


# 内容详见附页

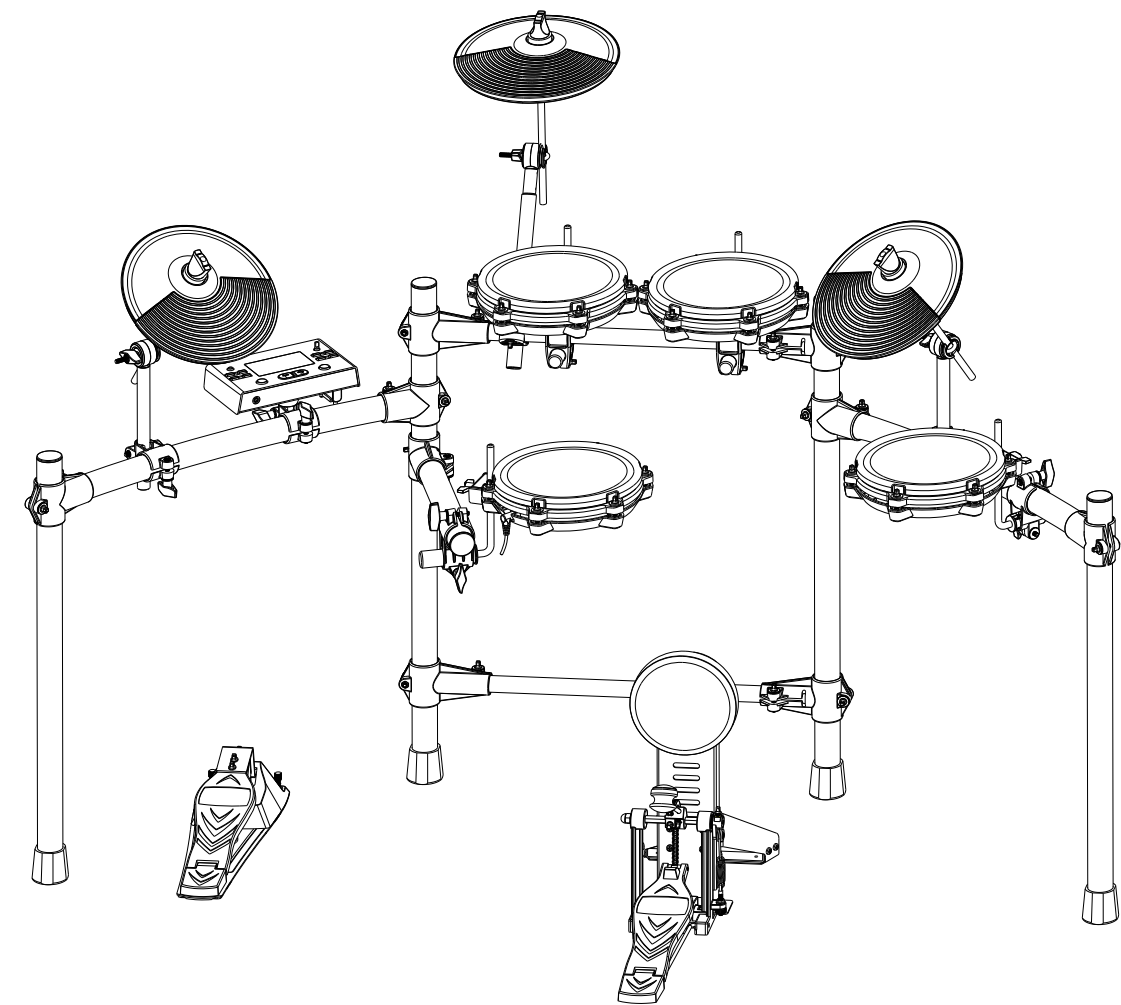
说明： * V1 * 骑马钉装订 * 尺寸：410(L)x288(W)mm * 材料：80g书写纸，双面印刷 * 颜色及其它详见电子文档 * 请送样品确认。	作废	_____
	作废	_____
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	作废	_____
	作废	_____

日期	21-10-26	名称	美国KAT KT-150贴DM-200说明书		料号		版本	V1	
设计	郑敬轩	文件名	美国KAT KT-150贴DM-200说明书.cdr		光盘号	_____	材料	80g书写纸	
内容审核		视角	_____	单位	毫米(mm)	颜色		图号	
标准化		 深圳市蔚科电子科技有限公司 CHERUB TECHNOLOGY COMPANY LIMITED				尺寸公差	±1.5mm	密级	普通
批准									

# User Manual

# KAT

## KT-150 DIGITAL DRUM KIT



### THE FCC REGULATION WARNING (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.





Made in China

## USING THE UNIT SAFELY

### INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

#### About ⚠️ WARNING and ⚠️ CAUTION Notices About the Symbol

 <b>WARNING</b>	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.	 <b>CAUTION</b>	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.
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#### ALWAYS OBSERVE THE FOLLOWING

##### ⚠️ WARNING

- Before using this unit, make sure to read the instructions below and the Owners Manual.
- Do not open (or modify in any way) the unit or its AC adaptor.
- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Service Center.
- Never use or store the unit in places that are: Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are Damp (e.g., baths, washrooms, on wet floors); or Are Humid; or Are Exposed to rain; or Are Dusty; or Are Subject to high levels of vibration.
- This unit may be installed on a stand using a Clamp.
- When installing the unit on a stand with a clamp, the stand must not be placed in an unstable location or on an incline, but in a level and stable position. Even if a stand is not used, make sure that the unit is placed in a stable location.

##### ⚠️ WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptors body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.
- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock Hazards!
- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an Audiologist.
- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

##### ⚠️ WARNING

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Service Center.

The AC adaptor or the power-supply cord has been damaged; or  
If smoke or an unusual odor occurs  
Objects have fallen into, or liquid has been spilled onto the unit; or  
The unit has been exposed to rain (or otherwise has become wet); or  
The unit does not appear to operate normally or exhibits a marked change in performance.

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

- Protect the unit from strong impact. (Do not drop it!)

- Do not force the units power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords the total power used by all devices you have connected to the extension cords outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

- Before using the unit in a foreign country, consult with your retailer, the nearest Service Center.

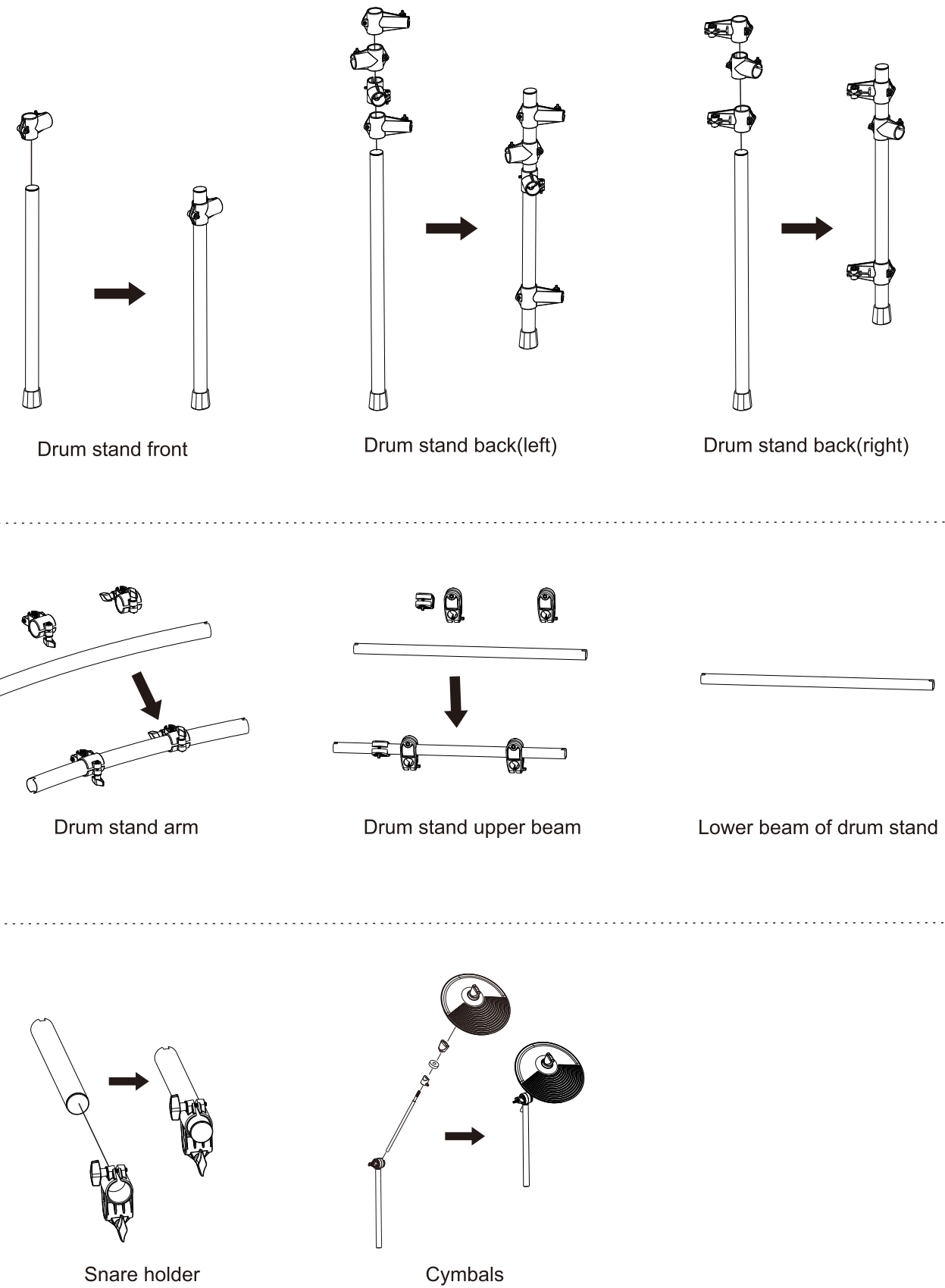
##### ⚠️ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.
- Always grasp only the output plug or the body of the AC adaptor when plugging into, or unplugging from, this unit or an outlet.
- Any accumulation of dust between the AC adaptor and the power outlet can result in poor insulation and lead to fire. Periodically wipe away such dust with a dry cloth. Also, disconnect the power plug from the power outlet whenever the unit is to remain unused for an extended period of time.
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.
- Never climb on top of, nor place heavy objects on the unit.
- Never handle the AC adaptor body, or its output plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.
- If you need to move the instrument, take note of the precautions listed below. Make sure to have a firm grip, to protect yourself from injury and the instrument from damage.  
Check to make sure that the clamp that fixes the unit to the stand has not become loose. Fasten them again securely whenever you notice any loosening.  
Disconnect the power cord.  
Disconnect all cords coming from external devices.
- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet.
- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.
- Should you remove security screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

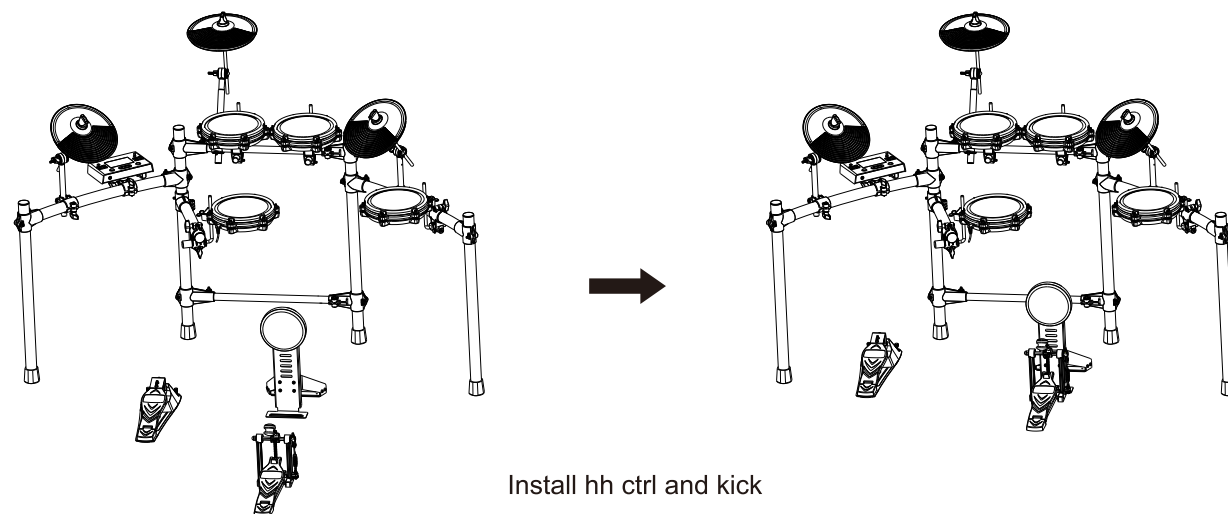
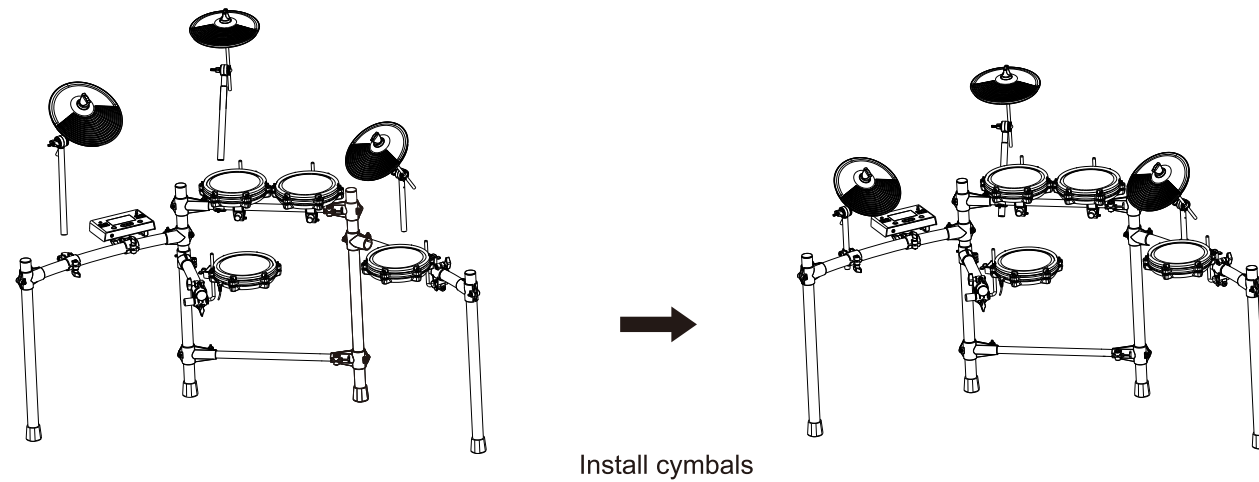
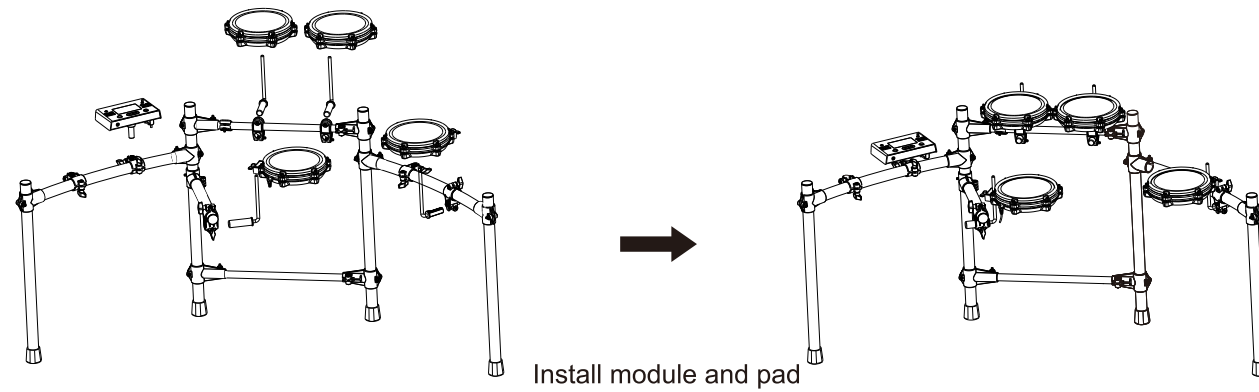
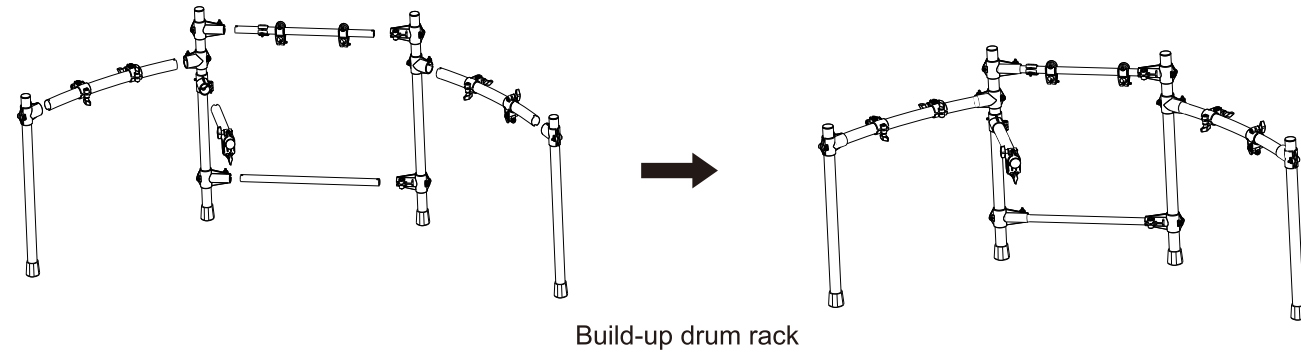
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# ASSEMBLY DIAGRAM



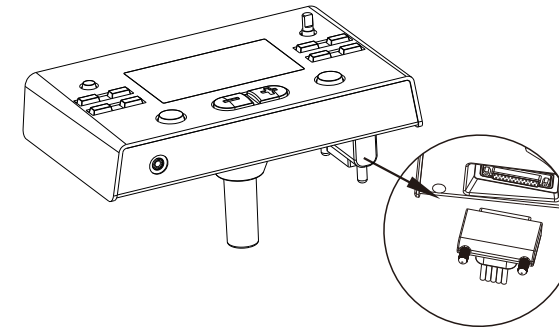
## ASSEMBLY DIAGRAM



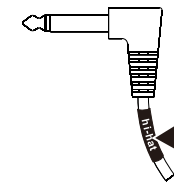
## ASSEMBLY DIAGRAM

### Cable connection

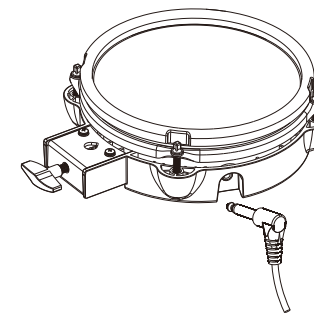
1. Connect the cable to the module.



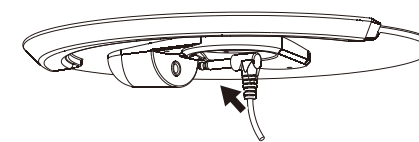
2. The label on the cable indicates the drum pad to be connected.



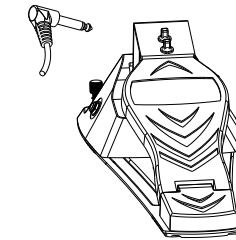
Connect the drum pad:



Connect the cymbal pad:

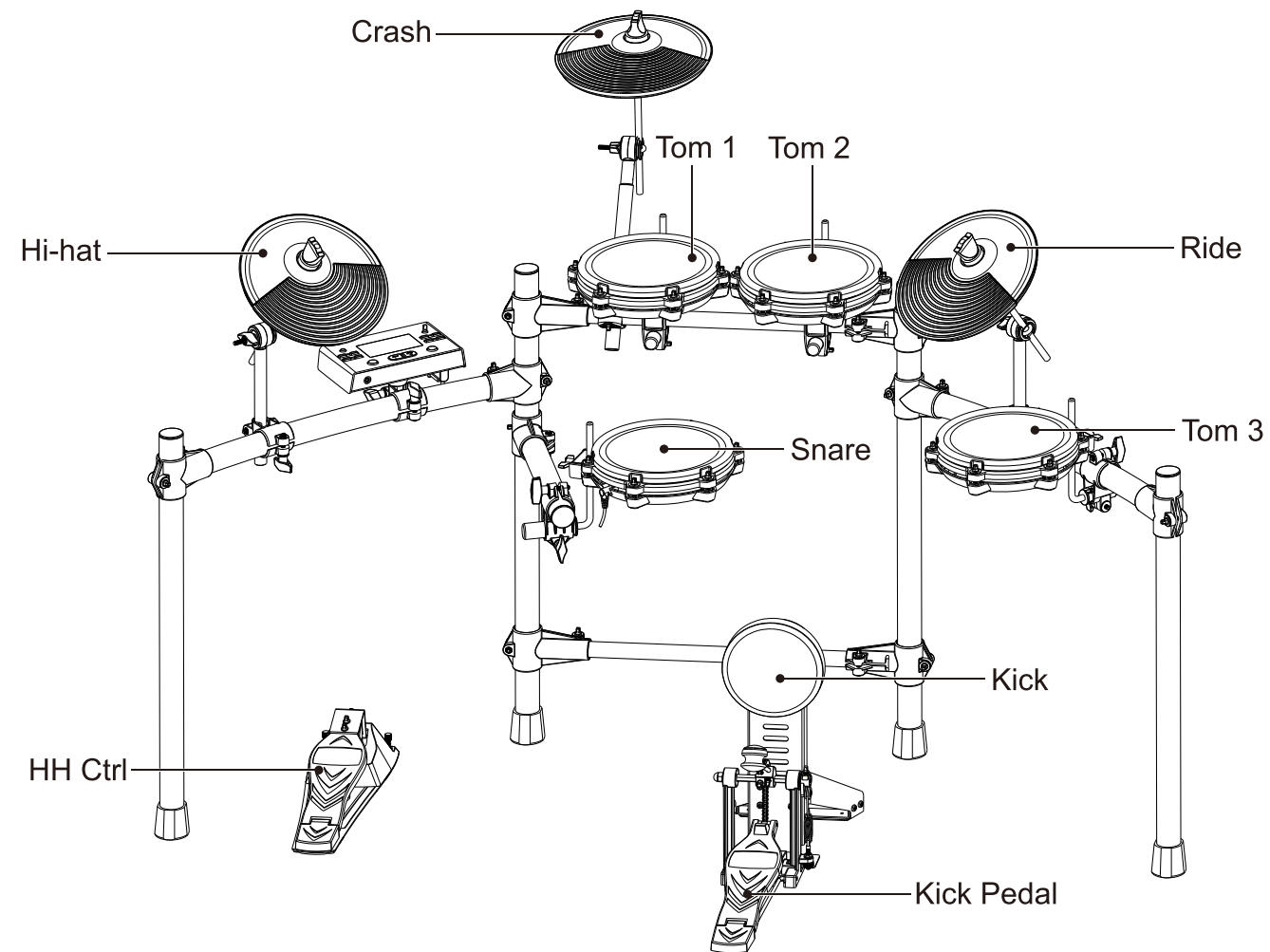


3. Connect the hh ctrl and kick.

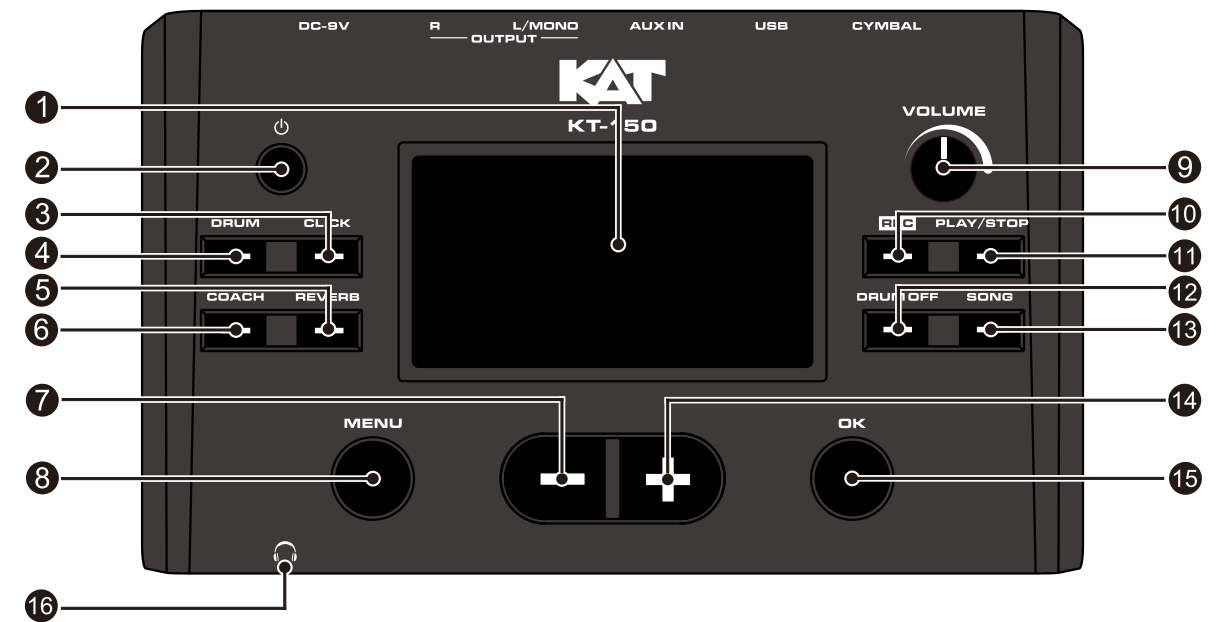


In order to prevent equipment damage, please shut down during the connection process.

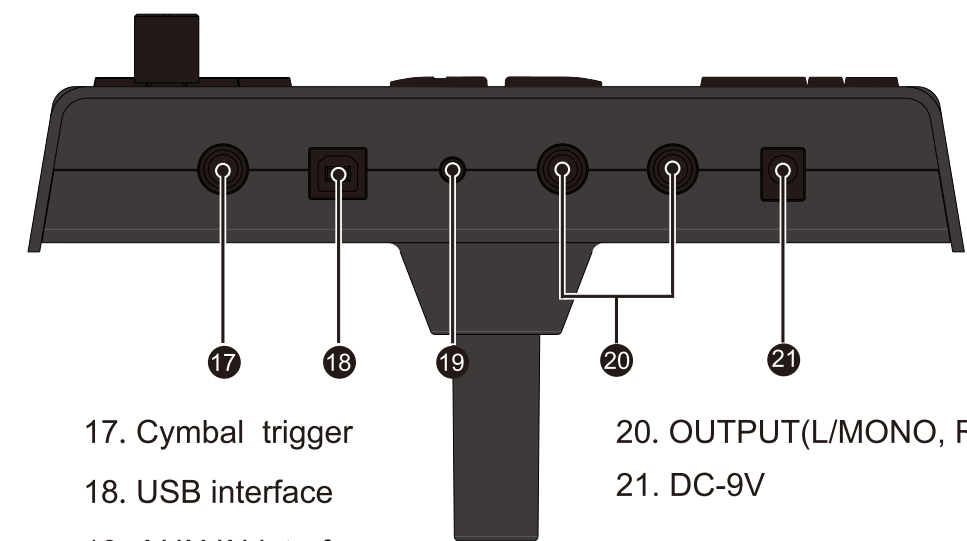
# FINISH



# MODULE CONTROL PANEL

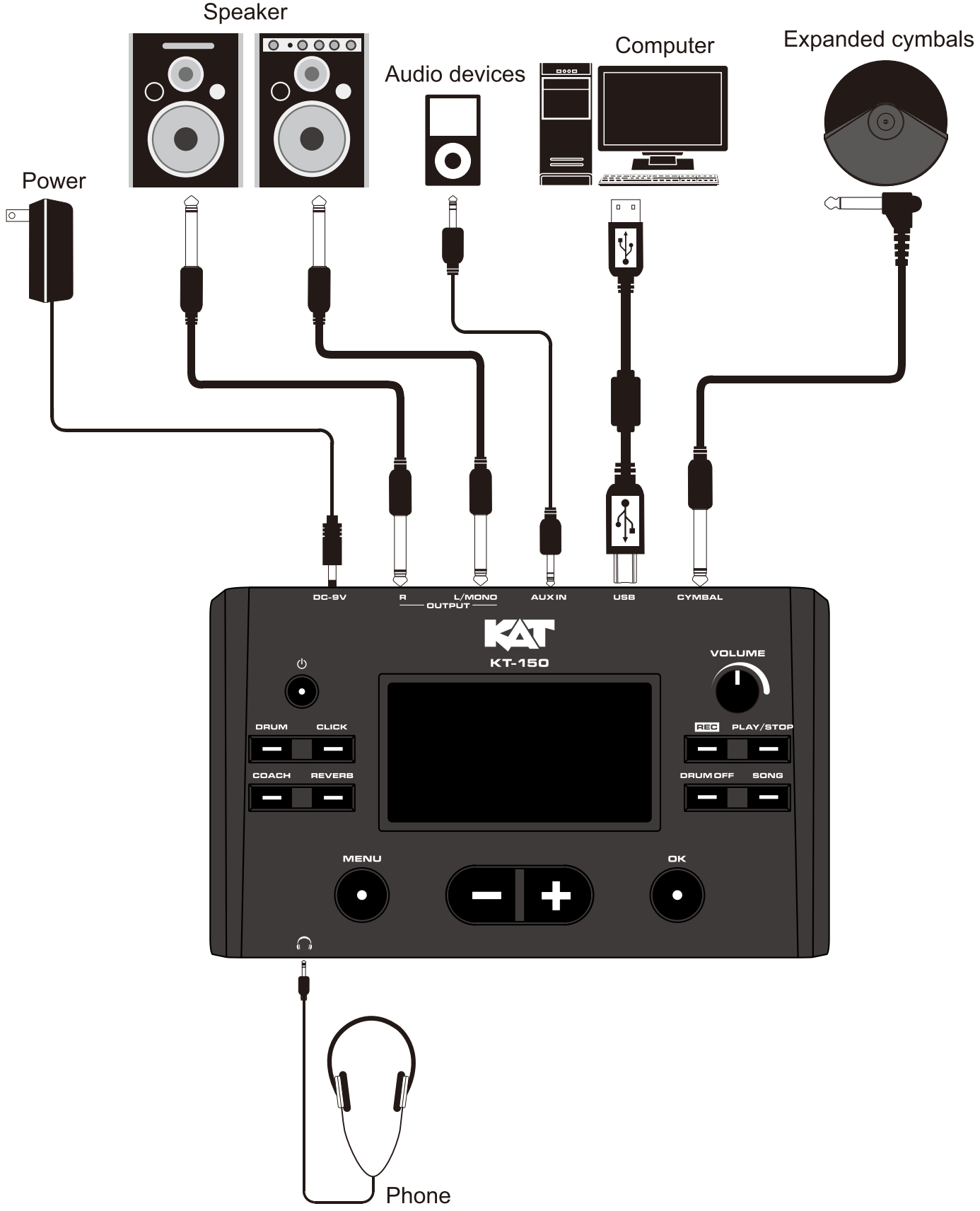


- |                         |  |
|-------------------------|--|
| 1. Screen display       | 9. Volume adjustment                   |
| 2. Power on/off         | 10. Recording                          |
| 3. Click on/off         | 11. Play/stop                          |
| 4. Drum kit mode        | 12. Mute the drum sound into demo song |
| 5. Reverb on/off        | 13. Demo song                          |
| 6. Coach on/off         | 14. Parameter adjustment               |
| 7. Parameter adjustment | 15. OK                                 |
| 8. Menu                 | 16. Phone                              |



- |                      |                        |
|----------------------|------------------------|
| 17. Cymbal trigger   | 20. OUTPUT (L/MONO, R) |
| 18. USB interface    | 21. DC-9V              |
| 19. AUX IN interface |                        |

# CONNECT EXTERNAL DEVICES



**WARNING:**  
In order to prevent equipment damage, please shut down during the connection process.

# MODULE CONTROL PANEL



- 1. Power display
- 2. Parameter name display
- 3. Tempo
- 4. Part display
- 5. Parameter display
- 6. Beat

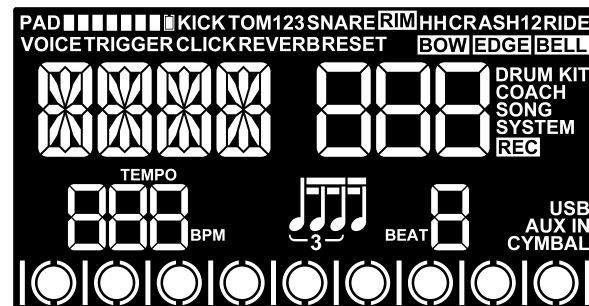
## READY TO PLAY

### \*Turn on power

1. Adjust the volume to lowest.
2. Adjust the amp volume to lowest.
3. Turn the power.



When the power is turned on, a weak sound may be heard, which is normal.



4. Hit the pad and adjust the volume as you need.

### \* Turn off power

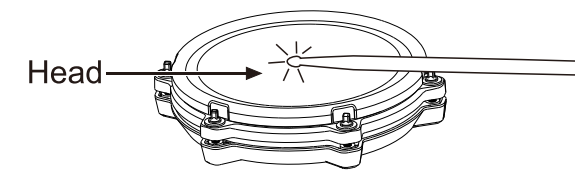
1. Adjust the amp volume to lowest.
2. Turn off the amp.
3. Turn the power of KT-150.



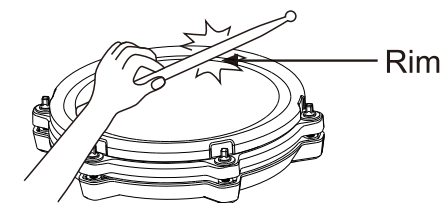
## READY TO PLAY

### \*Snare

**Head shot**  
Hit the head.

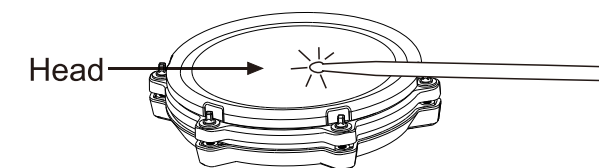


### Cross stick

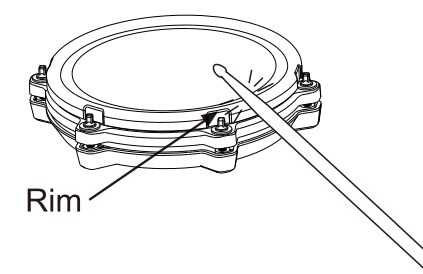


### \* Tom

**Head shot**  
Hit the head.

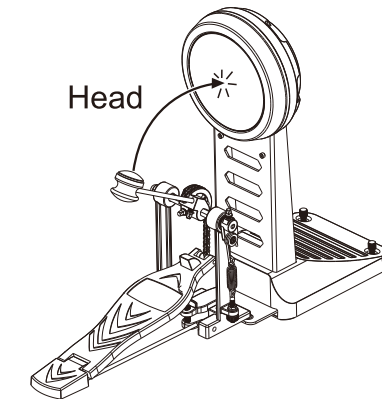


**Rim click**  
Hit the rim.



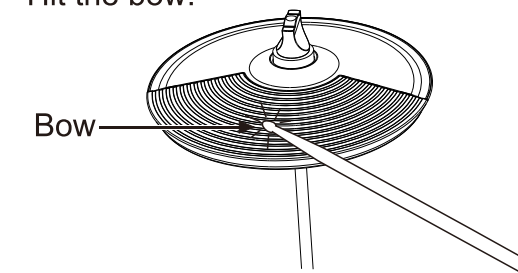
### \* Kick

Strike down the kick pedal.

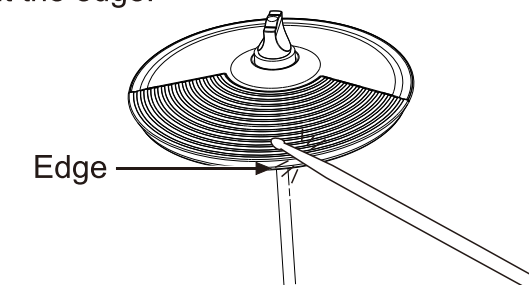


### \*Crash Ride

**Bow shot**  
Hit the bow.

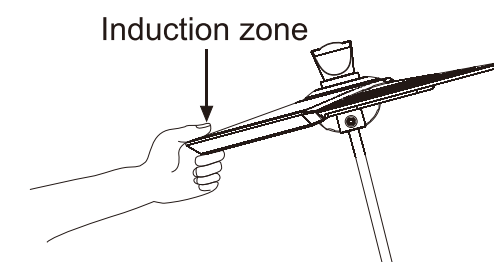


**Edge shot**  
Hit the edge.



### Choke

Choke the cymbal's edge with the hand immediately after hitting the cymbal will mute the sound. The choke function only works when you grasp in the area.





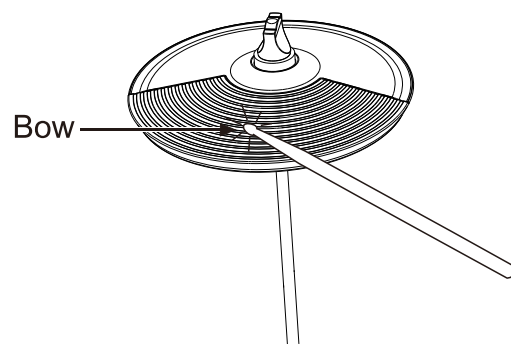
## READY TO PLAY

### \*Hi-hat

The hi-hat sound will change smoothly between open and closed depending on pressure applied to the hi-hat control pedal.

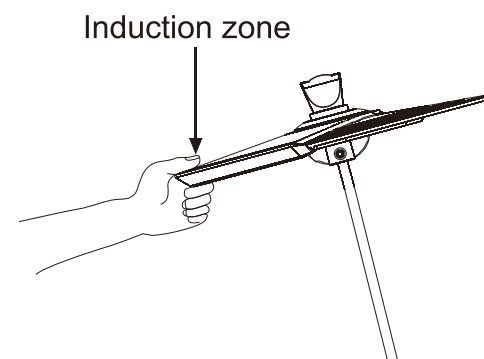
#### Bow shot

Hit the bow.

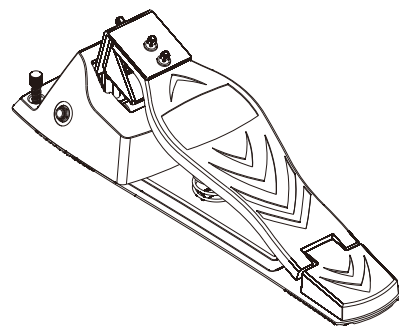


#### Choke

Choke the cymbal's edge with the hand immediately after hitting the cymbal will mute the sound. The choke function only works when you grasp in the area.



### \*HH Ctrl



#### Open hi-hat

Hit the hi-hat without pressing the pedal.

#### Close hi-hat

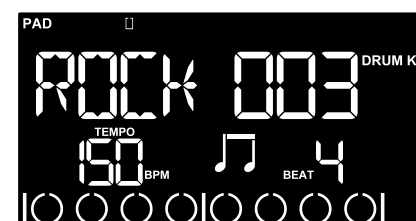
Hit the hi-hat with the pedal pressed.

## FUNCTION OPERATION

### Switch the drum kit

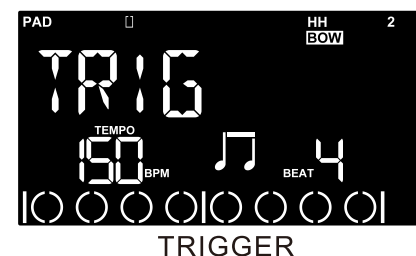
#### \* Boot into Drum Kit

1. Use the - + button to switch the drum kit.
2. Press the drum button to enter the drum kit mode in any mode.



### Drum pad setup

1. Press the MENU button to enter menu function in drum kit mode.
2. Use the - + button to select voice or TRIG (trigger) to adjust the drum pad parameters, press the ok button to confirm, and press the MENU button to return to the main menu.



#### \*Voice

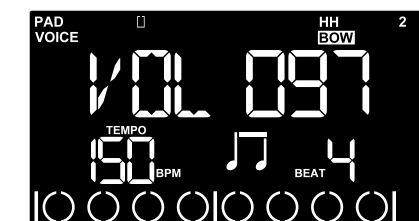
1. In VOICE function, hit any drum pad to choose the pad you need to adjust.
2. Use the OK button to select the parameter you want to adjust.



PITCH



PROGRAM CHANGE



VOLUME

3. Adjust the parameters through the -+ keys, press the MENU key to return after adjustment, the parameters are automatically saved.

#### \* Trig

1. In the TRIG interface, hit any pad to select the pad you want to adjust.
2. Use the OK button to select the parameter you want to adjust.
3. Adjust the parameters through the -+ keys, press the MENU key to return after adjustment, the parameters are automatically saved.

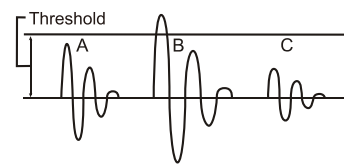


## FUNCTION OPERATION

Parameter	Adjustment range	Parameter description
SENSITIVITY	01-99	Adjust the drum sensitivity, the higher the sensitivity, the louder sound will be produced even if the pad is tapped lightly. The lower the sensitivity, the smaller the volume will be produced even if you tap hard. Try and adjust the sensitivity that suits your combat habits.
THRESHOLD	0-16	Adjust the trigger level of the drum.

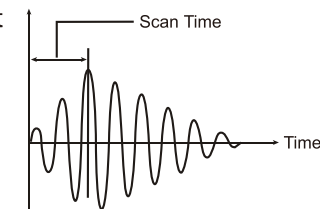
As shown on the right, the B waveform will sound and the A and C waveforms will not occur.

**Note:** If the value you set is too high, a light blow will not sound.



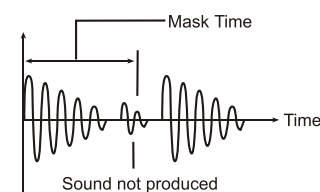
SCANTIME	02-08	Adjust the detection time of the trigger signal.
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When setting, try a soft and powerful blow and confirm the natural change in volume. **Note:** If the value you set is too high, the sounding time will be lengthened. Please set as low as possible.



MASKTME	16-64	Adjust the masking time of the trigger signal.
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**Note:** When playing fast, too high values may mask the trigger signal, so lower the value as much as possible.



Parameter	Adjustment range	Parameter description
XTALK CANCEL	00-80	Adjust the crosstalk value. When hit, some drums that are not hit are also triggered to sound, improving the XTALK CANCEL of the drum that is being audible. <b>Note:</b> If the value is set too high and the strike is at the same time, the drum with a small striking force may not be triggered. Therefore, the value is set as small as possible without crosstalk.
CURVE	00-03	
RIM GAIN	01-99	Adjust the edge hit gain to be effective only for the drum rim and the cymbals edge.
HEAD RIM ADJUST	00-99	When you hit the rim or the side, the tone will be worse than you want, you can improve this by adjusting RIM ADJUST. If the value is set too low, you will not be able to play it.

In the adjustment process, SENS adjustment and RIMG adjustment are used the most. When you need to adjust the sensitivity of the drum head, you can adjust it through SENS. When you need to adjust the rim sensitivity, adjust it through RIMG. Cymbal bow and edge adjustment are also applicable to SENS and RIMG

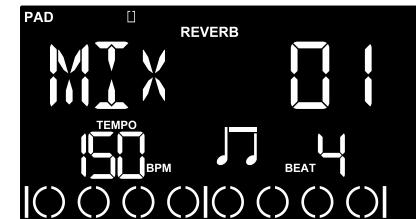
### Abbreviation and full name comparison table

ABBREVIATION	FULL NAME
SENS	SENSITIVITY
THRE	THRESHOLD
SCAN	SCANTIME
MASK	MASKTIME
XTLK	XTALK CANCEL
CRVE	CURVE
RIMG	RIM GAIN
RIMA	HEAD RIM ADJUST

## FUNCTION OPERATION

### Reverb function

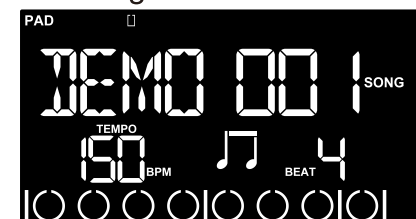
1. Press REVERB to enter the reverb function interface.



- Use +- button to adjust the mix.
- Press the REVERB button again to turn off the reverb.

### DEMO Song

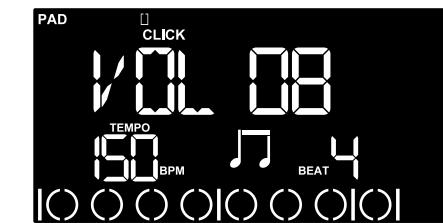
- Press the SONG button to enter the DEMO song function interface.
- Press +- key to select a track, press PLAY/STOP keyboard to play or pause the music. Press the DRUM OFF button to mute the demo song drum sound.



- In SONG mode, press the MENU button to enter the SONG setting interface.
- In the SONG setting interface, press OK to switch the parameter you want to adjust, and press +- to adjust the parameter value.



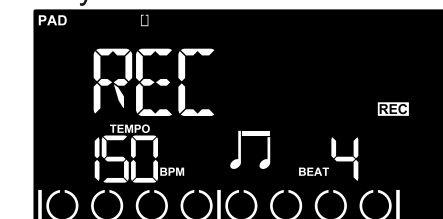
### Metronome



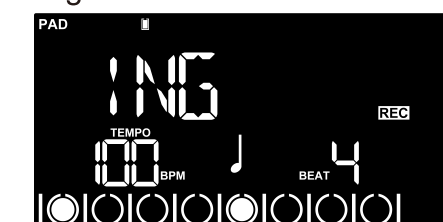
- Press the CLICK button to enter the metronome function and turn on the metronome also.
- In metronome interface, press OK switch button to switch the parameter you want to adjust.
- Use +- button to adjust the parameter value. The parameter value range as below.  
TEMPO:40-280bpm  
Rhythm: Quarter note, Eighth note, Triplet, 16th note  
Beat:1-9  
Volume:1-9
- Press the CLICK to turn off the metronome.

### Recording

- Press the REC button to enter the recording mode, that is ready to record. Press REC in the ready state to exit the recording.

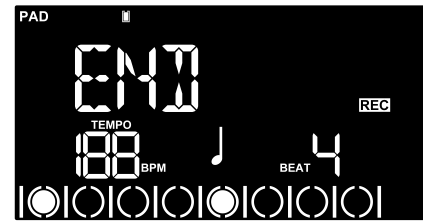


- In the ready state, hit any drum to start recording.

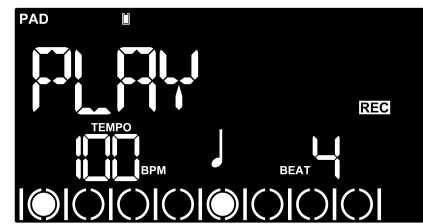


- During the recording process, press the REC button or stop playing for five seconds, the recording ends.

## FUNCTION OPERATION



4. In the END state, press the PLAY button to play the recording, and press the REC button to enter the state of preparing for recording again.



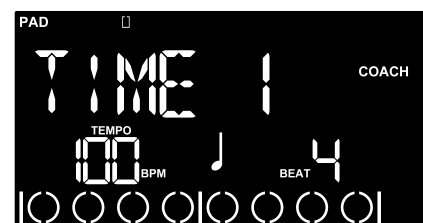
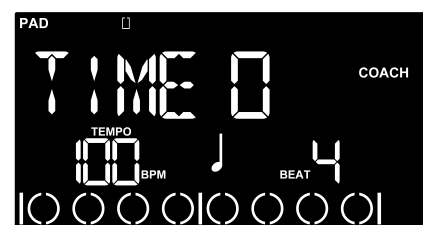
### Coach

Press the COACH key to enter the coach function, press -+ keys to switch the type, press the OK key to enter.

TIME	TIME CHECK
C-UP	CHANGE UP
Q-CO	QUIET COUNT
S-CO	STROKE COUNT

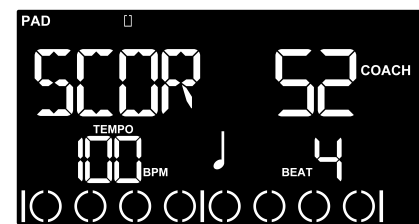
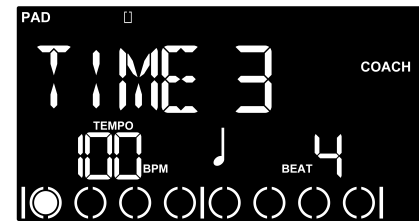
### \* TIME CHECK

1. In the TIME 0 interface, press OK to enter the TIME CHECK preparation mode, the screen display changes to TIME 1.

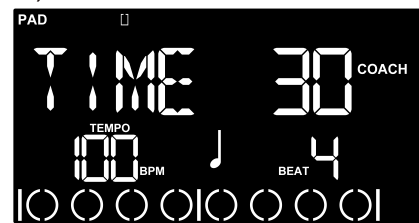


2. In the TIME 1 interface, press the CLICK button, and the practice will begin after one measure of preparation. During the exercise,

the interface display changes to TIME 3. (If scoring is turned on in the settings, the score will appear after the practice is over).

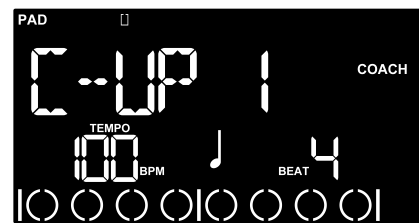
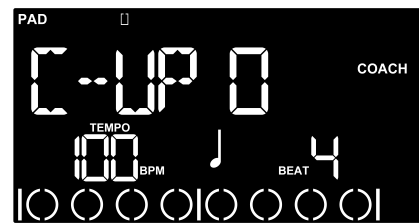


3. In the TIME 1 interface, click MENU to enter the time check setting, and use the ok key to switch the parameters to be adjusted. The selected item flashes, use -+ to adjust the parameter value (SCOR=open/close scoring, TIME=practice time, BPM=practice speed).



### \* CHANGE UP

1. In C-UP 0 mode, click ok to enter the change up preparation mode, the screen display changes to C-UP 1.

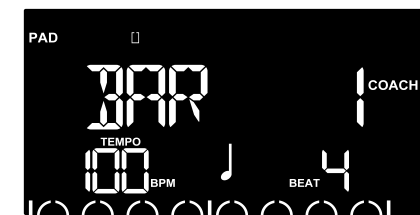


## FUNCTION OPERATION

2. In C-UP 1 mode, click CLICK, after one measure of pre-beat, the practice starts. Interface display during practice becomes C-UP 3.

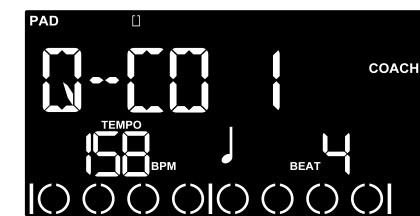
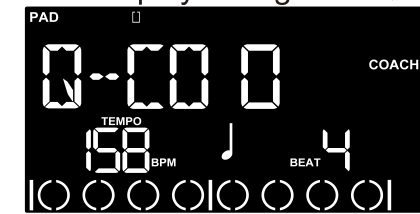


3. In the C-UP 1 interface, press MENU to enter the CHANGE UP setting, use the ok key to switch the parameter to be adjusted, the selected item flashes, and use -+ to adjust the parameter value. (BAR=Bar=Rhythm change after X bar, BPM=Practicing speed)



### \* QUIET COUNT

1. In the Q-CO 0 interface, click OK to enter the quiet count practice preparation mode, the screen display changes to Q-CO 1.



2. In Q-CO 1 mode, click CLICK, after one measure of pre-beat, the practice starts. Interface display during practice become Q-CO 3.

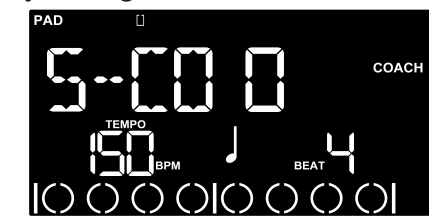


3. In the interface of Q-CO 1, press MENU to enter the QUIET COUNT setting, use the ok key to switch the parameter to be adjusted, the selected item flashes, and use -+ to adjust the parameter value. (BAR=bar=silent bar, BPM=practice speed)

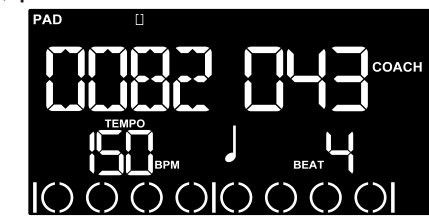


### \* STROKE COUNT

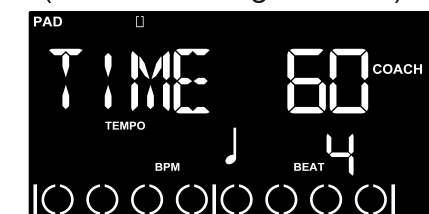
1. This mode is used to calculate the drummer's speed in a fixed time.  
2. In S-CO mode, press OK to enter the STROKE COUNT practice preparation mode, the screen display changes to PREP 1.



3. In the PREP 1 interface, hit the drums directly, the counting practice starts, after the practice is over, press CLICK to return to PREP 1 state.



4. In the PREP 1 interface, click MENU to enter the stroke count setting interface, and adjust the parameter value through -+ to run the system (TIME=counting duration).

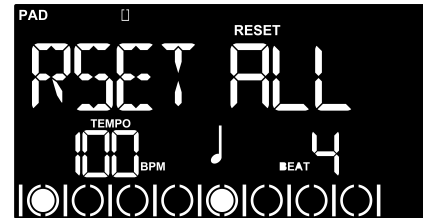


## FUNCTION OPERATION

### System settings

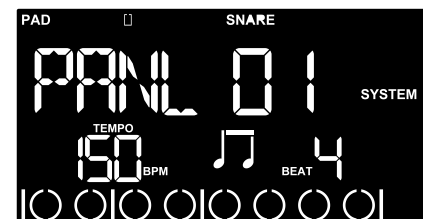
#### \* RESET(RSET)

1. In DRUM mode, press MENU to enter the setting. Press -+ key to select RSET, press OK key to enter, after entering, it will display RSET ALL, press OK key again, the screen will directly return to the main interface, and the factory reset is complete.



#### \* SYSTEM(SYST)

2. In DRUM mode, press MENU to enter the setting. Press -+ key to select SYST, press OK key to enter. In the SYST interface, press OK to switch the parameter you need to adjust, and press -+ to adjust the parameter value.



PANL= PAN LEFT



NOTE= MIDI NOTE



DRPC= MIDI OUTPUT CHANNEL



VERS= VERSION

#### \* AUX IN Recording

1. Connect the mobile phone/ipad to the KT-150 host through the AUX IN interface.
2. Open the recording APP on the mobile phone/ipad, click the recording button on the mobile phone and start playing, the content of the performance will be recorded into the mobile phone/ipad.

\*When you need to use this function, please use 1/8" TRRS cable.

## MIDI EXECUTION LIST

Function	Transmitted	Recognized	Remarked
Basic default	10	10	
Channel changed	No	No	
Note	0-127	0-127	
Velocity:	Note on	Yes	Yes
	Note off	No	Yes
After Key's	No	No	
Touch Channel's	No	No	
Control change:	0	No	Bank select
	1	No	Modulation
	5	No	Portamento time
	7	No	Volume
	10	No	Pan
	11	No	Expression
	64	No	Sustain pedal
	65	No	Portamento on/off
	66	No	Sostenuto pedal
	67	No	Soft pedal
	120	No	All sound off
	121	No	Reset all controllers
123	No	All note off	
Program change	No	No	
System exclusive	No	No	

## DRUM KIT'S NAME

01	STAD = STANDARD	09	METL = METAL
02	ORIG = ORIGINAL	10	ELEC= ELECTRIC
03	ROCK = ROCK	11	DANC=DANCE
04	STUD = STUDIO	12	TECH=TECHNOLOGY
05	FUNK = FUNK	13	PERC=PERCUSSION
06	HYBD = HYBIRD	14	SESS=SESSION
07	BLUE = BLUES	15	CHN = CHINA
08	JAZZ = JAZZ		

## SPECIFICATION

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**Display:** Negative display segment code LCD  
**Drum set:** 15 presets  
**DEMO song:** 10  
**Recording:** 1  
**CLICK:** speed, rhythm, beat, volume  
**MIDI:** USB MIDI, automatic computer recognition  
**Effects:** Reverb  
**Trigger:** 3TOM, 1SNARE, 1HIHAT, 1CRASH, 1RIDE, 1KICK  
**Interface:** POWER, OUTPUT, AUX IN, USB, CYMBAL TRIGGER, PHONE  
**Power:** DC 9V external positive and internal negative, working current 200mA

\*Technical specifications are subject to change without notice.