

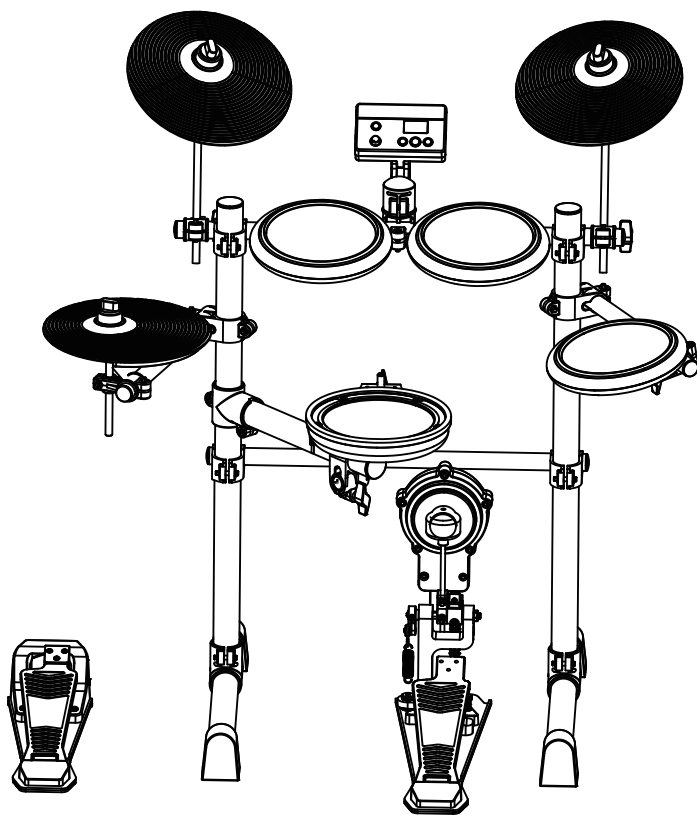
AROMA®

MUSICAL INNOVATION

用户手册 / USER MANUAL

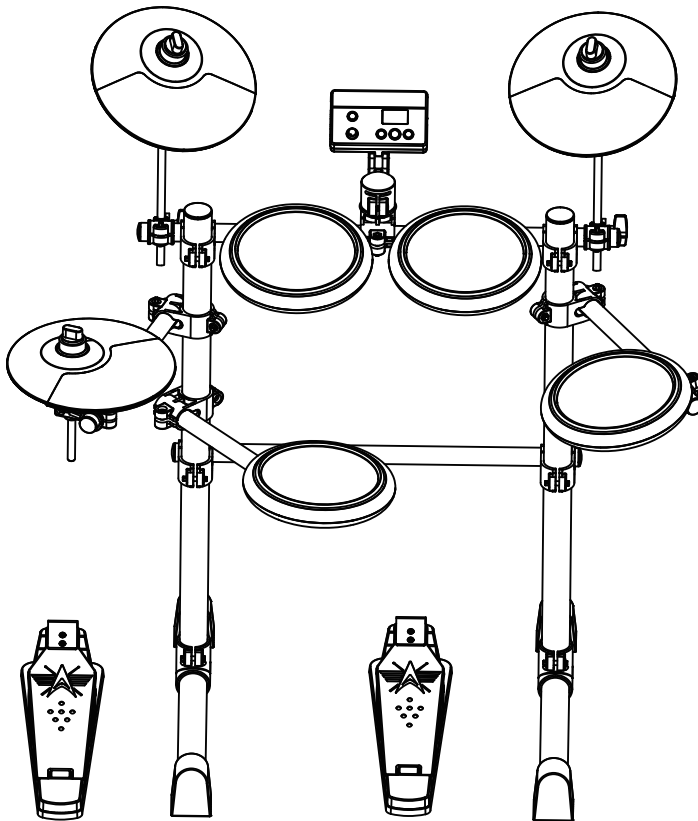
电子鼓 / Electronic Drum

TDX-16S



MADE IN CHINA

TDX-16



MADE IN CHINA

目录

产品特点	4
享受独自演奏的乐趣	4
全新的鼓盘设计	4
简约的主机设计	4
内置节拍器	4
安装简单	4
鼓组介绍	5
吊镲	5
叮叮镲	5
踩镲	5
嗵鼓	5
军鼓	5
底鼓	5
踩镲踏板	5
基本演奏	6
踩镲踏板和踩镲(HH)的配合演奏	6
底鼓踏板的演奏	6
叮叮镲的演奏	6
军鼓的演奏	6
主机介绍	7
使用功能	8
电源及音频线连接	8
开启主机电源	8
开启音箱电源	8
选择鼓组	8
节拍器功能	8
踏板校准与组合按键	9
踏板校准	9
其它组合按键功能描述	9
USB MIDI接口	10
技术指标	11

Catalog

Product Features	12
Enjoy Playing	12
Updated Mesh Drum Head	12
Simplified Control Panel Design	12
Metronome Inside	12
Easy Assembly	12
Drums Introduction	13
Crash Cymbal	13
Ride Cymbal	13
Hi-Hat	13
Tom drum 1. Tom drum 2. Tom drum 3	13
Snare drum	13
Bass drum	13
Hi-Hat Pedal	13
Basic Play Method	14
Play with Hi-Hat and Hi-Hat pedal	14
Play with Bass Drum pedal	14
Play with Ride Cymbal	14
Play with Snare drum	14
Host machine introduction	15
How to Use	16
Power and Audio cable Connection	16
Turn On/Off Host machine	16
Turn On Drum Amp(if using a drum amp)	16
Choose Drum sound kit	16
Metronome Function	16
Pedals Adjust and Buttons Patterns Function	17
Pedals Adjust	17
Other Buttons Patterns Functions	17
USB MIDI	18
Specifications	19

非常感谢您购买AROMA电子鼓TDX-16/16S产品。使用本产品前，请您先按照《TDX-16/16S电子鼓安装指南》完成所有的安装步骤，然后再阅读本使用手册！

AROMA®

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产品特点

享受独自演奏的乐趣

使用TDX-16/16S电子鼓连接专用电子鼓音箱阿诺玛品牌ADX40、30S、20(需另外购买)，适合各种场合使用。也可使用耳机聆听功能，只有您可以听到自己的演奏，而不像原声鼓会发出很大的声音，因此使用本产品无需担心会打扰他人。

全新的鼓盘设计

鼓盘全新升级设计，嗵鼓和军鼓采用全新网面，可以获得更好的敲击力度回馈和更小的物理噪声，使您在演奏过程中能获得更好的使用体验。

简约的主机设计

TDX-16/16S电子鼓音源主机采用最简功能设计,仅一个音量旋钮、两个鼓组选择键、一个节拍启动键。针对初学者去掉了繁琐的功能设置,简单易用。

内置节拍器

TDX-16/16S电子鼓自带节拍器,且速度可调。

安装简单

TDX-16/16S电子鼓组装完成只需八大步骤,并附有彩色安装步骤视图详解,使安装变的更方便。

鼓组介绍

吊镲(Crash Cymbal)

简称: CR, 10" 镲片, 采用优质硅胶与塑胶完美结合, 吊镲带有静音控制功能。

注: TDX-16为9" 镲片。

叮叮镲(Ride Cymbal)

简称: RD, 10" 镲片, 采用优质硅胶与塑胶完美结合, 叮叮镲带有静音控制功能。

注: TDX-16为9" 镲片。

踩镲(Hi-Hat)

简称: HH, 10" 镲片, 采用优质硅胶与塑胶完美结合。注: TDX-16为9" 镲片。

嗵鼓(Tom1、Tom2、Tom3)

简称:T1、T2、T3, 6" 网面鼓盘, 可以获得更好的敲击力度反馈和更小的物理噪声。

军鼓(Snare Drum)

简称:SD, 6" 网面鼓盘, 并采用双触发设计, 带力度感应和边击功能。

注: TDX-16军鼓采用和嗵鼓相同的鼓盘, 无边击功能。

底鼓(Bass Drum)

简称:BD, 也称为低音鼓, 采用铝合金踏板和鼓锤的方式设计。

注: TDX-16底鼓采用踩镲踏板的方式设计。

踩镲踏板(Hi-Hat Pedal)

简称: HHP, 踩镲踏板, 采用铝合金踏板设计, 可与踩镲配合使用实现不同的音色表现。

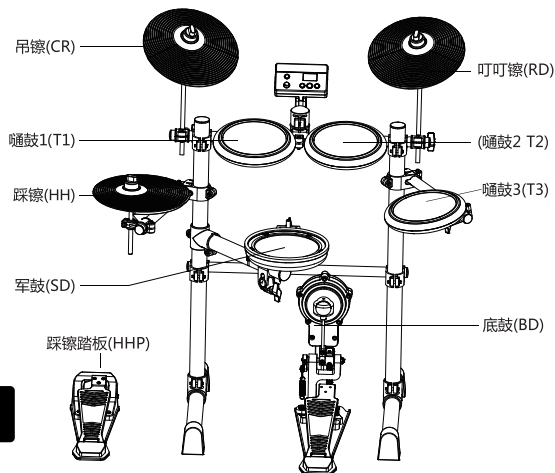


图1 TDX-16S

温馨提示: 以上简称描述的英文字符均贴在了每个鼓盘的音频插座附近, 同时也是每个鼓盘与DB25音频线连接的参考标志。(DB25音频线每跟6.35插头端也带有相同的英文字符标志)

基本演奏

演奏电子鼓时需要同时使用双手和双脚。在此我们将说明如何使用鼓棒不同敲打方式以及和踏板的配和实现各种演奏音效。

踩镲踏板和踩镲（HH）的配合演奏

当完全踩下踩镲踏板后，鼓棒敲击踩镲(HH)，会发出短暂的“吡吡”声，见（图2）；
当完全松开踩镲踏板后，鼓棒敲击踩镲(HH)，会发出很长的“嚓...”声，见（图3）；
当单独使用踩镲踏板时，根据不同的踩踏速度会发出不同强弱的“嚓嚓”声音。

底鼓踏板的演奏

当踩下底鼓踏板时，不同的踩踏力度也会发出不同强弱的声音。

叮叮镲的演奏(RD)

用不同的敲打角度，按（图4）敲打镲面（Bow Shot）和（图5）重敲镲面和中心(Bell Shot)会发出新的声音效果。当需要叮叮镲立即静音时，手指按压该打击板的边沿，可以立即静音。
同样叮叮镲(RD)也具备静音控制功能，见图黑色区域(图6)。

军鼓的演奏(SD)

按（图7）方法，会发出军鼓音效，不同的敲打力度会发出强弱和音色不同的军鼓音效；
按（图8）的敲击方式，会发出边击的音效(Cross stick)，仅TDX-16S具备；

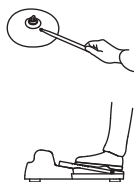


图2

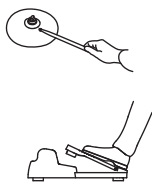


图3



图4

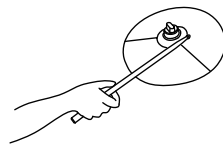


图5



图6

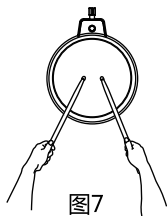


图7



图8

主机介绍

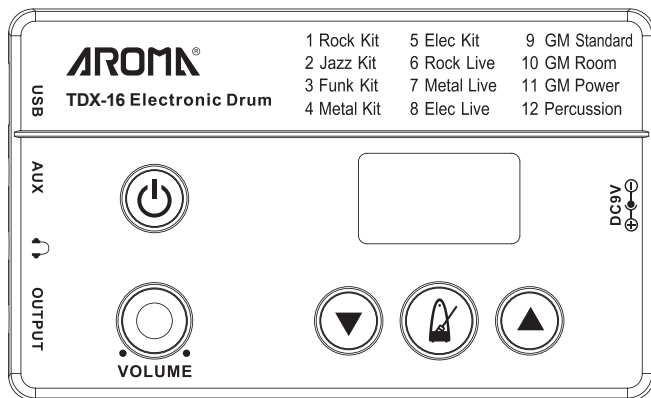


图9

⏻ 短按开启电源/长按关闭电源。

"VOLUME": 总音量调节。

🔊: 节拍器开启/停止。

"▼" "▲": 按此按钮选取需要的鼓组音色 (节拍器开始后变为调节节拍速度和节拍)。

"USB": USB MIDI 输入/输出接口(详见第10页描述)。

"AUX": 3.5mm外接音源输入。

🎧: 3.5mm耳机插孔。

"OUTPUT": 3.5mm音频输出, 连接外置音箱。

"DC9V": 连接DC9V ♂-♀-♂ 适配器。

使用功能

1.电源及音频线连接

采用本机附带的音频线，连接主机OUTPUT接口和鼓监听音箱的信号输入接口。然后连接适配器至DC9V接口。

2.开启主机电源

按下“”键，即可开机，长按1s以上即可关机。

3.开启音箱电源

调整鼓监听音箱的音量至中间位置，开启音箱电源。鼓棒可一边敲击鼓组一边再次调节主机和音箱的音量旋钮至合适的位置。

4.选择鼓组

开机默认为鼓组:Rock Kit，通过选择按钮，可选择不同鼓组音色。选定鼓组后即可开始电子鼓演奏了。

鼓组选择：

1 Rock Kit	5 Elec Kit	9 GM Standard
2 Jazz Kit	6 Rock Live	10 GM Room
3 Funk Kit	7 Metal Live	11 GM Power
4 Metal Kit	8 Elec Live	12 Percussion

5.节拍器功能

1. 按中间的“”按键进去节拍器模式，此时按“▲”或“▼”按键可以调节速度；
2. 在节拍器模式下，长按“”按键3秒进入选择节拍模式（默认是4拍，显示为B-4），此时按“▲”或“▼”按键可以调节节拍（1~8）；
3. 调完节拍后，再按“”按键，回到调节速度模式，再次按“”按键回到选择鼓组模式。

踏板校准与组合按键

1. 踏板校准

产品受环境和温度影响，踏板使用的霍尔元件灵敏度可能产生变化。若出现此情况时，需要对踏板进行校准。本产品通过组合按键可进入校准模式，然后再进行踏板校准。方法如下：

TDX-16S：关机状态下，同时长按“ + ”进入踏板校准模式，当屏幕显示“HHF”字样后，自然踩下踩镲踏板，不要松开，直到系统设置完成。在校准过程中“”键会循环显示绿色和橙色，当“”键变为红色时表示已校准完成并自动退出校准模式。

TDX-16：关机状态下，同时长按“ + ”进入踏板校准模式，当屏幕显示“bdF”字样后，自然踩下低鼓踏板，不要松开，在低鼓踏板校准过程中“”键会循环显示绿色和橙色，当低鼓踏板校准完成时，屏幕会显示“HHF”字样，自然踩下踩镲踏板，不要松开，直到系统设置完成。在踩镲踏板校准过程中“”键会循环显示绿色和橙色，当“”键变为红色时表示已校准完成并自动退出校准模式。

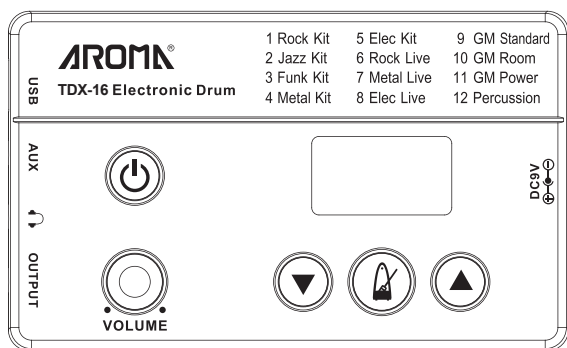


图10

2. 其它组合按键功能描述

1. 关机状态下，同时长按“ + ”为USB升级功能，此时屏幕会显示“UPG”字样，可通过USB连接电脑更新主机软件。
2. 关机状态下，同时长按“ + ”为恢复出厂设置功能，此时屏幕会显示“CLr”字样。
3. 开机状态下，长按“”键3秒，可查询软件版本。如果当前软件版本为1.0，那么TDX-16S会显示“1.0G”字样，TDX-16会显示“1.0”字样。

USB MIDI 接口

本产品自带USB接口的MIDI音效输出/输入功能，通过USB电缆可连接带有MIDI IN功能的鼓机设备。也可以连接至PC的USB接口，通过专用软件在PC上编曲，再通过本主机播放出来。

温馨提示: MIDI指数字乐器接口，是编曲界最广泛的音乐标准格式，它用音符的数字控制信号来记录音乐。因此MIDI传输的不是声音信号而是音符、控制参数等指令，它告诉MIDI设备演奏哪个音符、何时演奏、音量大小等。

MIDI通信格式表：

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	10	1 ~ 8 & 10 ~ 16	
	Changed	x	x	
Mode	Default	x	Mode 3	
	Messages Altered	x *****	x *****	
Note Number		0 ~ 127	0 ~ 127	
	True voice	*****	0 ~ 127	
Velocity	Note ON	0 ~ 127	0 ~ 127	
	Note OFF	x	0 ~ 127	
After Touch	Keyss	x	x	
	Channelss	x	x	
Pitch Bend		x	O	
Control Change	0	x	O	Bank Select
	1	x	O	Modulation
	4	x	O	Foot Control
	5	x	O	Portamento Time
	6	x	O	Data Entry
	7	x	O	Volume
	10	x	O	Pan
	11	x	O	Expression
	64	x	O	Sustain Pedal
	65	x	O	Portamento On/Off
	66	x	O	Sostenuto Pedal
	67	x	O	Soft Pedal
	71	x	O	Resonance
	72	x	O	Release Time
	73	x	O	Attack Time
	74	x	O	Cut Off
	80	x	O	Reverb Program
	81	x	O	Chorus Program
	90	x	O	Reverb Level
	91	x	O	Chorus Level
Program Change	120	x	O	All Sound OFF
	121	x	O	Reset All Controller *1
	123	x	O	All Notes OFF *1
System Exclusive		x	O	
System common	Song Position	x	x	
	Song Select	x	x	
	Tune	x	x	
System Real Time	Clock	x	x	
	Commands	x	x	
Aux Messages	Local ON/OFF	x	x	
	All Notes OFF	x	x	
	Active Sense	O	x	
	Reset	x	x	

Mode 1 : Omni On, Poly Mode 2 : Omni On, Mono O : Yes X : No
Mode 3 : Omni Off, Poly Mode 4 : Omni Off, Mono Notes *1 Except 9, 10 Channel

技术指标

鼓组数量	吊镲、叮叮镲、踩镲、嗵鼓*3、军鼓、踩镲踏板、底鼓踏板	
鼓组音色	12组	
节拍器	速度	40~240BPM
	节拍	1~8
控制按键	电源键	
	▲▼ 选择键	
	节拍键	
	VOLUME主音量旋钮	0~100级
显示视窗	3位8字数码管显示	
外部接口	3.5mm 音频输出接口	
	3.5mm 耳机接口	
	3.5mm AUX输入接口	
	USB B型MIDI接口	
	DB25鼓组信号侦测线接口	
	外置适配器电源接口	
额定电压	DC9V 	
额定电流	300mA	
附件	电子鼓一套，安装指南，用户手册，产品合格证，AC适配器1个，音频线一根，M6扳手1个，鼓棒1对	
选购产品 (另售)	电子鼓监听音箱	ADX-40(40W), ADX-30S(30W), ADX-20(20W)
	鼓毯	TDA-10灰色 1.4 × 1米

温馨提示：产品信息如有变更，恕不另行通知，一切请以实物为准。

Thank you for purchasing Aroma TDX-16/16S Electronic Drum. Please assemble TDX-16/16S following **TDX-16/16S ASSEMBLY DIRECTORY** steps, and then read below manual

Product Features

Enjoy Playing

Connect TDX-16/16S electronic drum kit to drum amp ADX-40、20(optional purchase). Adjust sound level and choose different sound patterns. Play quietly with headphone connects Enjoy playing alone and not disturb others.

Updated Mesh Drum Head

All the Tom drums and Snare use mesh heads, which are feeling much better and quieter.

Simplified Control Panel Design

TDX-16/TDX-16S host machine control panel is designed to make everything simple, with only one volume knob, two drum sound switch buttons, and one metronome button.

Metronome Inside

TDX-16/TDX-16S with a click function, tempo adjustable.

Easy Assembly

Only 8 steps to assemble TDX-16/16S electronic drum kit. Please follow attached ASSEMBLY DIRECTORY to assemble your drum kit.

Drums Introduction

Crash Cymbal

Mark name: CR. 10" diameter. Made from high quality silicone and plastic. Positioned left top of drum kit. Crash cymbal has mute function.

Remark: 9" for TDX-16.

Ride Cymbal

Mark name: RD. 10" diameter. Made from high quality silicone and plastic. Positioned right top of drum kit. Ride cymbal has mute function.

Remark: 9" for TDX-16.

Hi-Hat

Mark name: HH. 10" diameter. Made from high quality silicone and plastic. Positioned left of drum kit.

Remark: 9" for TDX-16.

Tom Drum 1, Tom Drum 2, Tom Drum 3

Mark name: T1, T2, T3. 6" mesh head. Play feeling is closer to real drum head and much quieter.

Snare Drum

Mark name: SD. 6" mesh pad, with double triggers. Side stick function, and dynamics induction.

Remark: TDX-16 snare drum features the same as tom drums without side stick function.

Bass Drum

Mark name: BD. Mechanical bass drum pedal with bass drum pad.

Remark: TDX-16 bass drum designed with only a pedal.

Hi-Hat Pedal

Mark name: HHP. Pedal made from high quality aluminum alloy. Play with Hi-Hat to make difference sound.

Remind: Each Mark Name marked on each pad and cymbal audio port, and also on each audio cable end.

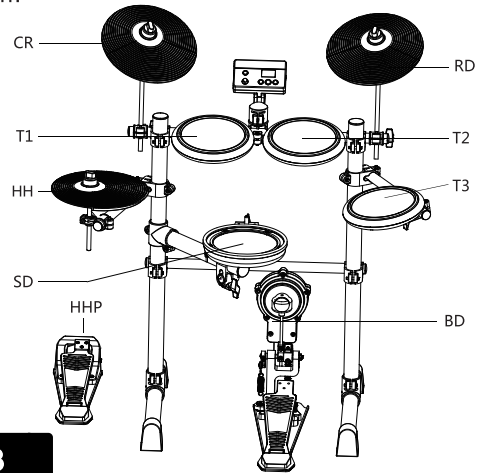


Diagram 1 TDX-16S

Basic Play Method

This is a brief introduction how to play with your both hands and both feet.

Play with Hi-Hat and Hi-Hat pedal

Stamp down Hi-Hat pedal, hit Hi-Hat, make short sounds'tzi tzi ...', refer to Diagram 2.

Loose Hi-Hat pedal, hit Hi-Hat, make long sound'tza...', refer to Diagram 3.

Play with Hi-Hat pedal alone, to make different strong or weak sound of 'tza, tza...' based on the speed and the strength of your each stamp on the Hi-Hat pedal.

Play with Bass Drum pedal

Make different bass drum sounds based on the speed and the strength of your each stamp on the bass drum pedal.

Play with Ride Cymbal

Offers Bow Shot (diagram 4) and Bell Shot (diagram 5) options.

To mute the Ride Cymbal, use your fingers to press the cymbal edge black area, refer to Diagram 6.

Play with Snare Drum

Refer to diagram 7, Snare drum makes different sounds to play strength. Refer to diagram 8, to make Cross Stick sound (only TDX-16S).



Diagram 2

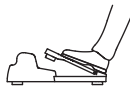
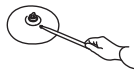


Diagram 3

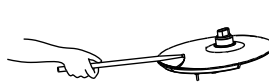


Diagram 4

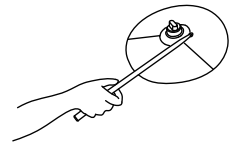


Diagram 5



Diagram 6

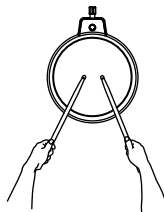


Diagram 7



Diagram 8

Host Machine Introduction

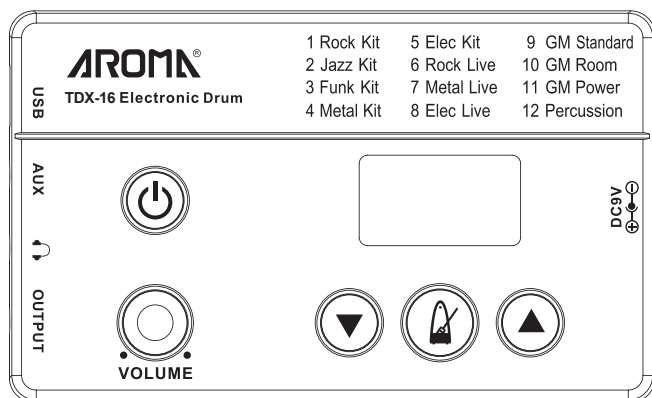


Diagram 9

 Press to turn On power / Press and hold to turn Off power.

"VOLUME" : Control the whole drum kit volume.

 : Metronome On / Off.

"▼" "▲" : Choose drum sound patterns. (to adjust tempo and beat when the click is on)

"USB" : USB MIDI port (refer to page 18 for details).

"AUX" : 3.5mm gauge audio cable input.

"": 3.5mm gauge earphone output.

"OUTPUT" : 3.5mm gauge audio cable output to drum amp.

"DC9V" : Connect to DC9V power adapter , negative tip.

How to Use

1. Power and Audio Cable Connection

Use the attached audio cable to connect OUTPUT of host machine to your drum amp. Or, connect your headphone to the earphone port of Host Machine. And then connect the power adapter to DC9V port of Host Machine.

2. Turn On/Off Host Machine

Press button  to turn On the machine. Press and hold the button  to turn Off the machine.

3. Turn On Drum Amp (if using a drum amp)

Turn on the drum amp and adjust the drum amp volume level. Hit the drum pad in the same time and adjust Host Machine volume control and the drum amp volume control to make a balance.

4. Choose Drum Sound Kit

The preset drum sound kit calls rock Kit. Press buttons "▲" and "▼" to choose different sound kits.

Drum kit sound patterns

1 Rock Kit	5 Elec Kit	9 GM Standard
2 Jazz Kit	6 Rock Live	10 GM Room
3 Funk Kit	7 Metal Live	11 GM Power
4 Metal Kit	8 Elec Live	12 Percussion

5. Metronome Function

1. When power on, press button "  " into metronome mode, then press " ▲ " and " ▼ " to adjust the tempo;
2. Under metronome mode, press and hold button "  " for 3 seconds to choose beat mode (presets B-4), now press " ▲ " or " ▼ " button to adjust the beat(1~8);
3. After choosing the ideal beat, press "  " button, back to tempo adjustment mode, then press "  " again, back to choose different sound kits mode.

Pedals Adjust and Buttons Patterns Function

1. Pedals Adjust

Influenced by humidity and temperature, the sensitivity of pedals might differ. If this happened, use buttons pattern to adjust the sensitivity by following steps.

TDX-16S : When power OFF, press and hold buttons “ + ” to enter pedal adjust mode. While the screen showing “HHF”, stamp down the hi-hat pedal and hold till the system setup finished. During system setup, “” button continuously shows green color and orange color, and shows red color when system setup finished, and then the host machine log out the pedal adjust mode.

TDX-16 : When power OFF, press and hold buttons “ + ” to enter pedal adjust mode. While the screen showing “bdF”, stamp down the bass drum pedal and hold, “” button continuously shows green color and orange color till the bass drum pedal setup finished, release the bass drum pedal. And then the screen showing “HHF”, stamp down the hi-hat pedal and hold, “” button continuously shows green color and orange color, and shows red color when system setup finished, and then the host machine log out the pedal adjust mode.

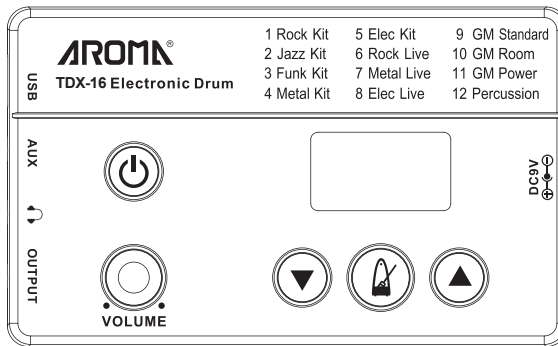


Diagram 10

2. Other Buttons Patterns Functions

1. When power OFF, press and hold buttons “ + ” to enter USB software update function. The screen shows “UPG”, use a USB cable connecting to a computer updating the host machine system.
2. When power OFF, press and hold buttons “ + ” to enter Factory Reset. The screen shows “CLr”.
3. When power ON, press and hold button “” 3 seconds to refer system version information. For example, if the current version is 1.0, TDX-16S shows “1.0G”, TDX-16 shows “1.0”.

USB MIDI

Connect to your synthesizer or personal computer to play your MIDI music.MIDI
(musical instrument digital interface) format list.

MIDI:

Function		Transmitted	Recognized	Remarks
Basic Channel	Default	10	1 ~ 8 & 10 ~ 16	
	Changed	x	x	
Mode	Default	x	Mode 3	
	Messages Altered	x *****	x *****	
Note Number		0 ~ 127	0 ~ 127	
	True voice	*****	0 ~ 127	
Velocity	Note ON	0 ~ 127	0 ~ 127	
	Note OFF	x	0 ~ 127	
After Touch	Keyss	x	x	
	Channelss	x	x	
Pitch Bend		x	O	
Control Change	0	x	O	Bank Select
	1	x	O	Modulation
	4	x	O	Foot Control
	5	x	O	Portamento Time
	6	x	O	Data Entry
	7	x	O	Volume
	10	x	O	Pan
	11	x	O	Expression
	64	x	O	Sustain Pedal
	65	x	O	Portamento On/Off
	66	x	O	Sostenuto Pedal
	67	x	O	Soft Pedal
	71	x	O	Resonance
	72	x	O	Release Time
	73	x	O	Attack Time
	74	x	O	Cut Off
	80	x	O	Reverb Program
	81	x	O	Chorus Program
	90	x	O	Reverb Level
	91	x	O	Chorus Level
Program Change	120	x	O	All Sound OFF
	121	x	O	Reset All Controller *1
	123	x	O	All Notes OFF *1
Program Change		x	O	
System Exclusive		x	O	
System common	Song Position	x	x	
	Song Select	x	x	
	Tune	x	x	
System Real Time	Clock	x	x	
	Commands	x	x	
Aux Messages	Local ON/OFF	x	x	
	All Notes OFF	x	x	
	Active Sense	O	x	
	Reset	x	x	

Mode 1 : Omni On, Poly Mode 2 : Omni On, Mono

Mode 3 : Omni Off, Poly Mode 4 : Omni Off, Mono

O : Yes

X : No

Notes *1 Except 9, 10 Channel

Specifications

Drum Kit Contents	crash cymbal, hi-hat, ride cymbal, tom drum * 3, snare drum, hi-hat pedal, bass drum pedal	
Drum Sound Kit Quantity	12	
Metronome	Tempo	40-240 BPM
	Beat	1- 8
Control Buttons	Power Button	
	▲ ▼ Button	
	Metronome Button	
	Main Volume Button	0-100
LCD Screen	3 digit numbers by tubes	
Interface	3.5mm gauge audio port	
	3.5mm earphone port	
	3.5mm aux port	
	USB B type MIDI port	
	DB25 drums signal cables	
	AC/DC adapter port	
Power Voltage	DC9V  	
Power Current	300mA	
Accessories	Electronic drum kit, Assembly Direction, Operation Manual, AC adapter, Audio cable -1 piece, M6 tool -1 piece, drum sticks -1 pair	
Optional Products	Drum Amp	ADX-40(40W), ADX-20(20W)
	Drum Rug	Dimension 1.40 × 1.00m

Remind: Product information is subject to change without prior notice.



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