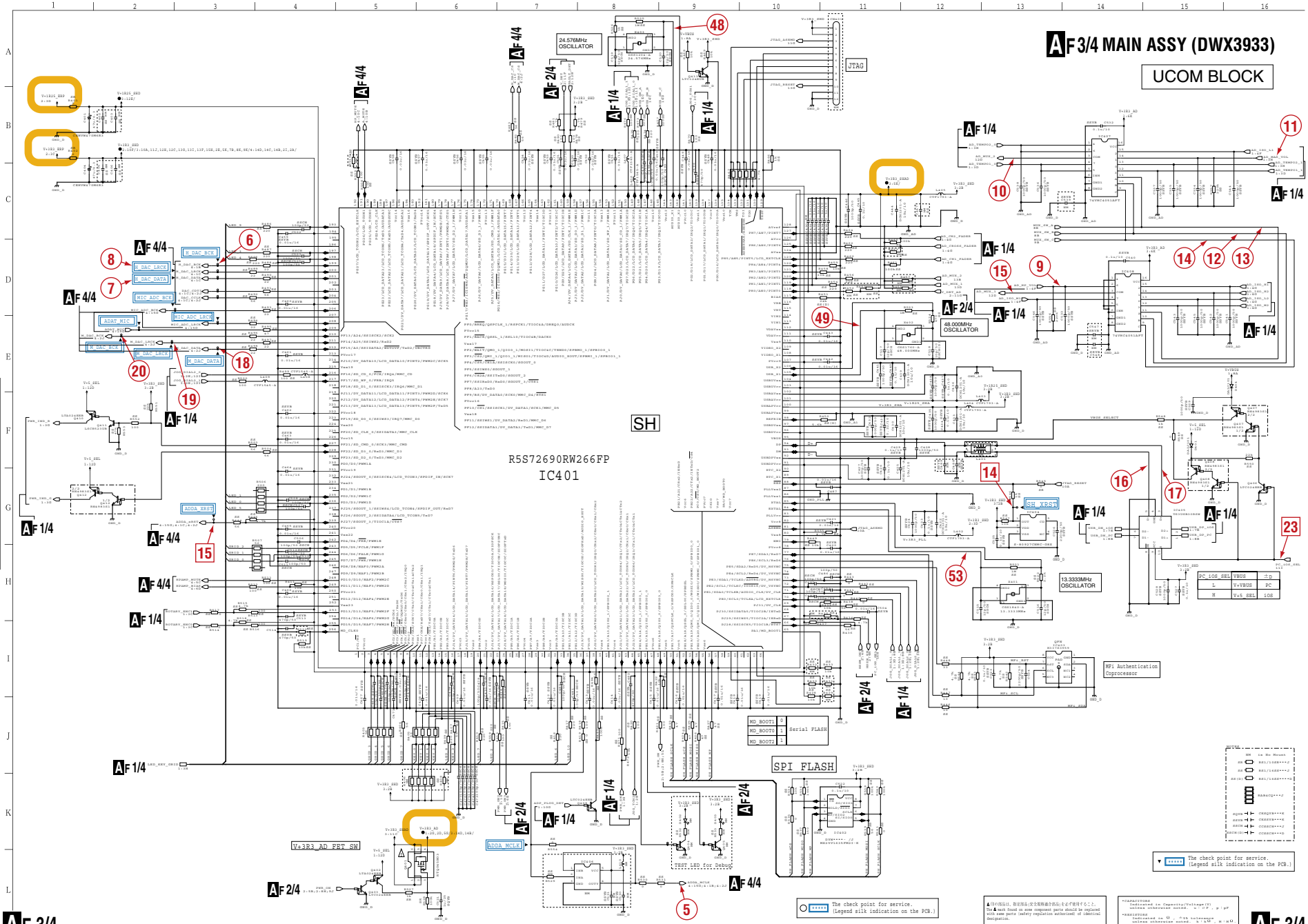
V_DET_AD

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

Δ 印の部品は、指定部品(安全規格適合部品)を必ず使用すること。
The Δ mark found on some component parts should be replaced with same parts (safety regulation authorized) of identical designation.

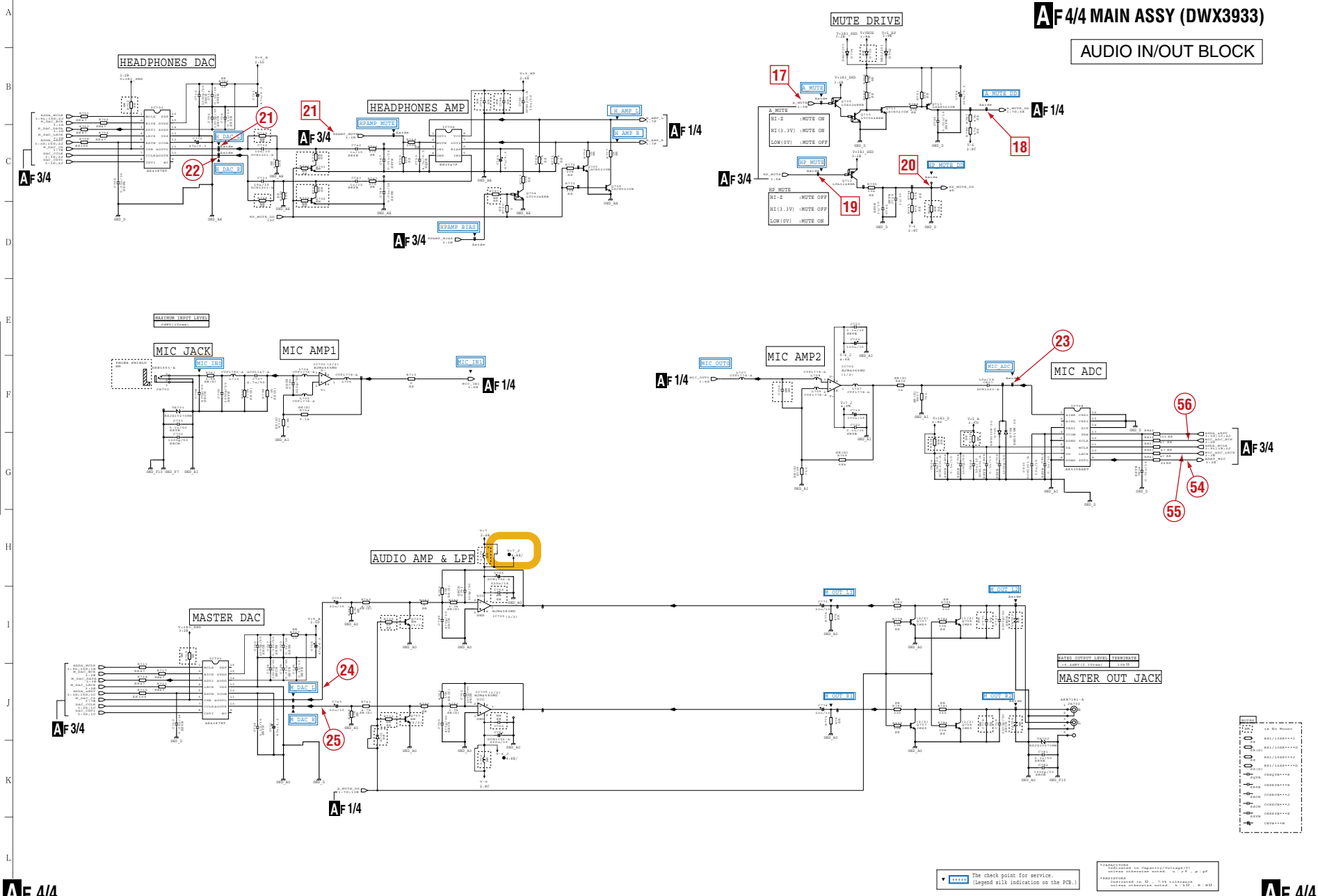
*CAPACITORS
Indicated in Capacity/Voltage(V) unless otherwise noted. u : μF , p : pF
*RESISTORS
Indicated in Ω , ±5% tolerance unless otherwise noted. k : kΩ , M : MΩ.

AF 2/4


AF 3/4 MAIN ASSY (DWX3933)
UCOM BLOCK
SH
R5S72690RW266FP
IC401
SPI FLASH
JTAG
24.576MHz OSCILLATOR
48.000MHz OSCILLATOR
13.3333MHz OSCILLATOR
H_DAC_BCK
H_DAC_LRCK
H_DAC_DATA
MIC_ADC_BCK
MIC_ADC_LRCK
M_DAC_DATA
ADA7_MIC
ADDA_XRST
SH_XRST
RDDA_MCLK
V+3R3_AD_FET_SW
TEST LED for Debug
MP1 Authentication Coprocessor
The check point for service. (Legend silk indication on the PCB.)
AF 3/4

AF 4/4 MAIN ASSY (DWX3933)

AUDIO IN/OUT BLOCK



10.5 VOLTAGES

主要信号論理表 / Main Signals Logic Table

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
ADP_PLUG_DET	WITH PLUG: HI WITHOUT PLUG: LOW	MAIN ASSY	2
FAULT_DET	NORMAL: HI ABNORMAL :LOW	MAIN ASSY	6
V_DET	NORMAL: HI ABNORMAL :LOW	MAIN ASSY	8
PWR_ON	POWER ON: HI POWER OFF: LOW	MAIN ASSY	9
PWR_ON2	POWER ON: HI POWER OFF: LOW	MAIN ASSY	10
PWR_ON3	POWER ON: HI POWER OFF: LOW	MAIN ASSY	11
HSSW_EN	WITH iOS DEVICE&AC ADAPTER: HI WITHOUT iOS DEVICE or OVERCURRENT: LOW	MAIN ASSY	12
HSSW_DET	NORMAL : LOW ABNORMAL: HI	MAIN ASSY	13
SH_xRST	POWER ON: HI POWER OFF: LOW	MAIN ASSY	14
ADDA_xRST	POWER ON: HI POWER OFF: LOW	MAIN ASSY	15
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	POWER ON: LOW POWER OFF: HI	MAIN ASSY	22
PC_iOS_SEL	WITH iOS DEVICE: HI WITH PC: LOW	MAIN ASSY	23

10.6 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。

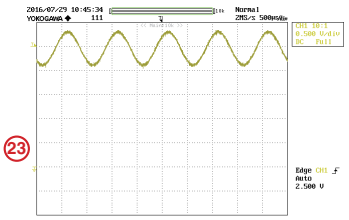
Note:
The indicated voltage values of the oscilloscope in this section are reference values and may vary, depending on the settings of the oscilloscopes and probes.
The numerics circled with a frame denote numbers for the measurement points indicated in the Schematic diagrams and PCB diagrams.

AF MAIN ASSY

MIC Signal

Condition:POWER ON
Using AC adapter
1 kHz, -54 dBV input, MIC LEVEL: Max.

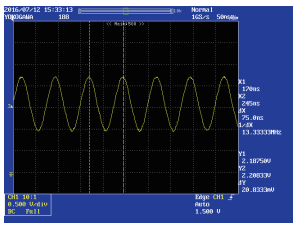
(23) **MIC_OUT1**
V: 0.5 V/div. H: 500 uS/div.



X'tal (13.33 MHz OSCILLATOR)

Condition: POWER ON
Using AC adapter

(53) **IC401 - pin 84 (EXTAL)**
V: 500 mV/div. H: 50 ns/div.



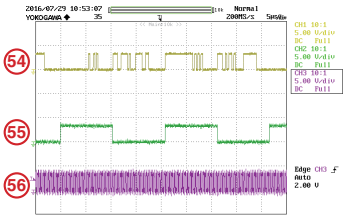
MIC ADC 12S

Condition: Power ON
Using AC adapter
1 kHz, -54 dBV input, MIC LEVEL: Max.

(54) **ADAT_MIC**
V: 5.0 V/div., H: 5 us/div.

(55) **MIC_ADC_LRCK**
V: 5.0 V/div., H: 5 us/div.

(56) **MIC_ADC_BCK**
V: 5.0 V/div., H: 5 us/div.



11. PCB CONNECTION DIAGRAM

SIDE A

: Waveforms

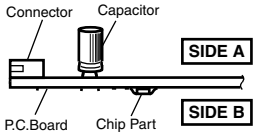
: Measurement Point for Normal Voltage Level

: Voltage Measurement Point

NOTE FOR PCB DIAGRAMS

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

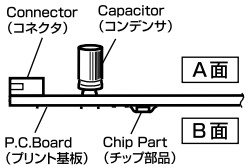
2.Viewpoint of PCB diagrams



PCB図に対する注意

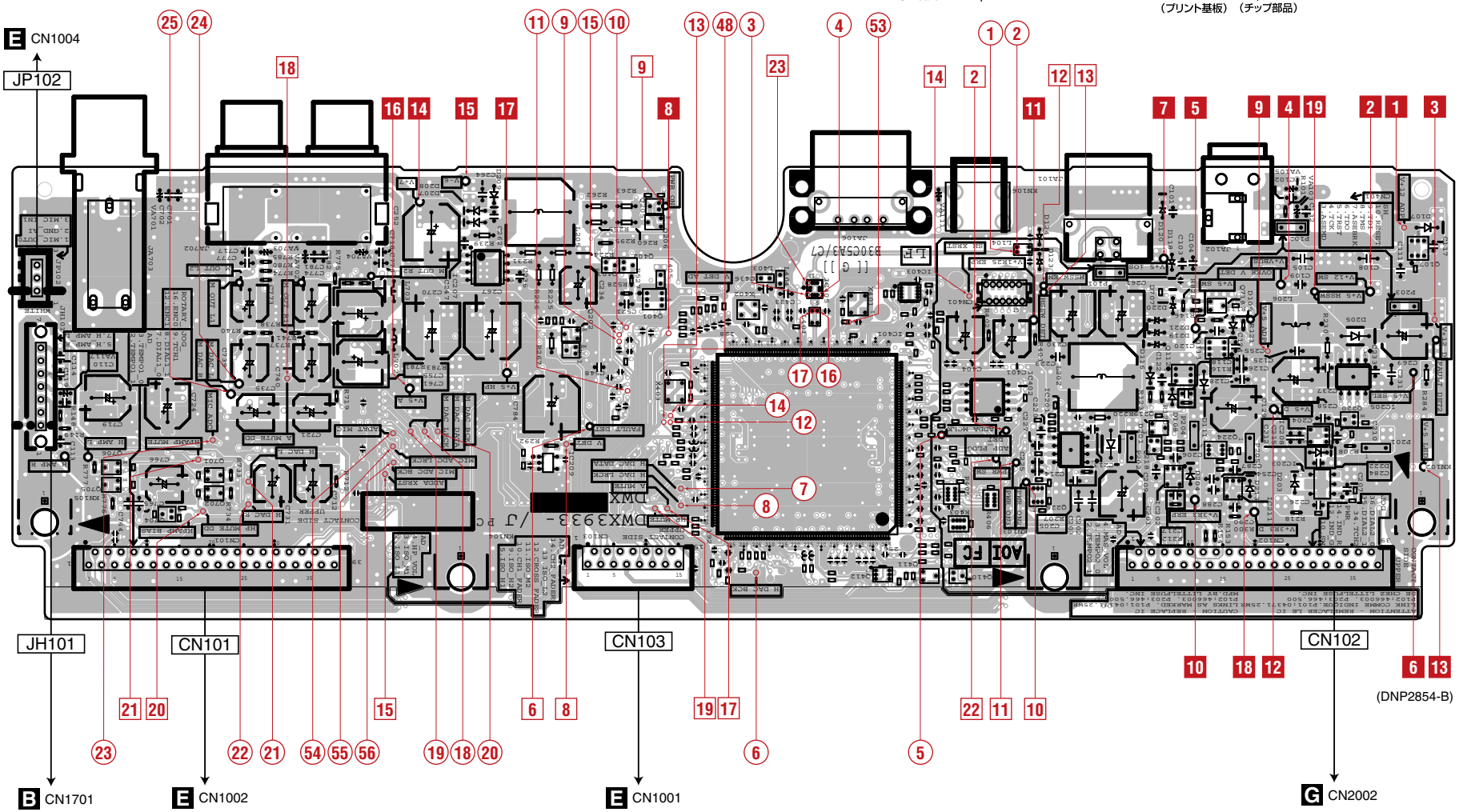
1.このPCB図にマウントしている部品は複数の仕向地の部品を含んでいます。
各仕向地の情報は、回路図で確認するようにしてください。

2.PCB図の見かた



SIDE A

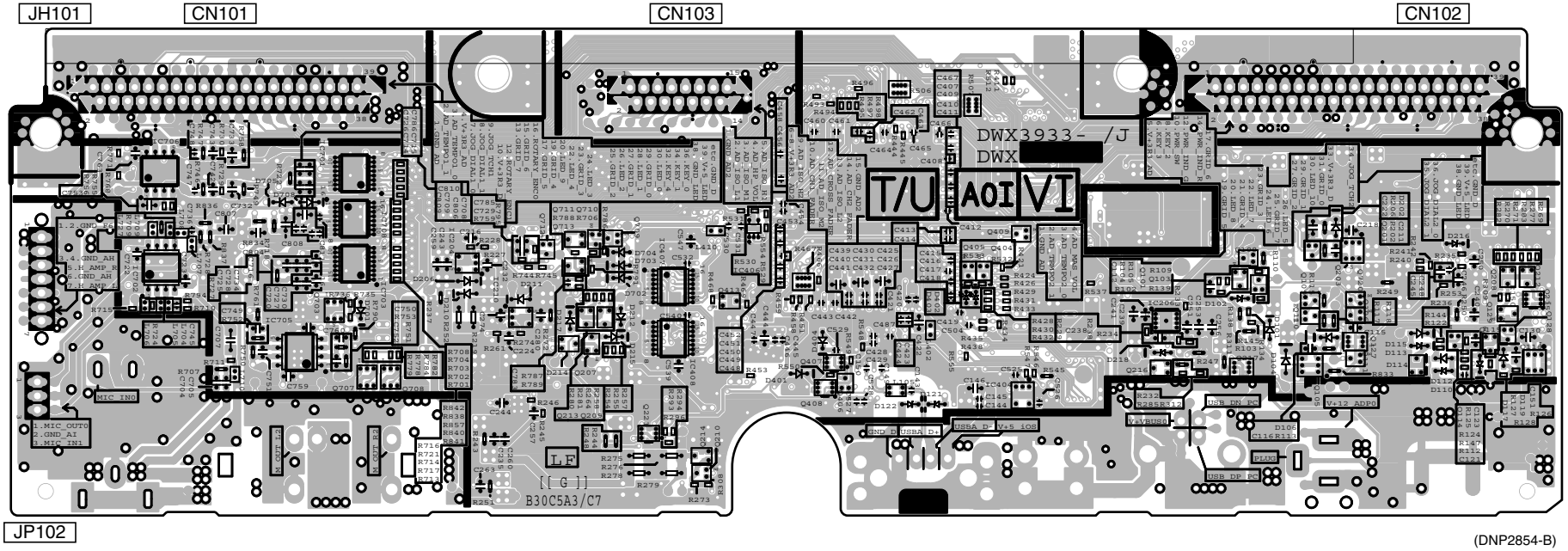
AF MAIN ASSY



SIDE B

SIDE B

AF MAIN ASSY



(DNP2854-B)

AF

AF

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	DWX3933
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).

AF MAIN ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
⚠	IC	201,205	BD9328EFJ
⚠	IC	202,208,211	MM3411A33N
⚠	IC	203	S-1172B1C-U5
⚠	IC	204,210	MM1856A50N
⚠	IC	206	TPS2557DRB
⚠	IC	207	NJM2392M
	IC	209	S-80942CNMC-G9C
NSP	IC	401	R5S72690RW266FP
	IC	402	DYW1961
	IC	403	H337S3959
	IC	404	S-80927CNMC-G8X
	IC	405	TS3USB30RSW
	IC	407,408	74VHC4051AFT
	IC	701,703	AK4387ET
	IC	702	NJM4565MD
	IC	705	NJM4580MD
	IC	706	BH3547F
	IC	708	AK5358AET
	Q	101,115,202,206	LSCR523UB
	Q	103,402,410,709	LTA024EEB
⚠	Q	105,112,113,203	RTQ040P02
⚠	Q	107,116	RSQ035P03
	Q	108,111,114,128	LTC024EEB
	Q	127,224,225	RN1903S1
	Q	201,205,211,218	LTC024EEB
	Q	207,209,213,713	LSAR523UB
	Q	216,219,411,705	LSCR523UB
⚠	Q	401	RTQ045N03
	Q	403,406,409,704	LTC024EEB
	Q	407,408,412	RN4983S1
	Q	413	LTC124EUB
	Q	706,711	LSCR523UB
	Q	707,708	IMX9
	Q	710,720	LTC024EEB
	Q	712	LTA024EEB
	D	101,203,206,210	RB551VM-30
	D	104,111	RB060M-30
	D	106,108,112,115	DA2J101
⚠	D	107	RB060M-30
	D	110	DZ2J150M0
	D	113,218	DZ2J051M0
	D	114,214	DAN202UM
	D	119,202,212,215	DA2J101
	D	123,124	DZ2J062M0
⚠	D	207-209	RB551VM-30
	D	216	DZ2J075M0
	D	217,401,404,702	DA2J101
	D	219-221	DZ2J056M0
	D	222,705,708	RB551VM-30
	D	704	DA2J101

Mark	No.	Description	Part No.
		MISCELLANEOUS	
	L	104,105 COIL	ATH7015
	L	202 INDUCTOR	CTH1253
	L	205 POWER INDUCTOR	ATH7053
	L	206 COIL	CTH1475
	L	402-405 INDUCTOR	CTF1793
	L	406-409 INDUCTOR	CTF1545
	L	704-709,727 INDUCTOR	CTF1778
	L	710 INDUCTOR	CTF1786
	JA	101 USB CONNECTOR	DKN1237
	JA	102 DC POWER JACK	DKN1649
	JA	106 USB JACK	DKB1118
	JA	702 PIN JACK(2P)	AKB7181
	JA	703 6.5 DIA JACK	DKN1653
	KN	106 SCREW PLATE	VNE1948
	KN	107 HOLDER	DNH3290
	X	401 CRYSTAL RESONATOR	CSS1840
	X	402 RESONATOR	CSS1760
	X	403 CRYSTAL(24.576MHZ)	DSS1204
	CN	101,102 39P CONNECTOR	VKN2098
	CN	103 15P CONNECTOR	VKN1275
	JH	101 7P CABLE HOLDER	51048-0700
	JP	101 JUMPER WIRE	D20PDY0720E
	JP	102 BOARD IN JUMPER/3P	DKP3957
⚠	P	101 PROTECTOR(1.250A)	DEK1123
⚠	P	102 PROTECTOR(3.000A)	DEK1103
⚠	P	203 PROTECTOR(0.500A)	DEK1095
	VA	103,701,702 VARISTORS	EZJZ1V270RM
		RESISTORS	
	R	101,110	RS1/10SR101J
	R	103,138	RS1/10SR1801D
	R	113,116,119,202	RS1/10SR103J
	R	120,737,738,774	RS1/10SR473J
	R	121,206,528	RS1/10SR104J
	R	134,145	RS1/16SS2702D
	R	148,153,154,208	RS1/10SR0R0J
	R	207,250	RS1/10SR220J
	R	218,248,401,402	RS1/10SR0R0J
	R	219,252	RS1/4SA100J
	R	221	RS1/16SS8200D
	R	222	RS1/16SS4702D
	R	223,242	RS1/16SS1002D
	R	224,226	RS1/4SA1R5J
	R	231	RS1/4SA271J
	R	232	RS1/10SR221J
	R	234	RS1/16SS4302D
	R	238	RS1/16SS1201D
	R	240	RS1/16SS7501D
	R	241	RS1/16SS3902D
	R	243,527,776,777	RS1/10SR102J
	R	245	RS1/16SS1802F
	R	246	RS1/16SS3901D
	R	247,833	RS1/10SR472J
	R	251	RS1/10SR103J
	R	259,267	RS1/4SA0R0J
	R	260	RS1/4SA471J
	R	292	RS1/8SQ0R0J
	R	304	RS1/16SS39R0D
	R	403,405,507	RAB4CQ560J

Mark	No.	Description	Part No.
	R	450	RS1/16SS5601D
	R	451	RS1/16SS2402D
	R	467	RAB4CQ472J
	R	506	RAB4CQ221J
	R	545,761,790	RS1/10SR0R0J
	R	707	RS1/10SR1501D
	R	709	RS1/10SR6802D
	R	710	RS1/16SS1801D
	R	711,794	RS1/16SS3301D
	R	722,727	RS1/10SR100J
	R	724	RS1/16SS9101D
	R	728,837	RS1/10SR7500D
	R	740,741	RS1/10SR4701D
	R	746,747	RS1/10SR271J
	R	750,751	RS1/10SR1002D
	R	752,753	RS1/10SR3301D
	R	775	RS1/10SR473J
	R	780,781,783,785	RS1/10SR331J
	R	836	RS1/10SR1001D
	Other Resistors		RS1/16SS###J
		CAPACITORS	
	C	102,116,216,220	CKSRYB103K50
	C	104,128,204,229	DCH1201
	C	106,107	CCSSCH470J50
	C	109	CKSRYB474K16
	C	111	CKSQYB474K25
	C	117,701,781	CKSRYB104K50
	C	118,122,124,126	CKSRYB104K16
	C	120,130,254,521	CKSQYB105K25
	C	125	CKSRYB102K50
	C	129,201,230,261	CCH1565
	C	144,148,152-157	CKSSYB102K50
	C	145,242,249,285	CKSSYB104K10
	C	151	CKSQYB104K25
	C	202,203,231	CCG1221
	C	205,213,214,218	CKSRYB104K16
	C	206,210,211,215	CKSRYB105K10
	C	209	CKSQYB105K10
	C	217,226,232,243	CKSRYB105K10
	C	233,235,236,240	CKSRYB104K16
	C	234,712,721,731	CEVW470M6R3
	C	239,253,255,256	DCH1201
	C	241,714,716,720	CKSRYB104K16
	C	244	CCSRCH121J50
	C	245,250,727,728	CKSRYB103K50
	C	252,267,270	CEVW471M10
	C	257	CCSRCH221J50
	C	258,719,724	CEVW101M16
	C	262,274,280,284	CKSRYB105K10
	C	264,422,425,430	DCH1201
	C	269	CEVW470M16
	C	286,745	CCSSCH221J50
	C	287,290,729,742	CKSRYB105K10
	C	401,404	CEHVW470M6R3
	C	407-421,442,443	CKSSYB103K16
	C	423,426,429,431	CKSSYB104K10
	C	424,427,428,432	CKSSYB102K50
	C	433,436,439,444	DCH1201
	C	434,437,440,445	CKSSYB104K10

Mark	No.	Description	Part No.
	C	435,438,441,446	CKSSYB102K50
	C	448-467,487,491	CKSSYB103K16
	C	468-481,483-486	CCSSCH101J50
	C	482,496,513,514	CKSSYB471K50
	C	492,500,501,504	CKSSYB103K16
	C	493-495,522,523	CKSSYB104K10
	C	497-499,502,503	CCSSCH101J50
	C	505-512	CCSSCH101J50
	C	515-517,519,520	CCSSCH120J50
	C	518	CCSSCH100D50
	C	524,526	CKSSYB222K50
	C	525,527,532,540	CKSSYB104K10
	C	528,529,533-538	CKSSYB102K50
	C	541-546,708,709	CKSSYB102K50
	C	702,715,730,734	CCSRCH102J50
	C	704,749,750	CCSRCH471J50
	C	705	CKSRYB332K50
	C	706,710,747,748	CKSSYB103K16
	C	707	ACG1147
	C	717,718	CCSRCH222J50
	C	722,723,725,726	CKSRYB104K16
	C	732,733,765,804	DCH1201
	C	735,766	CEVW470M6R3
	C	739,740,773,774	CEVW220M16
	C	743,785	CKSRYB105K10
	C	751,752	CCSRCH101J50
	C	753	CKSQYB475K6R3
	C	755,761	DCH1156
	C	782,786	CCSRCH102J50
	C	783,814	CKSSYB103K16
	C	784	CEVW331M6R3
	C	806,809,811	CKSSYB104K10
	C	807	DCH1263
	C	808,810	DCH1201