

aDrums EXS-1 aDrums EXS-2

Electronic Drums

EN

Welcome.

■ Contents

Setup	3
Package Contents (aDrums EXS-1)	3
Package Contents (aDrums EXS-2)	4
Assembly Guide	5
Top Panel	10
Rear Panel	11

1 Getting Ready	12
Connecting Audio Equipment	12
Connecting the Pads	12
Zones supported by the xD3's trigger inputs	13
Power On / Off	13
SETUP - Trigger Settings	14
Cross-talk Cancel Wizard	15
SETUP - Utility Functions	16

2 Performing	22
Home Screen	22
Performing	22
Changing the Drum Kit	23
Selecting a drum kit from the list	23
Song Playback	23
Using the Metronome	24
Using the Visualizer	24

3 Menu Functions and Settings	25
SONG	26
METRONOME	29
RECORDING	30
INST LEVEL (Adjusting the volume of each pad)	31
SETUP - System Settings	31

4 Detailed Information	32
Specifications	32
Support	32

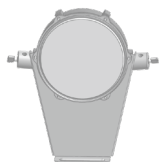
5 Important Notice	33
Important Safety Information	33
Important Information about Use	34

Before using aDrums EXS-1/2 be sure to read '5 Important Notices' p.33.

Setup

■ Package Contents (aDrums EXS-1)

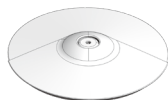
This product includes the following items.



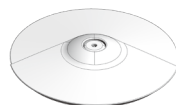
Kick Pad



Spurs for Kick Pad
x2



Crash Cymbal Pad



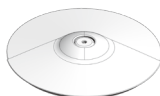
Ride Cymbal Pad



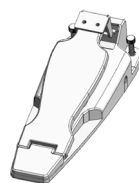
Snare Pad



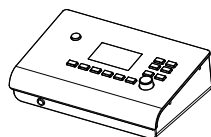
Tom Pads x3



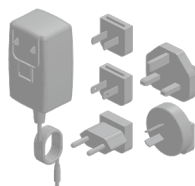
Hi-hat pad



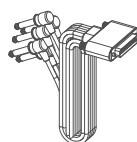
Hi-hat Controller



xD3 drum sound
instrument



AC adapter



Multi-trigger cable

Quick Start Guide

SD memory card

Cable tie

Drum key

Drum Rack



Tube A x2



Tube B x2



Tube C



Tube D



Tube E



Tube F



Hi-Hat Arm



Cymbal arms x2



Snare Pad Arm



Tom Pad Arms x3

■ Package Contents (aDrums EXS-2)

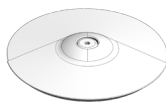
This product includes the following items.



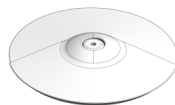
Kick Pad



Spurs for Kick Pad
x2



Crash Cymbal Pad



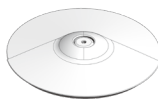
Ride Cymbal Pad



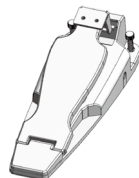
Snare Pad



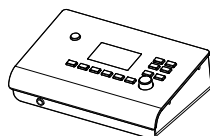
Tom Pads x3



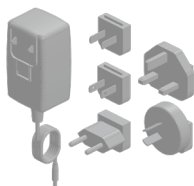
Hi-hat pad



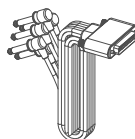
Hi-hat Controller



xD3 drum sound
instrument



AC adapter



Multi-trigger cable

Quick Start Guide
SD memory card
Cable tie
Drum key

Drum Rack



Tube A x2



Tube B x2



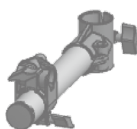
Tube D



Tube E



Tube F



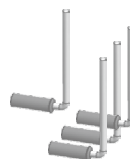
Tube C



Hi-hat Arm



Cymbal Arms x2

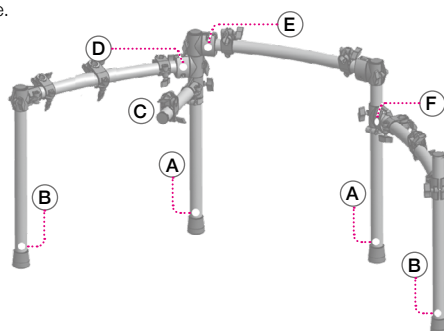


Snare Pad /
Tom Pad arms x4

■ Assembly Guide

Connect tubes A to F as the figure right shows.

*A corresponding label (A to F) is attached to each tube.



1 Insert tube A into the tube C clamp



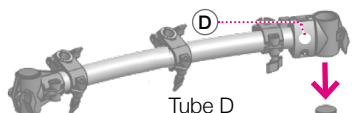
Tube C

Tube A



*Securely tighten the clamp bolt

2 Insert tube A and tube B into the clamps at the ends of tube D



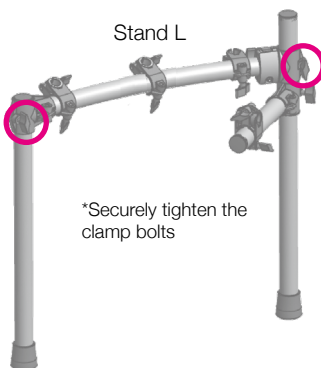
Tube D

Tube B

Tube A

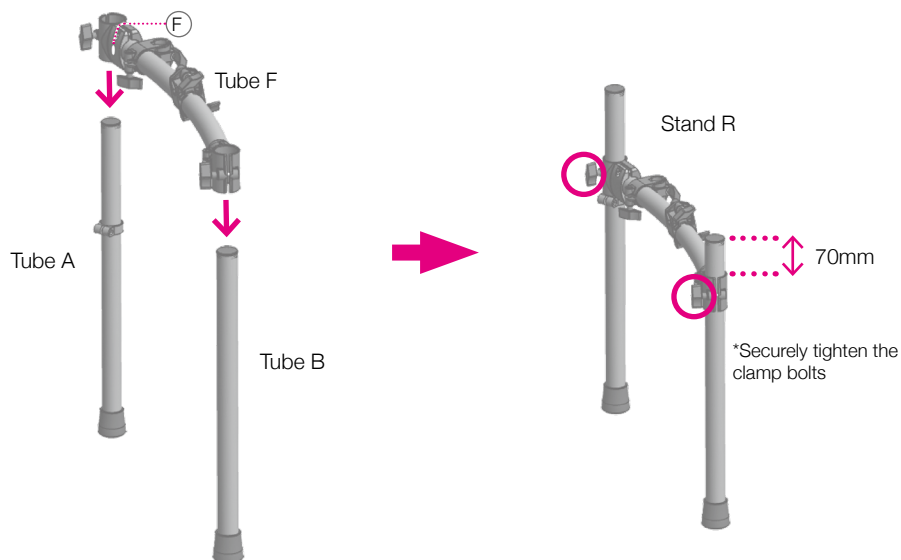


Stand L

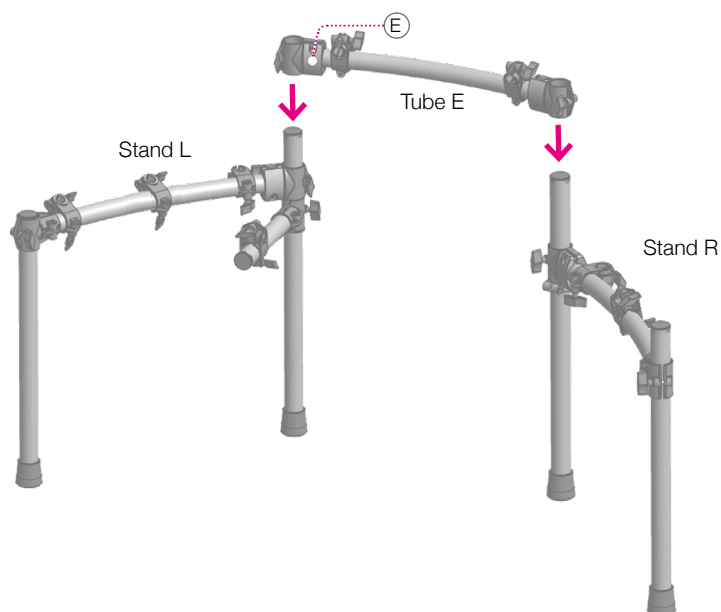


*Securely tighten the clamp bolts

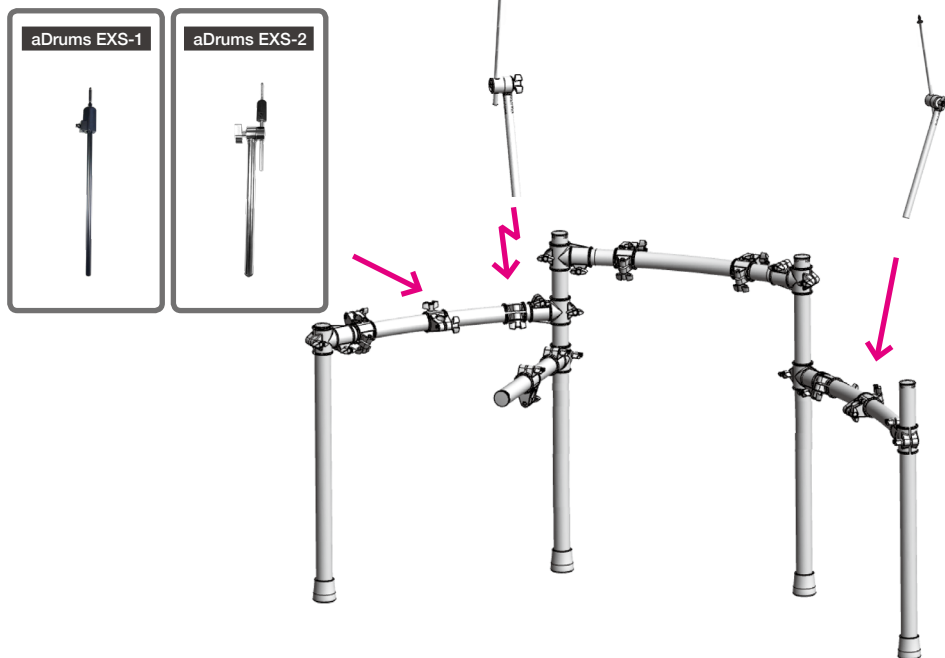
3 Insert tube A and tube B into the clamps at the ends of tube F



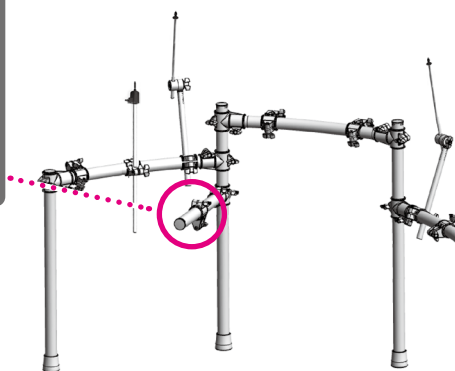
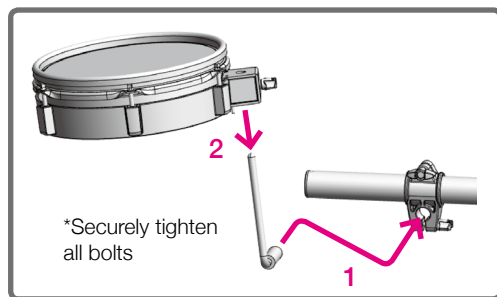
4 Attach tube E clamps to stands L and R



5 Attach the cymbal arms

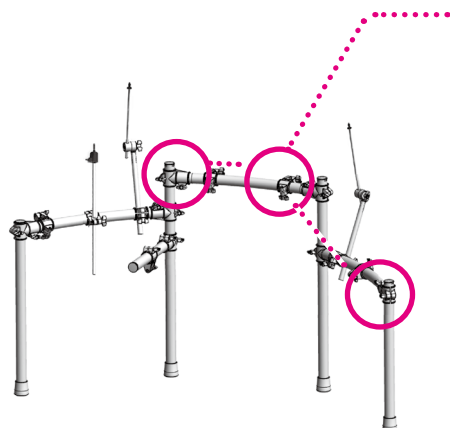


6 Attach the L-arm to the clamp (1) and the snare to the L-arm (2)



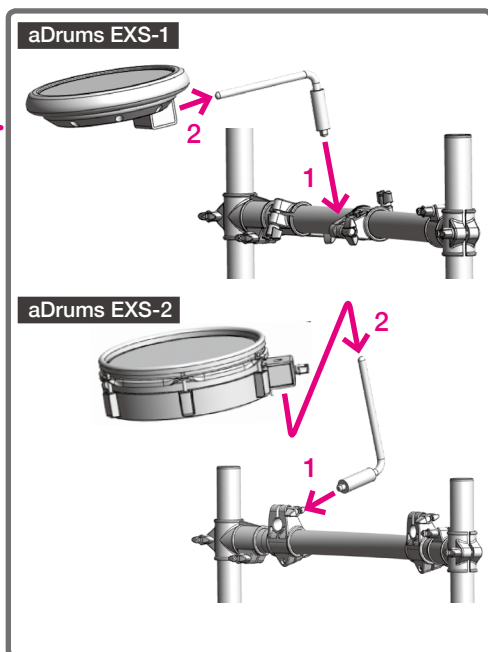
*Adjust the tension of the pad head using the included tuning key.

7 Attach the tom L-arms to the clamps (1) and the toms to the L-arms (2) as shown

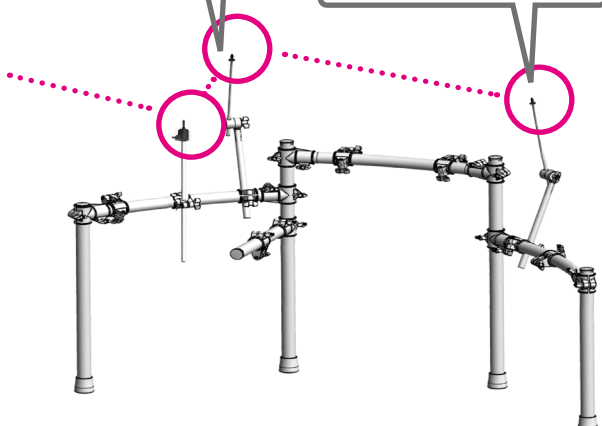
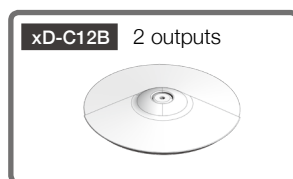
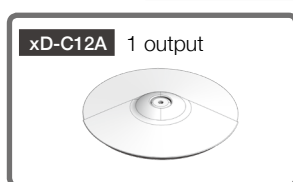
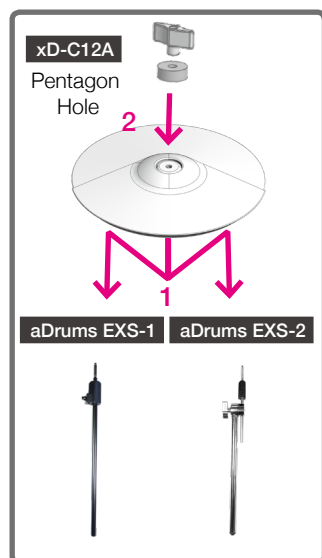


*Securely tighten all bolts.

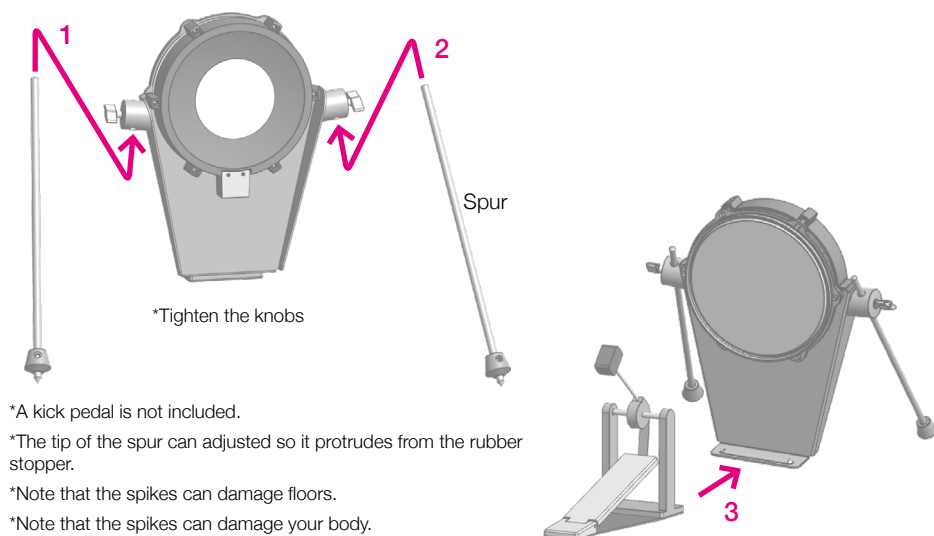
*Adjust the tension of the head using the tuning key included in the package.



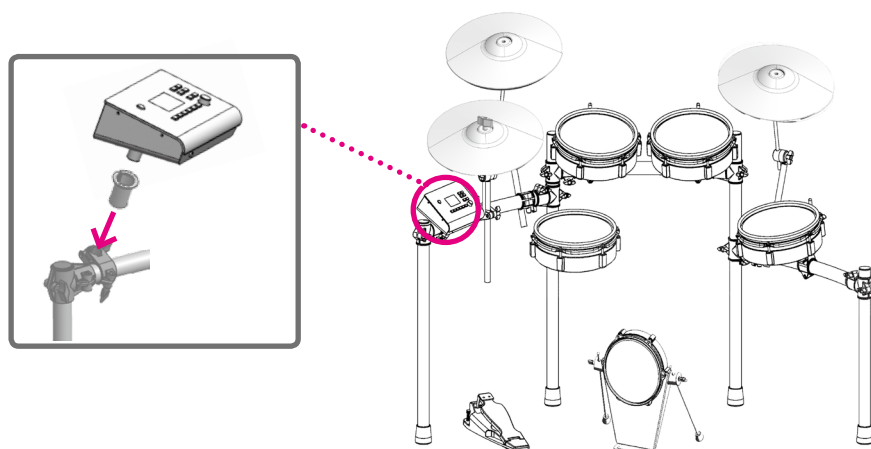
8 Attach the cymbal pads



9 Attach the spurs to the kick drum pad



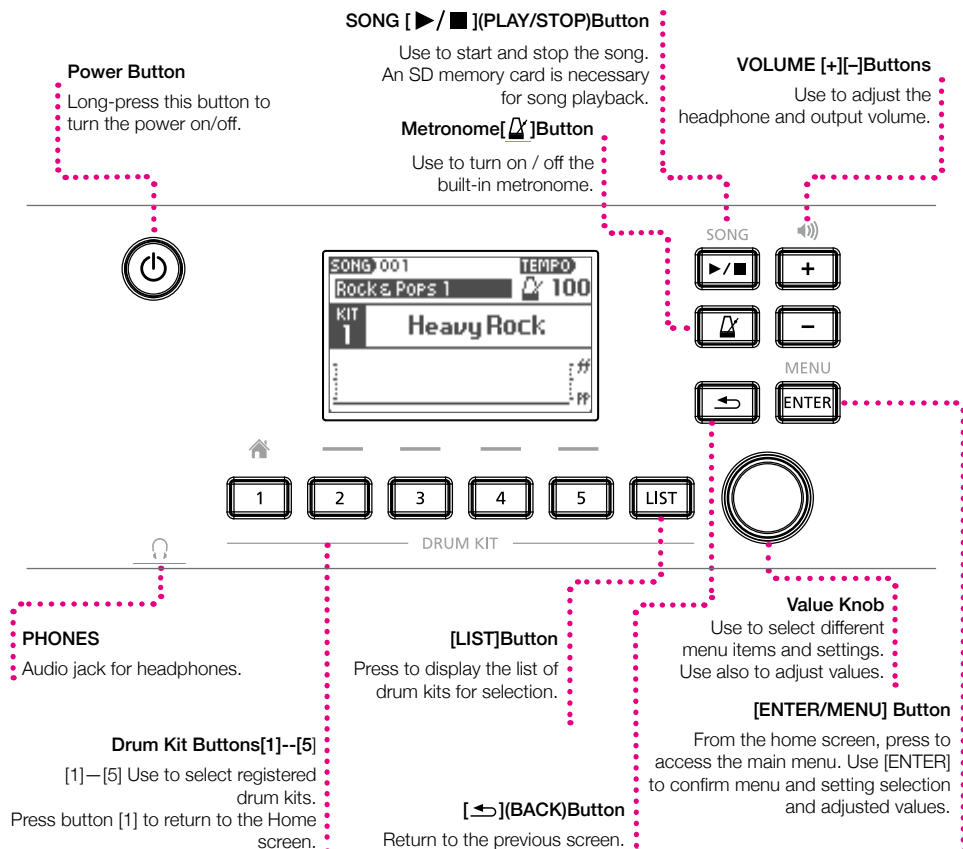
10 Attach the xD3 drum sound instrument



*After completing the assembly verify that all the bolts are securely tightened.

■ xD3 Top Panel

Only the buttons being operated light up.

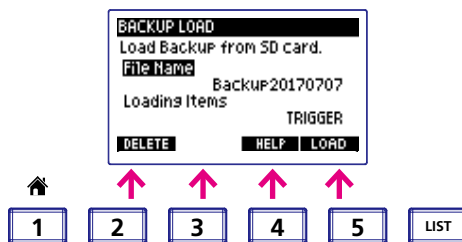


About the Function Buttons

Aside from the "Home" screen, buttons [2] [3] [4] [5] are used to select displayed menu functions.

For example, as shown on the screen (right):

[2] Button = DELETE
[4] Button = HELP
[5] Button = LOAD



■ xD3 Rear Panel

SD CARD

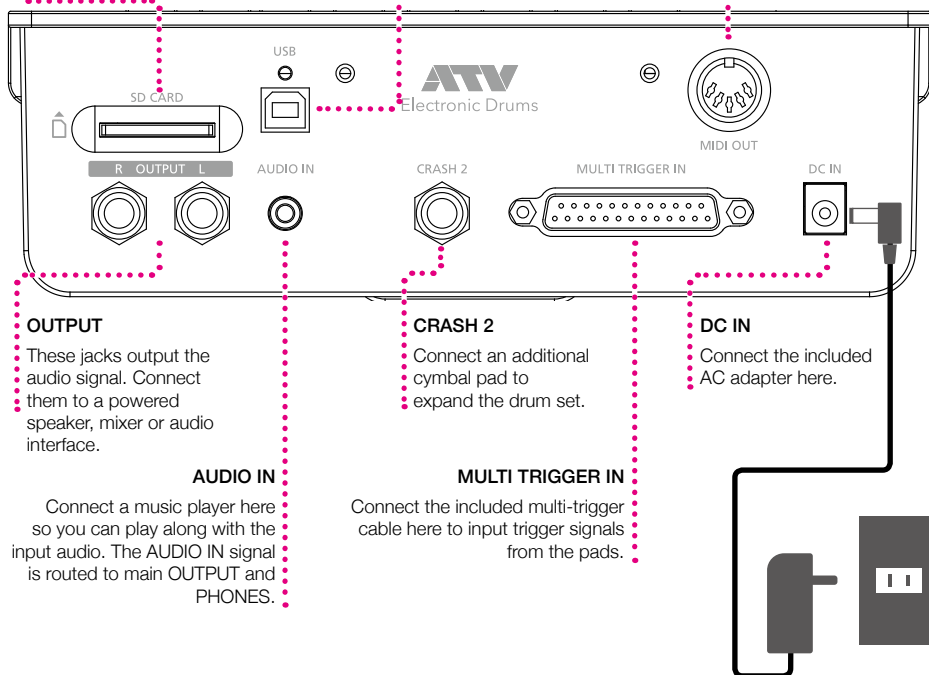
Insert the included SD card that contains song data. Additional songs can also be stored and loaded. The SD card is also used to back-up and import xD3 sound data. The xD3 is only compatible with SD /SDHC cards from 2 GB up to 32 GB.

USB

The xD3 can be connected to a Mac or Windows PC, allowing MIDI messages to be transmitted and received. Use a USB 2.0 cable.

MIDI OUT

Connect MIDI devices and send MIDI signals.

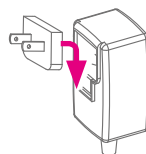


About the AC adapter

The AC adapter can be used worldwide.

Attach the included plug that is suitable for the type of outlet in your country.

*You must use only the included AC adapter and plug.

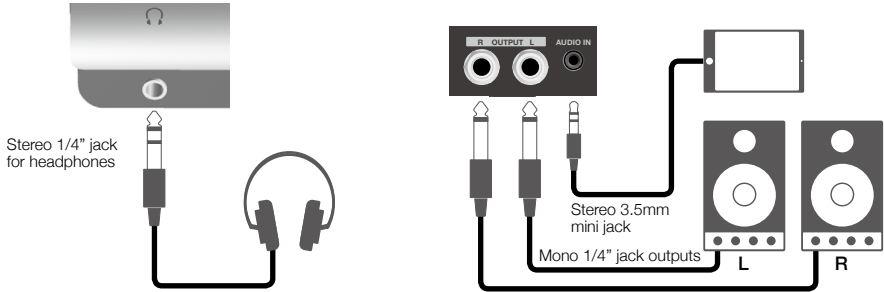


1 Getting Ready

■ Connecting Audio Equipment

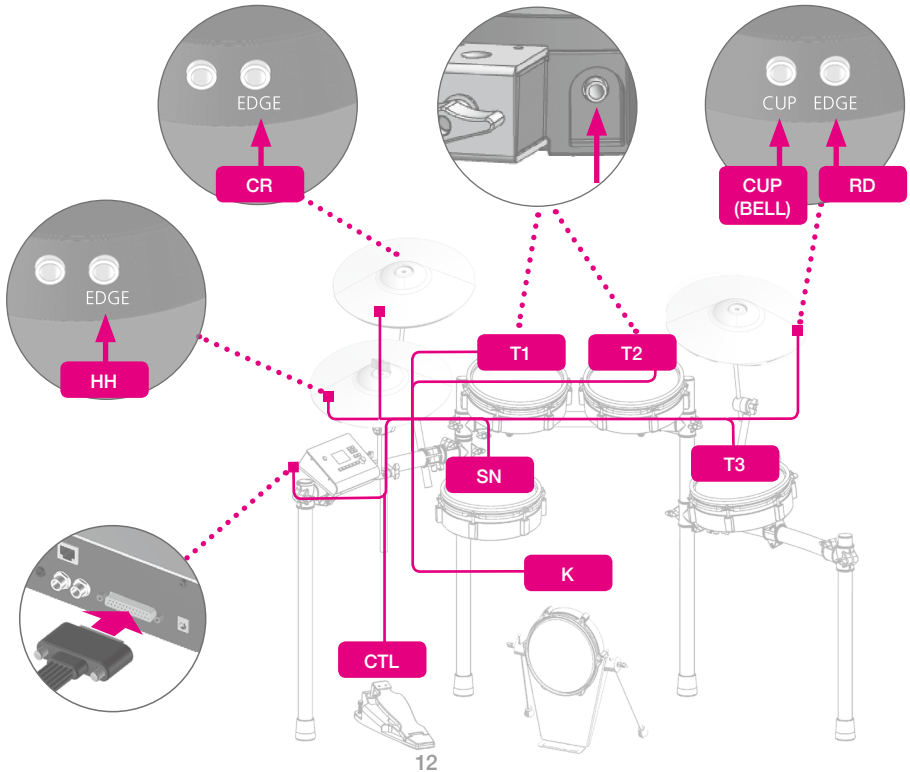
In order to hear sounds generated by the xD3, one of the following (commercially available items) is required.

- Headphones, powered speakers, etc.
- You can play along with your own songs and loops by connecting your computer/tablet headphone output to the xD3's AUDIO IN jack.



■ Connecting the pads

First connect the multi-trigger cable to the xD3's rear panel and then to each pad. Note the connection destination labeled on each jack plug and connect them as shown in the illustration. After completing all connections, fix the cables onto the stands using the included cable ties.



■ Zones supported by the xD3's trigger inputs

xD3 trigger input	Supported zone	Choke method	Notes
KICK	Head	N/A	Input hardware is only single-trigger capable.
SNARE	Head,Rim	N/A	Side stick sound function can be enabled, see the user's manual. (Only available on the snare input.)
TOM 1	Head	N/A	Input hardware is only single-trigger capable.
TOM 2	Head	N/A	Input hardware is only single-trigger capable.
TOM 3	Head	N/A	Input hardware is only single-trigger capable.
HI-HAT	Bow,Edge	YES	
CRASH	Bow,Edge	YES	
RIDE	Bow,Edge,Cup	YES	Three-zone input requires two pad cables.
CRASH 2	Bow,Edge	YES	

■ Power On / Off

Turning the power on

1 Lower the volume of the connected amp or speakers.

2 Long-press the power button of the xD3.

The power turns on.

Turning the power off

1 Lower the volume of the connected amp or speakers.

2 Long-press the power button of the xD3.

The power turns off.
All settings are saved.

*Disconnecting the AC adapter without turning off the power can cause malfunctions. Always turn off the power by pressing the power button.

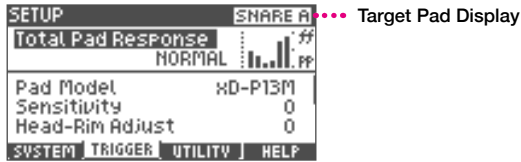
Turning the power off automatically (auto power-off)

If the xD3 has not been played or operated for 30 minutes, it automatically turns off the power in order to conserve electricity. The auto power-off function can be disabled or adjusted via a setting in the system tab of the setup menu (see p.31).

■ Trigger Settings

These settings are used to optimize the performance of the xD3 by calibrating the unit's triggering sensitivity in response to signals from the pad sensors.

Setting up the sensitivity of triggers is important when using the equipment for the first time or when changing the type of pad.



System Tab Help Screen Display
Trigger Tab Utility Tab

- 1 From the home screen, press the **ENTER/MENU** button and select **SETUP** using the value knob. Press **ENTER** again to access the screen shown above. Press the **[3] (TRIGGER)** button to select the trigger menu tab.
- 2 Use the value knob to select a menu item and press the **[ENTER]** button. Turn the value knob to adjust the setting.

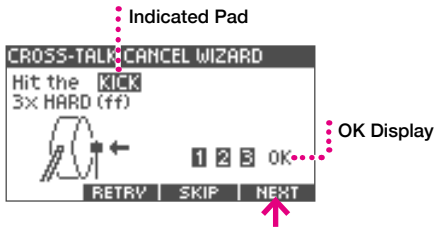
*These general settings are applied to all drum kits.

Total Pad Response	Increasing the sensitivity of all pads will produce a powerful sound even when playing with soft taps. This may be suitable for younger children or players who have a softer playing style. The default sensitivity is indicated by the setting 'NORMAL'. Pad sensitivity can be increased by turning the value knob through the range +1 to +3.
Pad Model	Use to set the type of pad connected to each trigger input. *Please use the default setting.
Sensitivity	Use to adjust the sensitivity of each pad. From the default value (0), the sensitivity can be increased with positive value settings (+1 to +10) or decreased with negative value settings (-1 to -10).
Head-Rim Adjust	Use to adjust the balance sensitivity between the head sound and the rim-shot sound of the snare drum pad. If the rim-shot sound is triggered consistently when hitting the snare pad head, adjust the value in the range H1-H10 to find a balance that suits your playing style. If you find it difficult to play the rim-shot, try adjusting the value between R1-R10.
Pedal HH Sens	Use to adjust the volume of the foot-close and foot-splash hi-hat sounds. Range of values is -5 to 5.
HH Close Adjust	Use to adjust the closed position of the hi-hat. If the hi-hat does not sound sufficiently 'closed' when pressing on the pedal with normal pressure, adjust this setting to a positive value in the range 1 to 10. If the hi-hat does not sound sufficiently 'open' when the pedal pressure is relaxed or released, adjust this setting to a negative range value -1 to -10.
Cross-Talk Cancel Wizard	Use to eliminate "cross-talk", which is an unwanted signal transmission between pads. Simply hit each pad according to the Cross-talk Cancel Wizard instructions and the appropriate settings will be made automatically. For detailed instructions, please refer to the section about using the "Cross-talk Cancel Wizard" (p.15). *Execute this wizard when setting up the drum kit for the first time. *Cross-talk may reoccur if a pad or pad's mount position is changed. In such cases, please re-execute the wizard.

- 3 To confirm a setting adjustment and exit editing, press either the **[ENTER]** button or **[↩] (BACK)** button. Repeat step 2 to select and edit different menu item settings.

■ Cross-talk Cancel Wizard

- 1 Follow the onscreen instructions and strike the indicated pad 3 times with powerful hits.



*If you press [RETRY], the strikes you made so far will be erased and you can start over.

- 2 When "OK" is displayed, press the [5] (NEXT) button to advance to the next pad.
- 3 Repeat step 1 and step 2 in the same way.

The xD3 calculates the state of cross-talk for all of the connected pads.

KICK > SNARE > TOM 1 > TOM 2 > TOM 3 > HI-HAT > CRASH 1 > RIDE > CRASH 2

*If the indicated pad is not connected, press [SKIP].

- 4 When the screen below is displayed, play the drum set and check if there are any remaining cross-talk problems, then press the [5] (OK) button to exit the cross-talk cancel wizard.



*If you still detect a cross-talk problem, press the [2] (RETRY) button and repeat the wizard again.

*In some cases, it might not be possible to completely eliminate crosstalk. The following actions might improve the situation.

*Increase the distance between the pads.

*Mount the pads on separate stands.

*Place the system on a stable floor.

*Adjust the tension of the mesh pads.

UTILITY



System Tab

Trigger Tab

Help Screen Display

Utility Tab

- 1 Press the [4] (UTILITY) button to select the Utility menu tab.
- 2 Select the menu item with the value knob and press the [ENTER] button.

Backup Save	The contents of the xD3's internal storage are backed up to an SD card. Insert your SD card into the xD3. *Making a periodic backup is recommended in order to prevent the loss of important data.	p.17
Backup Load	Use to load a backup file from the SD card to the xD3. *Depending on the backup type, all or selected data in the xD3 will be deleted.	p.18
Import Kit	Use to import drum kit data downloaded from the ATV Sound Store to the xD3. This enables you to expand the number of drum kits.	p.20
SD Card Format	Use this function to format an SD card. *When the card is formatted, all data stored on the SD card will be deleted.	p.21
Factory Reset	Use this function to restore the xD3 to its factory settings. *Factory reset deletes and overwrites all data in the xD3.	p.21

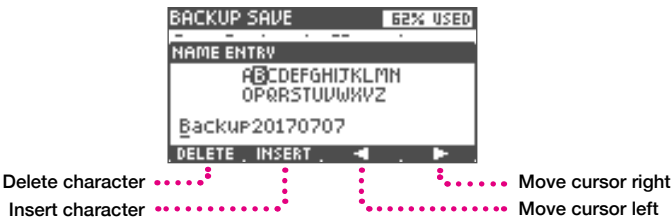
Backup Save



1 Use the value knob to select "File Name" and press the [ENTER] button.

2 Enter the backup file name.

Move the file name cursor position left < or right > by pressing buttons [4] and [5] below. Turn the value knob to select an alphanumeric character. Selected characters may also be deleted [2] or inserted [3].



3 Press the [ENTER] button to confirm the file name.

4 Use the value knob to select "Saving Items" and press the [ENTER] button.

5 Select the backup type to be saved using the value knob and confirm by pressing the [ENTER] button.

ALL	Select to save all data stored in the xD3.
KIT+TRIG	Select to save drum kit instrument volume settings and all trigger settings.
KIT+INST	Select to save all drum kit data.
KIT	Select to save drum kit instrument volume settings.
TRIGGER	Select to save all trigger settings.

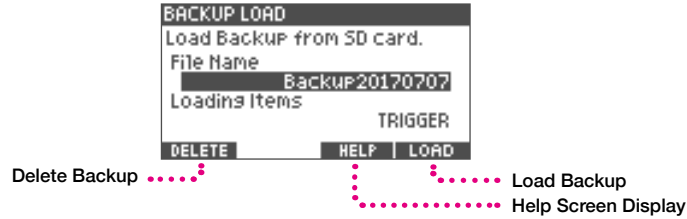
6 Press the [5] (SAVE) button to confirm settings and save the backup.

A progress bar is shown while the data is being saved. When saving is complete, the screen indicates "Completed".

*When ALL is selected, it will take about 10-15 minutes to save a backup. This will vary depending on the amount of drum kit data.

*Do not turn off the power or remove the SD card while a backup is being saved.

Backup Load



CAUTION

When a backup is loaded, some or all of the data stored in the xD3 will be overwritten and deleted. This depends on the backup type.

1 Use the value knob to select a backup file stored on the SD card. Below 'Loading Items' the backup file type is displayed. The reference table below describes the backup types.

ALL	Select to load a full backup of xD3 data. *All data stored in the xD3 will be deleted.
KIT+TRIG	Select to load a backup of drum kit instrument volume settings and all trigger settings. *Drum kit instrument volume settings and trigger settings stored in the xD3 will be deleted.
KIT+INST	Select to load all drum kit data. *All drum kit data stored in the xD3 will be deleted.
KIT	Select to load drum kit instrument volume settings. *Drum kit instrument volume settings stored in the xD3 will be deleted.
TRIGGER	Select to load trigger settings. *Trigger settings stored in the xD3 will be deleted.

- 2** Press the [5] (LOAD) button to load the selected backup file.
- 3** A confirmation screen will display warning that selected data will be deleted. Press [2] (NO) to exit the load backup procedure and return to the previous screen. Press [5] (YES) to confirm and proceed with loading the backup.
- *A progress bar will display during the backup load. When backup type ALL is selected, it takes about 10 minutes to load. When loading is complete a 'Completed' message will display followed by a prompt to power off / on the xD3.
- 4** Press the power button to turn off the xD3, and then turn on the power again. The backup is now loaded.

Deleting a Backup File

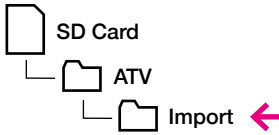
From the Utility tab of the Setup menu, use the backup load function to select and delete a backup file stored on the SD card.

- 1** Use the value knob to select a backup file stored on the SD card. Below 'Loading Items' the backup file type is displayed. The reference table on p.18 describes the backup types.
- 2** Press the [2] (DELETE) button.
- 3** A confirmation screen will display warning that the selected backup file will be deleted. Press [2] (NO) to exit the delete backup procedure and return to the previous screen. Press [5] (YES) to confirm the instruction to delete the backup.

*A progress bar will display to indicate the backup is being deleted. When the backup is deleted a 'Completed' message will briefly display before returning the user to the backup load screen.

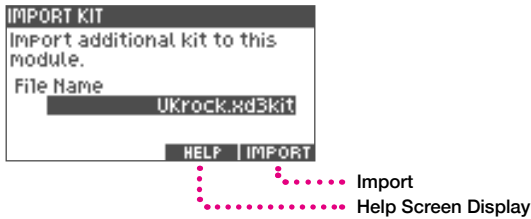
Import Kit

- 1 Place the downloaded drum kit file (xxxx.xd3kit) in the Import folder of the SD card.



*If there is no "Import" folder, insert the SD card into the xD3 once, and the folders will be created.

- 2 Insert the SD card into the xD3 drum module.



- 3 Select the drum kit file to import with the value knob.

- 4 Press the [5] (IMPORT) button to import.

A progress bar is shown during the import. When the import is completed, the screen indicates "Completed".

*It takes about 5 minutes to complete the import.

*The downloaded drum kit file can be imported only into an xD3 with a matching product ID. If the product ID does not match, the following message is displayed: "This xD3 doesn't have a permission to import "xxxx"."

ATV SOUND STORE

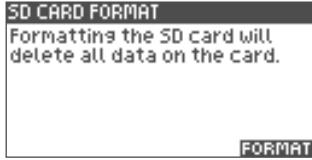
This is a website where additional sounds for the xD3 can be purchased for download.

*To obtain a product ID required for account registration, see p.31 for instructions.



<http://store.atvcorporation.com/>

SD Card Format



..... Format

CAUTION

Formatting the SD card will delete all its data.

1 Insert the SD card into the xD3 drum module.

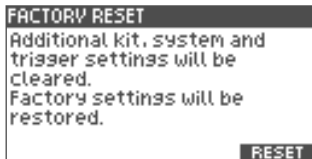
2 Press the [5] (FORMAT) button.

A confirmation screen will display prompting you to either proceed with formatting (YES) or cancel the process (NO) and return to the previous screen.

3 Press [5] (YES) button to format the SD card. To exit the screen without formatting press the [2] (NO) button.

When formatting is completed, the message "Completed" is displayed.

Factory Reset



..... Reset

CAUTION

All data in the xD3 drum module will be deleted when restored to its factory setting.

1 Press the [5] (RESET) button.

A confirmation screen will display prompting you to either proceed with factory reset (YES) or cancel the process (NO) and return to the previous screen.

2 Press [5] (YES) button to proceed with factory reset. To cancel factory reset and exit the screen press the [2] (NO) button.

When factory reset is completed, the message "Completed" is displayed.

3 Press the power button to turn off the xD3, and then turn on the power again. The xD3 is now restored to its factory setting.

2 Performing

■ Home Screen

The Home screen is displayed after turning on the power.
Press the [1] (HOME) button from any screen to return to the Home Screen.
The Home Screen is displayed when playing the drums.



Song Playback Icon

Song Number

Song Name

Drum Kit Number

Drum Kit Name

Metronome Tempo

Visualizer: (p.24)
Visually displays the dynamics and timing of the strikes.

What is an xD3 Drum Kit?

The xD3 patch that assigns sounds to each pad is called a "drum kit". Changing the drum kit patch to Jazz or Rock changes the sound of each pad to a sound suitable for that genre.

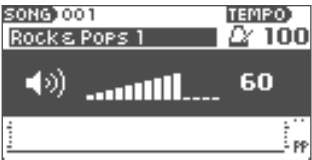
■ Performing

1 When you hit the pad, it resounds.

The sound changes naturally according to the strength of the hit.

2 Use VOLUME [+][-] to adjust the volume.

*Adjust the volume to an appropriate level for natural playing.
If the output volume is too low, it may cause you to exert unnecessary force when playing, which may cause pain and possibly injury to your hands and arms. Please avoid setting the output volume too loud as this may damage your hearing and the hearing of others around you, especially young children.
It is possible to set a maximum volume limit for the xD3 (p.31).

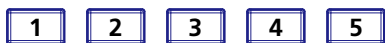


Corresponding styles of playing

Snare drum	head shot, rim shot, side stick
Hi-hat	bow, edge, open-close, foot close, foot splash
Crash cymbal	bow, edge
Ride cymbal	Bow, edge, cup

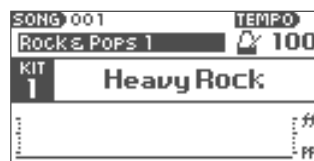
■ Changing the Drum Kit

- 1 Press one of drum kit buttons [1]—[5].



The drum kit saved for each button is loaded.

*It takes several seconds to load the drum kit.



- 2 When the drum kit name is displayed, you can start playing.

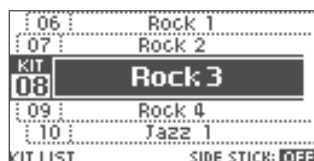
■ Selecting a drum kit from the list

Use this function to select and load a drum kit other than those already assigned to buttons [1]—[5].

- 1 Press the [LIST] button.

The list of drum kits will be displayed.

- 2 Select the drum kit with the value knob.



- 3 Press the [ENTER] button.

The selected drum kit will be loaded.

Playing side-stick technique

With the xD3 you can enable the side-stick mode to produce a clean cross-stick or 'rim click' sound when playing the snare drum pad.

- 1 Press the [LIST] button.

The list of drum kits is displayed.

- 2 Press [5] (SIDE STICK) to set it to "ON".

Set to "OFF" to disable side-stick technique and the cross-stick sound.

- 3 Press the [↔] button to return to the home screen.

■ Song Playback

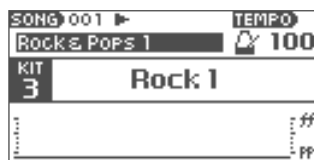
To select and play a song, please insert the provided SD card.

- 1 Press the SONG [▶/■] button to start playback.

The selected song will play.

- 2 Turn the value knob to select between different songs.

The song name will be displayed and the tempo for factory songs will change automatically.



- 3 Press the SONG [▶/■] button again to stop playback. Note that stopping the song resets playback to the start of the song.

- To play a song with the metronome, press the metronome button to start the click before pressing the song play button. For factory songs the tempo value resets and the metronome syncs to song playback.
- You can play along to your own songs (.wav) stored on the SD card (p.28).
- Access the song screen from the main menu (p.26) to adjust the volume and other song playback functions.

*The tempo of song playback cannot be adjusted.

■ Using the Metronome

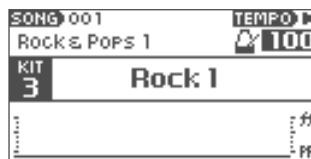
1 Press the [**M**] button.

The metronome will start and the button LED will flash at the set tempo.

2 Use the value knob to adjust the tempo.

The tempo range is 20 - 300 BPM.

3 Press the [**M**] button again to stop the metronome.

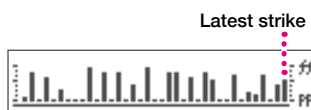


■ Using the Visualizer

The visualizer tool displays the dynamics and timing of your strikes on the pads.

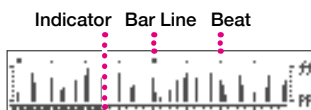
When the metronome is turned off

Strike strength is displayed as bar graph with the vertical axis representing a dynamic range from very soft 'pp - pianissimo' to very loud 'ff - fortissimo'. The last strike is displayed on the far right of the graph, and the previous strike moves to the left. Using this tool you can monitor the dynamics of successive strikes. This is useful when you want to check the even dynamics of a roll, or the dynamic contrast between light taps and accented strokes.



When the metronome is turned on

When the metronome is turned on, the visualizer's horizontal axis represents two measures subdivided according to the beat setting of the metronome (p.29). The measure progress 'indicator' scrolls according to the tempo, and the timing and strength of the strikes are displayed as vertical bars on the graph. The vertical bars are displayed in real-time so you can visually check the timing and dynamic variation of strikes in reference to the metronome. To clear the display press the [**CLR**] button.



Modifying drum kit button assignment

It is possible to modify the selected drum kits that are assigned to drum kit buttons [1]—[5]. A drum kit can be quickly loaded by pressing one of these buttons.

1 Press the [LIST] button.

The drum kit list is displayed.

2 From the displayed list of available drum kits, select a drum kit that you want to assign using the value knob. Press [ENTER] to load the drum kit.

3 Press and hold for 2 seconds the drum kit button [1]—[5] that you want to assign the drum kit to. The message "Store Completed" confirms that the drum kit is now assigned to a drum kit button.

Repeat this process to enable the loading of your favourite drum kits with a single button press. You can overwrite a drum kit button assignment anytime by repeating steps 1 to 3.

3 Menu Functions and Settings

Other xD3 functions and settings are accessible from the main menu screen.

1 Press the [ENTER/MENU] button from the Home Screen.

The menu will be displayed.



2 Turn the value knob to select a menu item. Press the [ENTER] button to access the selected function or settings.

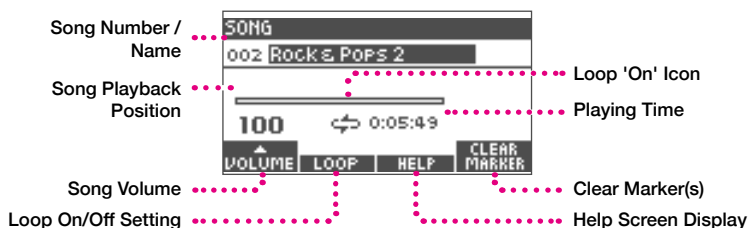
SONG	Access to make song playback, volume, and marker settings.	p.26
METRONOME	Access to make adjustments to detailed metronome settings.	p.29
RECORD	Access to record and playback your performances.	p.30
INST LEVEL	Access to adjust the volume level of each pad for each drum kit.	p.31
SETUP	Access to adjust the system, trigger, and utility settings of the xD3.	p.31

3 Press the [↵] (BACK) button or the [1] (HOME) button to exit the menu and return to the HOME screen.

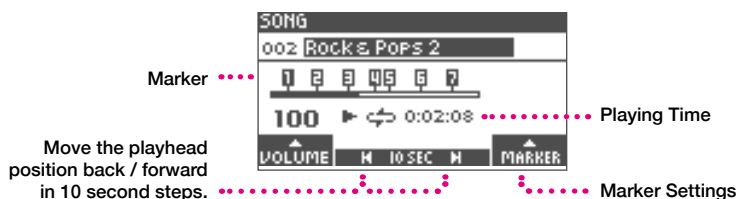
■ SONG

In the song screen, you can select a song for playback, adjust the volume level of a song, enable song looping, and set song markers.

Screen display when a song is not playing.



Screen display during song playback



Selecting a song and playback control

1 Turn the value knob to select a song.

When selecting a song, previous settings for loop enable, markers and volume will load.

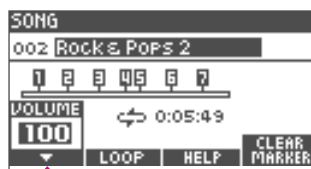
2 Press the SONG [▶/■] button to play / stop.

During playback, you can press the [3] and [4] buttons to move the playhead position forwards or backwards in 10 second steps.

Adjusting the volume of the song

1 Press the [2] (VOLUME) button and use the value knob to adjust the song's volume level.

2 Press the [2] (VOLUME) button to exit volume level editing. The value knob is now enabled for song selection.



Volume level

Loop setting

When you enable the loop feature, the selected song will 'loop' and play repeatedly.

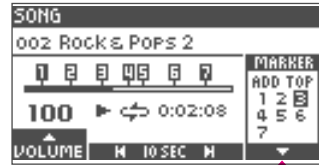
1 When playback is stopped, press the [3] (LOOP) button to turn the loop function on / off.

When song looping is enabled, a loop icon is displayed.

Markers

For each song you can set up to 9 markers at any position in the song. During playback you can jump to a specific marker or the start of the song.

Using markers is a great way to focus your play-along practice on selected sections of a song.



Marker settings and control

Adding Markers

- 1 Start song playback.
- 2 Press the [5] (MARKER) button and use the value knob to select "ADD".
- 3 Press the [ENTER] button at a time position in the song where you want to add a marker.

When you add a marker the song timeline display indicates the marker number and its position. Adding markers at different time positions will automatically change the marker numbers so they are always sequentially ordered.

Jump to Marker

- 1 To jump to a marker position in the song during playback, select the marker number and press the [ENTER] button. To jump to the start of the song, select "TOP" and press [ENTER].

Clear Marker

- 1 When playback is stopped, press the [5] (CLEAR MARKER) button.
- 2 A screen will display prompting you to select a marker to clear. Use the value knob to select the numbered marker or "ALL" to select all markers. To clear the selected marker(s), press the [5] (CLEAR) button. Press the [2] (CANCEL) button to return to the song screen without clearing markers.

*Settings for volume, loop, and markers are stored for each song.

*In the song screen you can not change the tempo of the song. A song's tempo may be adjusted in the HOME screen.

Playing user audio files (wav)

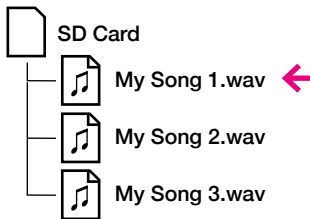
The xD3 supports the playback of wav format audio files (see below). This enables you to copy your own wav files to the SD card and play them using the xD3's song function.

Supported Format

File Type	Windows Wave (RIFF)
Filename Extension	wav, WAV
Sampling Frequency	48 kHz
Bit Depth	16 bits
File Size	Up to 2 GB

Set up

Copy the wav file(s) to the SD card's root folder, as shown below.



- * Up to 100 wav files can be stored on the SD card.
- * Audio files (.wav) that are stored inside folders are not recognized by the xD3.
- * The xD3 does not support audio file names with 2-byte characters.

Playback

Select a wav file by following the instructions for "Selecting a song and playback control" on p.26.


■ METRONOME

In the metronome screen, various settings for the metronome can be selected and adjusted. These settings are described in the table below.



Help Screen Tap Tempo

1 Use the value knob to select a setting to adjust.

Tempo	Tempo in beats per minute (BPM). The value range is 20 - 300.
Beat	The number of beats per bar / measure. The value range is 1 - 13.
Note	Note refers to the note subdivision that is sounded by the metronome in reference to tempo and the number of beats. The metronome's note value can be set to: Whole Note, Half Note, Quarter Note, Eighth Note, Eighth Note Triplet, Sixteenth Note.
Sound	The metronome sound has 6 different settings: Electro, Classic, Cowbell, Claves, Beep 1, Beep 2.
Level	This setting adjusts the volume level of the metronome independently from the drum kit and song volume levels.
Start w/CR1	<div>This setting enables you to start the metronome by striking the CRASH 1 cymbal. The metronome can be set to play for just one or two measures before stopping. This function is useful when you want to quickly check your timekeeping against the metronome.</div> <div><ol style="list-style-type: none">Set it to "MEAS 1" or "MEAS 2".Press the [] button. CR flashes on the screen.Strike the CRASH 1 cymbal. The metronome will play for 1 or 2 measures depending on the setting.</div>

2 Press the [ENTER] button and adjust the value or setting with the value knob.

3 Press the [ENTER] or [] (BACK) button to confirm the value / setting adjustment. The value knob can now be used to select other metronome settings.

Tap tempo

The tempo can be set by pressing the TAP button several times. This is useful when you need to quickly setup the metronome for a song with an unknown tempo.

1 Press the [5] (TAP) button according to the beat.

The tempo is set.

■ RECORDING

The record screen enables you to record your drum performances; either solo, or while playing along to a song. The recording feature is a great tool for reviewing song performances. It can also be used create quick demo tracks that you can record onto an external device connected to the xD3's audio outputs.

Note that the record feature does not capture audio from the AUDIO IN jack.



Recording

- 1 To start recording from standby mode, start playing the drums or press the SONG [▶/■] button to start song playback.**

When recording starts, the elapsed recording time will be displayed.

When you plan to record with the metronome, it is recommended that you start the metronome in advance while in record standby mode. When you are ready to start recording, start playing the drums or press the SONG [▶/■] button. The metronome will automatically synchronize with song playback.

The metronome itself is not recorded and can be started or stopped during the recording process.

Playback

- 2 Press the [4] (▶/■) button.**
- 3 Press the [4] (▶/■) button to stop playback.**
- 4 To record again, press the [5] (REC) button and repeat from Step 1.**

The previous recording will be deleted.

- 5 To end recording, press [2] (EXIT).**

Pressing [2] (EXIT) returns you to the HOME screen.

*When you turn off the xD3, the recording data is erased.

*You can not start song playback after the recording process starts.

*You can not adjust metronome's tempo value while recording.

■ **INST LEVEL (Adjusting the volume of each pad)**

In this screen you can adjust the volume level of each pad for the selected drum kit.

- 1 Strike the pad that you want to adjust the volume level for.
- 2 Use the value knob to adjust the volume level for the selected (highlighted) pad.

INST LEVEL				KIT 01	
HH	CR1	CR2	RD		
93	86	88	69		
K	S	T1	T2	T3	
83	100	85	85	85	
TO SELECT, HIT THE PAD.					

- 3 Repeat steps 1 and 2 to make further pad volume level adjustments.

*The pad volume levels for each drum kit are stored automatically.

■ **SETUP**

SYSTEM

SETUP	
LCD Contrast	4
LCD Brightness	6
Auto Power Off	DISABLE
Master Vol Limit	100
MIDI Channel	10
SYSTEM TRIGGER UTILITY] HELP	

Target Pad Display for
'Pad Pan' setting

System Tab

Trigger Tab

Help Screen Display

Utility Tab

- 1 Press the [2] (SYSTEM) button to select the System tab menu.
- 2 Use the value knob to select a menu item and press the [ENTER] button.

LCD Contrast	This setting adjusts the contrast of the display.
LCD Brightness	This setting adjusts the brightness of the display.
Auto Power Off	The xD3 drum module automatically turns off after a 30-minute period of inactivity to reduce power consumption. The auto power-off function has three available settings: 30 mins : The power turns off after 30 minutes. 4 hours : The power turns off after 4 hours. DISABLE : The unit will not power-off automatically.
Master Vol Limit	This sets the master output volume level that is controlled by the [+] and [-] buttons. This setting is used to limit the maximum output volume of the xD3 in order to prevent hearing damage caused by listening at excessive volume levels.
MIDI Channel	Sets the MIDI channel number for sending and receiving MIDI data. Default setting is 10.
Pad Pan	This setting adjusts the stereo panning position of each pad. 1. Strike the pad that you want to adjust. The top right corner of the screen indicates which pad is selected. 2. Turn the value knob to adjust the panning position while striking the pad. The range of values that may be entered is, Left (L1 - 10), CENTER, and Right (1R - 10R). 3. Repeat Steps 1 and 2 for all the pads. Note that stereo panning positions are general settings that apply to all drum kits.
Firmware	Firmware version
Product ID	Product ID. A product ID is required when purchasing drum kits from the sound store.

- 3 Use the value knob to adjust the value/setting and press the [ENTER] button to confirm.

4 Detailed Information

■ Specifications

Electronic Drum Sound Module

Model: xD3

Item	Specification
Terminals and Jacks	AUDIO OUTPUT: L/R, mono ¼ inch (6.35mm) jack x2 PHONES: stereo ¼ inch phone type AUDIO INPUT: stereo, 3.5mm TRS jack MULTI-TRIGGER INPUT: dedicated multi-connector, 25 PIN D-sub to individual ¼ inch TRS plugs CRASH 2 TRIGGER INPUT: ¼ inch TRS jack USB: 2.0 Type B, for MIDI in/out via USB MIDI OUT: 5-pin DIN SD Card: SD/SDHC card (2-32GB only) DC IN: Only for the included AC adapter
Power supply	DC 12 V
Power consumption	600 mA

*Specifications and appearance of this product are subject to change without notice for improvement.

■ Support

Refer to the following URL to download available firmware updates, access documentation and other information:






http://www.atvcorporation.com/en/products/drums/exs-2_1/support.html

5 Important Notices



■ Important safety information











Always follow the basic precautions listed below to avoid the possibility of serious injury from fire, electrical shock or other hazards, and serious damages to the aDrums EXS-1/2, instrument or other goods and assets. Before using aDrums EXS-1/2, be sure to read all the safety information below.











About the symbols

	"Caution": Calls your attention to a point of caution
	"Do not ...": Indicates a prohibited action
	"You must ...": Indicates a required action

About warnings and cautions

 WARNING	Indicates a hazard that could result in death or serious injury
 CAUTION	Indicates a hazard that could result in injury or property damage

 WARNING	
	Do not disassemble or modify Do not disassemble or modify this product.
  	Do not use or store in the following locations <ul style="list-style-type: none"> • Locations of high temperature (in direct sunlight, near heating equipment) • Moist or humid locations (near a bath or shower, or on a wet floor) • Locations subject to salt damage • Locations subject to water or rain • Excessively dusty locations
	Do not damage the power cord Do not excessively bend the power cord or damage it. Do not place heavy objects on top of the power cord. Doing so may damage the power cord, causing fire or electric shock.
	Use the included AC adapter Use only the included AC adapter. Use the adapter with the voltage that it specifies.
	Turn off the power if an abnormality or accident occurs In the following situations, immediately turn off the power, disconnect the AC adapter from the AC outlet, and contact your dealer or ATV for servicing. <ul style="list-style-type: none"> • If the AC adapter, power cord, or plug is damaged • If smoke is emitted or an abnormal odor is noticed • If liquid or a foreign object enters the unit • If an abnormality or malfunction occurs in the unit
	Do not drop or subject to strong impact Do not drop this product or subject it to strong impact.
	Do not plug or unplug the AC adapter with wet hands You risk electric shock by doing so.

 CAUTION	
	Grasp the power plug when connecting or disconnecting When connecting or disconnecting the AC adapter from the unit, you must grasp the plug rather than pulling the power cord.
	Don't use AC outlet multipliers Doing so will cause the outlet to become hot, causing a fire hazard.
	If the power plug is dusty, wipe it off Dust on the power plug can cause electric shock or short circuits.
	Disconnect the power plug from the AC outlet if not using the unit for an extended time, or if lightning is expected Failure to do so may cause electric shock, fire, or malfunction.
	Disconnect all connections before moving the unit Failure to do so may cause damage to the power cord or cables, or may cause people to trip over the cables.
	Don't place the unit in an unstable location Doing so may cause the unit to overturn, causing personal injury.
	Don't sit or stand on the unit, or place heavy objects on it Doing so may damage the unit. You should also avoid applying excessive force to the buttons, knobs, and input/output jacks. Doing so will cause malfunctions.
	Don't use the unit at high volume for an extended time Using speakers or headphones at high volume for an extended time will damage your hearing.
	Handle the unit with care Take care that your hands or fingers are not injured by corners or openings in the unit.
	Place small parts out of reach of children Place small parts out of reach of children who might accidentally swallow them.

■ Important Information about Use

Installation

- Do not use the instrument in the vicinity of a TV, radio, stereo equipment, mobile phone, or other electric devices. Otherwise, the instrument, TV or radio may generate noise.
- Do not expose the instrument to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel dis-figuration, damage to the internal components or unstable operation.
- The sensor of the hi-hat is exposed to extremely strong light, it may cause error.

Power Supply

- Even when the power switch is turned off, electricity is still flowing to the product at the minimum level. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.

Cleaning

- When cleaning the equipment, be sure to use a clean, dry cloth. Cleaning products that contain organic solvents, paint thinner, detergents, and chemically treated cleaning cloths can cause discoloration and/or warping and should not be used.
- Do not dirty the reflection plate of the hi-hat. Otherwise the response of the instrument may get worse. When getting dirty, clean the instrument by using a wet towel.

Data

- The company can not be held responsible for damage caused by improper use or modifications to the instrument or data that is lost or destroyed.
- The stored contents may be lost due to malfunction of equipment or incorrect operation. Please backup important data.

About copyrights

- This product incorporates audio / sound data contents in which ATV and third parties own copyrights. Using and copying these materials without permission (except for personal and other uses permitted by the copyright law) is prohibited.
- ATV owns copyrights of the contents embedded or attached to this product. Such copyrighted materials include, without limitation, all computer software, sound / audio files, style / image data files, etc. Any unauthorized use of such programs and contents outside of personal use is not permitted under relevant laws.
- Do not make, resell, redistribute, or republish the abovementioned contents attached or affiliated to the product.

About this manual

- The illustrations as shown in this manual are for instructional purposes only, and may appear somewhat different from those on your instrument.
- The company names and product names in this manual are the trademarks or registered trademarks of their respective companies.

For EU countries



- EN This symbol on the product means that used electrical and electronic equipment should not be mixed with general household waste. The correct disposal will help prevent potential negative effects on human health and the environment. For proper treatment, recovery and recycling, please contact your city office, waste disposal services or the shop which you purchased the product.
- DE Dieses Symbol auf dem Produkt bedeutet, dass elektrische und elektronische Altgeräte nicht mit gewöhnlichem Haushaltsabfall vermisch werden sollten. Durch die korrekte Entsorgung werden Umwelt und Menschen vor möglichen negativen Folgen geschützt. Bitte wenden Sie sich bezüglich ordnungsgemäßer Behandlung, Rückgewinnung und Recycling an ihre zuständige Behörde, Ihren Wertstoffhof oder an das Geschäft, in dem Sie das Produkt erworben haben.
- FR Ce symbole sur le produit signifie que les équipements électriques et électroniques usagés ne doivent pas être mélangés avec les déchets ménagers. L'élimination appropriée aidera à prévenir les effets négatifs potentiels sur la santé humaine et l'environnement. Pour un traitement, une récupération et un recyclage appropriés, veuillez contacter votre mairie, le service d'élimination des déchets ou le magasin où vous avez acheté le produit.
- IT Questo simbolo sul prodotto indica che l'apparecchio elettrico ed elettronico usato non deve essere smaltito insieme ai normali rifiuti domestici. Un corretto smaltimento del prodotto contribuisce a prevenire possibili effetti nocivi sulla salute umana e ambientale. Per il trattamento, il recupero e il riciclaggio appropriati, contattare l'ufficio competente locale, il fornitore del servizio di smaltimento rifiuti o il negozio in cui è stato acquistato il prodotto.
- ES Este símbolo en el producto indica que los equipos eléctricos y electrónicos usados no deben mezclarse con la basura doméstica. Su correcta eliminación ayudará a evitar posibles efectos negativos sobre la salud humana y el medio ambiente. Para un tratamiento, recuperación y reciclaje adecuados, póngase en contacto con su ayuntamiento, servicio de eliminación de residuos o el establecimiento donde adquirió el producto.
- PT Este símbolo no produto significa que o equipamento elétrico e eletrónico não deve ser misturado com os resíduos domésticos normais. A eliminação correta ajudará a prevenir possíveis efeitos negativos na saúde humana e no meio ambiente. Contacte as entidades responsáveis locais, o centro de tratamento de resíduos ou a loja onde adquiriu o produto para saber como tratar, recuperar e reciclar resíduos.
- NL Dit pictogram betekent dat gebruikte elektrische en elektronische apparatuur niet samen met huishoudelijk afval kan worden afgevoerd. Deze juiste wijze van afvalverwijdering draagt bij aan de preventie van mogelijke negatieve invloeden op de gezondheid van de mens en het milieu. Neem contact op met uw gemeente of afvalverzamelpunt of de winkel waar u het product hebt gekocht, voor de juiste behandeling, behoud en recycling.
- DA Dette symbol på produktet betyder, at brugt elektrisk og elektronisk udstyr ikke må blandes med almindeligt husholdningsaffald. Den korrekte bortskaffelse vil hjælpe med at forhindre potentielle negative virkninger på menneskers sundhed og miljøet. For korrekt behandling, indsamling og genbrug skal du kontakte dit lokale kommunekontor, affaldsstation eller butikken, hvor du købte produktet.

ATV EUROPE LDA.

Rua 28 de Janeiro, nr. 350 – Fração CC-11, Centro Empresarial Candal Park
Santa Marinha, 4400-335 Vila Nova de Gaia, PORTUGAL

ATV Corporation

888-340 Nakagawa, Hosoe-cho, Kita-ku, Hamamatsu, Shizuoka 431-1304, JAPAN

www.atvcorporation.com