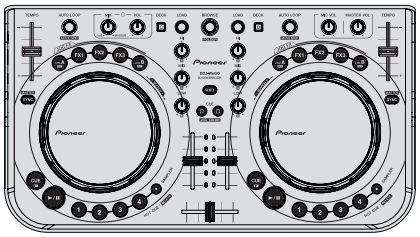
Pioneer

Service Manual



DDJ-WEGO-K

ORDER NO.
RRV4381

DJ CONTROLLER

DDJ-WEGO-K

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

Model	Type	Power Requirement	Remarks
DDJ-WEGO-K	XE5	DC 5 V (USB-bus power only)	
	XECN5		
DDJ-WEGO-W	XE5		
	XECN5		
DDJ-WEGO-V	XE5		
DDJ-WEGO-G	XE5		
DDJ-WEGO-R	XE5		
	XECN5		

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ⓒPIONEER CORPORATION 2012

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SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.
Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

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

Health & Safety Code Section 25249.6 - Proposition 65

CONTENTS

SAFETY INFORMATION 2
1. SERVICE PRECAUTIONS 4
1.1 NOTES ON SOLDERING 4
1.2 SERVICE NOTICE 4
2. SPECIFICATIONS 5
3. BASIC ITEMS FOR SERVICE 6
3.1 CHECK POINTS AFTER SERVICING 6
3.2 JIGS LIST 6
3.3 PCB LOCATIONS 7
4. BLOCK DIAGRAM 8
4.1 OVERALL WIRING DIAGRAM 8
4.2 OVERALL BLOCK DIAGRAM 10
5. DIAGNOSIS 12
5.1 BOOT SEQUENCE 12
5.2 TROUBLESHOOTING 13
5.3 OPERATION CHECK WITH VIRTUAL DJ 15
6. SERVICE MODE 17
6.1 FIRMWARE VERSION (MAIN UCOM) and LAST MEMORY CONFIRMATION MODE 18
6.2 BUTTON INPUT and DISPLAY FUNCTION CONFIRMATION MODE 20
6.3 JOG DIAL ROTATION TIME MEASUREMENT MODE 23
6.4 FACTORY RESET MODE 24
6.5 VOLUME VALUE FLUCTUATION CONFIRMATION MODE 25
7. DISASSEMBLY 27
8. EACH SETTING AND ADJUSTMENT 31
8.1 NECESSARY ITEMS TO BE NOTED 31
8.2 UPDATING OF THE FIRMWARE 31
8.3 ITEMS FOR WHICH USER SETTINGS ARE AVAILABLE 32
9. EXPLODED VIEWS AND PARTS LIST 34
9.1 PACKING SECTION 34
9.2 EXTERIOR SECTION 36
10. SCHEMATIC DIAGRAM 38
10.1 CONTROL PCB ASSY 38
10.2 IO and MASTER PCB ASSYS 40
10.3 WHELL (R) and (L) PCB ASSYS 42
10.4 WAVEFORMS 44
11. PCB CONNECTION DIAGRAM 48
11.1 CONTROL PCB ASSY 48
11.2 IO PCB ASSY 52
11.3 MASTER PCB ASSY 54
11.4 WHELL (R) PCB ASSY 55
11.5 WHEEL (L) PCB ASSY 56
12. PCB PARTS LIST 57

1. SERVICE PRECAUTIONS

1.1 NOTES ON SOLDERING

- For environmental protection, lead-free solder is used on the printed circuit boards mounted in this unit.
  Be sure to use lead-free solder and a soldering iron that can meet specifications for use with lead-free solders for repairs accompanied by reworking of soldering.

- Compared with conventional eutectic solders, lead-free solders have higher melting points, by approximately 40 ºC.
  Therefore, for lead-free soldering, the tip temperature of a soldering iron must be set to around 373 ºC in general, although the temperature depends on the heat capacity of the PC board on which reworking is required and the weight of the tip of the soldering iron.

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

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

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

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

1.2 SERVICE NOTICE

On Point-of-Sale Demo Mode

This product is provided with a Demo mode to be used when displayed on a stand in a shop.
Regardless of whether the DJ application (Virtual DJ LE) is running on the PC or not, if no operation is performed on this unit within 10 minutes, or press the DECK C/D button while pressing the SHIFT button, Demonstration mode with lighting of the LEDs on the JOG dial is automatically entered.
To return to the normal operation mode, operate any button other than the SHIFT or DECK C/D buttons or JOG dial or operate any control of this unit.

2. SPECIFICATIONS

General – Main Unit

Power supply ..... DC 5 V
Power consumption ..... 500 mA
Main unit weight ..... 1.6 kg (3.5 lb)
Max. dimensions ..... 380 mm (W) × 65 mm (H) × 208.5 mm (D)
(14.96 in. (W) × 2.56 in. (H) × 8.21 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 ..... +13 dBu
Total harmonic distortion
MASTER OUT ..... 0.006 %
Frequency characteristic
MASTER OUT ..... 20 Hz to 20 kHz
S/N ratio (when playing on computer)
MASTER OUT ..... 101 dB (at rated output)
Input impedance
MIC ..... 10 kΩ
Output impedance
MASTER OUT ..... 1 kΩ
PHONES ..... 4.7 Ω
USB AUDIO ..... 24 bit/Fs : 44.1 kHz

Input / Output terminals

USB terminal
B type ..... 1 set
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

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

3. BASIC ITEMS FOR SERVICE
3.1 CHECK POINTS AFTER SERVICING

Items to be checked after servicing

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

No.	Procedures	Check points
1	Confirm that the customer complaint has been resolved. If the problem pointed out by the customer occurs with a specific source or operation, such as PC input, AUX/MIC input, Fader, or 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.
2	Confirmation of operation of operating elements Enter Service mode.	There must be no errors in operations of each button, Rotary selector, Volume, Fader, Slider and JOG.
3	Check the analog audio output. Connect this unit with a PC with the DJ application (Virtual DJ LE) installed, via USB, then operate the DJ application (Virtual DJ LE).	There must be no errors, such as noise, in audio signals and operations of the MASTER/HEADPHONES outputs.
4	Check the analog audio input. Input an audio signal via AUX/MIC.	Audio and operations must be normal.
5	Check the appearance of the product.	No scratches or dirt on its appearance after receiving it for service.

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

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

3.2 JIGS LIST

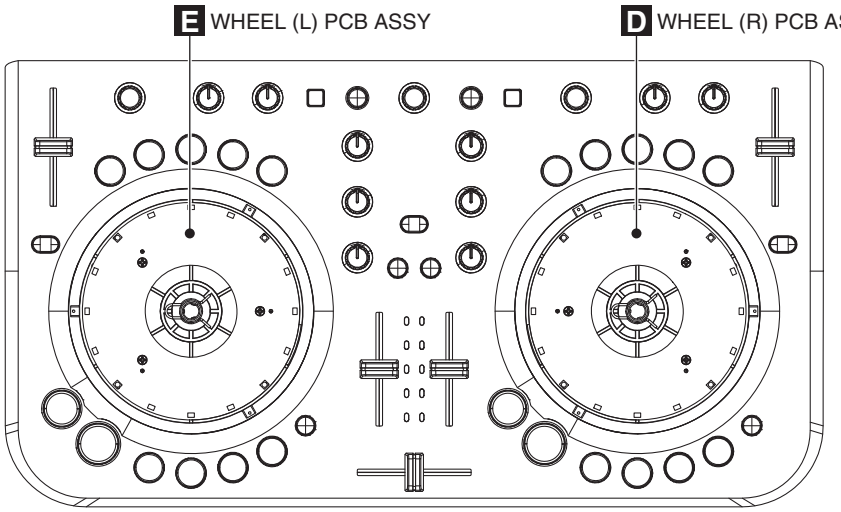
■ Jigs List

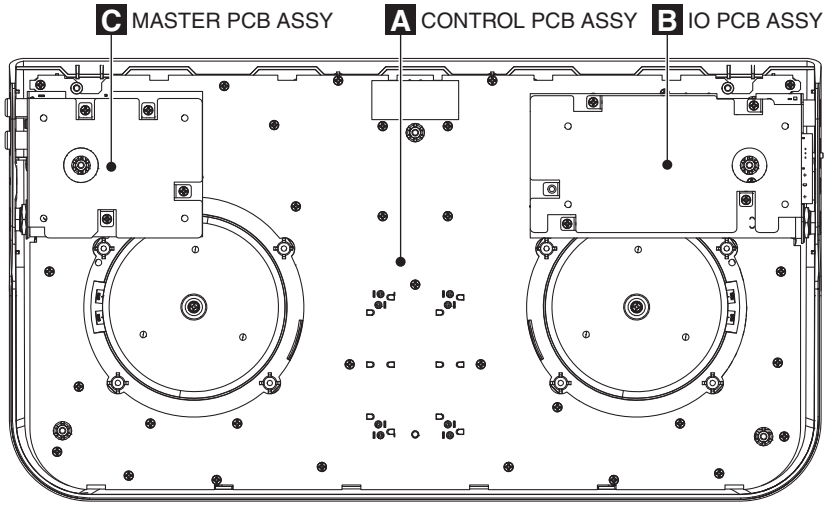
Jig Name	Part No.	Purpose of use / Remarks
USB cable	GGP1193	for PC connection

■ Lubricants and Glues List

Name	Part No.	Remarks
Grease	PS-70	Refer to “7. DISASSEMBLY”. DAIZO NICHIMOLY NEW-SL PS-70
Adhesive	GYL1001	Refer to “7. DISASSEMBLY”.
Adhesive	GYL1005	Refer to “7. DISASSEMBLY”.

3.3 PCB LOCATIONS





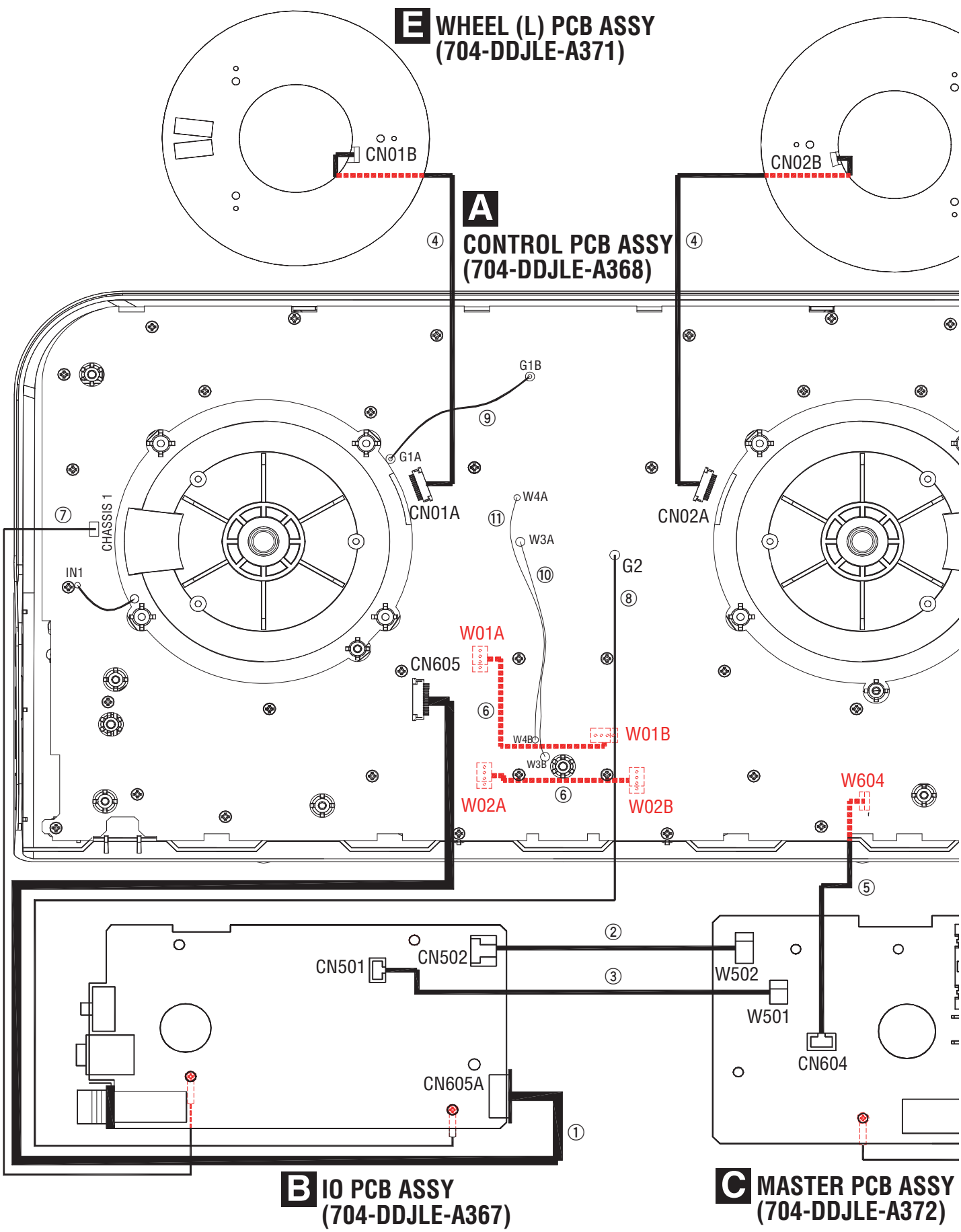
• Bottom view

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

Mark	No.	Description	Part No.
LIST OF ASSEMBLIES			
	1	CONTROL PCB ASSY	704-DDJLE-A368
	1	IO PCB ASSY	704-DDJLE-A367
	1	MASTER PCB ASSY	704-DDJLE-A372
	1	WHEEL (R) PCB ASSY	704-DDJLE-A370
	1	WHEEL (L) PCB ASSY	704-DDJLE-A371

4. BLOCK DIAGRAM

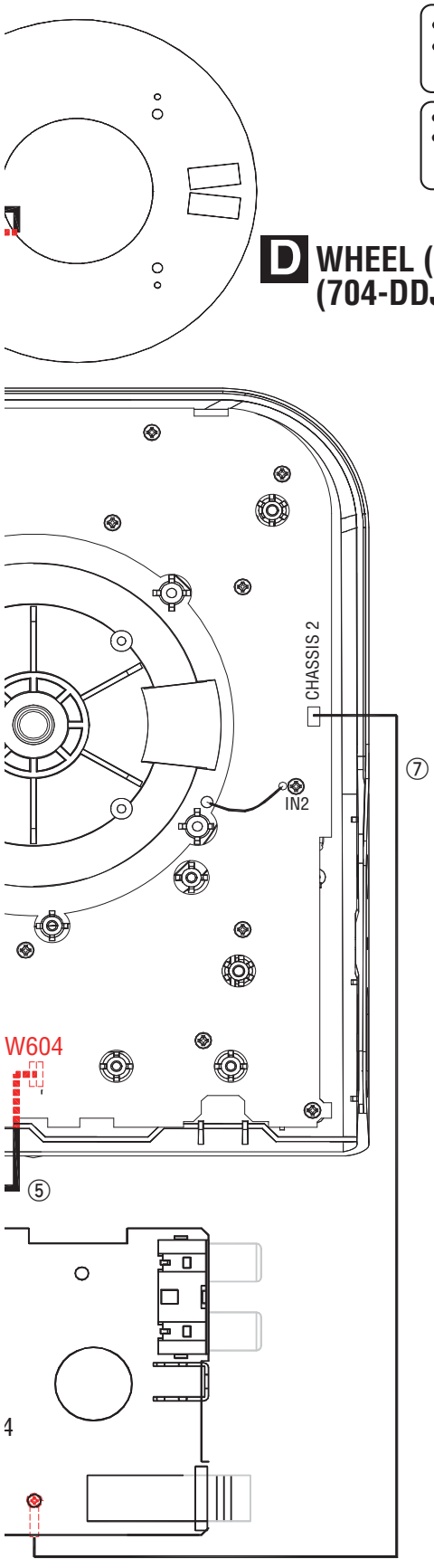
4.1 OVERALL WIRING DIAGRAM



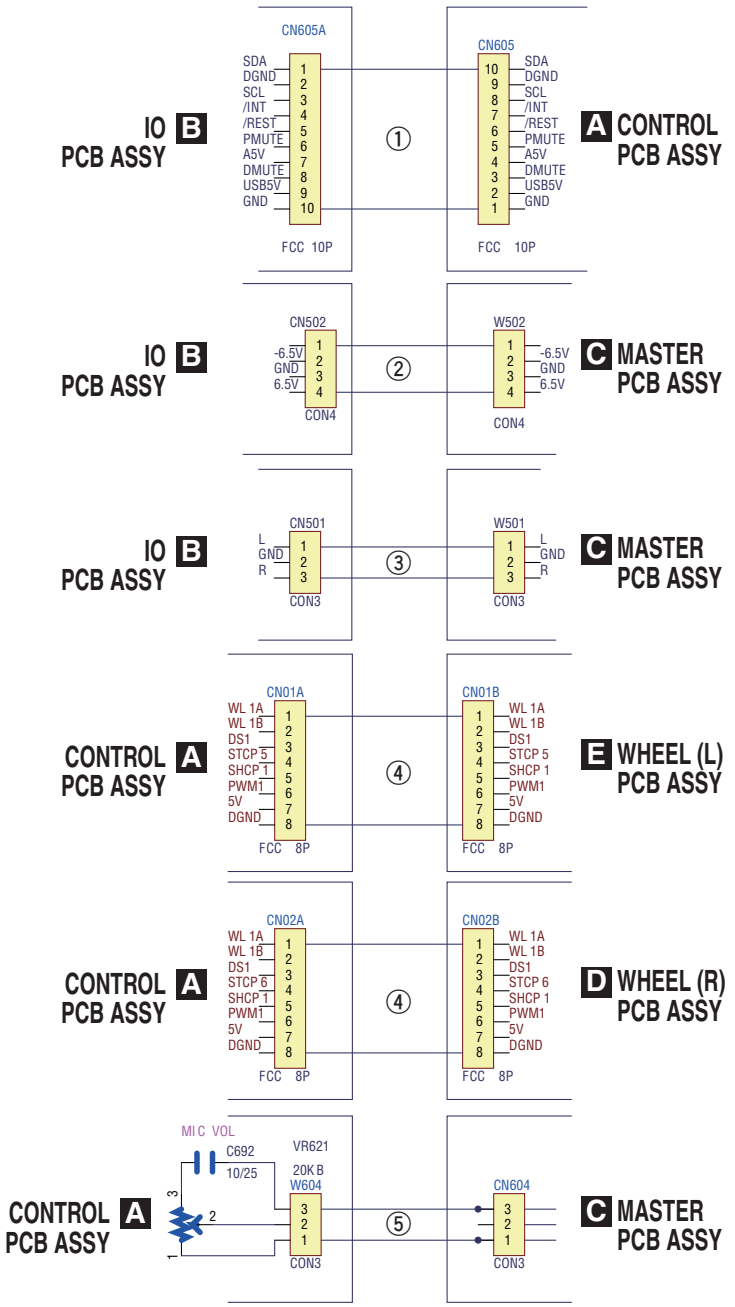
- 部品を発注する場合は、必ず「分解図と部品表」または「電気部品表」を参照してください。
- ⚠ 印の部品は、安全上重要な部品です。
  交換するときは、安全および性能維持のため必ず指定の部品をご使用ください。

- 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.

D WHEEL (R) PCB ASSY (704-DDJLE-A370)

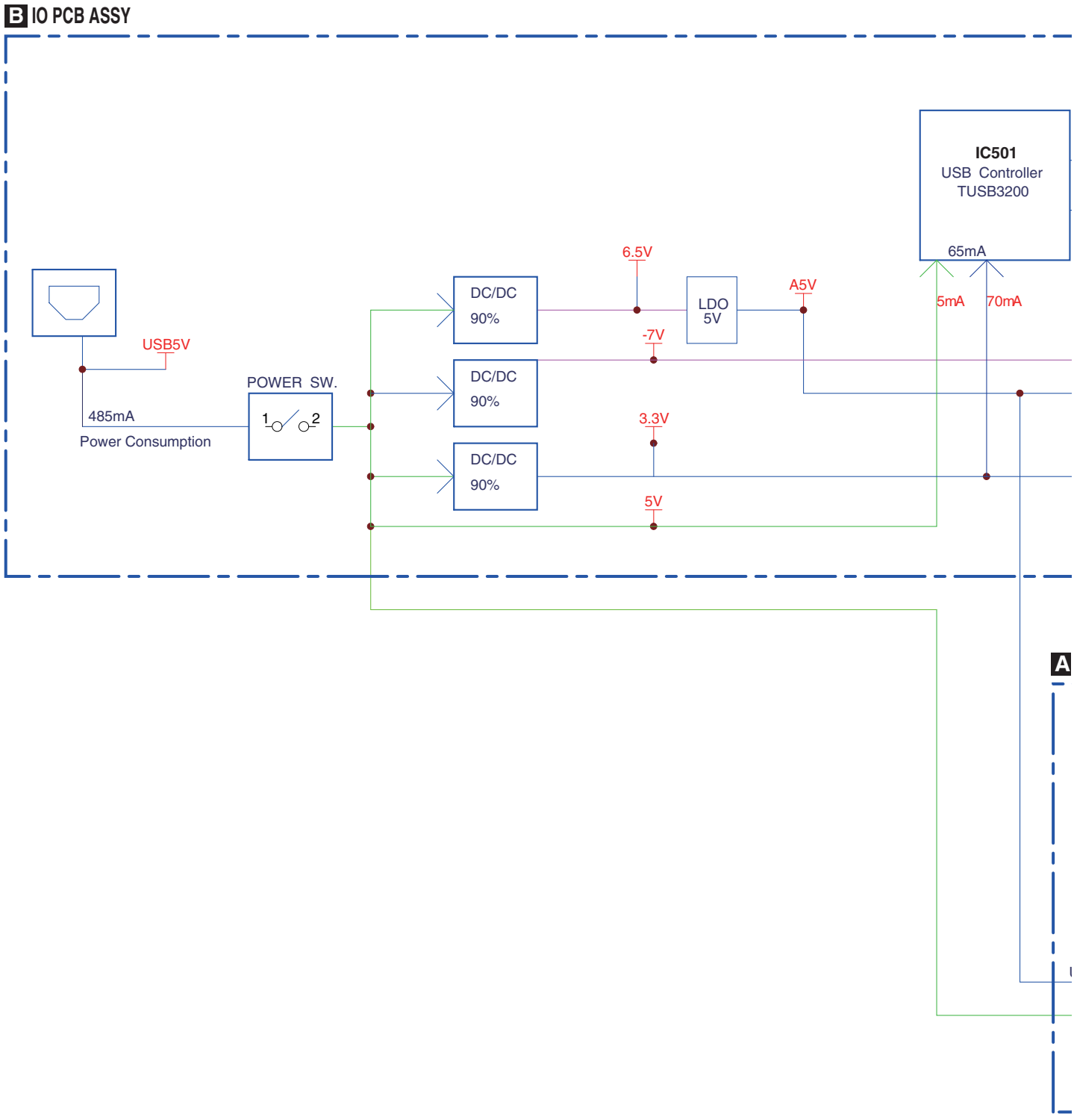


PCB ASSY JLE-A372)

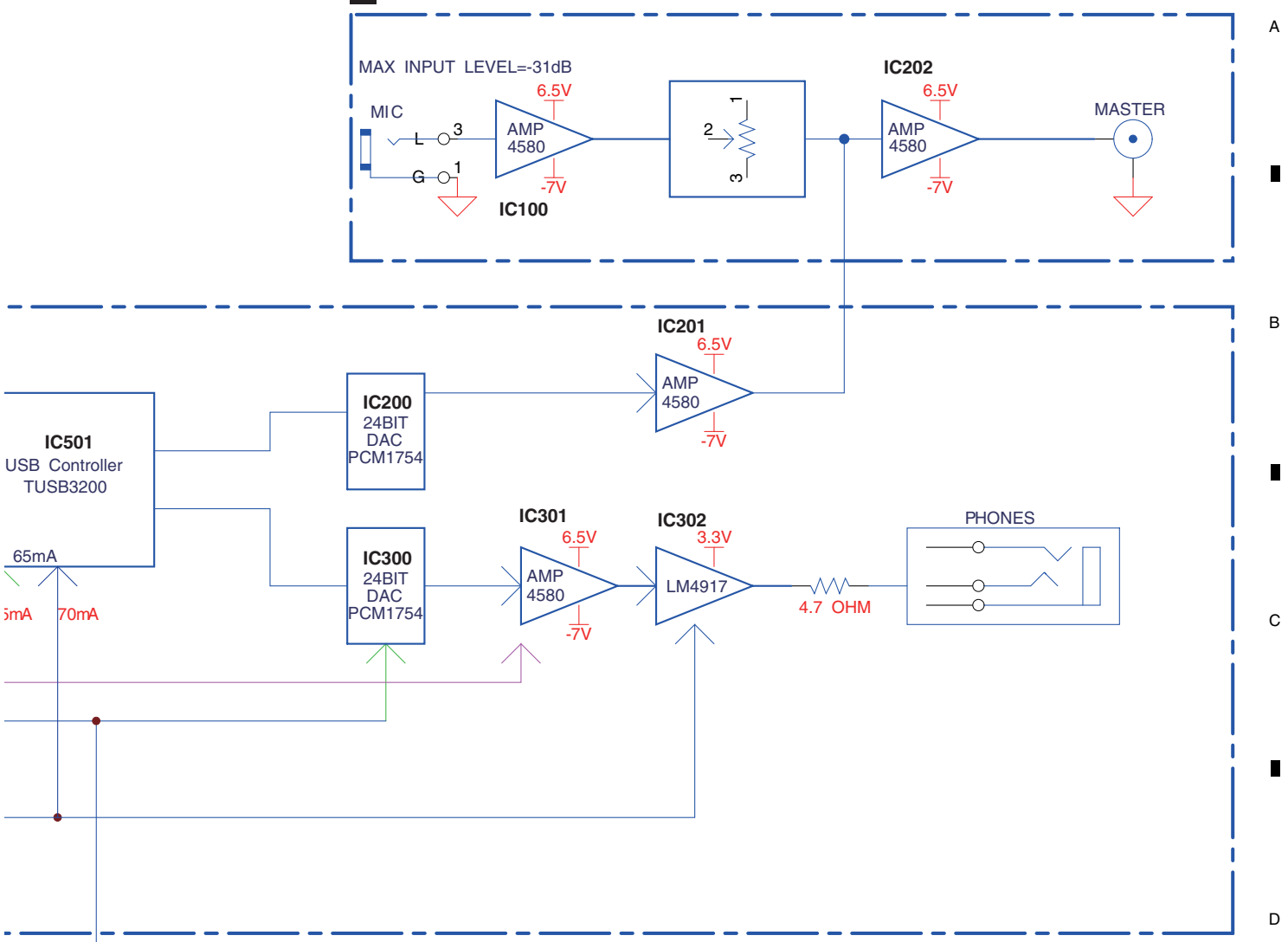


No.	Ref No.	Description	Part No.
①		10P FFC	406-SP2U-1067V
②	W502	CONNECTOR WIRE	404-DDJLE-3720
③	W501	CONNECTOR WIRE	404-DDJLE-3719
④		FFC 8P FFC CABLE	406-DDJLE-1226
⑤	W604	WIRE HARNESS	404-DDJLE-3772
⑥	W 01A to 01B,	02A to 02B WIRE HARNESS	404-DDJLE-3721
⑦	CHASSIS 1/2	WIRE	406-DDJLE-1229
⑧	G2	WIRE	406-DDJLE-1230
⑨	G 1A to 1B	WIRE	406-MX200-1110
⑩	W 3A to 3B	WIRE	406-DDJLE-1237
⑪	W 4A to 4B	WIRE	406-H464-020

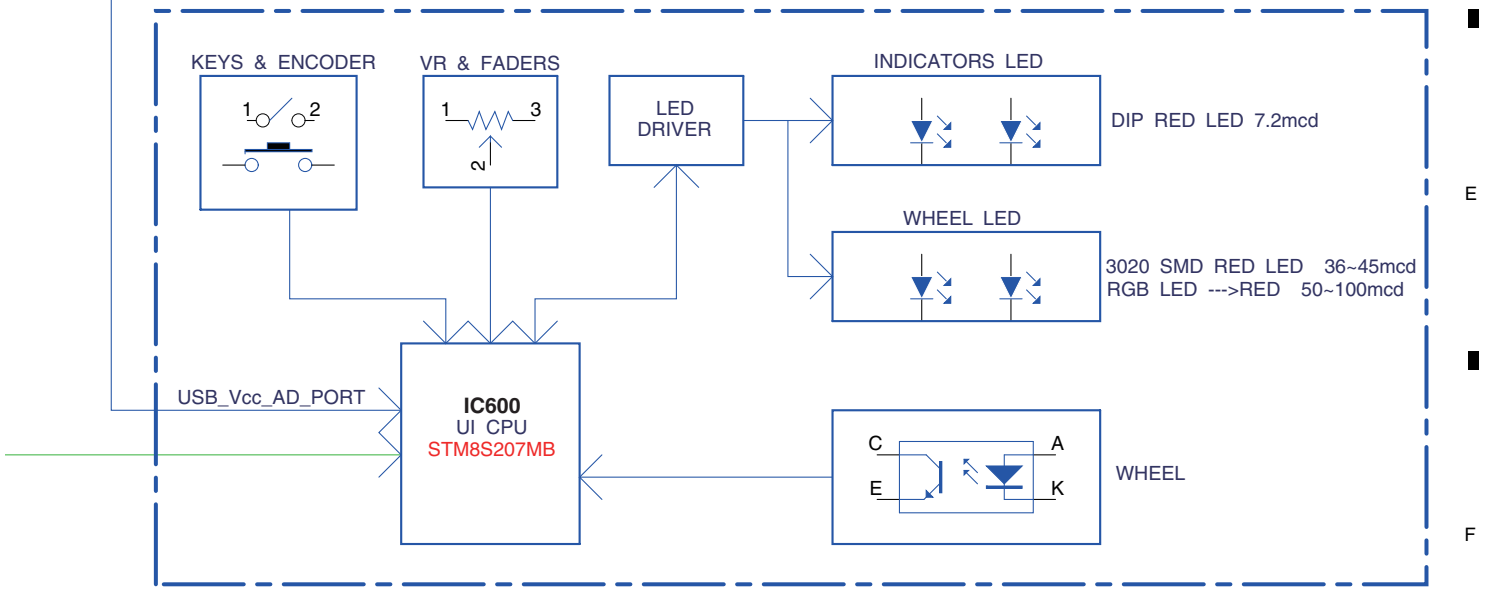
4.2 OVERALL BLOCK DIAGRAM



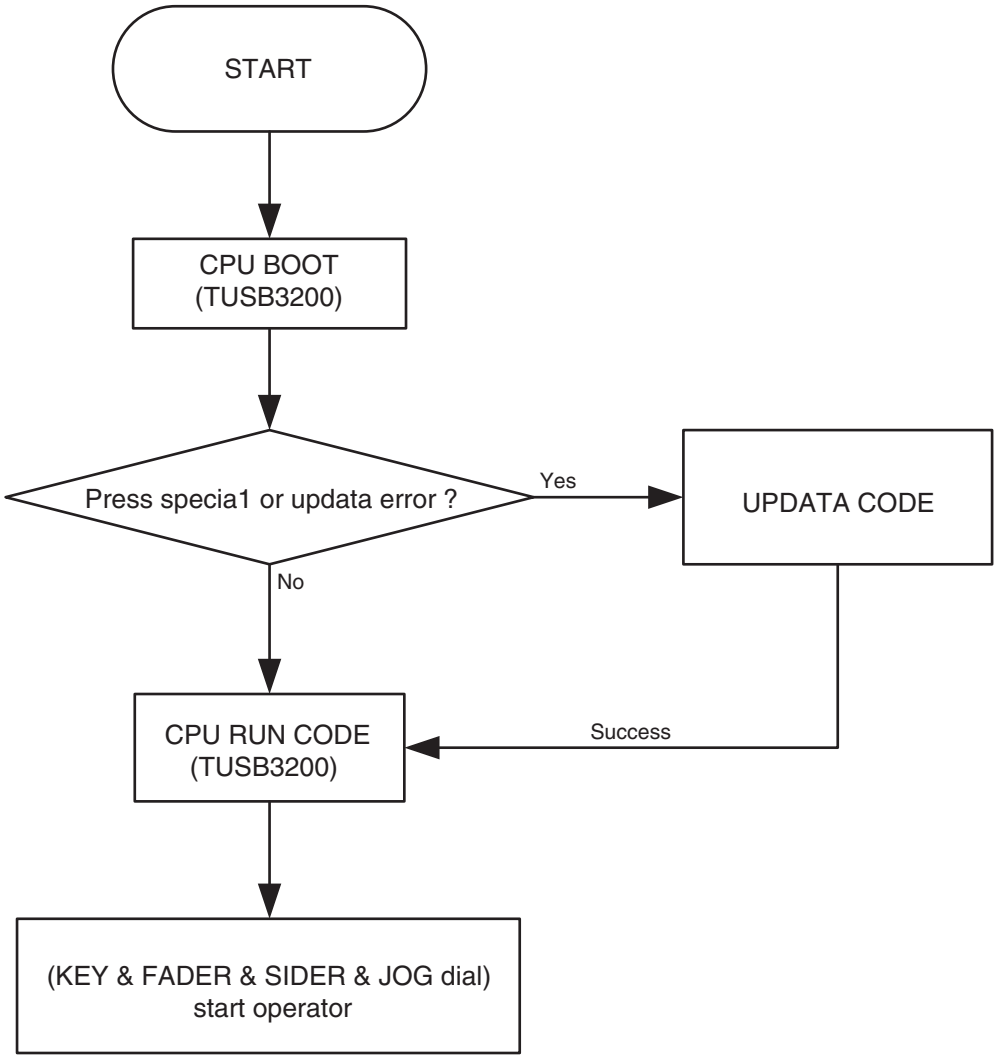
C MASTER PCB ASSY



A CONTROL PCB ASSY



5. DIAGNOSIS
5.1 BOOT SEQUENCE



5.2 TROUBLESHOOTING

[1] Power failure

CHECK Power Line

Step 1: JK501 Pin 1_5 V (waveform 1-1), CN502 Pin 4_6.5 V (waveform 1-2), CN502 Pin 2_-6.5 V (waveform 1-3), C17 + side_3.3 V (waveform 1-4)

[2] No sound input/output from USB

CHECK Digital Audio Signal Line

Step 1: IC501 Pin 44_MCLKO (SCK)(waveform 2-1), IC501 Pin 38 CDATI (SDO2)(waveform 2-2), IC501 Pin 36 CDATO (SDO1)(waveform 2-3), IC501 Pin 35 CSYNC (LRCK)(waveform 2-4), IC501 Pin 34 CSCLK (BCK)(waveform 2-5)

Step 2: IC200 Pin 1 BCK (waveform 2-6), IC200 Pin 2 SDO1 (waveform 2-7), IC200 Pin 3 LRCK (waveform 2-8), IC200 Pin 16 SCK (waveform 2-9)

Step 3: IC300 Pin 16 SCK (waveform 2-10), IC300 Pin 1 BCK (waveform 2-11), IC300 Pin 2 SDO1 (waveform 2-12), IC300 Pin 3 LRCK (waveform 2-13)

[3] No sound input from MIC

CHECK Analog Audio Signal Line

Step 1: JK101 INPUT (waveform 3-1)

Step 2: MASTER OUT (waveform 3-2)

CHECK Power Line

Step 3: IC100/101/202 Pin 8_6.5 V (waveform 3-3), IC100/101/202 Pin 4_-6.5 V (waveform 3-4)

[4] No sound output from MASTER

CHECK Power Line

Step 1: IC201/202 Pin 8_6.5 V (waveform 4-1), IC201/202 Pin 4_-6.5 V (waveform 4-2)

CHECK Digital Audio Signal Line

Step 2: IC200 Pin 1 BCK (waveform 4-3), IC200 Pin 2 SDO1 (waveform 4-4), IC200 Pin 3 LRCK (waveform 4-5), IC200 Pin 16 SCK (waveform 4-6)

Step 3: IC200 Pin 13 MD (waveform 4-7), IC200 Pin 14 MC (waveform 4-8), IC200 Pin 15 ML1 (waveform 4-9)

CHECK Analog Audio Signal Line

Step 4: IC201 Pin 7/1 (waveform 4-10), IC202 Pin 7/1 (waveform 4-10)

[5] Noise sound output from MASTER

CHECK Power Line

Step 1: IC201/202 Pin 8_6.5 V (waveform 4-1), IC201/202 Pin 4_-6.5 V (waveform 4-2)

CHECK Digital Audio Signal Line

Step 2: IC200 Pin 1 BCK (waveform 5-1), IC200 Pin 2 SDO1 (waveform 5-2), IC200 Pin 3 LRCK (waveform 5-3), IC200 Pin 16 SCK (waveform 5-4)

Step 3: IC200 Pin 13 MD (waveform 5-5), IC200 Pin 14 MC (waveform 5-6), IC200 Pin 15 ML1 (waveform 5-7)

CHECK Analog Audio Signal Line

Step 4: IC201 Pin 7/1 (waveform 5-8), IC202 Pin 7/1 (waveform 5-8)

Step 5: CN501 Pin 1/3 (waveform 5-9)

[6] No sound output from PHONES

CHECK Power Line

Step 1: IC301 Pin 8_6.5 V (waveform 6-1), IC301 Pin 4_-6.5 V (waveform 6-2)
Step 2: IC302 Pin 2/9 3.3 V (waveform 6-3)

CHECK Digital Audio Signal Line

Step 3: IC300 Pin 1 BCK (waveform 6-4), IC300 Pin 2 SDO1 (waveform 6-5), IC300 Pin 3 LRCK (waveform 6-6), IC300 Pin 16 SCK (waveform 6-7)
Step 4: IC300 Pin 13 MD (waveform 6-8), IC300 Pin 14 MC (waveform 6-9), IC300 Pin 15 ML1 (waveform 6-10)

CHECK Analog Audio Signal Line

Step 5: IC302 Pin 8 (waveform 6-11)

[7] Noise sound output from PHONES

CHECK Power Line

Step 1: IC301 Pin 8_6.5 V (waveform 7-1), IC301 Pin 4_-6.5 V (waveform 7-2)
Step 2: IC302 Pin 2/9 3.3 V (waveform 7-3)

CHECK Digital Audio Signal Line

Step 3: IC300 Pin 1 BCK (waveform 7-4), IC300 Pin 2 SDO1 (waveform 7-5), IC300 Pin 3 LRCK (waveform 7-6), IC300 Pin 16 SCK (waveform 7-7)
Step 4: IC300 Pin 13 MD (waveform 7-8), IC300 Pin 14 MC (waveform 7-9), IC300 Pin 15 ML1 (waveform 7-10)

CHECK Analog Audio Signal Line

Step 5: IC302 Pin 8 (waveform 7-11)
Step 6: JK301/302 Connector (waveform 7-12)

[8] Channel level indicator doesn't light up

CHECK Power Line

Step 1: JK501 Pin 1_5 V (waveform 8-1), CN502 Pin 4_6.5 V (waveform 8-2), CN502 Pin 2_-6.5 V (waveform 8-3), C17 + side_3.3 V (waveform 8-4), IC607/608 Pin 16_5 V (waveform 8-5)

CHECK Digital Control Signal

Step 2: IC607/608 Pin 11 SHCP (waveform 8-6), IC607/608 Pin 12 SHCP (waveform 8-7), IC607/608 Pin 13 OE (waveform 8-8)

[9] Each operation knob doesn't work

CHECK Power Line

Step 1: VR Power Voltage 5 V (waveform 9-1)

CHECK Digital Control Signal

Step 2: IC600 Pin 68 SDA Waveform (waveform 9-2)

[10] Each operation doesn't linked with PC

CHECK Digital Control Signal

Step 1: POWER ON SDA Waveform (waveform 10-1)

5.3 OPERATION CHECK WITH VIRTUAL DJ

[Preparations]

Install VIRTUAL DJ LE (DJ software) on the PC. For details on installation, refer to the operation manual of the unit.
If the OS of the PC is Windows, the driver software for outputting audio from the PC must be installed beforehand.
The requirements of a PC on which VIRTUAL DJ LE can be installed are as shown below.

Minimum operating environment

Supported operating systems	CPU and required memory
Mac OS X 10.5.x	Intel® processor
	1 GB or more of RAM
Windows® XP Home Edition/ Professional (SP3 or later)	Intel® Pentium® 4 or AMD Athlon™ XP processor
	512 MB or more of RAM

Others	
Hard disk	Free space of 50 MB or greater
Optical drive	Optical disc drive on which the CD-ROM can be read
USB port	A USB 2.0 port is required to connect the computer with this unit.
Display resolution	Resolution of 1 024 x 768 or greater

Recomended operating environment

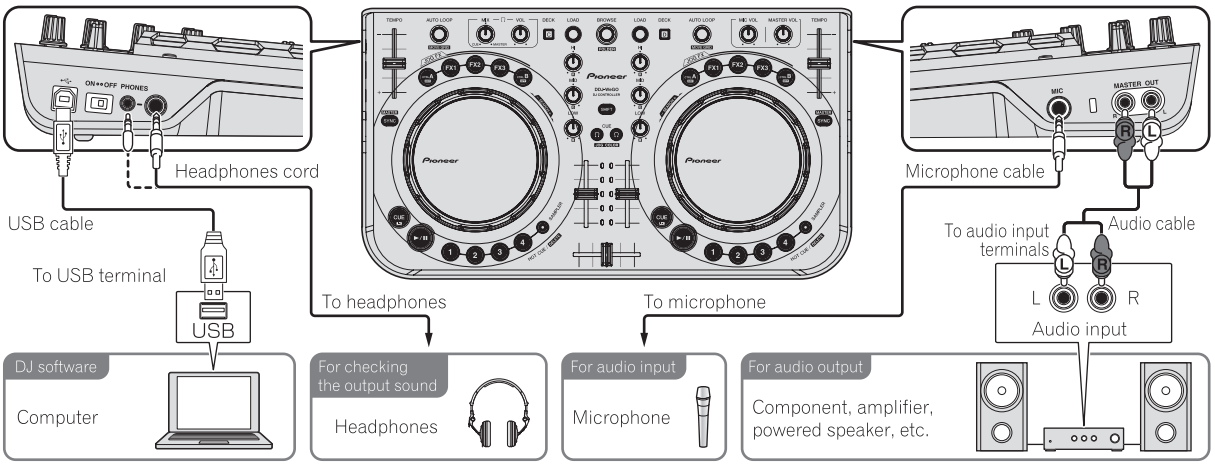
Supported operating systems		CPU and required memory
Mac OS X 10.6.x		Intel® processor
		2 GB or more of RAM
Windows® 7 Professional	32-bit version	Intel® Core™ 2 or AMD Athlon™ X2 processor
		1 GB or more of RAM

Others	
Hard disk	Free space of 200 MB or greater
Display resolution	Resolution of 1 280 x 1 024 or greater (Windows) Resolution of 1 440 x 900 or greater (Mac)

The conditions below must be satisfied in order to conduct video mixing.

- Mac
  - ATI™ or NVIDIA® video chipset with 256 MB of dedicated DDR3 RAM
  - Video card must support dual-screen output.
- Windows
  - ATI™ or NVIDIA® video card with 256 MB of dedicated DDR3 RAM
  - Video card must support dual-screen output.

[Connections]



etc.

[Startup of the System]

• Starting up the DDJ-WEGO

1. Connect this unit and a PC, using a USB cable.
2. Start up the connected PC.
3. Slide the ON/OFF switch of this unit to ON to turn it on.

• Starting up VIRTUAL DJ LE

(Windows)

1. From the Start menu of the Windows, select All Programs, VIRTUAL DJ LE, then VirtualDJ LE (DDJ-WeGO).
   When VIRTUAL DJ LE is started for the first time, the serial number input window will be displayed.
2. After the VIRTUAL DJ LE window is displayed, click on CONFIG located in the upper right portion of the window.
   The Settings window is displayed. Select the Sound Setup tab and set the following items in the order described below.
   ① [Inputs]: Select NONE.
   ② [Sound card]: Select ASIO DRIVER and Pioneer DDJ_WeGO ASIO.
   ③ [Outputs]: Select HEADPHONE and [Master: Chan 1&2/Headphones: Chan 3&4].
3. Click on Apply then OK.

(Macintosh)

1. With the Finder, open the Applications folder then double-click on the VIRTUAL DJ LE icon.
   (Enter the serial number in the same way as that for Windows.)
2. After the VIRTUAL DJ LE is displayed, click on CONFIG located in the upper left portion of the window.
   The Settings window is displayed. Select the Sound Setup tab and set the following items in the order described below.
   ① [Inputs]: Select NONE.
   ② [Sound card]: Select 4-OUT CARD and Pioneer DDJ_WeGO.
   ③ [Outputs]: Select HEADPHONE and [Master: Chan 1&2/Headphones: Chan 3&4].
3. Click on Apply then OK.

[Loading and Playing a Track (A part)]

1. While holding the SHIFT button pressed, turn the rotary selector to select a folder or an item.
2. After releasing the SHIFT button, turn the rotary selector to select a track.
3. Press the LOAD button to load the selected track onto the deck.
4. Play the track by pressing the ►/II button.

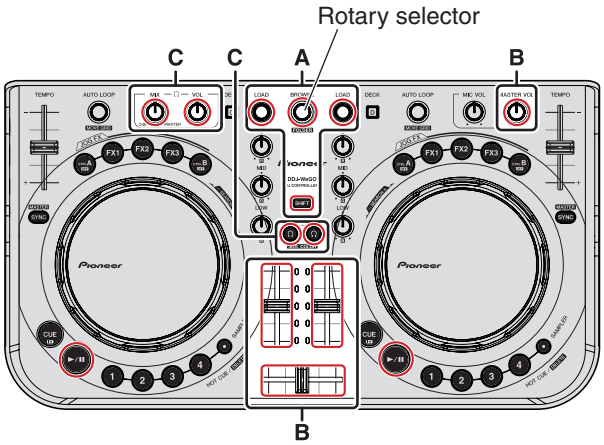
[Outputting Audio]

MASTER OUT OUTPUT (B part)

1. Adjust the level of the audio signal output from each deck, using the channel fader.
2. For switching the decks from which the audio signal is output, use the cross fader.
3. Adjust the audio level from the speakers, using the MASTER VOL control, in order to confirm that the audio signal is output without a problem.

Headphones OUTPUT (C part)

1. Connect the headphones to PHONES terminal.
2. Press the CUE (Headphones CUE) button of the deck which you want to monitor.
4. Adjust the audio level, using the HEADPHONE [VOL] control, in order to confirm that the audio signal is output without a problem.



DDJ-WEGO-K

6. SERVICE MODE

Description of Service Modes

The Following service modes are provided for this unit:

① **FIRMWARE VERSION (MAIN UCOM) and LAST MEMORY CONFIRMATION MODE**
The mode for confirmation of the firmware version, checking on a setting state of the illuminations mode and jog touch sensitivity.

② **BUTTON INPUT AND DISPLAY FUNCTION CONFIRMATION MODE**
The mode which confirms whether each button, input of the JOG dial and display are normal

③ **JOG DIAL ROTATION TIME MEASUREMENT MODE**
The mode which measures rotary decline time of the jog dial

④ **FACTORY RESET MODE**
The mode which returns the item where user setting is possible for the setting of the factory shipping state

⑤ **VOLUME VALUE FLUCTUATION CONFIRMATION MODE**
The mode which measures fluctuation of voltage (A/D conversion value) that you acquired from each fader and rotary volume

* These modes will not do TUSB communication.

6.1 FIRMWARE VERSION (MAIN UCOM) and LAST MEMORY CONFIRMATION MODE

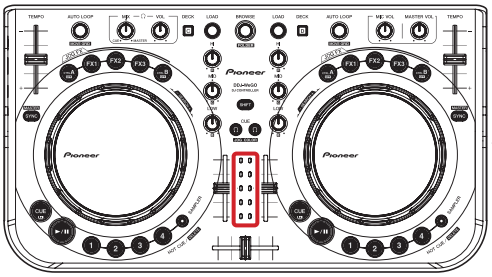
To enter this mode, while simultaneously holding the DECK C and DECK D buttons pressed, set the Power switch of the unit to ON. (Hold the two buttons pressed until the opening display terminates.)

The version number of the firmware (MAIN UCOM) will be indicated with LED-lighting patterns that are switched every 2 seconds in integral part and decimal fraction part. In the blocks that are indicated with the red frames in the figures, the number of lit LEDs indicates the corresponding number.

Confirming the Firmware Version

① Integral part of the version number
(LEDs on DECK C and D turn off)

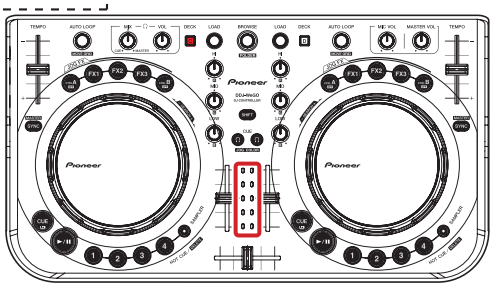
X.XX



2 sec

② The first place of decimal fraction part of the version number
(LED on DECK C lit)

X.XX

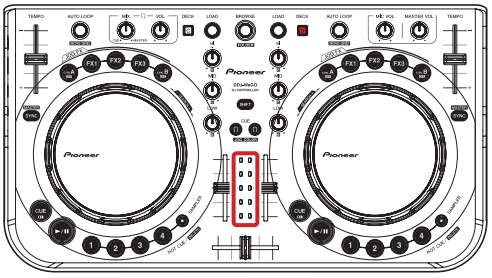


2 sec

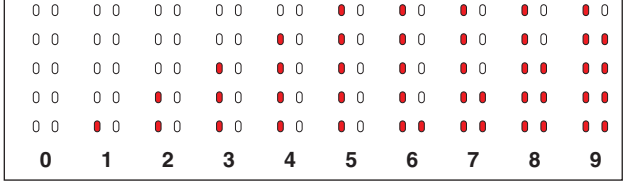
2 sec

③ The second place of decimal fraction part of the version number
(LED on DECK D lit)

X.XX

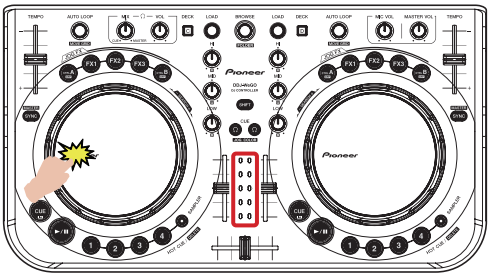


[Numerics expressed with the number of lit LEDs]



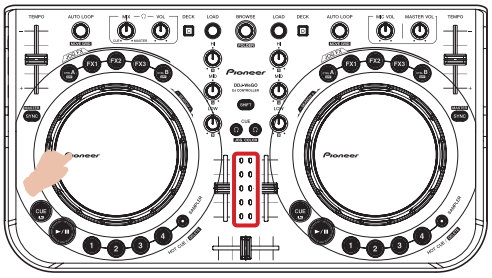
Confirming the transmission interval (do send to every any msec?) of sending MIDI IN for the jog dial turning memorised in FlashRom.

Left jog dial is pressed.



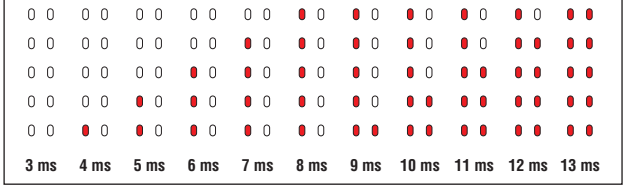
The version display ends.
The display of the MIDI transmission cycle of the jog dial starts.

Release your finger, jog dial Touch ends.



The display of the MIDI transmission cycle of the jog dial ends.
The version display starts.

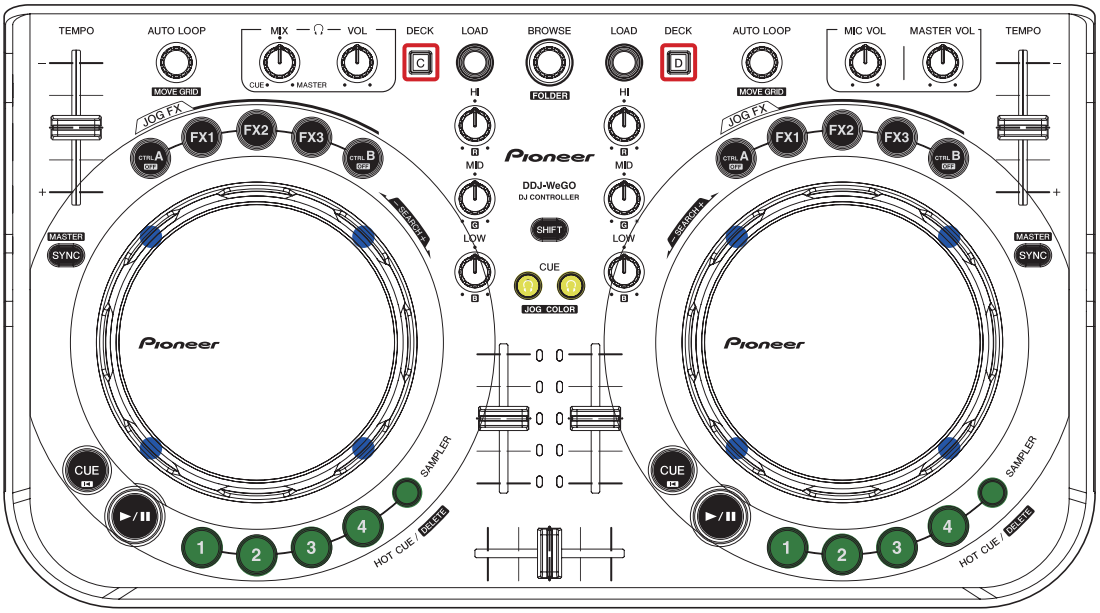
[Numerics expressed with the number of lit LEDs]



Confirmation of Last Memory

Apart from the firmware-version indication, the current settings of the user settable items (Color of the jog dial's illumination, Sensitivity of the jog dial's touch sensor, and Illuminations mode) are indicated with other LEDs.

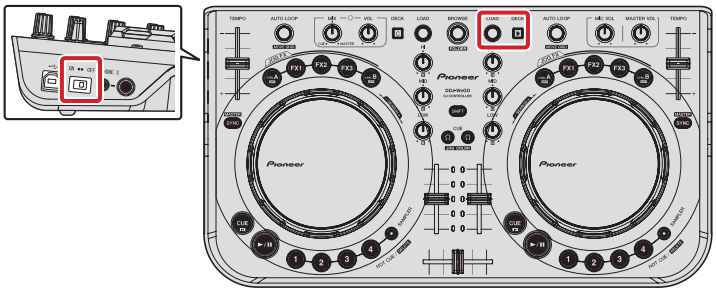
Mode	Point	Mode setting state	LED display
Color of the jog dial's illumination	DECK A	————	While the DECK A–D buttons are lit alternately at intervals of 2 sec., the LEDs of the jog dial will be lit in the color of illumination corresponding to the setting for each deck.
	DECK B	————	
	DECK C	————	
	DECK D	————	
Sensitivity of the jog dial's touch sensor	[HOT CUE1] button on the left deck	Sensitivity: -4 (low)	A [HOT CUE] button or the [SAMPLER] buttons will light, corresponding to the set sensitivity.
	[HOT CUE2] button on the left deck	Sensitivity: -3	
	[HOT CUE3] button on the left deck	Sensitivity: -2	
	[HOT CUE4] button on the left deck	Sensitivity: -1	
	[SAMPLER] button on the both deck	Sensitivity: 0	
	[HOT CUE1] button on the right deck	Sensitivity: +1	
	[HOT CUE2] button on the right deck	Sensitivity: +2	
	[HOT CUE3] button on the right deck	Sensitivity: +3	
	[HOT CUE4] button on the right deck	Sensitivity: +4 (high)	
Illumination mode	Headphone [CUE] button	Pulse Mode: Active	Both headphone [CUE] buttons will be lit.
		Pulse Mode: Normal	Both headphone [CUE] buttons will be lit off.



6.2 BUTTON INPUT and DISPLAY FUNCTION CONFIRMATION MODE

All LED Turn On Mode:

Hold the [LOAD] and [DECK D] button and power on till all LED turn on, then release.



Confirmation of Input to Each Element and Display Function

To enter this mode, while holding the SYNC and CUE buttons on the Deck A/C side pressed, set the Power switch to ON. (Enter this mode, when opening display is terminated.)

In this mode, you can check if pressing each of button or turning of the jog dial is properly input and indications are also properly displayed. The indication corresponding to a pressed button is lit only while the button is held pressed.
All the button have to be off except pressed button when all the buttons are on by Browse button.

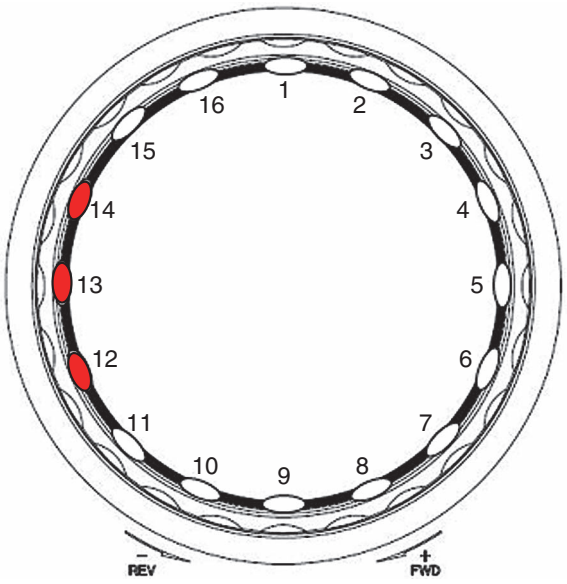
Part	Operation	Device	LED display	DECK
	DECK C	BUTTON	DECK C	1
	DECK D	BUTTON	DECK D	2
DECK A/C	AUTO LOOP	ENCODER	JOG LED ROTATION A	1
	AUTO LOOP PUSH	ENCODER	CTRL A	1
	SYNC A/C	BUTTON	SYNC A/C	1
	HOT CUE 1	BUTTON	HOT CUE 1	1
	HOT CUE 2	BUTTON	HOT CUE 2	1
	HOT CUE 3	BUTTON	HOT CUE 3	1
	HOT CUE 4	BUTTON	HOT CUE 4	1
	SAMPLER	BUTTON	SAMPLER	1
	CUE	BUTTON	CUE	1
	PLAY/PAUSE	BUTTON	PLAY/PAUSE	1
	TEMPO SLIDER	SLIDE VOLUME	FADER LED A	1
	JOG ROTATION	DIAL	JOG LED ROTATION A	1
	JOG TOUCH	DIAL	JOG LED ALL ON	1
	CTRL A	BUTTON	CTRL A	1
	FX 1	BUTTON	FX 1	1
	FX 2	BUTTON	FX 2	1
	FX 3	BUTTON	FX 3	1
	CTRL B	BUTTON	CTRL B	1
DECK B/D	AUTO LOOP	ENCODER	JOG LED ROTATION B	2
	AUTO LOOP PUSH	ENCODER	CTRL A	2
	SYNC B/D	BUTTON	SYNC B/D	2
	HOT CUE 1	BUTTON	HOT CUE 1	2
	HOT CUE 2	BUTTON	HOT CUE 2	2
	HOT CUE 3	BUTTON	HOT CUE 3	2
	HOT CUE 4	BUTTON	HOT CUE 4	2
	SAMPLER	BUTTON	SAMPLER	2
	SHIFT	BUTTON	LOOP OUT	2
	CUE	BUTTON	CUE	2
	PLAY/PAUSE	BUTTON	PLAY/PAUSE	2
	TEMPO SLIDER	SLIDE VOLUME	FADER LED B	2
	JOG ROTATION	DIAL	JOG LED ROTATION B	2
	JOG TOUCH	DIAL	JOG LED ALL ON	2
	CTRL A	BUTTON	CTRL A	2
	FX 1	BUTTON	FX 1	2
	FX 2	BUTTON	FX 2	2
	FX 3	BUTTON	FX 3	2
	CTRL B	BUTTON	CTRL B	2

Part	Operation	Device	LED display	DECK
MIXER	LOAD A/C	BUTTON	FX 1 A/C	1
	LOAD B/D	BUTTON	FX 1 B/D	2
	BROWSE CONTROL	ENCODER	JOG LED ROTATION A/B	1/2
	BROWSE PUSH	ENCODER	ALL LED BRIGHT -> OFF -> (Cyclic by push)	1/2
	EQ HI A/C	ROTARY VOLUME	JOG LED ROTATION A	1
	EQ HI B/D	ROTARY VOLUME	JOG LED ROTATION B	2
	EQ MID A/C	ROTARY VOLUME	JOG LED ROTATION A	1
	EQ MID B/D	ROTARY VOLUME	JOG LED ROTATION B	2
	EQ LOW A/C	ROTARY VOLUME	JOG LED ROTATION A	1
	EQ LOW B/D	ROTARY VOLUME	JOG LED ROTATION B	2
	MASTER VOL	ROTARY VOLUME	JOG LED ROTATION A/B	1/2
	HEADPHONE MIX	ROTARY VOLUME	JOG LED ROTATION A/B	1/2
	HEADPHONE VOL	ROTARY VOLUME	JOG LED ROTATION A/B	1/2
	HEADPHONE CUE A/C	BUTTON	HEADPHONE CUE A/C	1
	HEADPHONE CUE B/D	BUTTON	HEADPHONE CUE B/D	2
	FADER A/C	SLIDE VOLUME	FADER LED A	1
	FADER B/D	SLIDE VOLUME	FADER LED B	2
	CROSS FADER	SLIDE VOLUME	FADER LED A/B	1/2
	SHIFT	BUTTON	All LED of Level meter	1/2

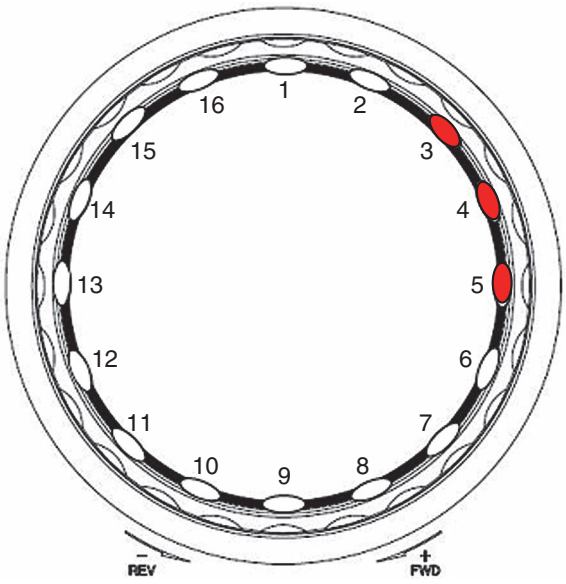
[Indications by the VOL control]

The volume level is indicated in 8 steps from minimum to maximum.
Brightness will be adjusted as standard brightens. At the minimum volume, LEDs 12, 13, and 14 are lit. The lighting LEDs shift as the volume is increased, and LEDs 3, 4, and 5 are lit at the maximum volume.
Brightness will be adjusted as standard brightens.

MIN



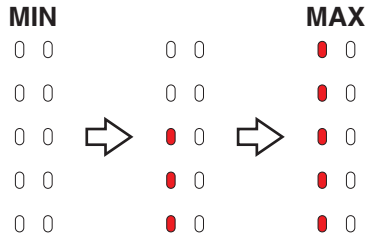
MAX



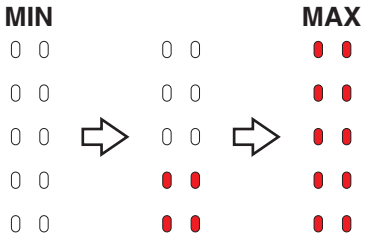
[Indications by the FADER control]

Indicate 10 steps as divided 10 between Min and Max.
All the LED off is MIN, All on is MAX on each Deck.

ex) In case of left Deck

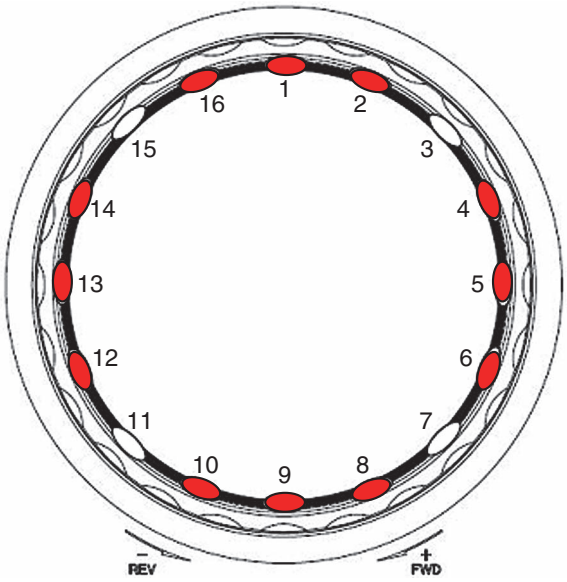


In case of Cross Fader, All the LED off is MIN, All on is MAX on each Deck.

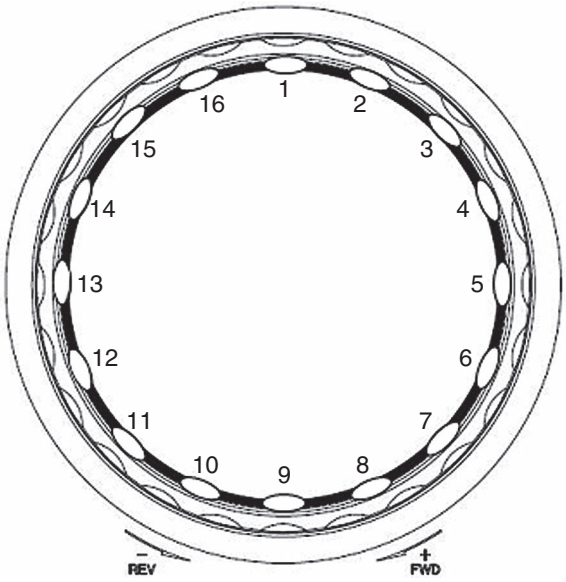


[Indications by the jog dial]

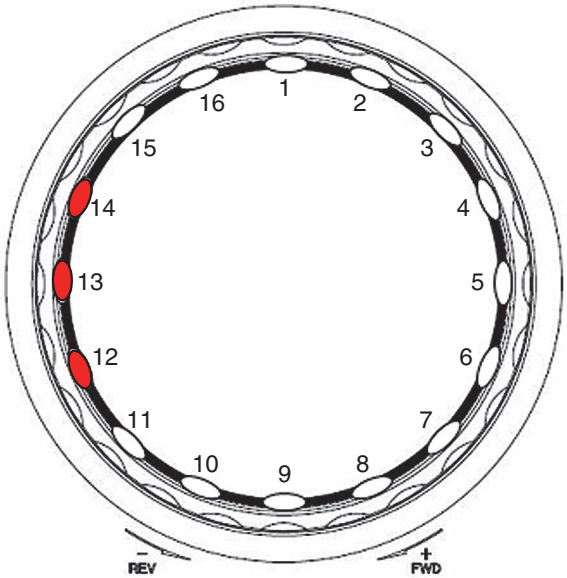
When touched jog dial, all LED on jog dial turn on.



LED of jog dial doesn't turn on in case of turning jog dial.



When jog dial is turned with touched jog dial platter, 3LED of jog dial turns.



6.3 JOG DIAL ROTATION TIME MEASUREMENT MODE

This is a mode measuring jog dial rotation decline time of this unit.
When there was designation of the rotary malfunction of the jog dial from a customer; decline for a diagnosis.
The specified range is 100 ± 40 msec.

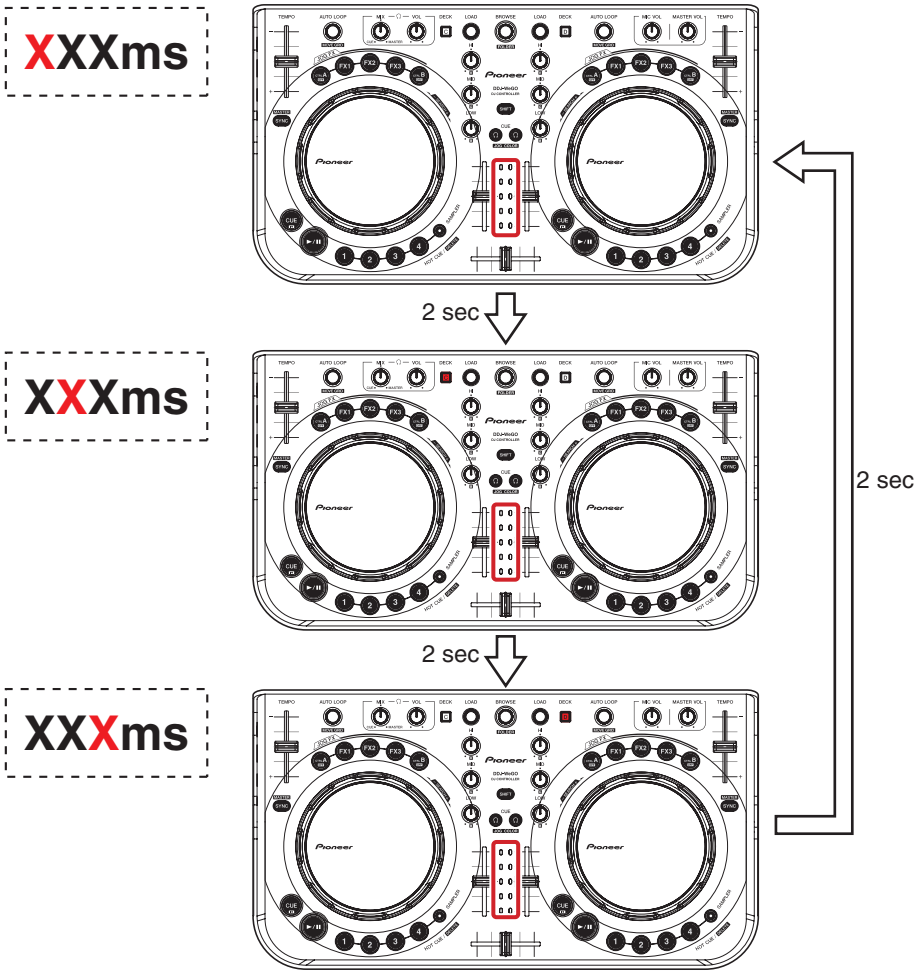
1. Jog dial Rotation Time Measurement Mode

To enter this mode, while holding the LOAD and CTRL B buttons on the Deck A/C side pressed, set the Power switch to ON.
During this mode, the HeadPhone CUE LEDs on both sides are lit.
(Enter to this mode when Opening display is terminated.)

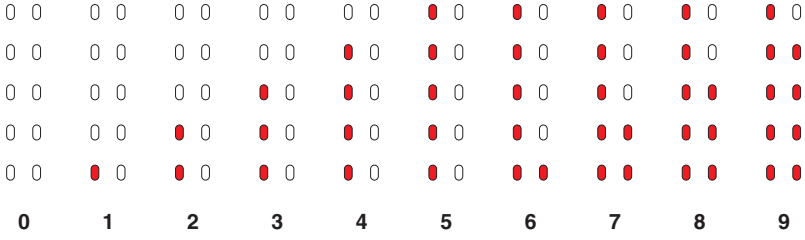
2. How to Measure

① You spin Jog dial more than 33*7 = 231 rpm.
*1: In case of less than 231 rpm, the controller blinks all jog dial LED at 3 times.
blinking cycle: 1 sec
*2: You correspond both of clockwize and counter clockwize.

② The controller measure T1 below.
*T1: The time that Jog rotation speed slow down from 100 rpm to 50 rpm.



[Numerics expressed with the number of lit LEDs]



6.4 FACTORY RESET MODE

To enter this mode, while simultaneously holding the Sampler and HOT CUE 1 buttons on the Deck A/C side pressed, set the Power switch of the unit to ON. (Enter this mode when opening display terminated.)
Memorize Table 1 items when enter this mode.
During Factory Reset mode, the SYNC LEDs on both sides are lit. When you exit this mode, the LEDs go dark.
Note: As the execution time required for Factory Reset is extremely short, in effect, the SYNC LEDs appear to stay unlit.

1. Initial Settings

1	Color of the jog dial's illumination	No color settings for any deck
2	Sensitivity of the jog dial's touch sensor	Sensitivity: 0
3	Jog dial's MIDI message sending interval	3 msec
4	Illuminations mode	Active

Table 1

JOG LED color is Hanpin matter when the controller is launched after FACTORY RESET.

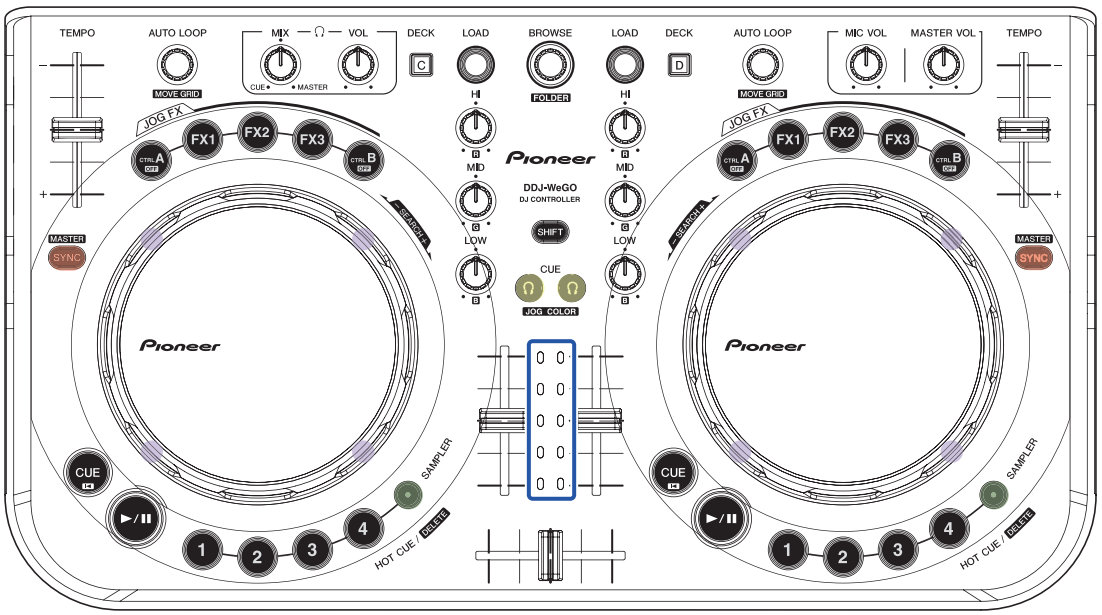
2. For the color valuation of JOG RGB LED

The color of the RGB LEDs of the jog dials must be set according to the color of each controller at the factory.
Press a setting button shown in the table below, according to the color of the cabinet of the controller. The colors of the RGB LEDs of the jog dials for all decks (A/B/C/D) will be set to their standard colors (colors corresponding to the pressed setting buttons).
The data for color change will be stored in memory immediately before the controller is turned off.
Note: If this setting is not performed, the color of the RGB LEDs of the jog dials for all the decks will be set to blue when the unit is turned ON for the next time.

Color Variation on Controller	Default Color (LED)	Setting Button
Black (DDJ-WEGO-K)	Blue	CTRL A
Red (DDJ-WEGO-R)	Orange	FX1
Green (DDJ-WEGO-G)	Emerald green	FX2
Violet (DDJ-WEGO-V)	Violet	FX3
White (DDJ-WEGO-W)	Frosty white	CTRL B

Table 2

ex) If Press the FX3, JOG RGB LED will be changed as below.



6.5 VOLUME VALUE FLUCTUATION CONFIRMATION MODE

You can enter this mode by turn on power together with press "HOT CUE 2" + "HOT CUE 3" buttons at left deck.
(Enter this mode after opening illumination is finished.)

[Use of this mode during repair]

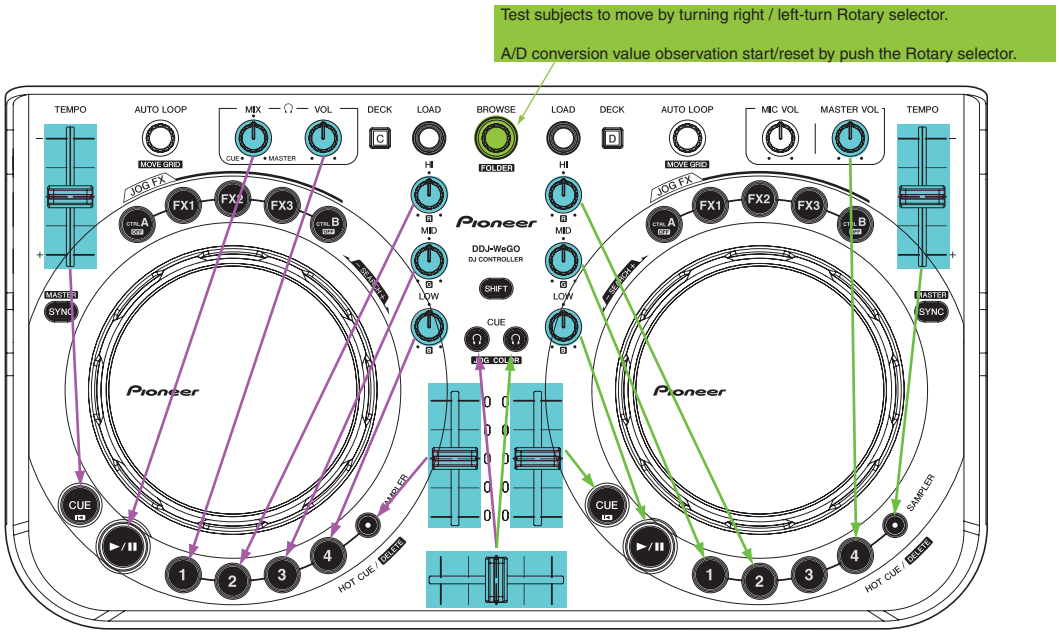
- For failure judgment of the rotary VRs
  As a guide, amplitude values higher than +4 or lower than -4 may be judged as failure.
  The VRs can be set to any position during measurement. Possible symptoms are shown below.
  - The volume changes arbitrarily.
  - Interrupted sound leakage occurs even if the volume is decreased to the minimum at the Master or Booth Monitor.
  - The MIDI signal is output even if the corresponding VR is not operated.
  - For operation check of a rotary VR after replacement

[Test Overview]

Will be tested fluctuation of voltage (A/D conversion value) which is made each Fader and Rotary volume by channel level indicator.

[knobs under test operation]

knobs under test operation are filled blue as below.



[Test detail]

① Choose the test subject by turn left and right Rotary selector.

② You can see what knob is selected by turn on and off LED on Both CUE, ►/II (PLAY/PAUSE), HOT CUE 1, 2, 3, 4, SAMPLER and HEADPHONES CUE.

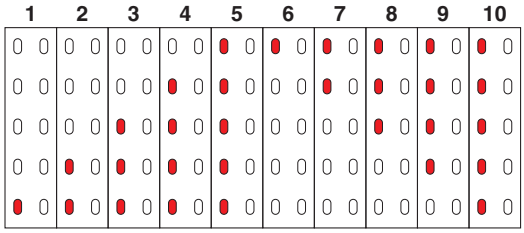
Number of Rotary selector click	Knob	Turn On LED
0	Left deck, TEMPO slider	Left deck, CUE LED
1	Left deck, HEADPHONES MIX control	Left deck, ►/II (PLAY/PAUSE) LED
2	Left deck, HEADPHONES VOL control	Left deck, HOT CUE 1 LED
3	Left deck, EQ (HI) control	Left deck, HOT CUE 2 LED
4	Left deck, EQ (MID) control	Left deck, HOT CUE 3 LED
5	Left deck, EQ (LOW) control	Left deck, HOT CUE 4 LED
6	Left deck, Channel fader	Left deck, SAMPLER LED
7	Right deck, Channel fader	Right deck, CUE LED
8	Right deck, EQ (LOW) control	Right deck, ►/II (PLAY/PAUSE) LED
9	Right deck, EQ (MID) control	Right deck, HOT CUE 1 LED
10	Right deck, EQ (HI) control	Right deck, HOT CUE 2 LED
12	Right deck, MASTER VOL control	Right deck, HOT CUE 4 LED
13	Right deck, TEMPO slider	Right deck, SAMPLER LED
14	Crossfader	Left, Right deck, HEADPHONES CUE LED

③ When targeted knob is decided, push the Rotary selector and start observation of A/D conversion value.
Get the A / D conversion value immediately after the start. It will be reference value.
* A / D conversion value to be monitored is Raw data.

④ Start monitoring and later to monitor the A / D conversion value, do the following actions depending on its value.

1	+1 from the reference value A / D conversion value	The 1st to be lit from the bottom of the right Channel Level Indicator
2	+2 from the reference value A / D conversion value	The 1st - 2nd to be lit from the bottom of the right Channel Level Indicator
3	+3 from the reference value A / D conversion value	The 1st - 3rd to be lit from the bottom of the right Channel Level Indicator
4	+4 from the reference value A / D conversion value	The 1st - 4th to be lit from the bottom of the right Channel Level Indicator
5	over +5 From the reference value A / D conversion value	The 1st - 5th to be lit from the bottom of the right Channel Level Indicator
6	-1 From the reference value A / D conversion value	The 5th is lit from the bottom of the left Channel Level Indicator
7	-2 From the reference value A / D conversion value	The 4th - 5th is lit from the bottom of the left Channel Level Indicator
8	-3 From the reference value A / D conversion value	The 3rd - 5th is lit from the bottom of the left Channel Level Indicator
9	-4 From the reference value A / D conversion value	The 2nd - 5th is lit from the bottom of the left Channel Level Indicator
10	less than -5 From the reference value A / D conversion value	The 1st - 5th is lit from the bottom of the left Channel Level Indicator

* Display at the same time both fall / rise direction from the reference value of the conversion value A/D

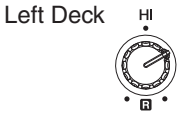


* Keep the lighting position at the time of maximum fluctuation of each of the positive & negative direction

⑤ By pushing the Rotary selector while monitoring the conversion value A / D, it is possible to reset the state of the fluctuations of the past.

Ex.)

1. Turn the left deck EQ (HI) control to the position you want to measure.



2. Turned right 3 clicks Rotary selector.
→ HOT CUE 2 of the left deck is lit.

3. Start A/D conversion value monitoring to push Rotary selector.
If A/D value of push the Rotary selector is 760, To monitor the amount of change in the value of A / D as a reference value 760.

4. After a while, Channel level indicator is lit as follows: become the value 763 of the A / D.

5. More time has elapsed, To maintain the above display 762 even though the value of the A / D.

6. More time has elapsed, Channel level indicator is lit as follows: become the value 764 of the A / D.

7. More time has elapsed, Channel level indicator is lit as follows: become the value 758 of the A / D.

8. More time has elapsed, To maintain the above display 759 even though the value of the A / D.

9. More time has elapsed, Channel level indicator is lit as follows: become the value 757 of the A / D.

10. Off all the Channel level indicator when you push the Rotary selector, and this value will be new reference value.

7. DISASSEMBLY

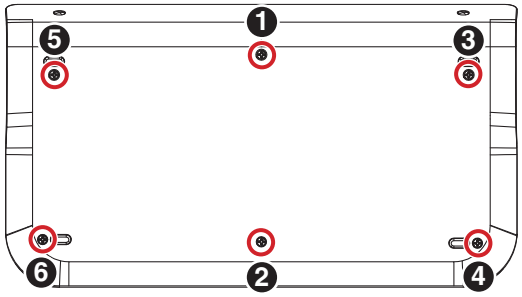
Note: Even if the unit shown in the photos and illustrations in this manual may differ from your product, the procedures described here are common.

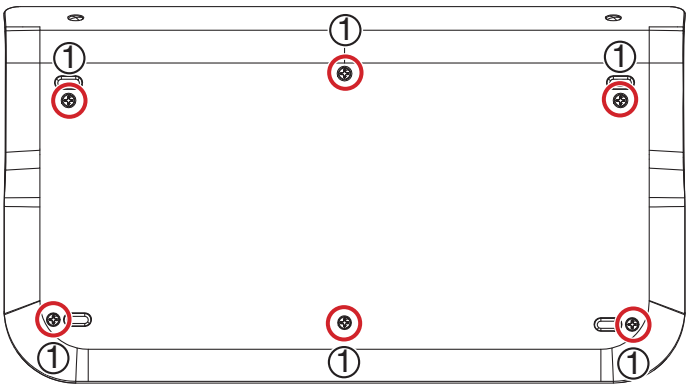
Disassembly

[1] Chassis Section

(1) Remove the chassis section by removing the six screws.
(K, R, V: 602-PTB3010-674B)
(W, G: 602-PTB3010-674Z)

Screw tightening order





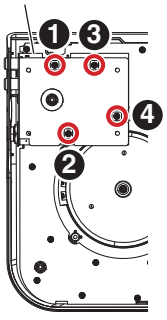
• Bottom view

[2] MASTER and IO PCB Assemblies

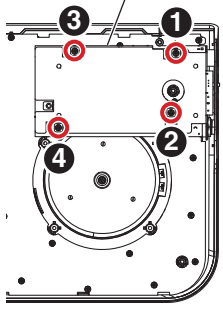
(1) Release the jumper wire from the three locking cable clip.
(2) Remove the MASTER PCB Assy with plate by removing the four screws.
(602-SL24F-099)
(3) Disconnect the one flexible cable.
(CN605A)
(2) Remove the IO PCB Assy with plate by removing the four screws.
(602-SL24F-099)

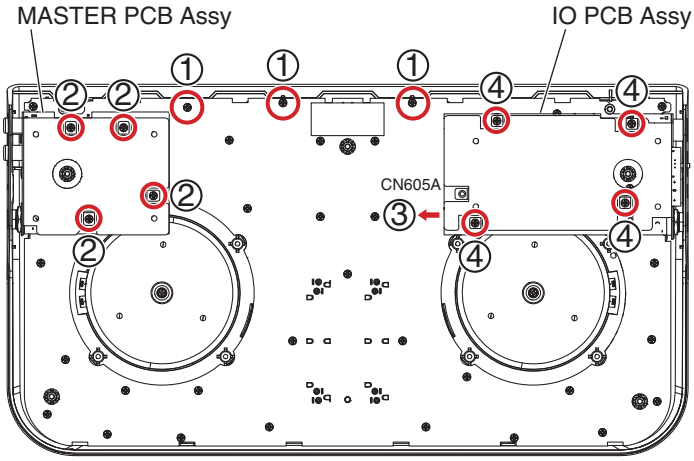
Screw tightening order

MASTER PCB Assy



IO PCB Assy

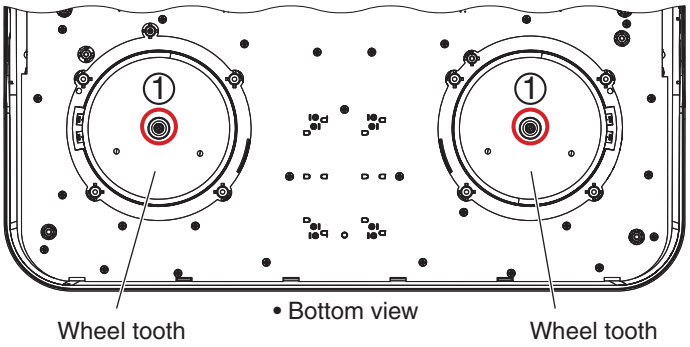




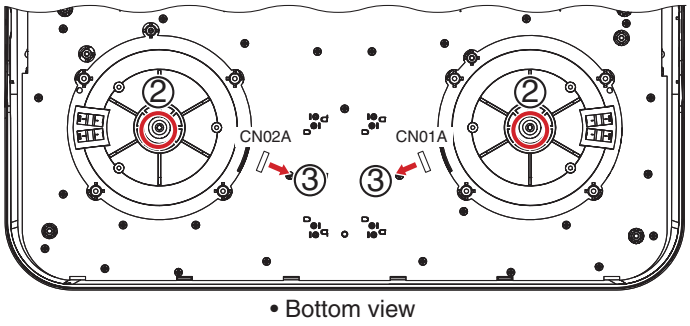
• Bottom view

[3] WHEEL (L) and (R) PCB Assemblies

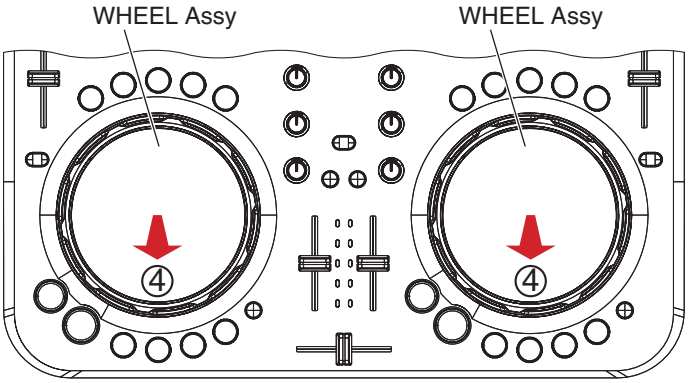
(1) Remove the two wheel tooths by removing the two screws and four washers. (602-STR885-354)



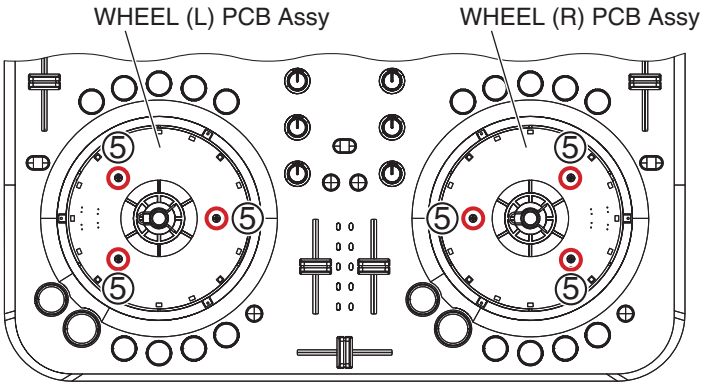
(2) Remove the two washers and two E rings.
(3) Disconnect the two flexible cables. (CN01A, CN02A)



(4) Remove the two WHEEL Assemblies.



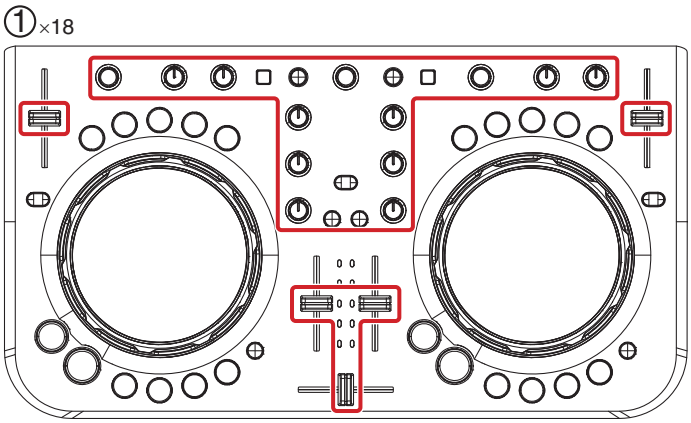
(5) Remove the WHEEL (L) and (R) PCB Assemblies by removing the six screws. (602-SL24F-099)



[4] CONTROL PCB Assy

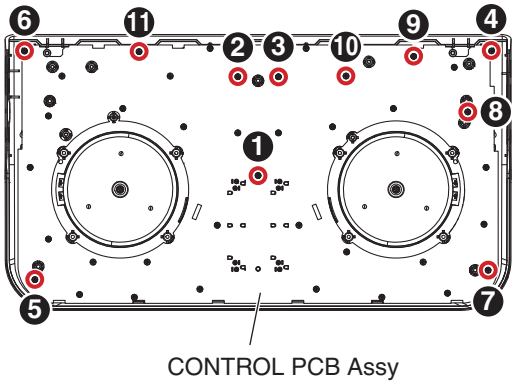
Note:
When you remove CONTROL PCB Assy, it is not necessary to remove a WHEEL section.

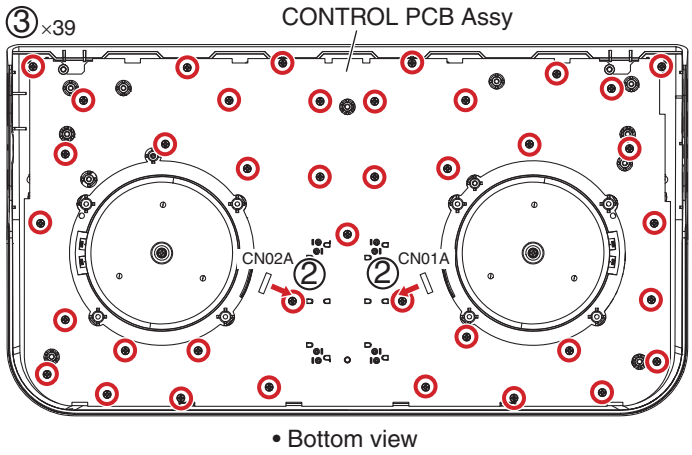
(1) Remove the all knobs.



(2) Disconnect the two flexible cables. (CN01A, CN02A)
(3) Remove the CONTROL PCB Assy by removing the 39 screws. (602-SL24F-099)

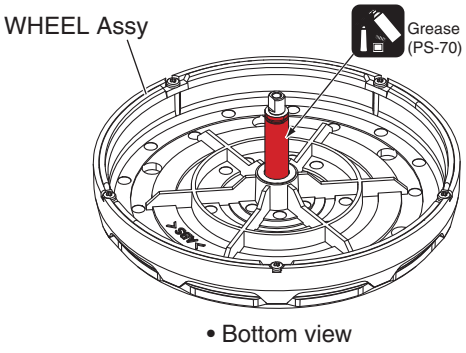
Screw tightening order
The other screws are random order.

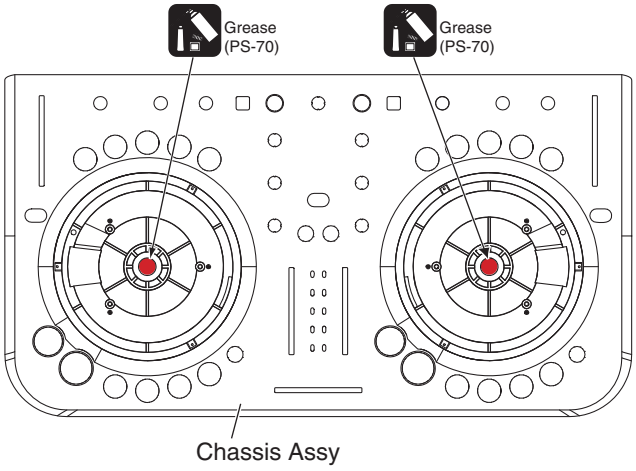


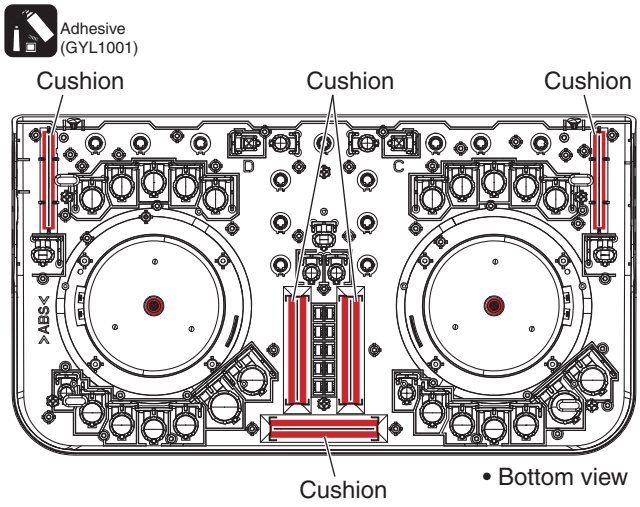


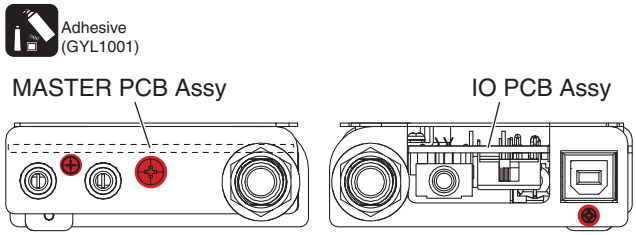
• Bottom view

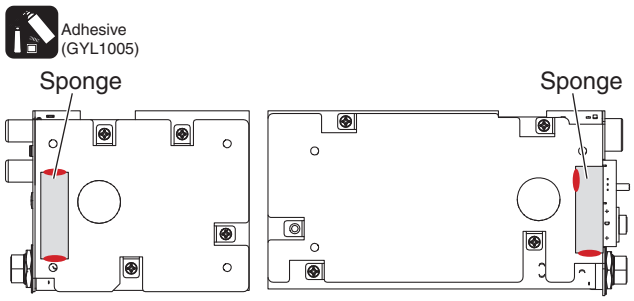
The Application Position of Adhesive and Grease











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 storing firmware and PCB Assy
  IC600 (CONTROL IC), IC618 (MIDI IC),
  CONTROL PCB Assy

⟹

- Confirmation of the version of the firmware
- Updating to the latest version of the firmware

- When replaced WHEEL Assy

⟹

- Confirmation of the specified value by the mode which measures rotary decline time of the jog dial

8.2 UPDATING OF THE FIRMWARE

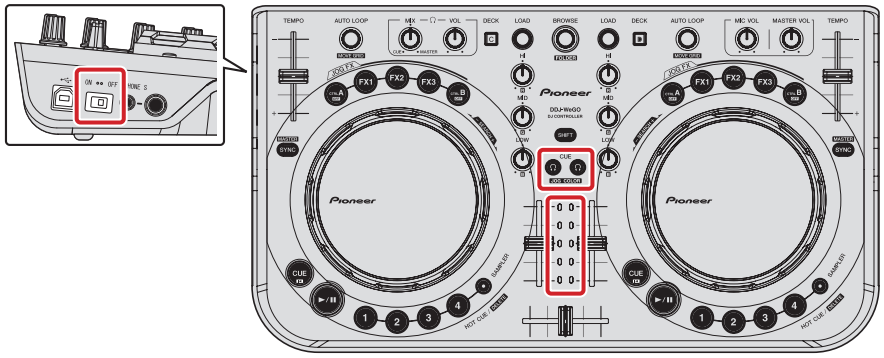
Preparations

Download the latest Java from the following pages, and install it in a PC for update.
http://www.java.com/ja/

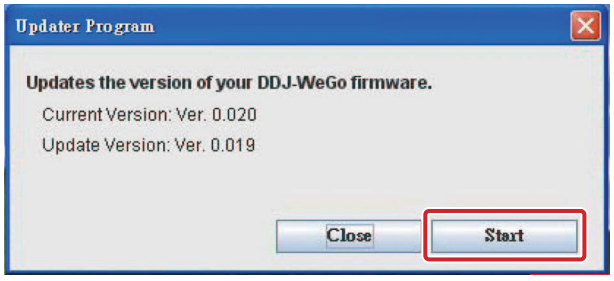
Update program software name: DDJ-WeGO_V1xx.jar

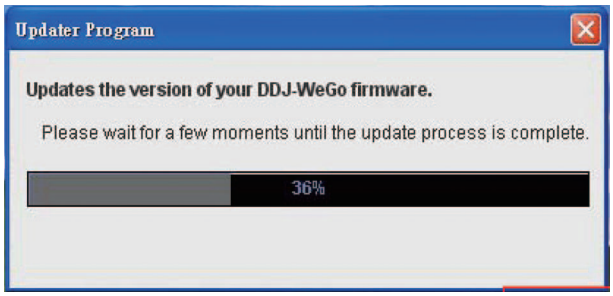
Procedures

① Hold the JOG COLOR CUE button and Power switch at the same time till all Channel level indicator turn on.

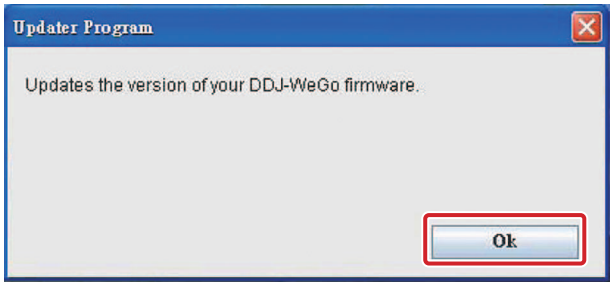


② Click the Updater Program software, the information with PC.
③ Click "Start" to update procedure, the information with PC.





④ After upgrading and finishing automatically, the information with PC, Click "OK", finish the Firmware update.



* When update fails, all level indicators blink when a power is turned on.
In that case, please update it again.

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 shown below, to which you can transcribe the settings.
For details on how to confirm the settings, see "6.1 FIRMWARE VERSION (MAIN UCOM) and LAST MEMORY CONFIRMATION MODE."
For details on the setting methods, refer to "Changing the color of the jog dial's illumination," "Adjusting the jog dial's MIDI message sending interval," and "Adjusting the sensitivity of the jog dial's touch sensor" in the operation instructions.

Item for Which User's Setting is Available	Setting Value (The factory default settings are indicated in bold.)	Part Name	Content to be Stored
Color of the jog dial's illumination	**Blue** ■ (DDJ-WEGO-K) **Frosty white** □ (DDJ-WEGO-W) **Orange** ■ (DDJ-WEGO-R) **Emerald green** ■ (DDJ-WEGO-G) **Violet** ■ (DDJ-WEGO-V) Other colors to pre-set Red ■, Yellow ■, Green ■, Aqua ■ Free setting EQ (HI, MID, LOW) Control R G B with a knob, and can set each color freely.	CONTROL PCB ASSY (704-DDJLE-A368) [NSP] STM8S207MB Control IC (IC600)	Setting coller
Illuminations mode	Pulse Mode **Active** / Normal		Setting mode
Jog dial's MIDI message sending interval	**3ms**, 4ms, 5ms, 6ms, 7ms, 8ms, 9ms, 10ms, 11ms, 12ms, 13ms		Setting value
Sensitivity of the jog dial's touch sensor	-4 (Low), -3, -2, -1, **0**, +1, +2, +3, +4 (High)		Setting value

■ Sheet for confirmation of the user settings

• Color of the jog dial's illumination

Original color					Pre-set color				Others
Blue	Frosty white	Orange	Emerald green	Violet	Red	Yellow	Green	Aqua	

• Illuminations mode

Pulse Mode	
Active	Normal

• Sensitivity of the jog dial's touch sensor

-4 (Low)	-3	-2	-1	0	+1	+2	+3	+4 (High)

• Jog dial's MIDI message sending interval

3 ms	4 ms	5 ms	6 ms	7 ms	8 ms	9 ms	10 ms	11 ms	12 ms	13 ms

A

B

C

D

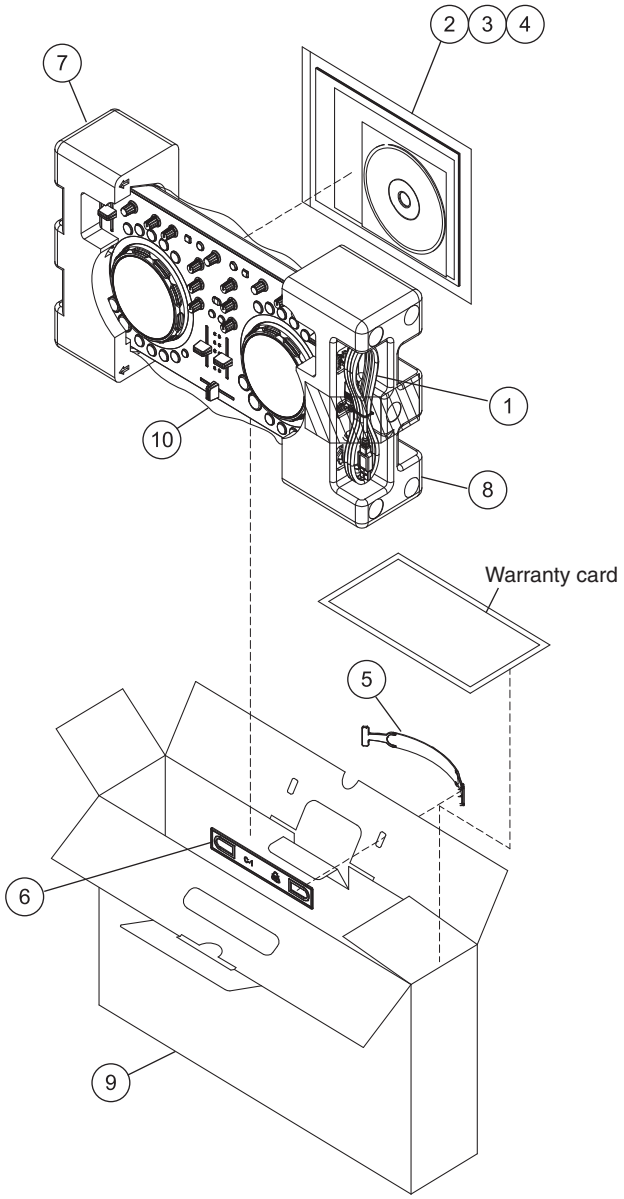
E

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	USB Cable (DDJ-WEGO)	408-100UG-087
	2	I/B Assy	See Contrast table (2)
	3	Software Disc	429-DDJLE-141
	4	QSG Sheet	See Contrast table (2)
	5	Handle	100-DDJLE-3012
	6	Handle Base	100-DDJLE-3013
	7	Polyfoam L	506-DDJLE-646L
	8	Polyfoam R	506-DDJLE-646R
	9	Gift Box	See Contrast table (2)
	10	Soft Bag	509-DDJLE-318

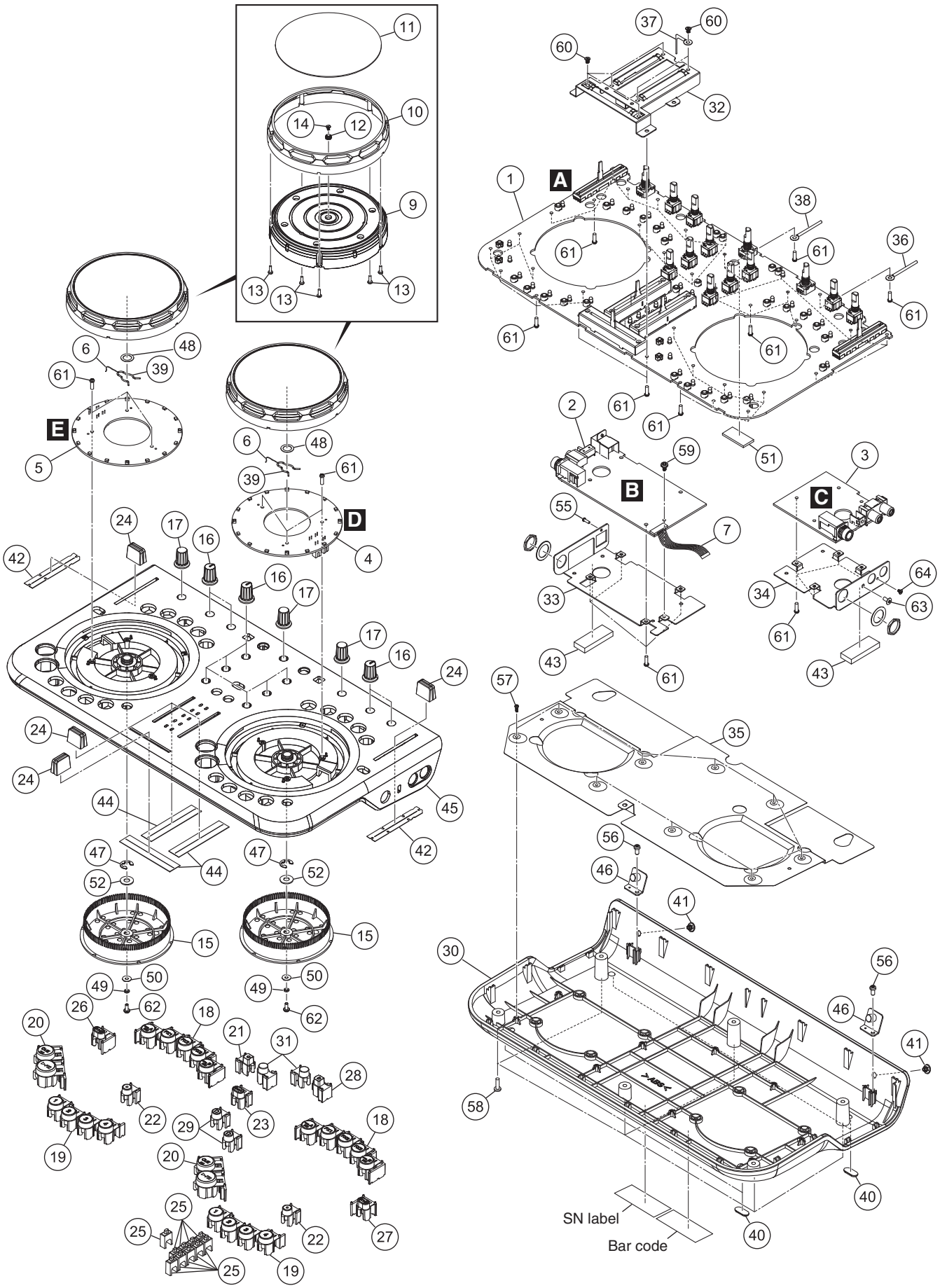
(2) CONTRAST TABLE

DDJ-WEGO-K/XE5, DDJ-WEGO-K/XECN5, DDJ-WEGO-W/XE5, DDJ-WEGO-W/XECN5, DDJ-WEGO-V/XE5, DDJ-WEGO-G/XE5, DDJ-WEGO-R/XE5 and DDJ-WEGO-R/XECN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO-K /XE5	DDJ-WEGO-K /XECN5	DDJ-WEGO-W /XE5	DDJ-WEGO-W /XECN5
	2	I/B Assy	701-DDJLEA-5247	701-DDJLEB-5248	701-DDJLEA-5247	701-DDJLEB-5248
	4	QSG Sheet	502-DDJLEA-3246	Not used	502-DDJLEA-3246	Not used
	4	QSG & Safety	Not used	502-DDJLEB-3250	Not used	502-DDJLEB-3250
	9	Gift Box	507-LEKA-3368	507-LEKB-3368	507-DDJLEA-3368	507-LEWB-3368

Mark	No.	Symbol and Description	DDJ-WEGO-V /XE5	DDJ-WEGO-G /XE5	DDJ-WEGO-R /XE5	DDJ-WEGO-R /XECN5
	2	I/B Assy	701-DDJLEA-5247	701-DDJLEA-5247	701-DDJLEA-5247	701-DDJLEB-5248
	4	QSG Sheet	502-DDJLEA-3246	502-DDJLEA-3246	502-DDJLEA-3246	Not used
	4	QSG & Safety	Not used	Not used	Not used	502-DDJLEB-3250
	9	Gift Box	507-LEVA-3368	507-LEGA-3368	507-LERA-3368	507-LERB-3368

9.2 EXTERIOR SECTION



(1) EXTERIOR SECTION PARTS LIST

Mark	No.	Description	Part No.
	1	CONTROL PCB Assy	704-DDJLE-A368
	2	IO PCB Assy	704-DDJLE-A367
	3	MASTER PCB Assy	704-DDJLE-A372
	4	WHEEL (R) PCB Assy	704-DDJLE-A370
	5	WHEEL (L) PCB Assy	704-DDJLE-A371
	6	1P Lead Wire	406-DDJLE-1227
	7	10P FFC Cable	406-SP2U-1067V
	8	•••••	
	9	Wheel Ring Assy	701-DDJLE-5224
	10	Wheel Frame	100-DDJLE-2942S
	11	Decorating Sheet	501-DDJLE-2508
	12	Spring	603-M1-384
	13	Screw	602-BTP2006-733B
	14	Screw	602-STS2003-677
	15	Wheel Tooth	100-DDJLE-2943
	16	JOG Tuning Knob	100-DDJLE-2944
	17	Rotate Knob	100-DDJLE-2945
	18	FX Knob	100-DDJLE-2946
	19	HOT CUE Knob	100-DDJLE-2947
	20	PLAYCUE Knob	100-DDJLE-2948
	21	SQUARE Knob	100-DDJLE-2949
	22	CIRCULAR Knob	100-DDJLE-2950
	23	ELLIPTIC Knob	100-DDJLE-2951
	24	Push Knob	100-DDJLE-2952
	25	LED Lens	100-DDJLE-2953
	26	Left Knob	100-DDJLE-2954
	27	Right Knob	100-DDJLE-2955
	28	SQUARE Knob	100-DDJLEA-2949
	29	CIRCULAR Knob	100-DDJLEA-2950
	30	Base	See Contrast table (2)
	31	CIRCULAR Knob	100-DDJLEB-2950
	32	VR Fixed Plate	300-DDJLE-2029
	33	L Output Fixed Plate	300-DDJLE-2030
	34	R Output Fixed Plate	300-DDJLE-2031
	35	Large Ground Plate	300-DDJLE-2055
	36	Locking Cable Clip	300-HM510B-224
	37	Locking Cable Clip	300-HM510B-224A
	38	Locking Cable Clip	504-HV3500K-033
	39	Clip	603-PROS2-256A
	40	Foot Pad	604-DDJLE-604
	41	Plug	See Contrast table (2)
	42	Cushion	612-DDJLE-441
	43	Sponge	612-PDJ22-428
	44	Cushion	612-202-220
	45	Chassis Assy	701-DDJLE-5223
	46	Fixed Base Assy	703-DDJLE-1376
	47	E Ring	606-DJ3000-105
	48	Pulley Washer	606-F200-003
	49	Washer	606-MCD810-204
	50	Washer	606-MCD810-205
	51	Washer	612-DDJLE-447
	52	Washer	606-DDJLE-260
	53	•••••	
	54	•••••	
	55	Screw	602-HP1010K-181
	56	Screw	602-LC58FA-371
	57	Screw	602-M100-031
	58	Screw	See Contrast table (2)
	59	Screw	602-QMX2BPM-322
	60	Screw	602-SA12-414
	61	Screw	602-SL24F-099
	62	Screw	602-STR885-354
	63	Screw	602-ST306-728B
	64	Screw	602-STS2003-677

(2) CONTRAST TABLE

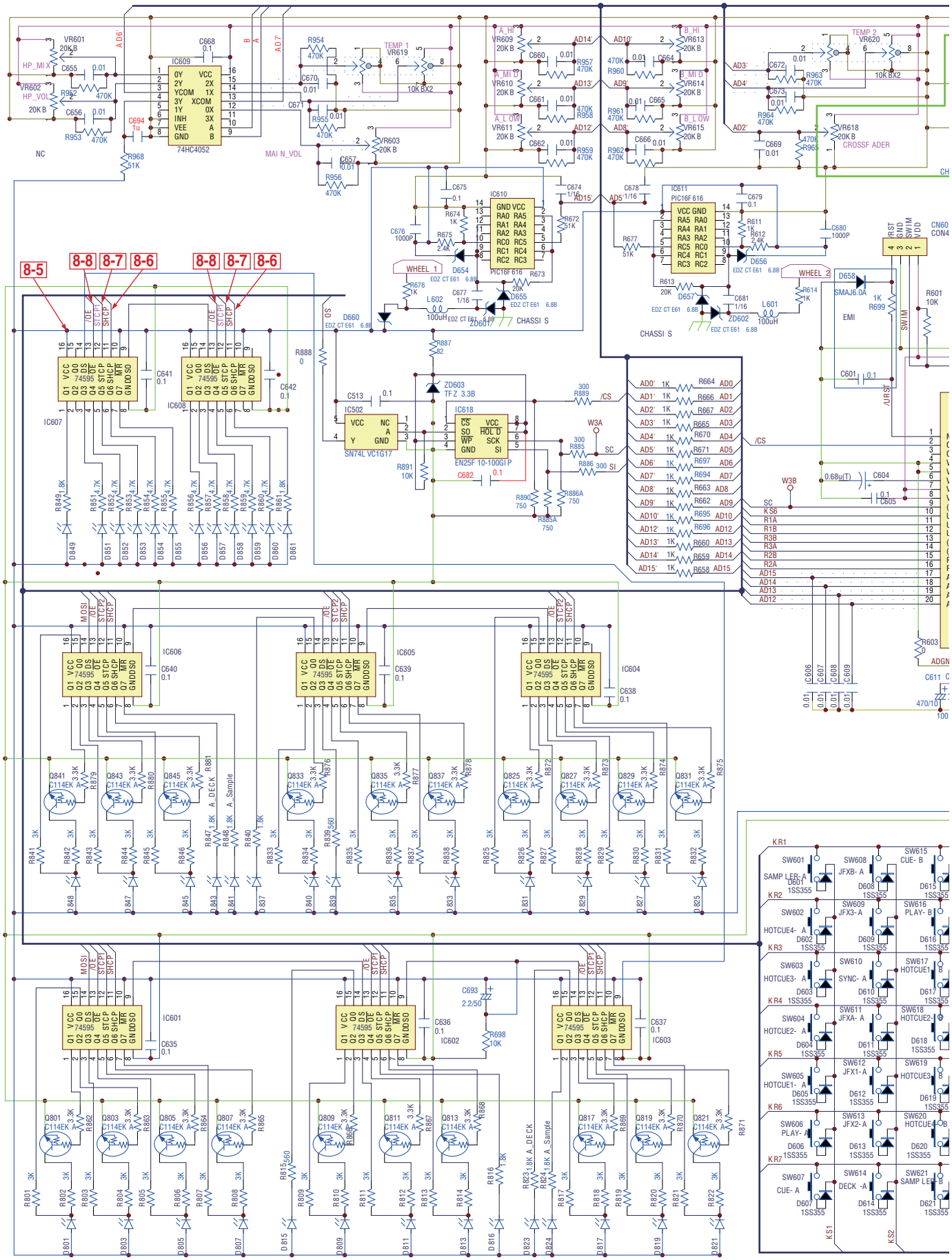
DDJ-WEGO-K/XE5, DDJ-WEGO-K/XECN5, DDJ-WEGO-W/XE5, DDJ-WEGO-W/XECN5, DDJ-WEGO-V/XE5, DDJ-WEGO-G/XE5, DDJ-WEGO-R/XE5 and DDJ-WEGO-R/XECN5 are constructed the same except for the following:

Mark	No.	Symbol and Description	DDJ-WEGO-K /XE5	DDJ-WEGO-K /XECN5	DDJ-WEGO-W /XE5	DDJ-WEGO-W /XECN5
	30	Base	100-DDJLEB-2940	100-LEKB-2940	100-DDJLE-2940	100-LEWB-2940
	41	Plug	604-DDJLEB-606	604-DDJLEB-606	604-DDJLE-606	604-DDJLE-606
	58	Screw	602-PTB3010-674Z	602-PTB3010-674Z	602-PTB3010-674B	602-PTB3010-674B

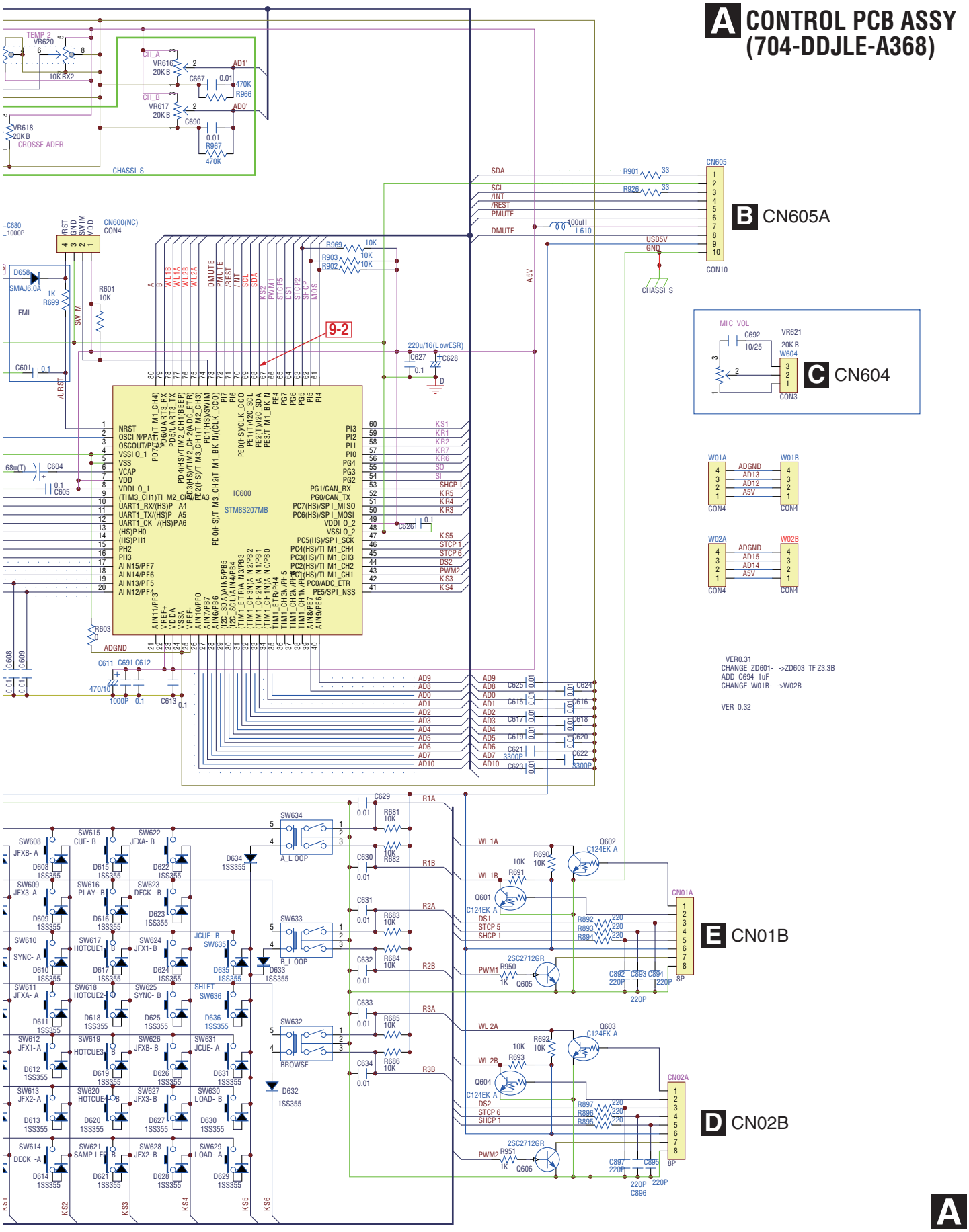
Mark	No.	Symbol and Description	DDJ-WEGO-V /XE5	DDJ-WEGO-G /XE5	DDJ-WEGO-R /XE5	DDJ-WEGO-R /XECN5
	30	Base	100-DDJLEC-2940	100-DDJLEA-2940	100-DDJLED-2940	100-LERB-2940
	41	Plug	604-DDJLEC-606	604-DDJLEA-606	604-DDJLED-606	604-DDJLED-606
	58	Screw	602-PTB3010-674Z	602-PTB3010-674B	602-PTB3010-674Z	602-PTB3010-674Z

10. SCHEMATIC DIAGRAM

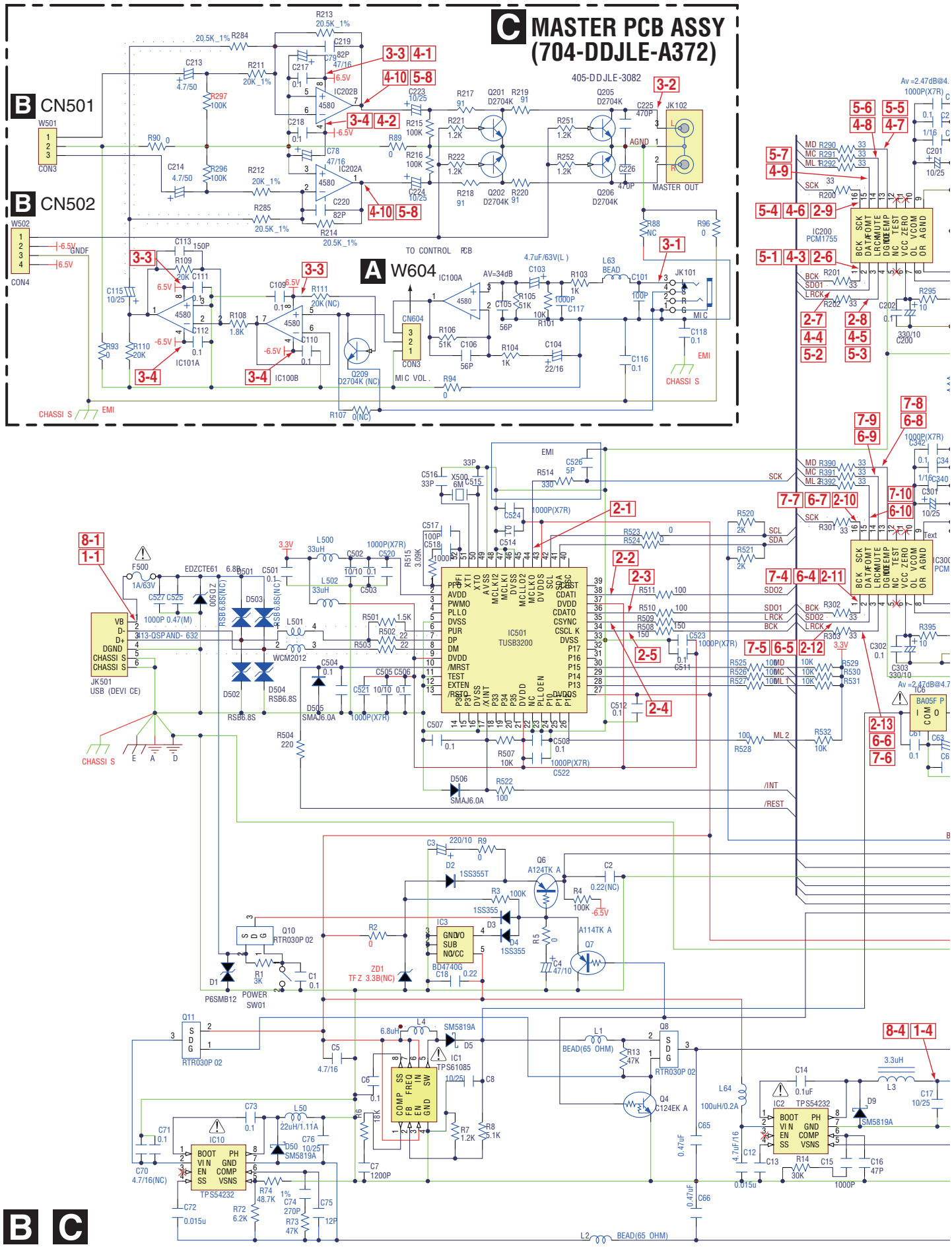
10.1 CONTROL PCB ASSY



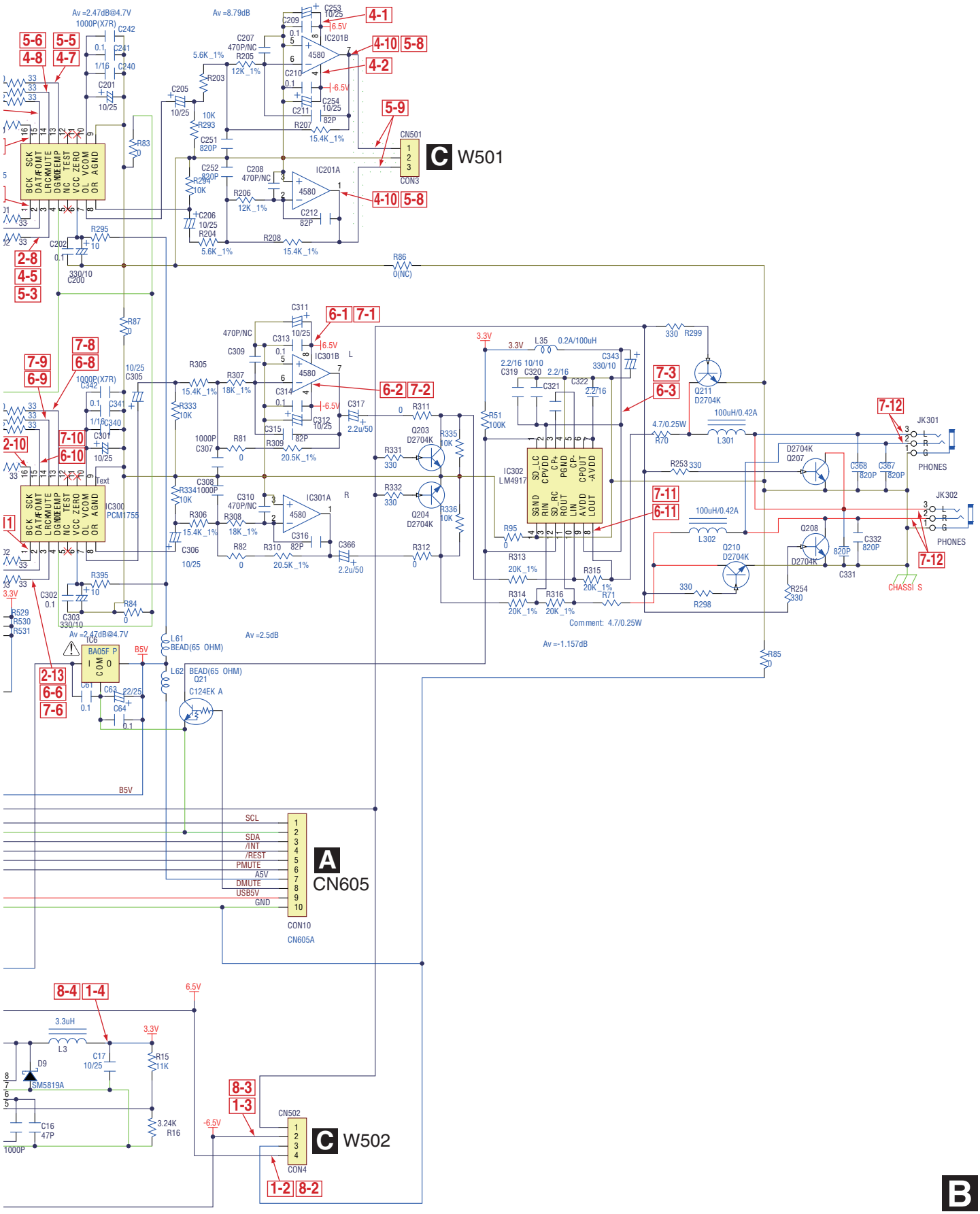
A CONTROL PCB ASSY (704-DDJLE-A368)



10.2 IO and MASTER PCB ASSYS

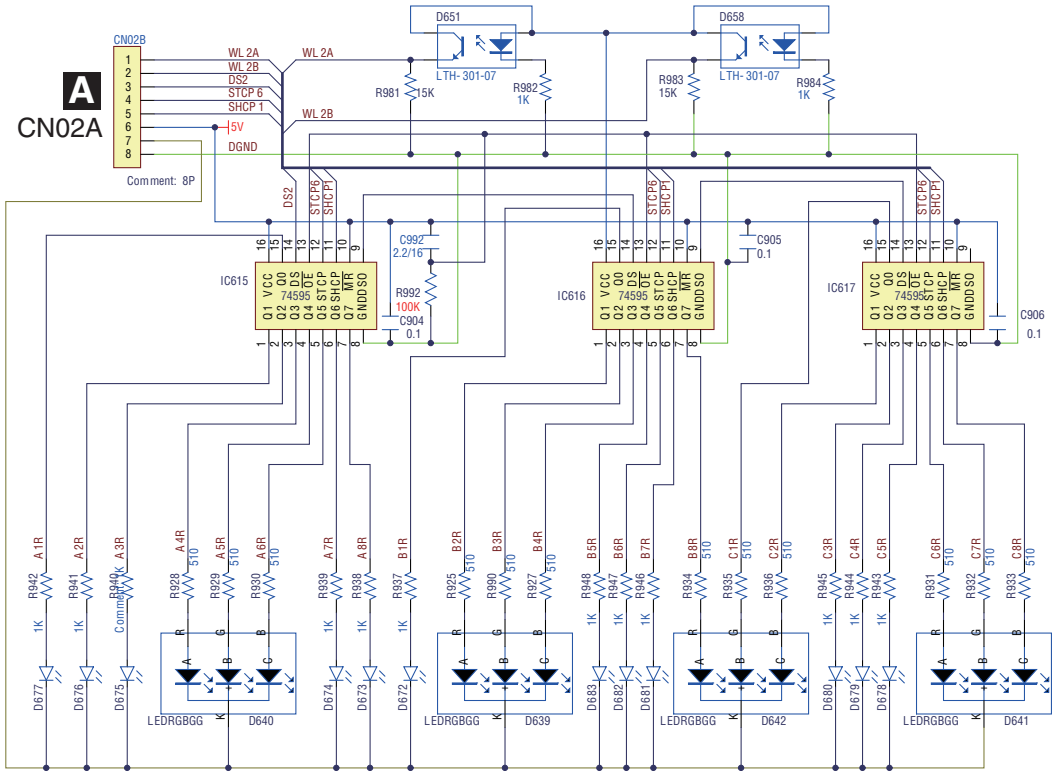


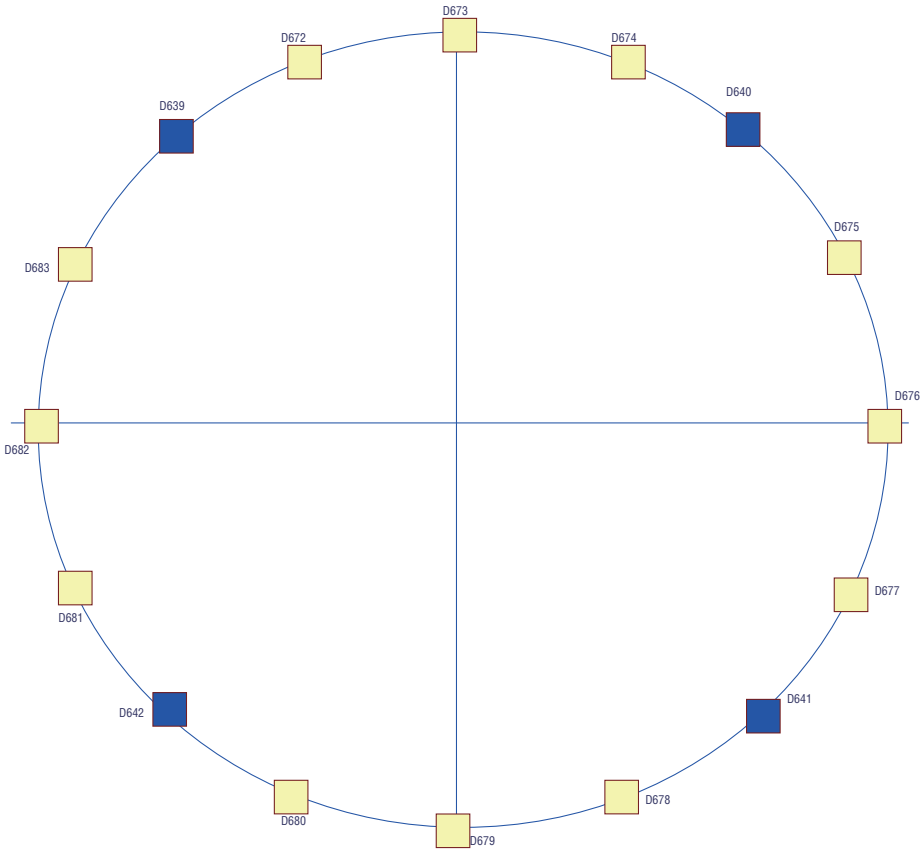
B IO PCB ASSY (704-DDJLE-A367)



10.3 WHELL (R) and (L) PCB ASSYS

D WHEEL (R) PCB ASSY (704-DDJLE-A370)



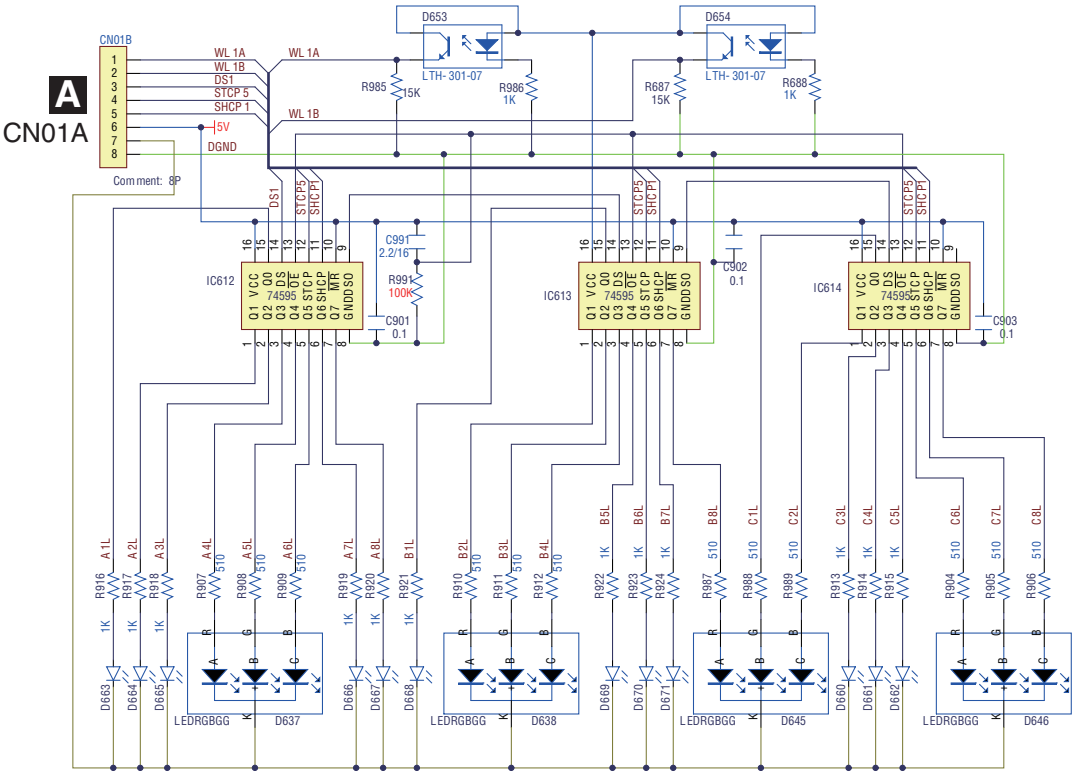


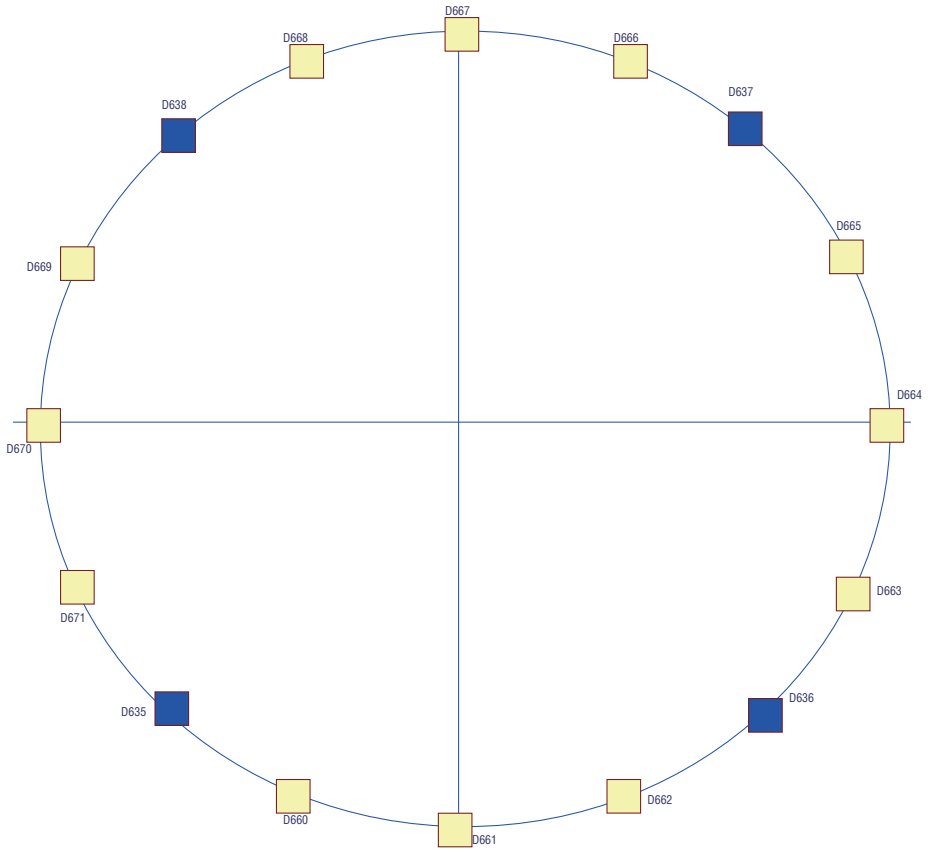
VER0.42
CHANGE R942/941/940/939/938/937/948/947/946/945/
CHANGE R928/929/930/925/990/927/934/935/936/931/
CHANGE R916/917/918/919/920/921/922/923/924/913/
CHANGE R907/908/909/910/911/912/987/988/989/904/

VER0.43
CHANGE R982/984 1K
CHANGE R986/688 1K

VER 0.44
CHANGE R992 10K -->100K
CHANGE R991 10K -->100K

E WHEEL (L) PCB ASSY (704-DDJLE-A371)



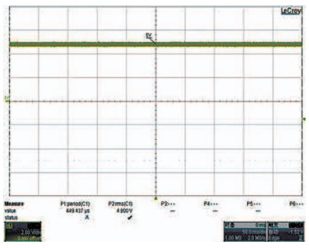


/940/939/938/937/948/947/946/945/944/943 1.8K
)/930/925/990/927/934/935/936/931/932/933 1.8K
'/918/919/920/921/922/923/924/913/914/915 1.8K -->1K
)/909/910/911/912/987/988/989/904/905/906 1.8K -->510
-->1K
-->510
1K
1K

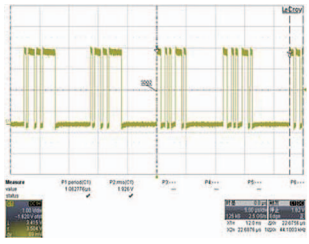
K -->100K
K -->100K

10.4 WAVEFORMS

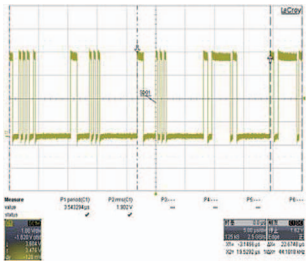
1-1 **5 V** (JK501 Pin 1)



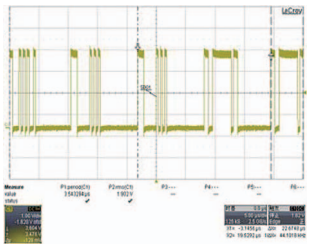
2-2 **CDATI** (IC501 Pin 38)



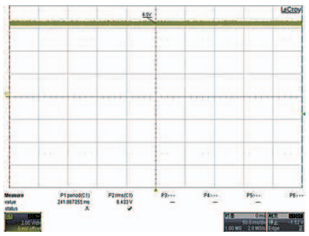
2-7 **SDO1** (IC200 Pin 2)



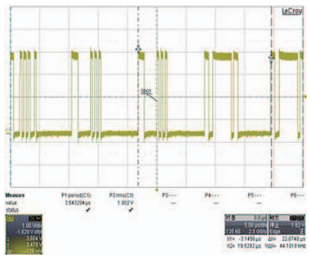
2-12 **SDO1** (IC300 Pin 2)



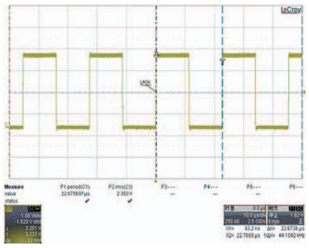
1-2 **6.5 V** (CN502 Pin 4)



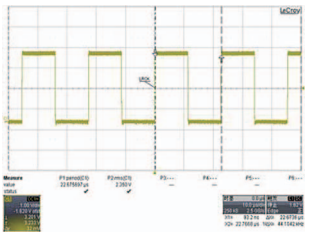
2-3 **CDATO** (IC501 Pin 36)



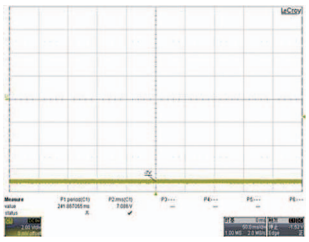
2-8 **LRCK** (IC200 Pin 3)



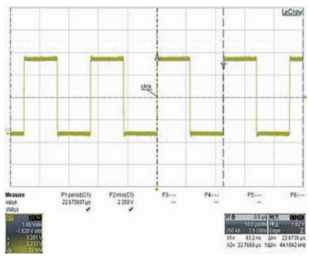
2-13 **LRCK** (IC300 Pin 3)



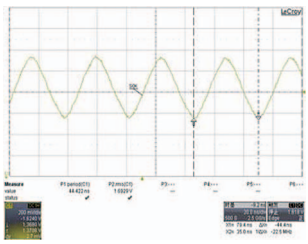
1-3 **-6.5 V** (CN502 Pin 2)



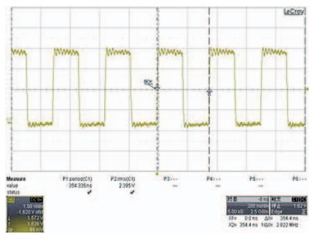
2-4 **CSYNC** (IC501 Pin 35)



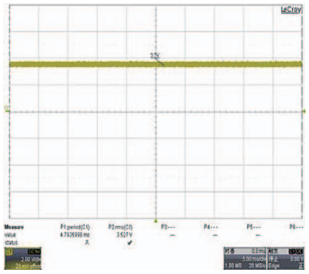
2-9 **SCK** (IC200 Pin 16)



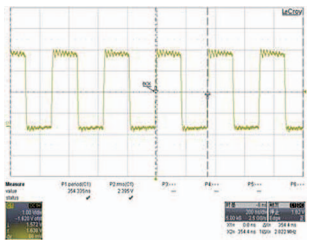
2-14 IC315 **ADC** -> Pin 11(**BCK**)



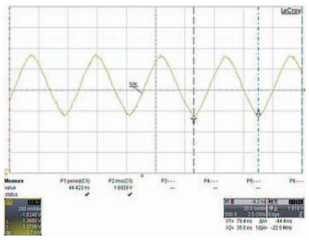
1-4 **3.3 V** (C17 + side)



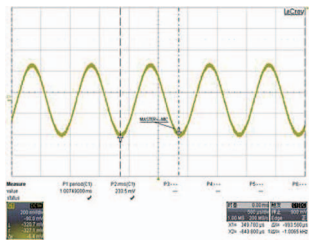
2-5 **CSCLK** (IC501 Pin 34)



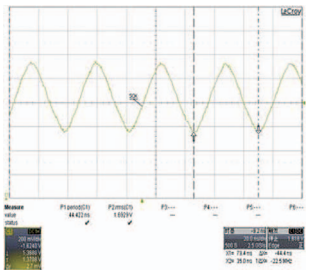
2-10 **SCK** (IC300 Pin 16)



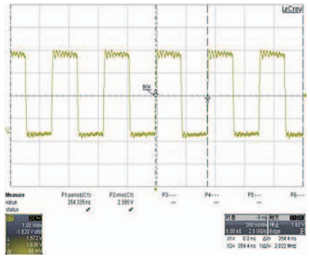
3-1 **INPUT** (JK101)



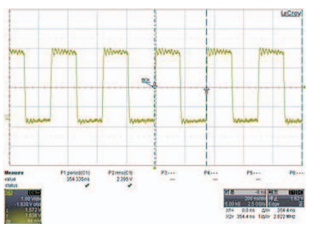
2-1 **MCLKO** (IC501 Pin 44)



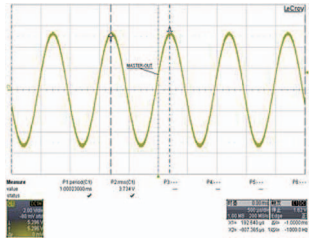
2-6 **BCK** (IC200 Pin 1)



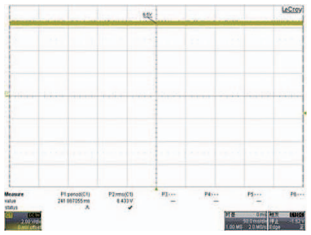
2-11 **BCK** (IC300 Pin 1)



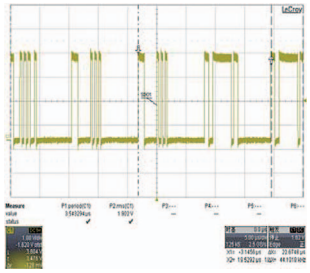
3-2 **MASTER OUT** (JK102)



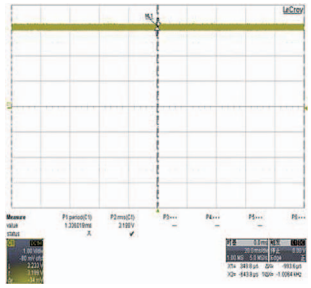
3-3 **6.5 V** (IC100/101/202 Pin 8)



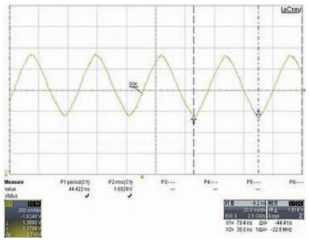
4-4 **SDO1** (IC200 Pin 2)



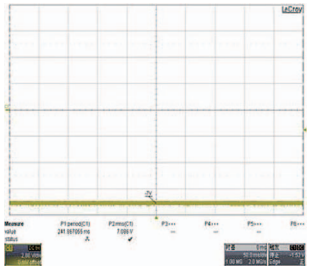
4-9 **ML1** (IC200 Pin 15)



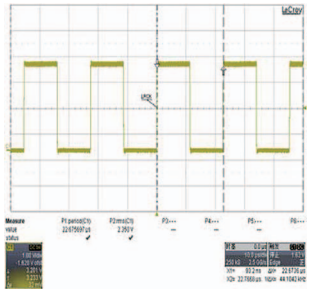
5-4 **SCK** (IC200 Pin 16)



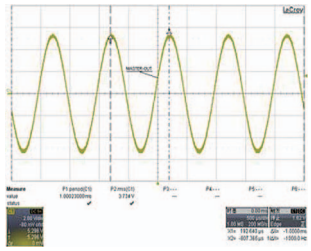
3-4 **-6.5 V** (IC100/101/202 Pin 4)



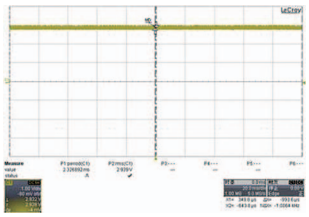
4-5 **LRCK** (IC200 Pin 3)



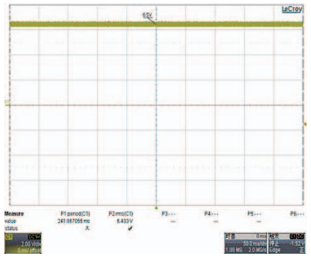
4-10 (IC201/202 Pins 7/1)



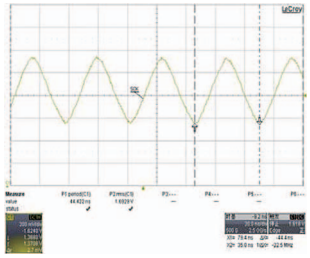
5-5 **MD** (IC200 Pin 13)



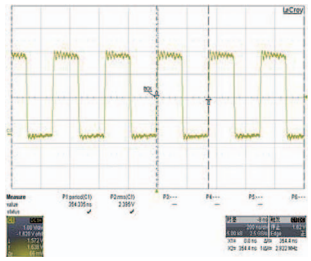
4-1 **6.5 V** (IC201/202 Pin 8)



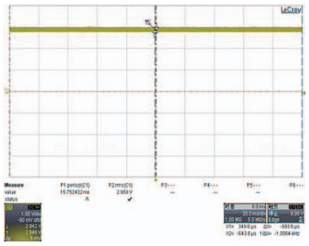
4-6 **SCK** (IC200 Pin 16)



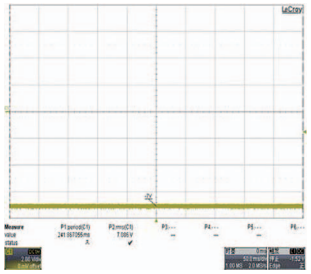
5-1 **BCK** (IC200 Pin 1)



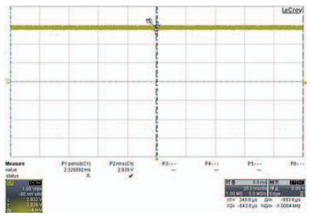
5-6 **MC** (IC200 Pin 14)



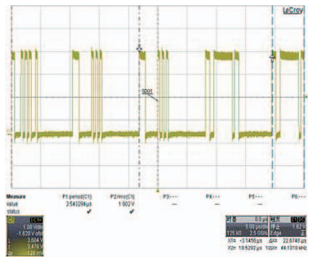
4-2 **-6.5 V** (IC201/202 Pin 4)



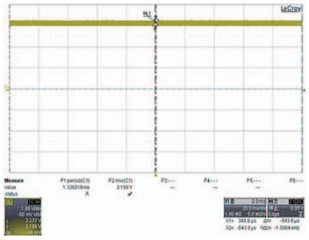
4-7 **MD** (IC200 Pin 13)



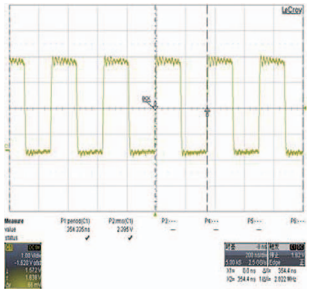
5-2 **SDO1** (IC200 Pin 2)



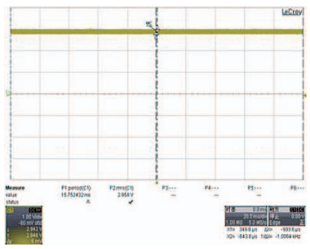
5-7 **ML1** (IC200 Pin 15)



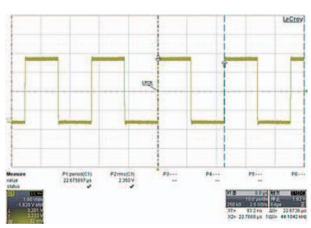
4-3 **BCK** (IC200 Pin 1)



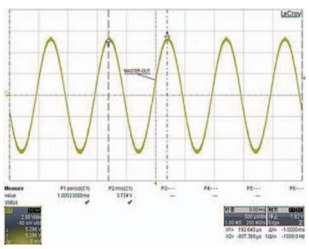
4-8 **MC** (IC200 Pin 14)



5-3 **LRCK** (IC200 Pin 3)



5-8 (IC201/202 Pins 7/1)



A

B

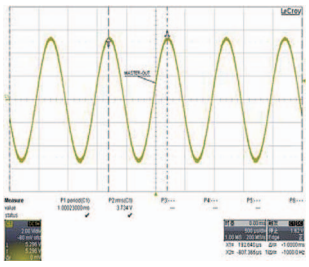
C

D

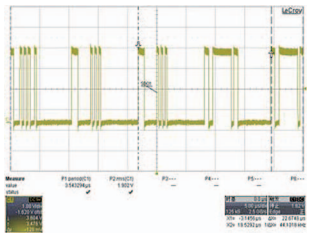
E

F

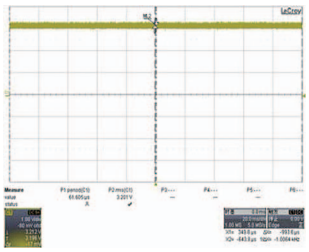
5-9 **R/L Channel** (CN501 Pins 1, 3)



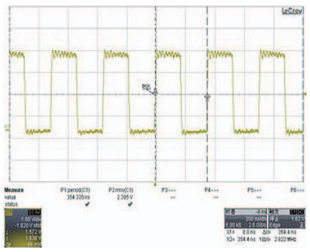
6-5 **SDO1** (IC300 Pin 2)



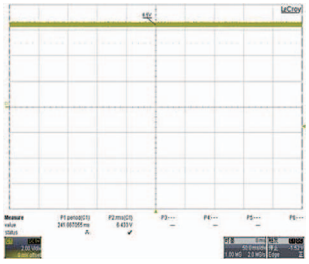
6-10 **ML2** (IC300 Pin 15)



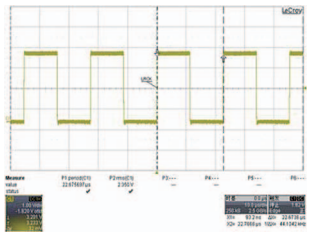
7-4 **BCK** (IC300 Pin 1)



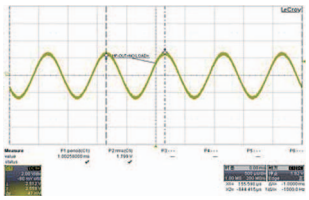
6-1 **6.5 V** (IC301 Pin 8)



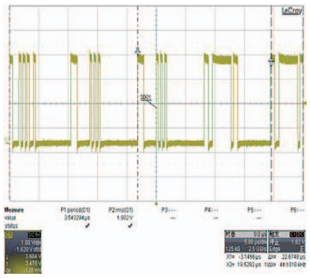
6-6 **LRCK** (IC300 Pin 3)



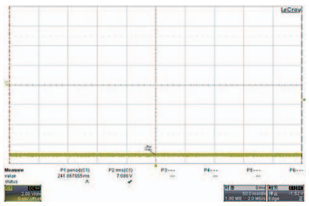
6-11 (IC302 Pin 8)



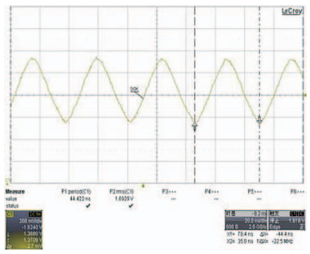
7-5 **SDO1** (IC300 Pin 2)



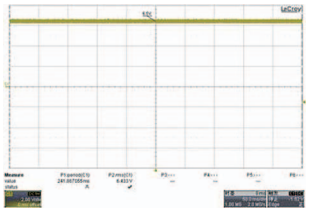
6-2 **-6.5 V** (IC301 Pin 4)



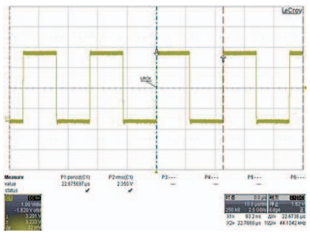
6-7 **SCK** (IC300 Pin 16)



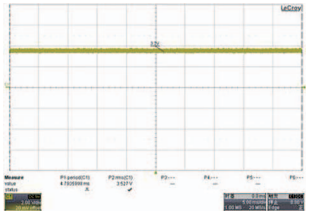
7-1 **6.5 V** (IC301 Pin 8)



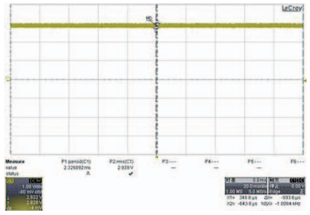
7-6 **LRCK** (IC300 Pin 3)



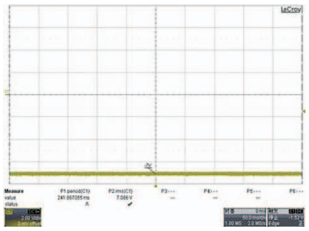
6-3 **3.3 V** (IC302 Pins 2/9)



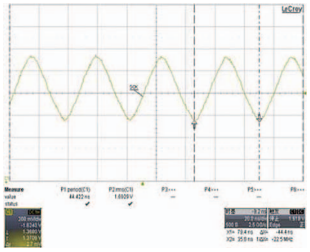
6-8 **MD** (IC300 Pin 13)



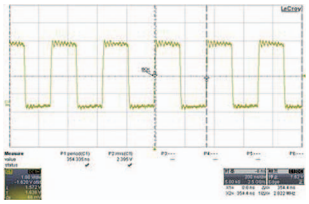
7-2 **-6.5 V** (IC301 Pin 4)



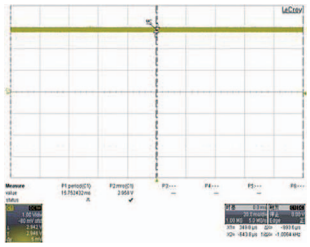
7-7 **SCK** (IC300 Pin 16)



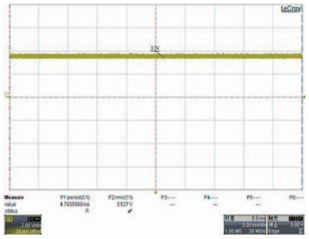
6-4 **BCK** (IC300 Pin 1)



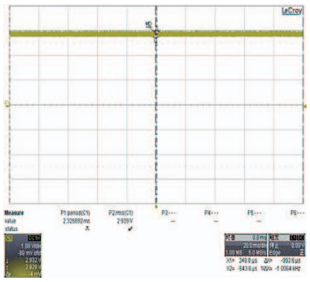
6-9 **MC** (IC300 Pin 14)



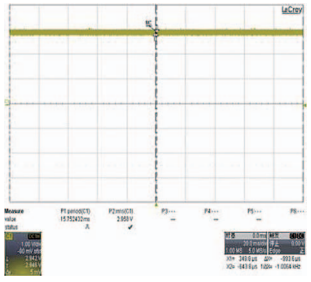
7-3 **3.3 V** (IC302 Pins 2/9)



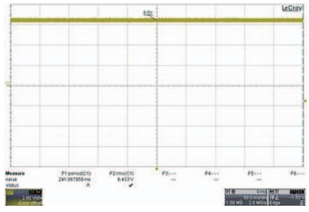
7-8 **MD** (IC300 Pin 13)



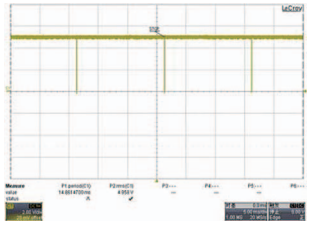
7-9 **MC** (IC300 Pin 14)



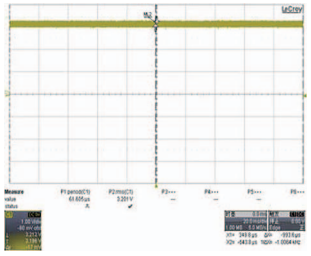
8-2 **6.5 V** (CN502 Pin 4)



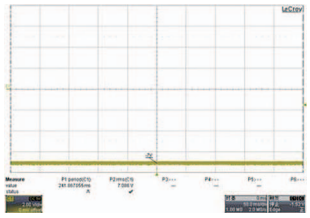
8-7 **STCP** (IC607/608 Pin 12)



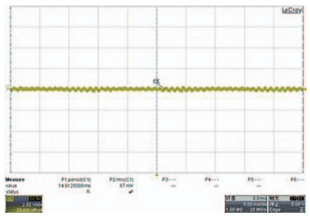
7-10 **ML2** (IC300 Pin 15)



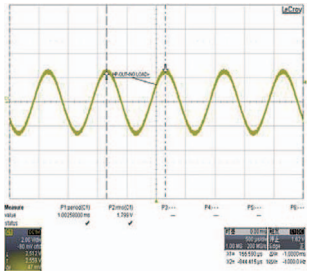
8-3 **-6.5 V** (CN502 Pin 2)



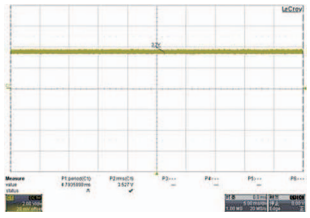
8-8 **OE** (IC607/608 Pin 13)



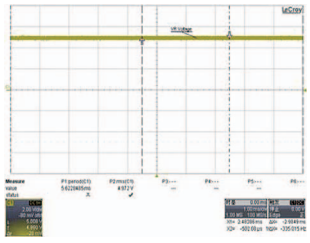
7-11 (IC302 Pin 8)



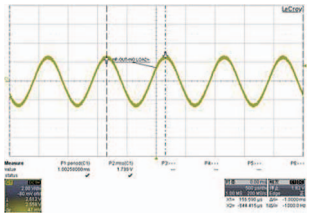
8-4 **3.3 V** (C17 + side)



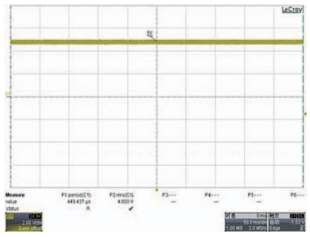
9-1 **VR Voltage**



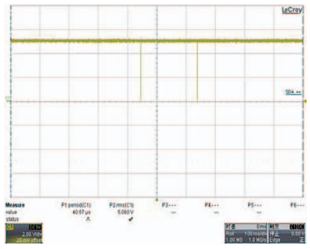
7-12 **R/L** (JK301/302)



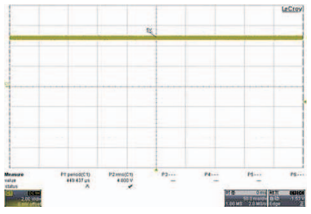
8-5 **5 V** (IC607/608 Pin 16)



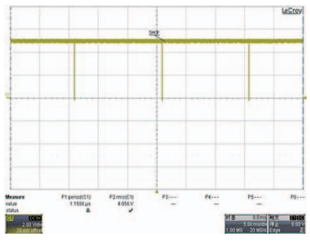
9-2 **SDA** (IC600 Pin 68)



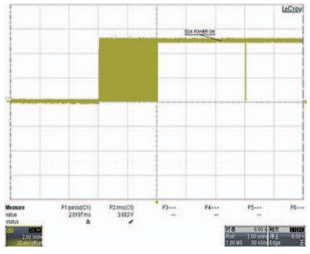
8-1 **5 V** (JK501 Pin 1)



8-6 **SHCP** (IC607/608 Pin 11)



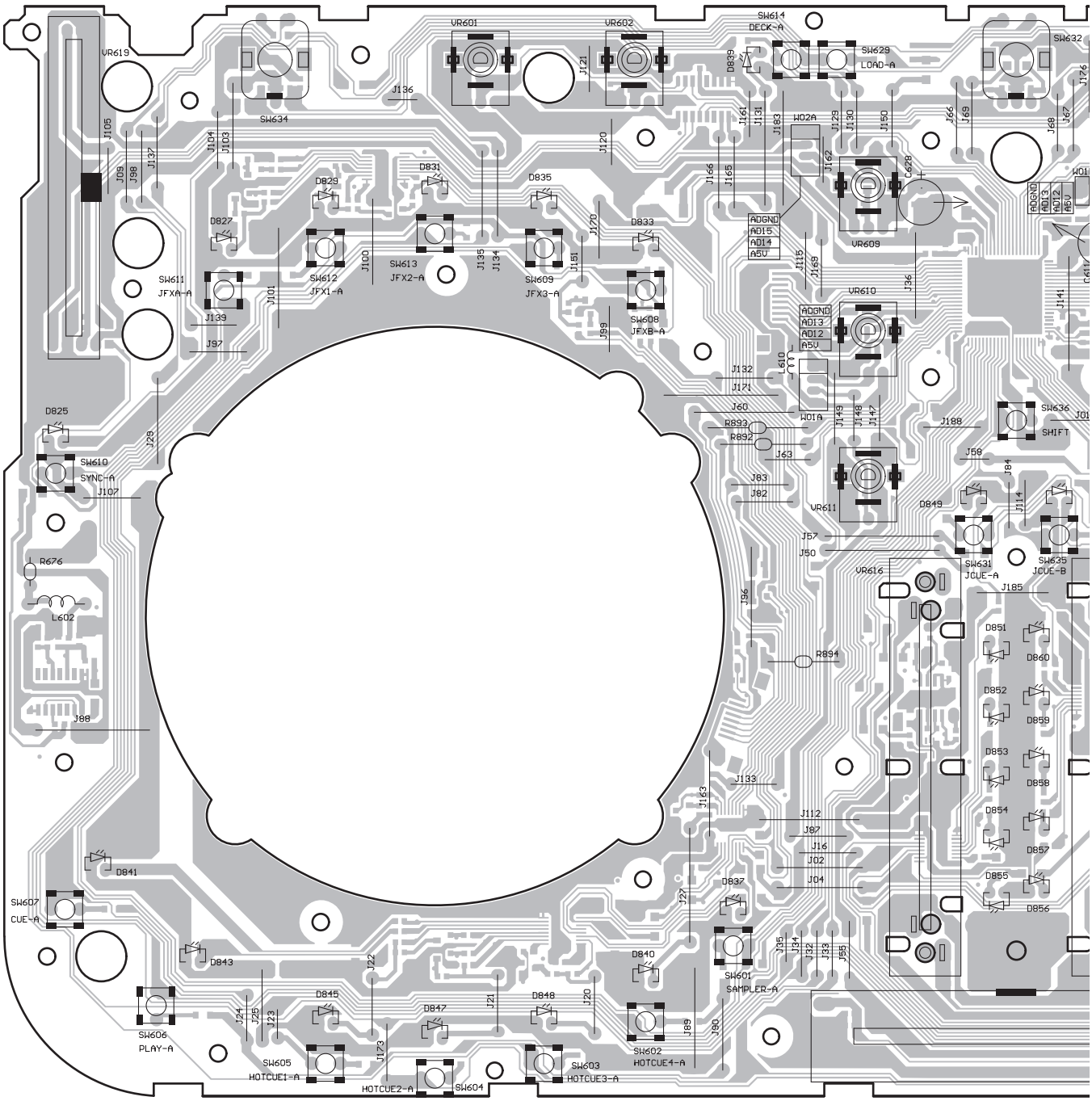
10-1 **POWER ON SDA**



11. PCB CONNECTION DIAGRAM
11.1 CONTROL PCB ASSY

SIDE A

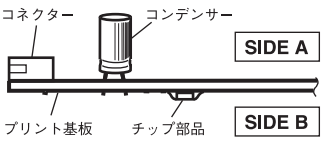
A CONTROL PCB ASSY



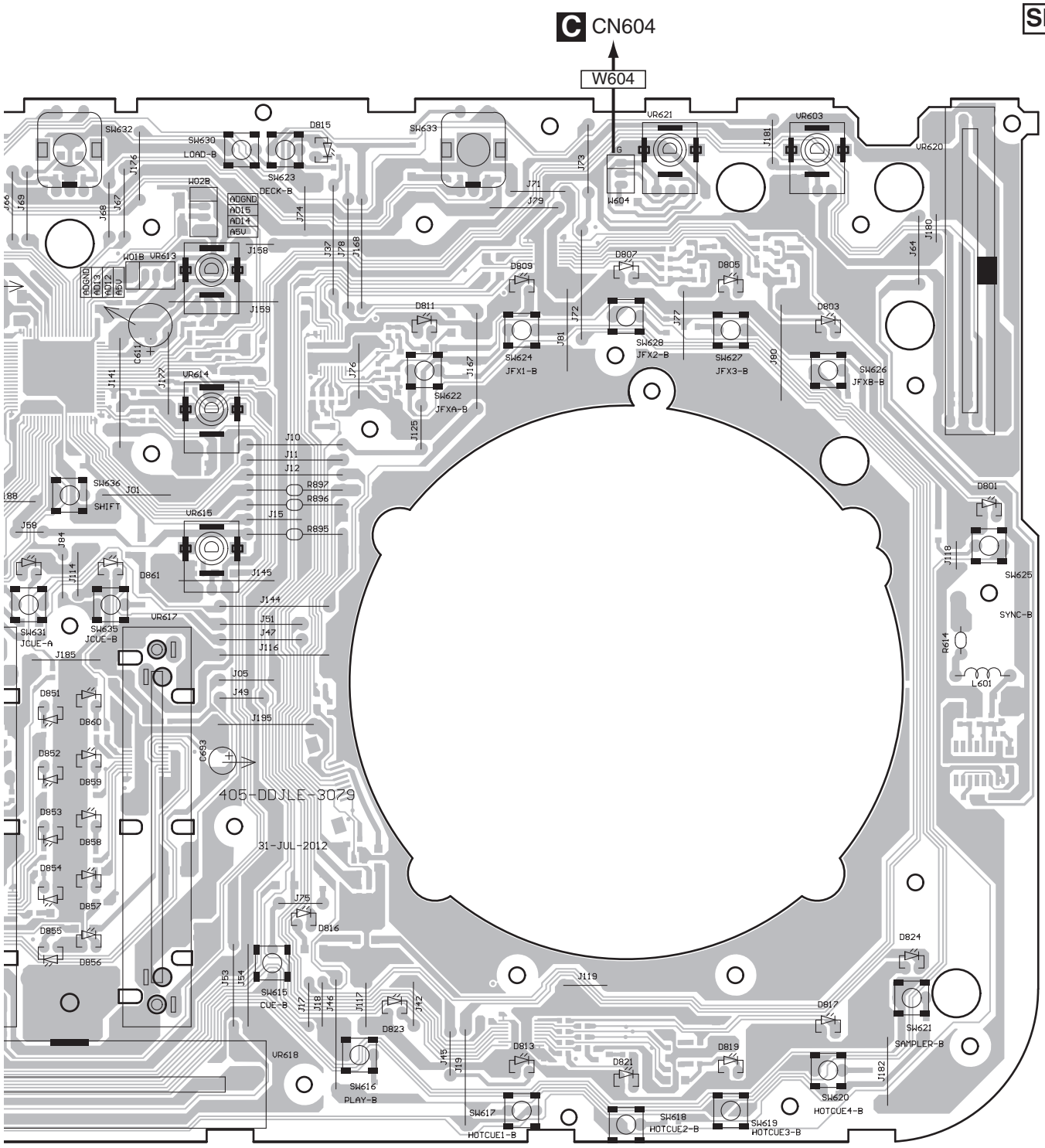
PCB 図に対する注意

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。



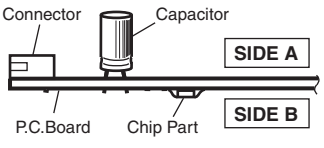
SIDE A



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.

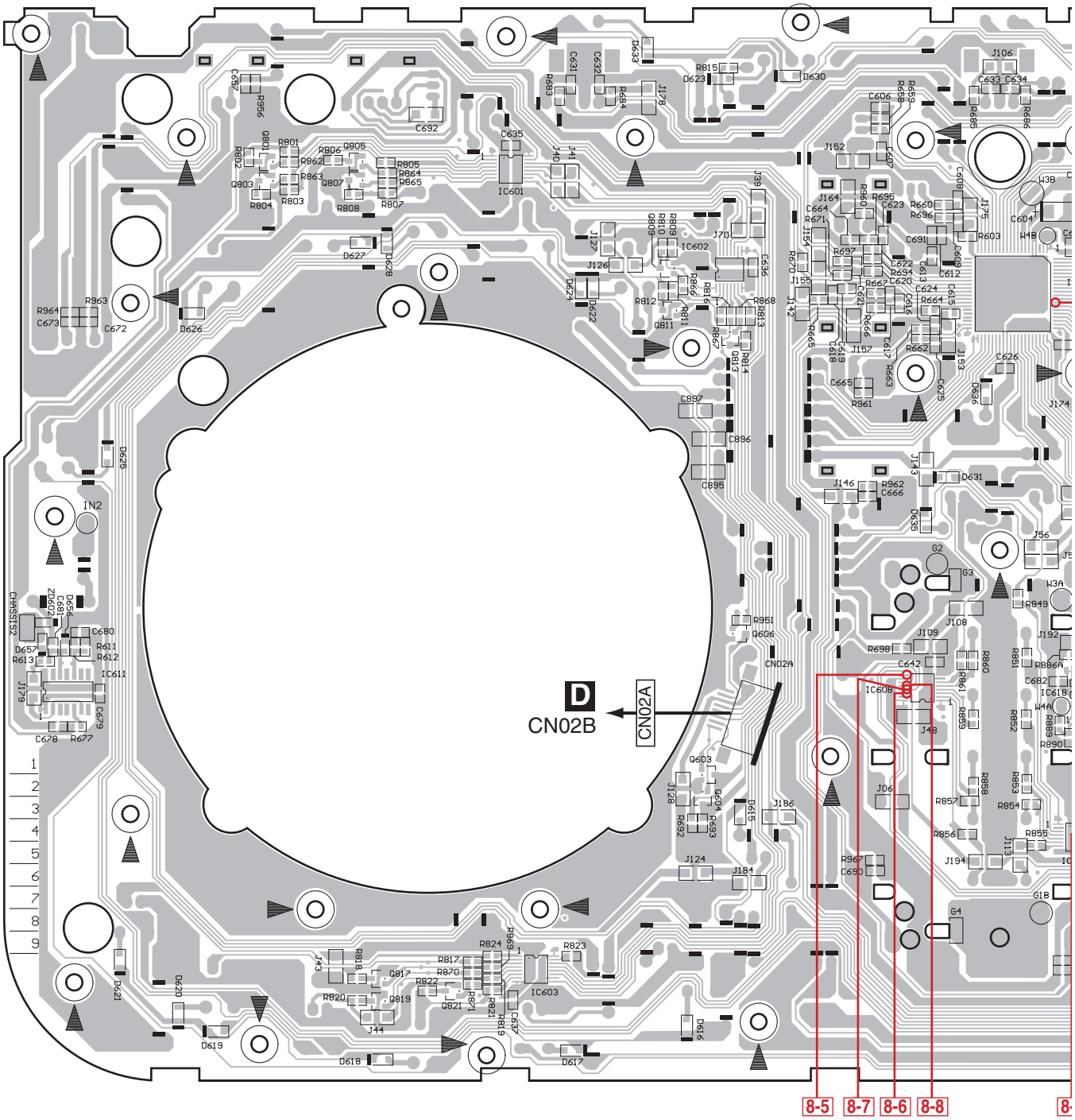
2. View point of PCB diagrams.



DDJ-WEGO-K

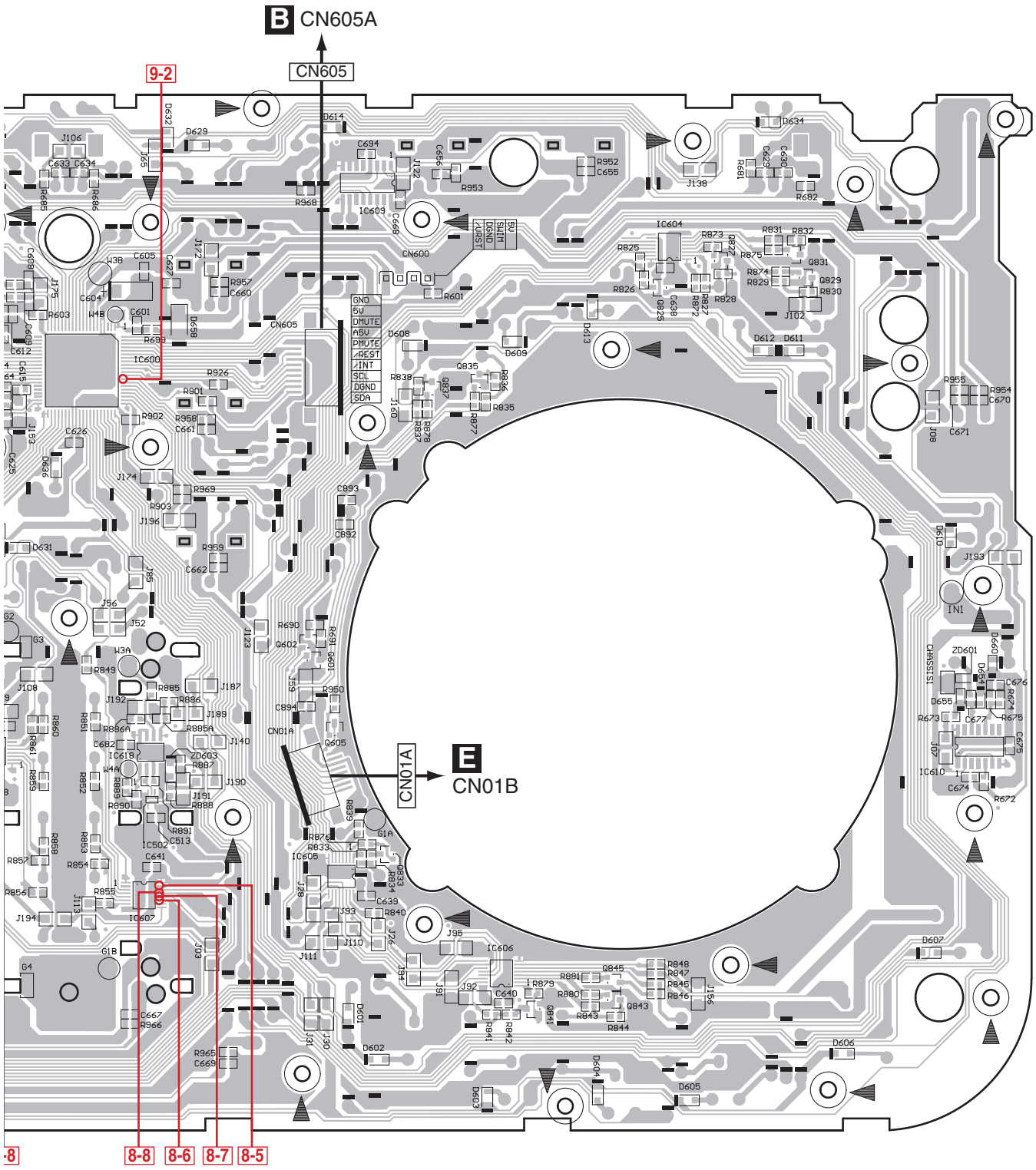
SIDE B

A CONTROL PCB ASSY



Q801 Q805 IC601 Q809 IC602 IC600
IC611 Q803 Q807 Q811 Q813
Q817 Q821 IC603 Q603Q606 IC608
Q819 Q604

SIDE B

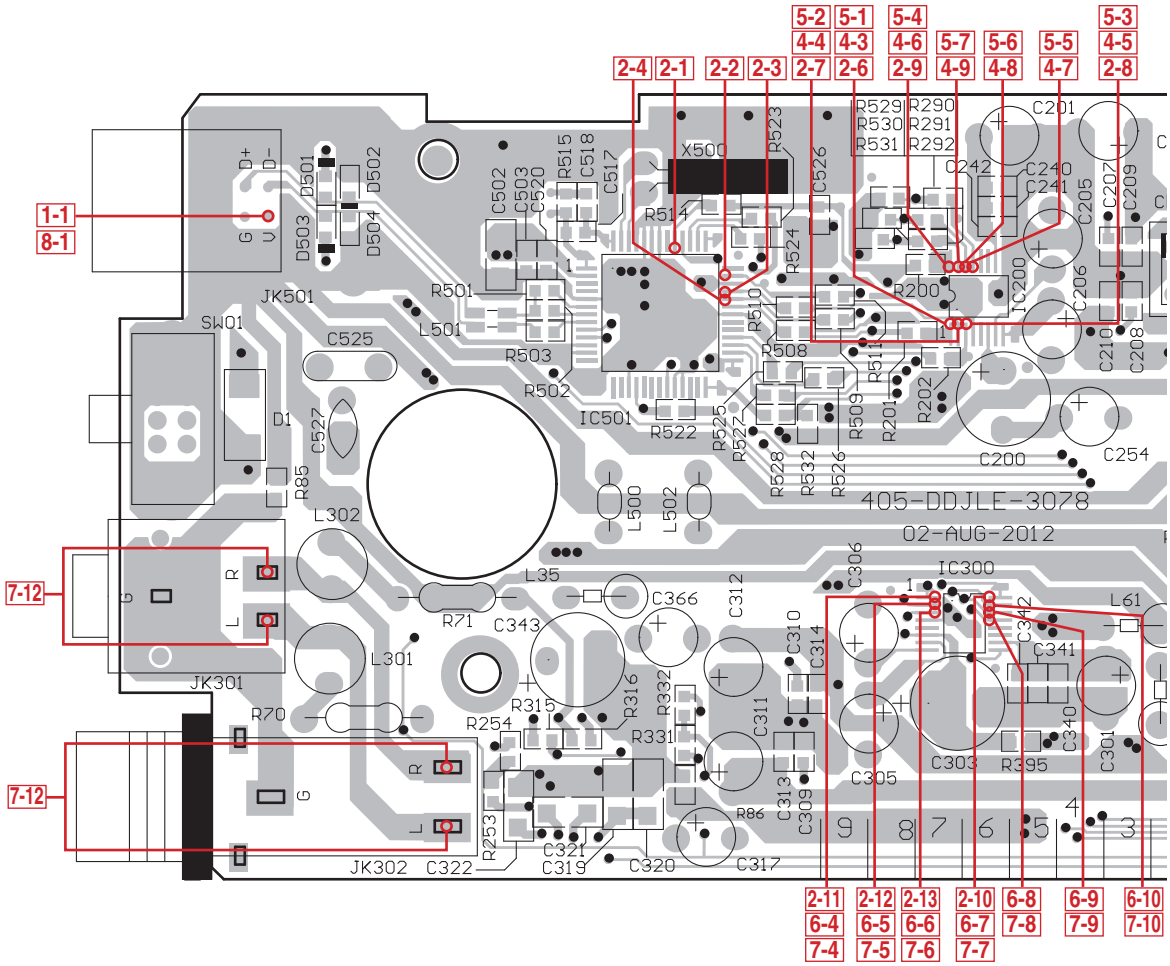


IC600 IC609 Q837 Q835 IC604 Q827 Q831
Q602 Q825 Q829
8 IC618 Q601 IC610
IC502 Q605 Q833 IC606 Q845
IC607 IC605 Q841 Q843

11.2 IO PCB ASSY

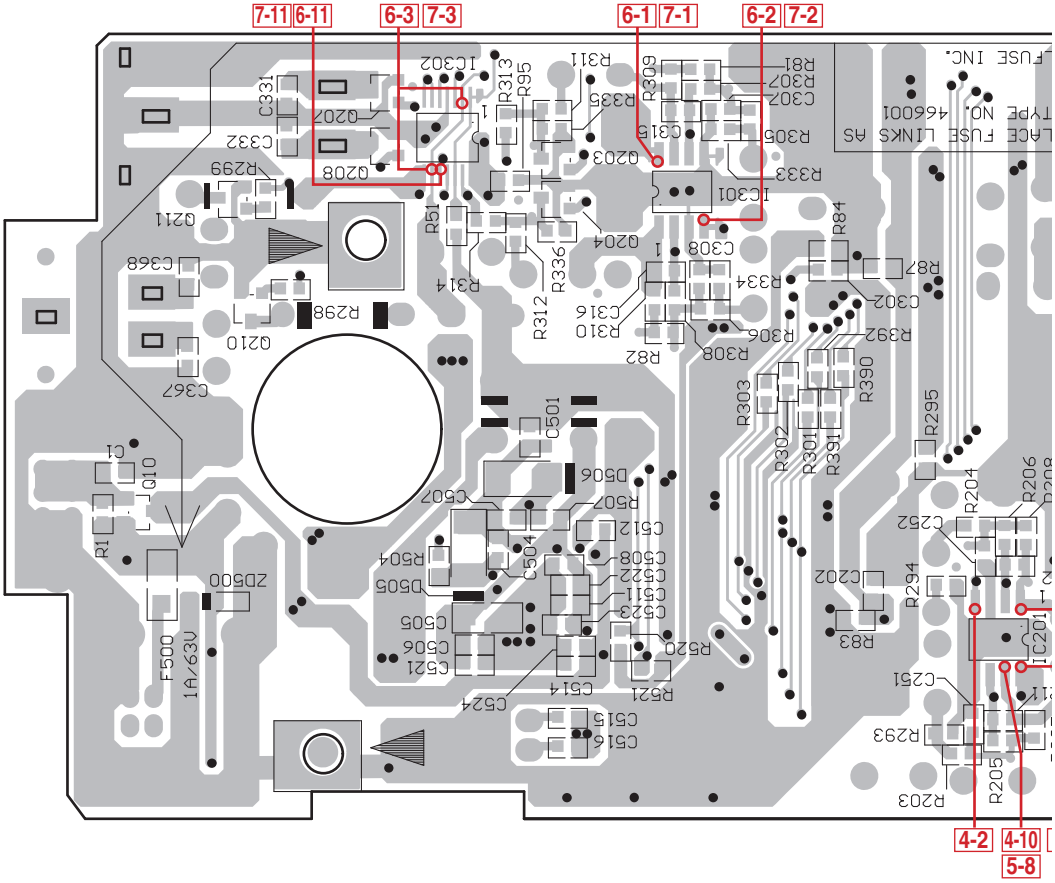
SIDE A

B IO PCB ASSY



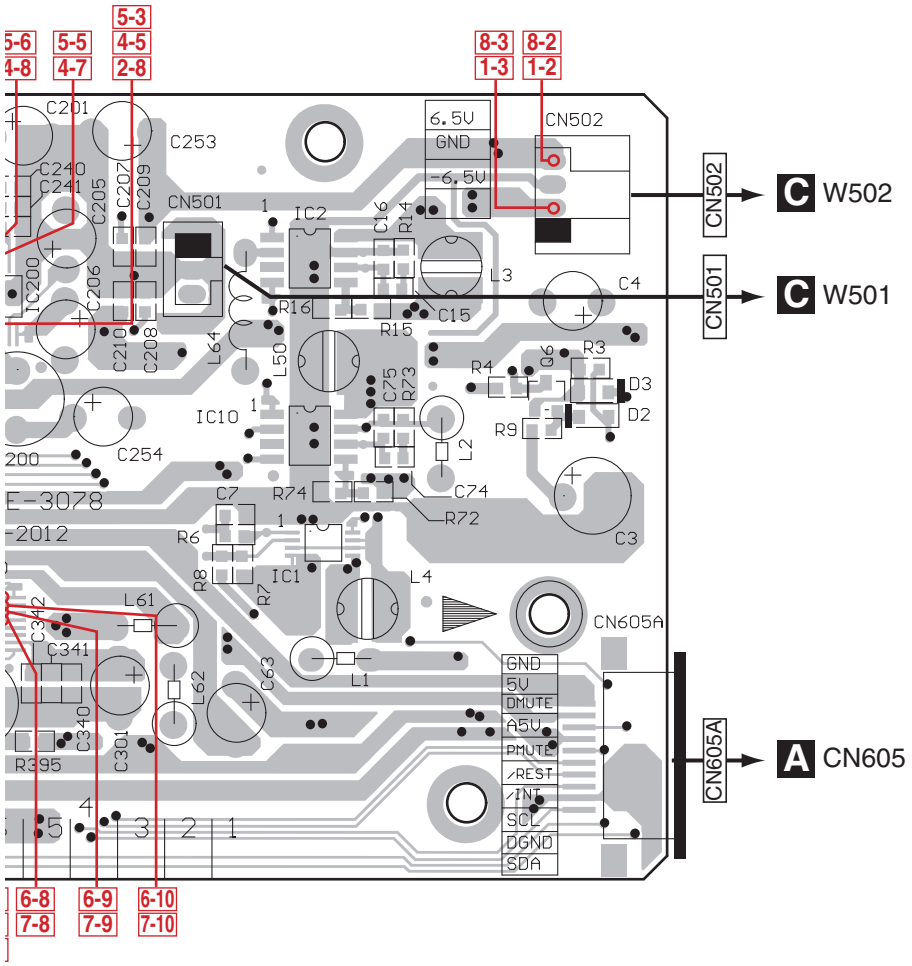
SIDE B

B IO PCB ASSY



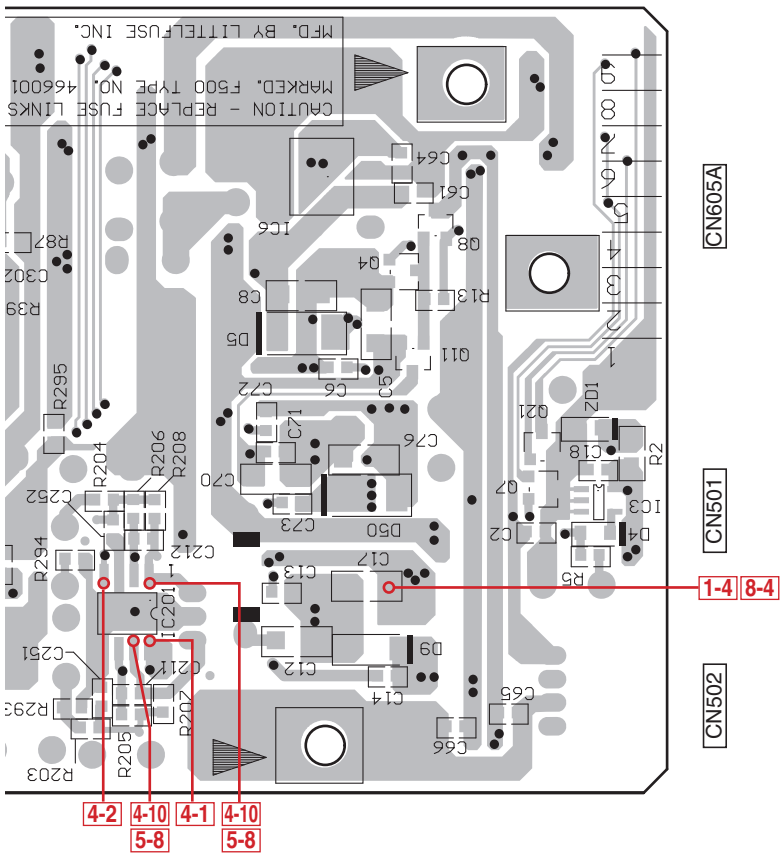
B

SIDE A



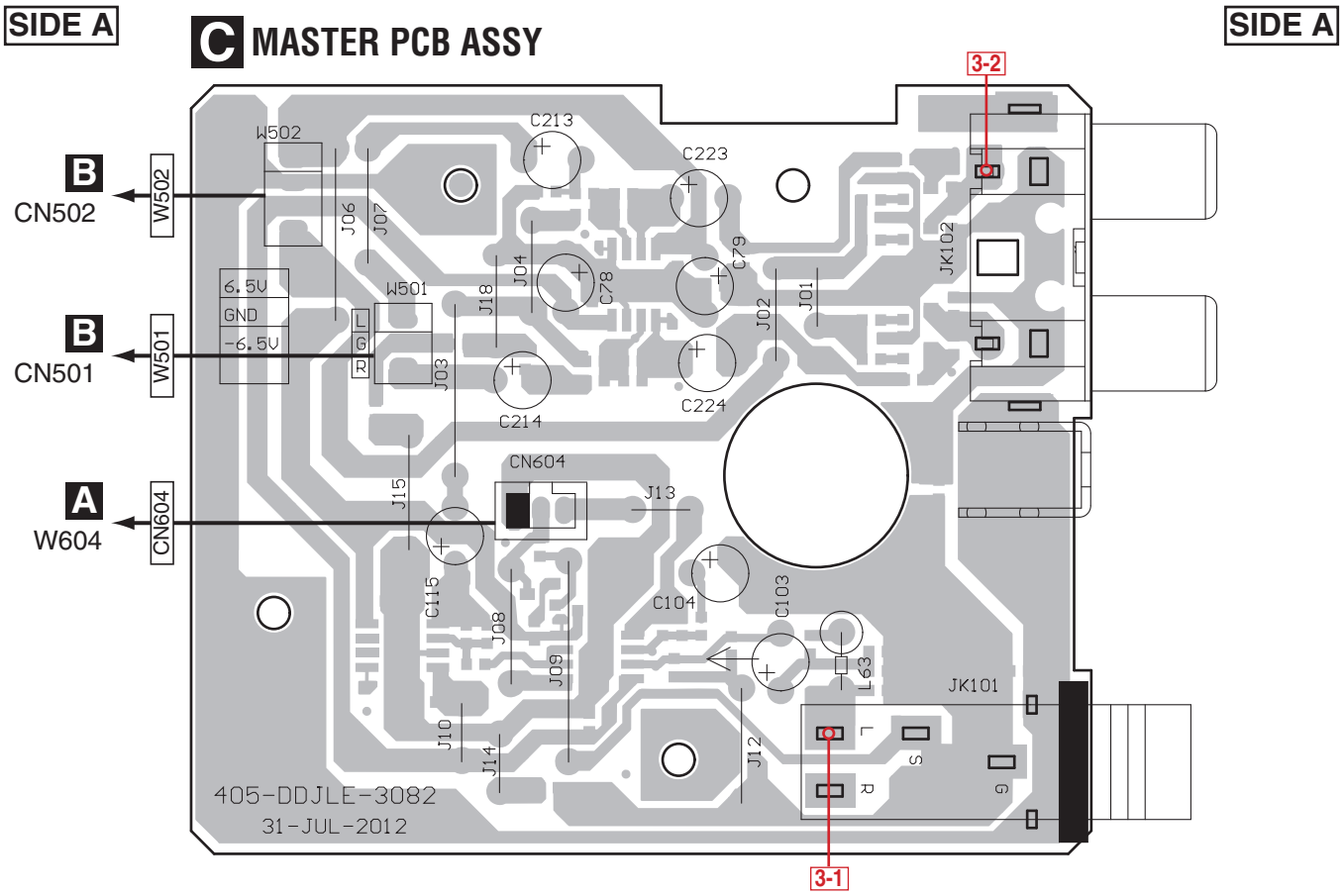
IC2
IC200
IC501
Q6
IC10
IC1
IC300

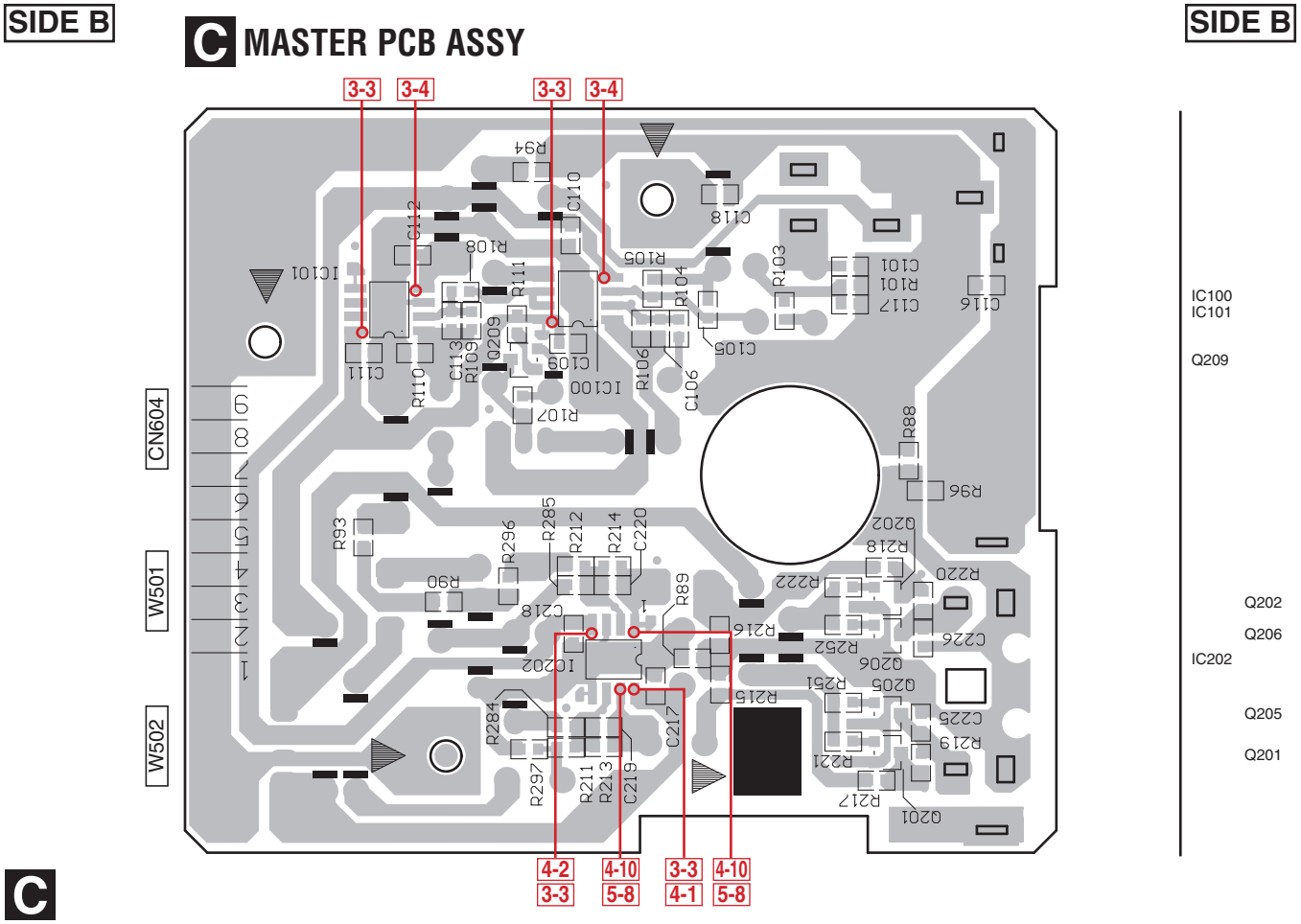
SIDE B



Q207
Q208
IC302
Q203
Q211
Q204
IC301
IC6
Q8
Q210
Q4
Q10
Q21
Q10
Q7
IC3
IC201

11.3 MASTER PCB ASSY

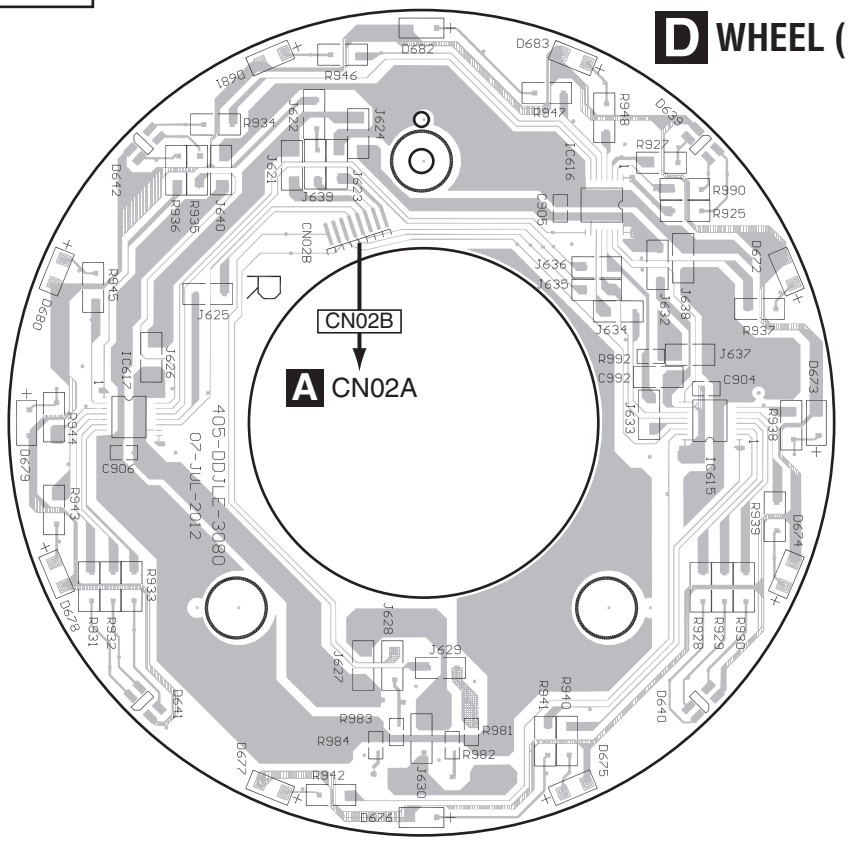




11.4 WHELL (R) PCB ASSY

SIDE A

D WHEEL (R) PCB ASSY

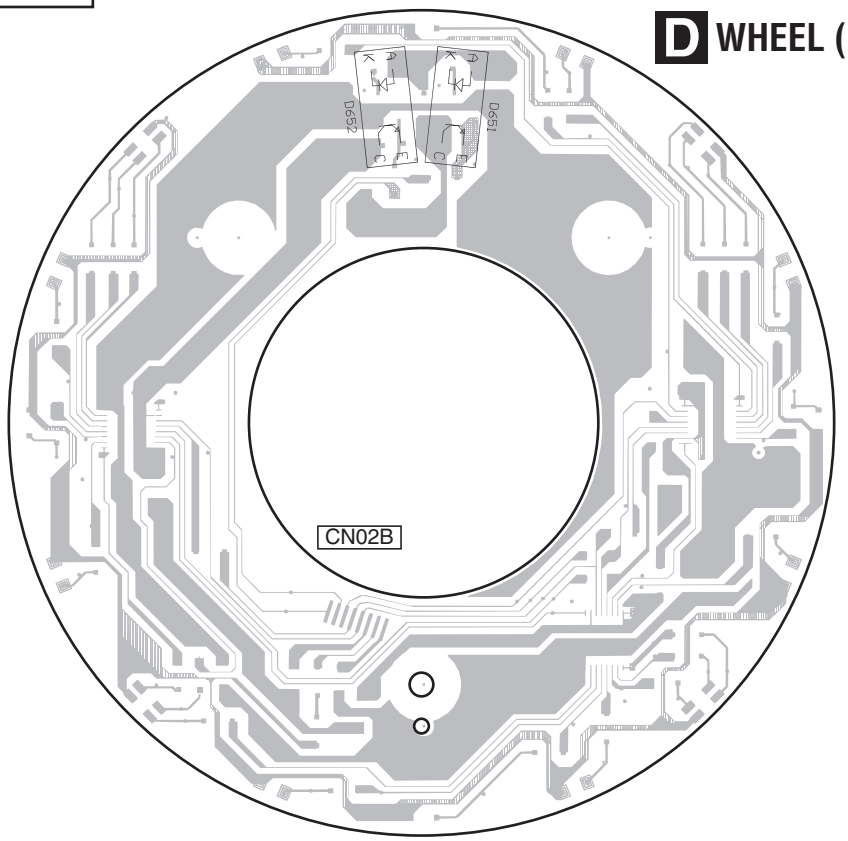


IC616

IC617 IC615

SIDE B

D WHEEL (R) PCB ASSY

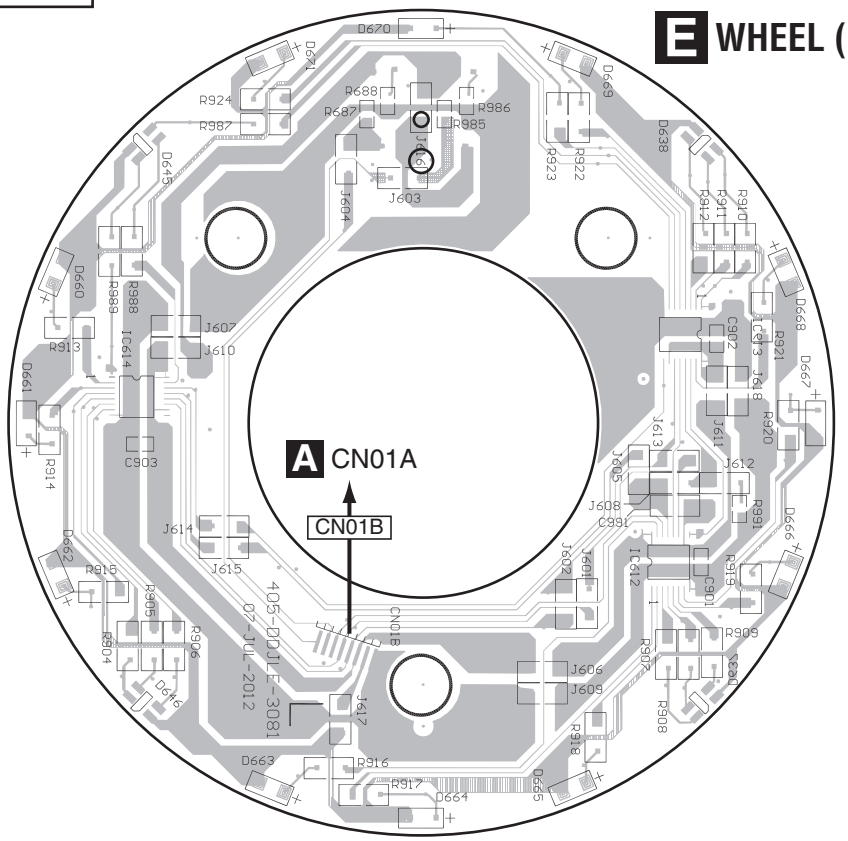


11.5 WHEEL (L) PCB ASSY

SIDE A

SIDE A

E WHEEL (L) PCB ASSY



IC613

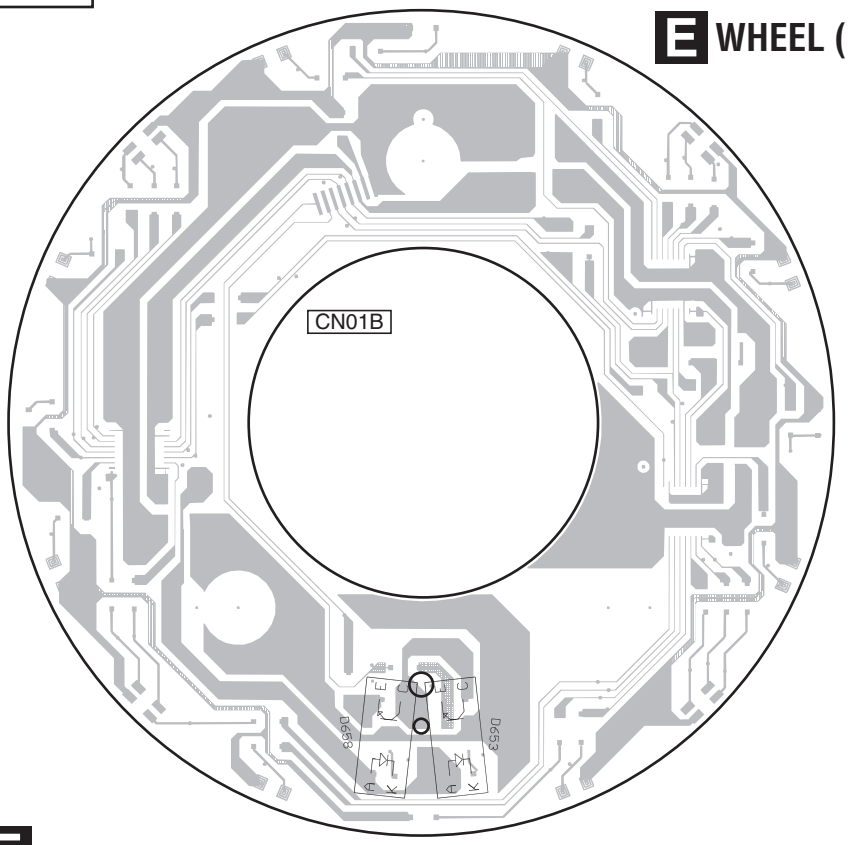
IC614

IC612

SIDE B

SIDE B

E WHEEL (L) PCB ASSY



E

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.*

● *Although the cables that are directly mounted on each PCB Assy are listed individually as electrical parts of the corresponding PCB Assy in the parts list, those cables are included with each PCB Assy for service when it is supplied.*

LIST OF ASSEMBLIES

Mark	No.	Description	Part No.
	1	.CONTROL PCB ASSY	704-DDJLE-A368
	1	.IO PCB ASSY	704-DDJLE-A367
	1	.MASTER PCB ASSY	704-DDJLE-A372
	1	.WHEEL (R) PCB ASSY	704-DDJLE-A370
	1	.WHEEL (L) PCB ASSY	704-DDJLE-A371

A CONTROL PCB ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	502 IC	417-DDJLE-1078
	IC	601-608 IC	417-DDJLE-1080
	IC	610,611 IC	417-RMP3-936
	IC	609 IC	417-QSPAND-432
	Q	601-604 TRANSISTOR	416-CDN88-044
	Q	605,606 TRANSISTOR	416-CTB200-166
	Q	801,803,805,807,809 TRANSISTOR	416-HDJ2460-234
	Q	811,813,817,819,821 TRANSISTOR	416-HDJ2460-234
	Q	825,827,829,831,833 TRANSISTOR	416-HDJ2460-234
	Q	835,837,841,843,845 TRANSISTOR	416-HDJ2460-234
	D	658 TVS DIODE	414-UDJ200-284
	D	601-636 SWITCHING DIODE	414-CD1000-075
	D	815,839 LED	410-HDJ2000-162
	D	801,803,805,807,809 LED	410-DJ5000-253V
	D	811,813,816-819,821 LED	410-DJ5000-253V
	D	823-825,827,829,833 LED	410-DJ5000-253V
	D	835,837,840,841,843 LED	410-DJ5000-253V
	D	845,847-849,851-861 LED	410-DJ5000-253V
	D	931 LED	410-DJ5000-253V
	ZD	601,602,654-657,660 ESD DIODE	414-RMP3-285
	ZD	603 DIODE	414-DDJLE-332

MISCELLANEOUS

Mark	No.	Description	Part No.
	SW	606,607,615,616 SWITCH	403-DDJLE-416
	L	601,602,610 COIL	415-HT8015-040
	CN	01A,02A CONNECTOR	404-PDJ33-3584
	CN	605A 10P 1.0 FFC SOCKET	404-PDJ22-3567
		CHASSISI/2 WIRE	406-DDJLE-1229
	W	604 WIRE HARNESS	404-DDJLE-3722
		SW632-634 ENCODER	403-DDJLE-418
		WT01A to 01B, 02A to 02B WIRE HARNESS	404-DDJLE-3721
	G	2 WIRE	406-DDJLE-1230
		SW601-605,608-614,617-631 TACT SW	403-MC2-383
		SW635,636 TACT SW	403-MC2-383
	W	3A to 3B WIRE	406-DDJLE-1237
	W	4A to 4B WIRE	406-H464-020
	G	1A to 1B WIRE	406-MX200-1110

RESISTORS

Mark	No.	Description	Part No.
	VR	601,609-,611,613-615 VARIABLE RESISTOR	418-MC1000-667
	VR	619,620 VARIABLE RESISTOR	418-DDJLE-691
	VR	616,617 VARIABLE RESISTOR	418-PDJ33-672
	VR	618 VARIABLE RESISTOR	418-DDJLE-690
	VR	602,603,621 VARIABLE RESISTOR	418-SINN7-606
	R	614,676 RESISTOR	412-3113-078
	R	892-897 CARBON FILM RESISTOR	412-3113-058L

CAPACITORS

Mark	No.	Description	Part No.
	C	693 CAPACITOR	413-3113-045
	C	628 CAPACITOR	413-MC6000-1190
	C	604 TANTALUM CAPACITOR	413-MAIE-1211
	C	611 CAPACITOR	413-HT8015-169

B IO PCB ASSY

SEMICONDUCTORS

Mark	No.	Description	Part No.
	IC	302 IC	417-DDJLE-1079
	IC	200,300 IC	417-HP400U-995
	IC	3 IC	417-9000-740
⚠	IC	2,10 IC	417-PDJ33-1045
⚠	IC	1 TRANSISTOR	417-200USB-1071
	IC	201,301 IC	417-ST150-599
⚠	IC	6 IC	417-U101-497
	Q	7 TRANSISTOR	416-S300-327
	Q	8,10,11 TRANSISTOR	416-UDJ200-347
	Q	4,21 TRANSISTOR	416-CDN88-044
	Q	203,204,207,208,210 TRANSISTOR	416-3000-378
	Q	211 TRANSISTOR	416-3000-378
	Q	201,202,205,206 INDUCTANCE	415-USOLOPA-342
	D	658 TVS DIODE	414-UDJ200-284
	D	1 TVS POWER ZENER	414-F300-289
	D	5,9,50 DIODE	414-007USB-148
	D	502,504 ESD DIODE	414-DJ1100G-207
	D	601-D636 SWITCHING DIODE	414-CD1000-075
	ZD	500 ESD DIODE	414-RMP3-285

MISCELLANEOUS

Mark	No.	Description	Part No.
	JK	101 JACK GROUND PLATE 3	00-300-1171
	L	4 INDUCTOR	415-DDJLE-407
	L	500,502 MICRO INDUCTOR	415-RCC955A-094
	L	501 COMMON MODE CHOKE	415-JKME3-370
	L	50 POWER CHOKE	415-MC6000-356
	JK	301 HEADPHONE JACK	420-HDJ7100-063
	JK	501 USB JACK	420-007USB-150
	JK	302 3P HEADPHONE	420-CDMIX1-086
⚠	F	500 IC	422-120-063
	L	3 INDUCTOR	415-DDJLE-406
	L	1,2,61,62 BEAD	415-DCM370E3-134
	L	301,302 INDUCTOR	415-CDMIX1-139
	CN	01A,02A 10P 1.0 FFC SOCKET	404-PDJ22-3567
	JK	501 GROUND PLATE	300-1000-1908

Mark	No.	Description	Part No.
	CN 501	3P SOCKET	404-HP1010K-259A
	SW 01	SLIDE SW	403-DV300-5007
	CN 502	4P SOCKET	404-DCM270E3-878A
	X 500	OSC (6 MHz)	427-DJ2500-049

RESISTORS

	R 70,71	CARBON FILM RESISTOR	412-KM501-293

CAPACITORS

	C 63	ELEC.CAPACITOR	413-CDMIX2-631
	C 317,366	ELEC.CAPACITOR	413-DV300-5156
	C 3	ELEC.CAPACITOR	413-HT801K-192
	C 525	PORYESTER CAPACITOR	413-QSPAND-632
	C 201,205,206,253,254	ELEC.CAPACITOR	413-SPPW3-235
	C 301,305,306,311,312	ELEC.CAPACITOR	413-SPPW3-235
	C 200,303	ELEC.CAPACITOR	413-007USB-828
	C 527	CERAMIC CAPACITOR	413-1430-071
	C 4	ELEC.CAPACITOR	413-810-920

C MASTER PCB ASSY

SEMICONDUCTORS

	IC 100,101,202	IC	417-ST150-599
	Q 201,202,205,206	TRANSISTOR	416-3000-378

MISCELLANEOUS

	JK 101	JACK GROUND PLATE	300-300-1171
	L 63	BEAD	415-DCM370E3-134
	JK 101	MIC JACK	420-Q3433-107
	0	FIXED PLATE	300-4500-2010A
	W 501	CONNECTOR WIRE	404-DDJLE-3719
	JK 102	GROUND PLATE	300-33-1917
	W 502	CONNECTOR WIRE	404-DDJLE-3720
	JK 102	2P RCA JACK	420-100U-256
	CN 604	3P SOCKET	404-HP1010K-259A

CAPACITORS

	C 103	CAPACITOR	413-SP2U-1136
	C 104	CAPACITOR	413-SPPW3-236
	C 115,223,224	ELEC.CAPACITOR	413-SPPW3-235
	C 213,214	CAPACITOR	413-HT801K-191
	C 78,79	CAPACITOR	413-CDVD2001-265

D WHEEL (R) PCB ASSY

SEMICONDUCTORS

	IC 615-617	IC	417-DDJLE-1080
	D 651,652	SENSOR	417-HDJ2000-411

MISCELLANEOUS

	CN 02B	FFC CABLE	406-DDJLE-1226

E WHEEL (L) PCB ASSY

SEMICONDUCTORS

	IC 612-614	IC	417-DDJLE-1080
	D 653,658	SENSOR	417-HDJ2000-411

MISCELLANEOUS

	CN 01B	FFC CABLE	406-DDJLE-1226