

*Service
Manual*



RMX-IGNITE

ORDER NO.
DRT2040

DJ EFFECTOR
RMX-IGNITE /UXJ



SAFETY INFORMATION

!

This service manual is intended to support DIY enthusiasts and AlphaTheta Corporation is not responsible for repairs to or replacement of your product if damage occurs during a self-repair. You understand and agree that any self-repairs on your product are done solely at your own risk and that AlphaTheta Corporation shall have no liability for any damage occurring as a result of a self-repair. It is strongly advised that a trained and qualified individual performs the repairs properly and safely. If you are not qualified to perform repairs on this product in a proper and safe manner, you should not attempt to do so and instead refer the repair to a qualified service technician.

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1. SPECIFICATIONS

Power requirements	AC 100 V – 240 V, 50 Hz/60 Hz	A
Rated current	1.2 A	
Rated output	DC 5 V, 3.0 A/DC 9 V, 3.0 A/DC 12 V, 3.0 A/DC 15 V, 3.0 A/DC 20 V, 2.25 A	

General – Main Unit

Power consumption	DC 15 V, 3.0 A	
Power consumption (OFF)	0.3 W	
Main unit weight	2.3 kg (5.1 lbs.)	
Max. external dimensions	(W × D × H) 340.0 × 213.3 × 72.8 mm / 13.4" × 8.4" × 2.9"	
Tolerable operating temperature	5 °C – +35 °C (+41 °F – +95 °F)	
Tolerable operating humidity	5 % – 85 % (no condensation)	

Sampling rate	96 kHz	B
A/D, D/A converter	32bit	
Frequency response	20 Hz – 40 kHz	
S/N ratio (rated output, A-WEIGHTED)		
CONNECTION switch (MST)	115 dB	
CONNECTION switch (SEND/RETURN)	14 dB	
CONNECTION switch (CDJ)	108 dB	
Total harmonic distortion (20 Hz – 20 kHz BW)	0.0018 %	
Standard input level / Standard output level		
CONNECTION switch (MST)	+4 dBu/+4 dBu	
CONNECTION switch (SEND/RETURN)	-7.8 dBu/-7.8 dBu	
CONNECTION switch (CDJ)	-6 dBu/-12 dBu	
Input impedance	47 kΩ	
Rated output level / Load impedance		C
CONNECTION switch (MST)	21 dBu/10 kΩ	
CONNECTION switch (SEND/RETURN)	12 dBu/10 kΩ	
CONNECTION switch (CDJ)	3 dBu/10 kΩ	

Input / Output terminals

INPUT terminals 1/4" TS jack	1 set	
OUTPUT terminals 1/4" TS jack	1 set	
USB Type-A terminal (for SAMPLER)	1 set	
Power supply	5 V/1 A or less	
USB Type-C terminal (for MULTI I/O, AC adapter)	2 sets	
LINK terminal LAN (100BASE-TX)	1 set	

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

Accessories

AC Adapter x 1
(DWR1613)
Power cord x 1
(XDG3052)
Quick Start Guide x 1
(DRH1846)

Precautions for Use x 1
(DRH1847)

Warranty (some regions)*1 x 1

*1 Only for products for the European market. (The warranty for Japan and North America is printed in the Precautions for Use.)

2. BASIC ITEMS FOR REPAIR

NOTE: The instruction manual explains how to verify that there are no issues with operation, connections, or other functions. Please be sure to check the "Troubleshooting" section (pages 63–67) of the instruction manual before requesting repairs.
You can refer to the instruction manual at the link below.

<https://support.alphatheta.com/en-US/products/51352009960346?section=23>

CHECK POINTS AFTER REPAIR

Items to be checked after repair

To maintain product quality, confirm the recommended check points shown below.

No.	Procedure	Check points
1	Confirm the firmware version.	The firmware must be the latest version. If not the most current version, update the firmware must be latest.
2	Check the analog audio input (INPUT).	Audio and operations must be normal.
3	Check the analog audio output (OUTPUT).	Audio and operations must be normal.
4	Check the connection of each interface.	
	USB for MULTI I/O port (USB Type-C)	When connecting unit to a PC via USB, the message "Audio/Sync data is not available." appears on the [Screen].
	USB for SAMPLER port (USB Type-A)	Insert a USB memory and select BROWSE > TEMPORARY BANK > CREATE NEW > BROWSE > USB > USER to display the folders and files on the USB memory.
	LINK terminal	The LAN is connected successfully.
5	Check the buttons and knobs.	Make sure that all buttons and controls on the Main unit function properly.
6	Check the levers.	Audio and operations must be normal. When the lever is set to the "ON" side and you release your hand, it should return to the center. When set to the "HOLD" side and you release your hand, it should not return to the center. None of the three levers have an operating feel that is different from the other levers.
7	Check the LEDs.	Check that all the LEDs light on.

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

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

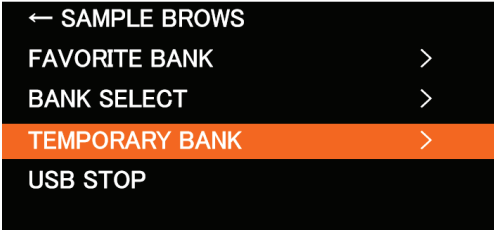
3. CONNECTION CHECK WITH EACH INTERFACE

USB for SAMPLER port (USB Type-A)

Insert a USB memory into the USB for SAMPLER port (USB Type-A) of the unit and check the display on [Screen] to see if it is working properly. A

Prepare a USB memory containing multiple tracks in folders. The operating procedure is as follows:

- ① Insert a USB memory into the USB for SAMPLER port (USB Type-A) of this unit and press the [BROWSE/UTILITY] button to display the [SAMPLE BROWSE] screen.

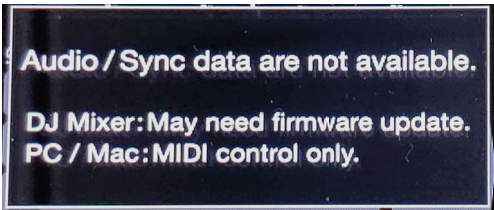


- ② Turn the [Multi encoder] to select [TEMPORARY BANK], then press the [Multi encoder].
- ③ Turn [Multi encoder] to select [CREATE NEW], then press [Multi encoder].
- ④ On the [TEMPORARY BANK] screen, turn the [Multi encoder] to select [BROWSE], then press [Multi encoder].
- ⑤ Turn [Multi encoder] to select [USER], then press [Multi encoder].
- ⑥ When [USB] is displayed, press [Multi encoder]. check that the folders in the USB memory are displayed and that the tracks names in the folders are displayed by pressing [Multi encoder]. B

USB for MULTI I/O port (USB Type-C)

Connect the USB for MULTI I/O port (USB Type-C) of the unit to your PC with a USB cable and check that it is working properly. C
Check using the following steps. Use a Type-C to Type-C USB cable.

- ① Connect the USB for MULTI I/O port (USB Type-C) of the unit to your PC using a USB cable.
- ② Check that the message "Audio/Sync data are not available." is displayed on the [Screen].



D

E

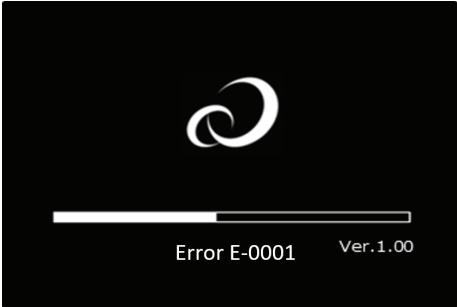
F

4. ERROR INDICATION

Startup errors are detected displayed in the form of "Error E-XXXX" on the [Screen] of the unit.
It is classified into two types: detected by each CPU and GUI displayed or displayed by the lighting pattern of the LED on the unit. Please have repairs performed by a qualified technician. When doing so, please provide the error code or the LED illumination pattern.

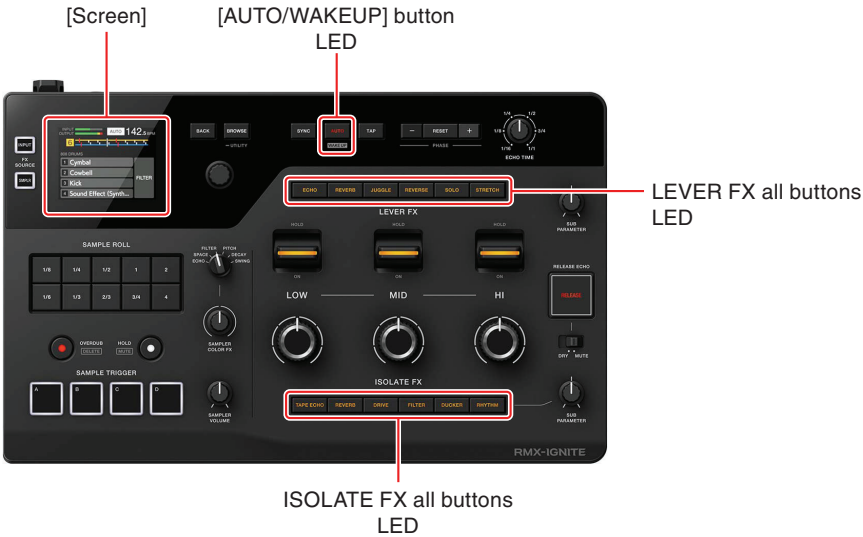
■ GUI display

Display	Meaning
E-0001	Communication Error inter-CPU
E-0004	LAN Reset error
E-0008	DAC setting error
E-1001	ADC setting error



■ LED display

Display	LED	Meaning
[AUTO (WAKE UP)] button LED on the unit flashing. (cycle of 500 ms)	LED of unit	Voltage abnormality was detected.
ISOLATE FX all buttons and LEVER FX all buttons LEDs on the unit flashing. (cycle of 500 ms)	LED of unit	If any of the calibrations have not been performed.



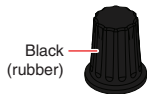
5. DISASSEMBLY

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

Knobs and Volumes Location



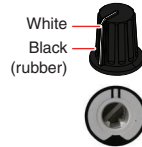
A DAA1362



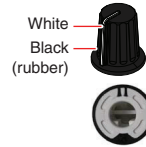
B DAA1512



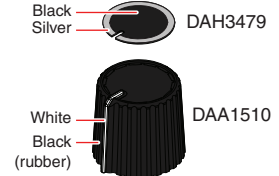
C DAA1514
x4



D DAA1511



E DAA1510
x3



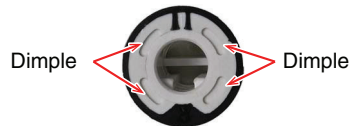
Difference between DAA1514 and DAA1511

There are four dimples on the bottom of the DAA1511.

C DAA1514



D DAA1511

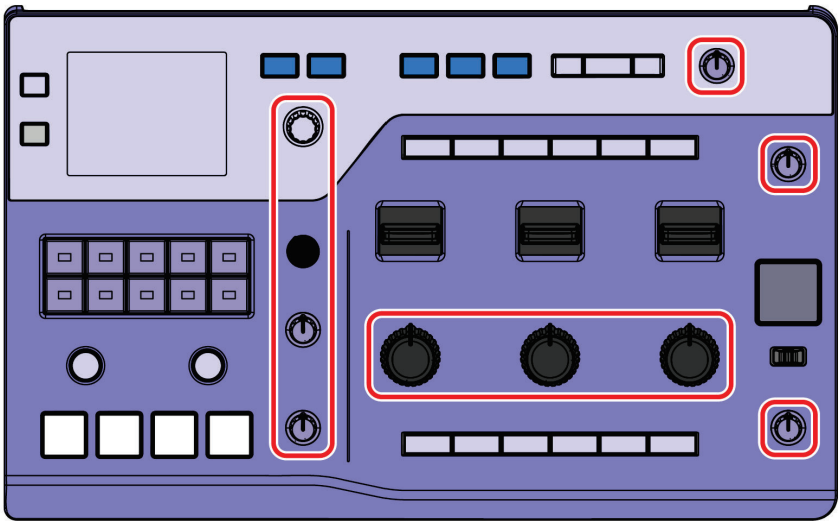


[1] Contol panel Section

[1-1] Knobs

A ① Remove all knobs.

① x10



6. UPDATING AND SETTING

6.1 UPDATING THE FIRMWARE

■ Downloading and Unzipping the Updater File

① Download the zipped firmware file for the latest firmware. Download link URL is bellow.

<https://support.alphatheta.com/en-US/products/51352009960346?section=38>

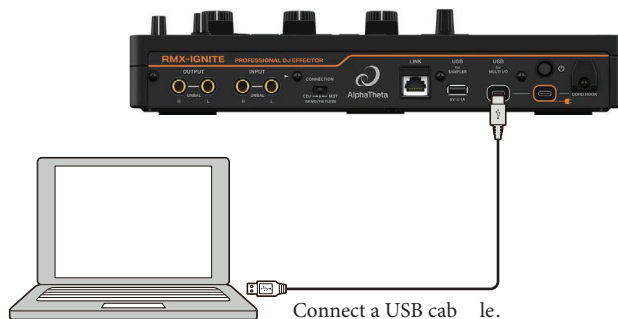
② Extract the ZIP file to any folder on your PC.

The following three files will appear.

- RMX-IGNITEUpdate.exe
- pcupdate.dll
- RMX-IGNITE_****.upd *** is the version number.

■ Preparation for the update

① Connect the product to your computer using a USB cable.



■ How to Update

Caution: Do not turn off the power during the update.

① Turn on the power while holding down the [AUTO WAKE UP] button and [TAP] button. The product will enter update mode and the display will show "UPDATE".



[AUTO (WAKE UP)] button [TAP] button



② Double-click "RMX-IGNITEUpdate.exe".

The update will start. It takes about six minutes to complete.

If an error occurs, start over again from step ①.

※ If an error occurs, the product will automatically enter update mode after restarting.

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6.2 USER SETTABLE ITEMS AND RESTORING THE FACTORY SETTINGS

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.

Item for user's Setting	Setting Value (The factory default settings are indicated in red letters.)	Content to be Stored
MIXER DELAY SYNC	OFF, ON	UTILITY settings
AUTO REF. PLAYER	OFF , 1 to 6	
ANALOG OUT TUNE	WARM, NEUTRAL , COOL	
INPUT MONO/STEREO	MONO, STEREO	
OUTPUT MONO/STEREO	MONO, STEREO	
BRIGHTNESS DISPLAY	1 to 5 , WHITE	
BRIGHTNESS INDICATOR	1 to 3	
MIDI CH	1 to 16	
POWER MANAGEMENT	OFF, ON	

Restoring the factory settings

1. While holding the [AUTO (WAKE UP)] button, press the [Ψ] switch.

The [**FACTORY RESET**] screen appears.



2. Turn the multi encoder to select [YES], then press the multi encoder.

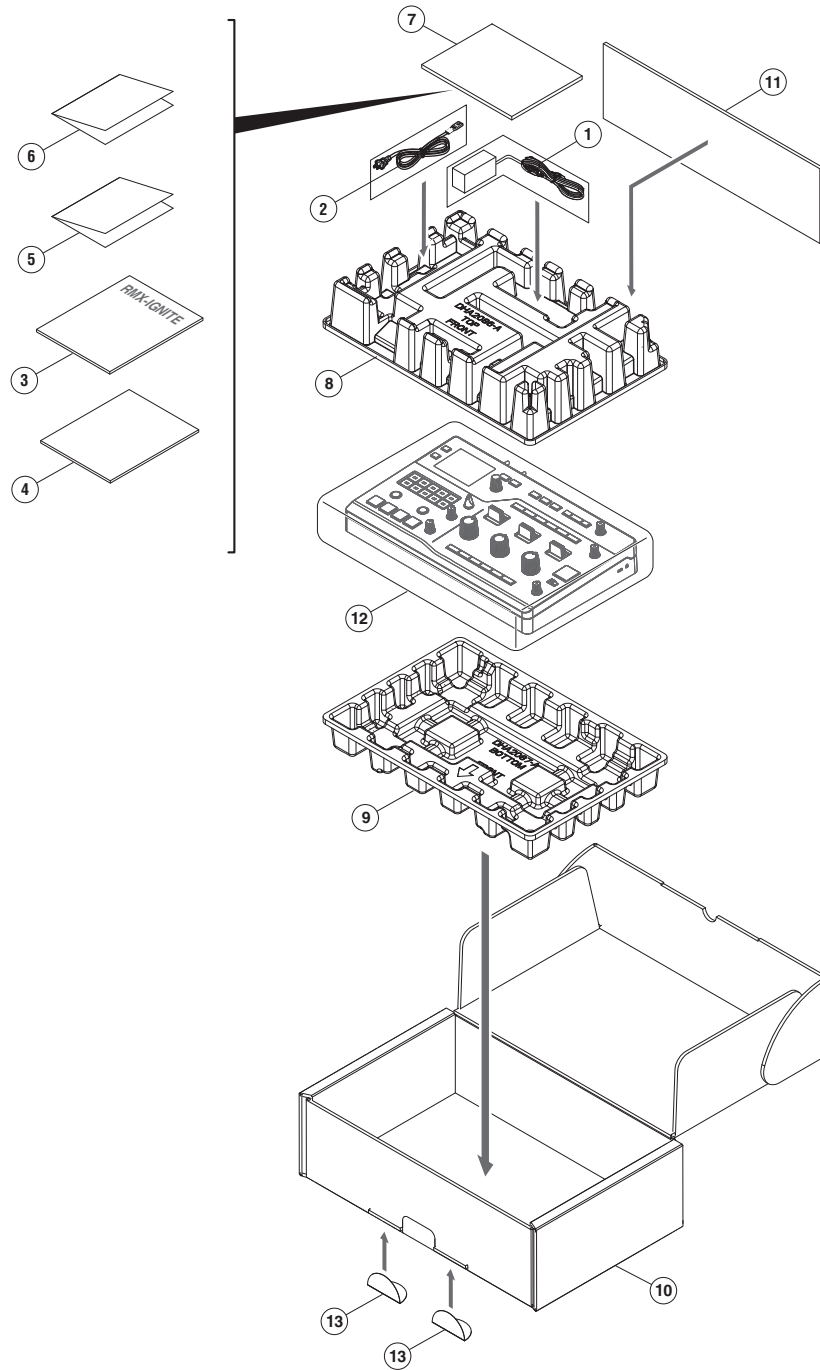
3. Press the [Ψ] switch to turn the unit off.

The factory settings are restored.

7. 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.

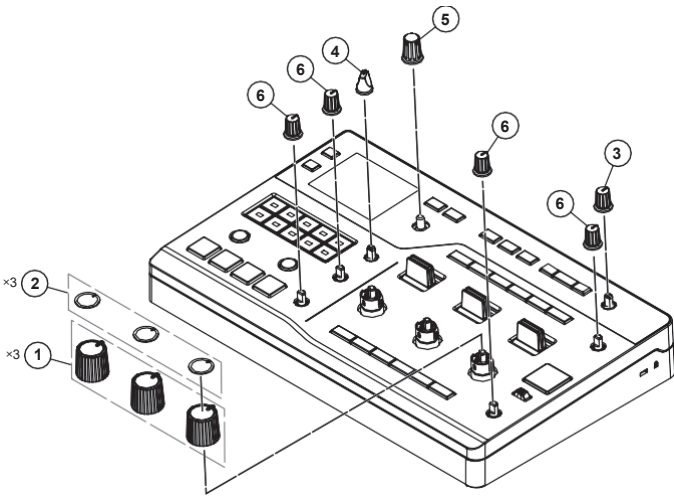
7.1 PACKING SECTION



(1) PACKING SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
⚠ 1	AC Adapter	DWR1613
⚠ 2	Power cord	XDG3052
3	Quick Start Guide	DRH1846
4	Precautions for use	DRH1847
NSP 5	Leaflet	•••••
NSP 6	Leaflet	•••••
NSP 7	Envelope	•••••
NSP 8	Pad	•••••
NSP 9	Pad	•••••
NSP 10	Packing Case	•••••
NSP 11	Packing Board	•••••
NSP 12	Mirror Mat	•••••
NSP 13	Packing Tape	•••••

7.2 CONTROL PANEL SECTION



CONTROL PANEL SECTION PARTS LIST

<u>Mark No.</u>	<u>Description</u>	<u>Part No.</u>
1	Knob	DAA1510
2	Plate	DAH3479
3	Knob	DAA1511
4	Knob	DAA1512
5	Knob	DAA1362
6	Knob	DAA1514