Contents

PRECAUTIONS ............................................ 4
Welcome....................................................... 6
Product Manuals ......................................... 6

Setup

First Steps.................................................... 7
Package Contents ....................................... 8
Assembly Guide .........................................11
Setting Up for Sound ...................................... 19
Connecting the Power ..................................... 19
Connecting Headphones or Speakers ............. 19
Connecting a Music Player ............................. 19
Turning On the Drum Module ....................... 20
Turning Off the Drum Module ....................... 20
Auto Power-Off ............................................ 20
Restoring the Default Settings (Factory Set) ... 20

Component Names & Functions.............. 21
Control Panel .............................................. 21
Left Side .................................................... 22
Right Side .................................................... 22

Basic Techniques

Selecting & Playing a Kit ....................... 23
Selecting a Kit ........................................... 23
Adjusting Kit Sensitivity ............................ 23
Playing Techniques ................................... 24
Snare Pad ................................................. 24
Hi-hat Cymbal .......................................... 24
Performing with a Song ......................... 25
Selecting a Song ....................................... 25
Adjusting the Song Volume ..................... 25
Adjusting the Volume of Muted Drum Parts .... 26
Looping Part of a Song ............................. 26
Using the Metronome .............................. 27
Starting and Stopping the Metronome ....... 27
Adjusting the Metronome Volume .......... 27
Confirming Tempo via Number Buttons .......... 27
Confirming Tempo via Voice Guidance .......... 27
Adjusting the Tempo ................................ 28
Other Settings ........................................... 28

Practicing in Training Mode ................. 29
Basic Training Mode Procedure ............... 29
1. Groove Check ........................................ 30
2. Rhythm Gate ......................................... 31
3. Measure Break ...................................... 32
4. Tempo Up/Down .................................... 33
5. Change Up ............................................ 34
6. Easy Session ........................................ 35
7. Groove Tracker .................................... 36
8. Pad Gate ............................................. 37
9. Part Mute ............................................. 38
10. Fast Blast .......................................... 39

Advanced Techniques

Setting Parameters using Menu Mode ...... 40
Basic Menu Mode Procedure .................. 40
1 Metronome Settings .............................. 41
2 Kit Settings ........................................ 42
3 MIDI Settings ....................................... 44
4 Hi-hat Settings ....................................... 45
5 Trigger Settings ..................................... 46
6 Training Settings ................................... 49
7 Other Settings ....................................... 53

Integrating Separately Sold Accessories .. 56
For DTX400K Owners ................................ 56
For DTX430K & DTX450K Owners .............. 56

Connecting to a Computer ...................... 57
Making Connections ................................. 57
MIDI Reference Manual ......................... 57

Reference

Troubleshooting ........................................ 58
Data List ................................................ 60
Specifications ........................................ 64
Index ..................................................... 65
SPECIAL MESSAGE SECTION

This product utilizes batteries or an external power supply (adapter). DO NOT connect this product to any power supply or adapter other than one described in the manual, on the name plate, or specifically recommended by Yamaha.

This product should be used only with the components supplied or; a cart, rack, or stand that is recommended by Yamaha. If a cart, etc., is used, please observe all safety markings and instructions that accompany the accessory product.

SPECIFICATIONS SUBJECT TO CHANGE:
The information contained in this manual is believed to be correct at the time of printing. However, Yamaha reserves the right to change or modify any of the specifications without notice or obligation to update existing units. This product, either alone or in combination with an amplifier and headphones or speaker/s, may be capable of producing sound levels that could cause permanent hearing loss. DO NOT operate for long periods 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 consult an audiologist.IMPORTANT: The louder the sound, the shorter the time period before damage occurs.

NOTICE:
Service charges incurred due to a lack of knowledge relating to how a function or effect works (when the unit is operating as designed) are not covered by the manufacturer's warranty, and are therefore the owners responsibility. Please study this manual carefully and consult your dealer before requesting service.

ENVIRONMENTAL ISSUES:
Yamaha strives to produce products that are both user safe and environmentally friendly. We sincerely believe that our products and the production methods used to produce them, meet these goals. In keeping with both the letter and the spirit of the law, we want you to be aware of the following:

Battery Notice:
This product MAY contain a small non-rechargeable battery which (if applicable) is soldered in place. The average life span of this type of battery is approximately five years. When replacement becomes necessary, contact a qualified service representative to perform the replacement.

This product may also use "household" type batteries. Some of these may be rechargeable. Make sure that the battery being charged is a rechargeable type and that the charger is intended for the battery being charged.

When installing batteries, never mix old batteries with new ones, and never mix different types of batteries. Batteries MUST be installed correctly. Mismatches or incorrect installation may result in overheating and battery case rupture.

Name Plate Location:
The name plate is located on the bottom of the product. The model number, serial number, power requirements, etc., are located on this plate. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America or its subsidiaries.

PLEASE KEEP THIS MANUAL

FCC INFORMATION (U.S.A.)

1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!
This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT: When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE: This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by "turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to co-axial type cable.

If these corrective measures do not produce satisfactory results, contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Corporation of America, Electronic Service Division, 6600 Orangethorpe Ave, Buena Park, CA90620

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

COMPLIANCE INFORMATION STATEMENT (DECLARATION OF CONFORMITY PROCEDURE)

Responsible Party : Yamaha Corporation of America
Address : 6600 Orangethorpe Ave., Buena Park, Calif. 90620
Telephone : 714-522-9011
Type of Equipment : ELECTRONIC DRUM KIT
Model Name : DTX400K/DTX430K/DTX450K

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received including interference that may cause undesired operation. See user manual instructions if interference to radio reception is suspected.

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(class B)

* This applies only to products distributed by YAMAHA CORPORATION OF AMERICA.

(FCC DoC)
PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe and handy place for future reference.

![WARNING]

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

**Power supply/AC power adaptor**
- Do not place the power cord near heat sources such as heaters or radiators. Also, do not excessively bend or otherwise damage the cord, or place heavy objects on it.
- Only use the voltage specified as correct for the instrument. The required voltage is printed on the name plate of the instrument.
- Use the specified adaptor (page 64) only. Using the wrong adaptor can result in damage to the instrument or overheating.
- Check the electric plug periodically and remove any dirt or dust which may have accumulated on it.

**Assembly**
- Under no circumstances should any of the components of this product be taken apart or customized. Doing so could result in electric shock, fire, injury, or malfunction.
- Do not sit or stand on the rack. Doing so could cause it to fall over or break, possibly causing injury.
- Be careful with the holders for cymbal and tom pads as they have sharp tips. In order to avoid injury, therefore, you should take special care whenever handling these components.
- Be careful with the anti-slip stoppers on kick pads and foot pedals as they have sharp tips. In order to avoid injury, therefore, you should take special care whenever handling these components.
- Securely tighten fixing nuts and other fasteners. In addition, be sure to immediately tighten any nuts that have come loose. If this precaution is not observed, pads may fall off or the rack may collapse or fall over, possibly causing injury.
- Take care when setting up cables. If anyone were to trip on a cable, the instrument could topple over and cause injury.

**Water warning**
- Do not expose the instrument to rain, use it near water or in damp or wet conditions, place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings. If any liquid such as water seeps into the instrument, turn off the power immediately and unplug the power cord from the AC outlet. Then have the instrument inspected by qualified Yamaha service personnel.
- Never insert or remove an electric plug with wet hands.

**Fire warning**
- Do not put burning items, such as candles, on the unit. A burning item may fall over and cause a fire.

**If you notice any abnormality**
- When one of the following problems occur, immediately turn off the power switch and disconnect the electric plug from the outlet. Then have the device inspected by Yamaha service personnel.
  - The power cord or plug becomes frayed or damaged.
  - It emits unusual smells or smoke.
  - Some object has been dropped into the instrument.
  - There is a sudden loss of sound during use of the instrument.

![CAUTION]

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the instrument or other property. These precautions include, but are not limited to, the following:

**Power supply/AC power adaptor**
- Do not connect the instrument to an electrical outlet using a multiple-connector. Doing so can result in lower sound quality, or possibly cause overheating in the outlet.
- When removing the electric plug from the instrument or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.
- Remove the electric plug from the outlet when the instrument is not to be used for extended periods of time, or during electrical storms.

**Assembly**
- Read carefully the attached documentation explaining the assembly process. Failure to assemble the instrument in the proper sequence might result in damage to the instrument or even injury.
- Do not place hands or feet under a foot switch or foot pedal. Doing so could result in injury.

- Do not use the electronic drum kit's rack to hold acoustic drums. Doing so could cause clamps to break and the drums to fall off, which in turn could lead to injury.
- Mind your fingers when adjusting clamps. Fingers can easily be caught and crushed if care is not taken during this operation.
- Be careful with the tips of supports, arms, screws, and the like. Fingers can easily be injured by sharp tips if these components are not handled carefully.

**Location**
- Do not place the instrument in an unstable position where it might accidentally fall over.
- Before moving the instrument, remove all connected cables, to prevent damage to the cables or injury to anyone who might trip over them.
• When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. 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.

• Use only the stand/rack specified for the instrument. When attaching the stand or rack, use the provided screws only. Failure to do so could cause damage to the internal components or result in the instrument falling over.

• Before connecting the instrument to other electronic components, turn off the power for all components. Before turning the power on or off for all components, set all volume levels to minimum.

• Be sure to set the volumes of all components at their minimum levels and gradually raise the volume controls while playing the instrument to set the desired listening level.

• Do not insert a finger or hand in any gaps on the instrument.

• Never insert or drop paper, metallic, or other objects into the gaps on the panel. This could cause physical injury to you or others, damage to the instrument or other property, or operational failure.

• Do not rest your weight on, or place heavy objects on the instrument, and do not use excessive force on the buttons, switches or connectors.

• Do not use the instrument/device or headphones for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.

Always turn the power off when the instrument is not in use. Even when the [ ] (Standby/On) switch is in standby status (power lamp is off), electricity is still flowing to the instrument at the minimum level. When you are not using the instrument for a long time, make sure you unplug the power cord from the wall AC outlet.

Notices
To avoid the possibility of malfunction/damage to the product, damage to data, or damage to other property, follow the notices below.

Handling and Maintenance
• 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 disfiguration, damage to the internal components or unstable operation. (Verified operating temperature range: 5° – 40°C, or 41° – 104°F)

• Do not place vinyl, plastic or rubber objects on the instrument, since this might discolor the panel or keyboard.

• When cleaning the drum module, 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.

• When cleaning the pads, avoid cleaning products that contain organic solvents, paint thinner, and alcohol as they can cause discoloration and/or warping. Instead, we recommend that you remove dust using a soft dry cloth or wipe clean with a moist, tightly-wrung-out cloth. If a pad is very dirty, wipe the dirt away using a cloth moistened with a neutral detergent solution and tightly wrung out. Following this, wipe away the detergent solution using a cloth soaked in water and tightly wrung out.

Optional Pads
Within this Owner's Manual, the optional external pads that may be connected to the drum module are referred to by model name. Please note that these model names were up-to-date as of printing of this manual. Details regarding any subsequently released models will be made available via the following web site.

http://www.yamaha.com/
Welcome

First of all, thank you for purchasing a Yamaha DTX400K, DTX430K, or DTX450K Electronic Drum Kit. In order to get the most out of your new instrument, please be sure to read this owner’s manual carefully. And after doing so, be sure to store it in a safe place so that you can refer back to it again as needed.

Product Manuals

The DTX400K, DTX430K, and DTX450K are described in the following two manuals.

- **Owner’s Manual (this booklet)—Setup, Basic Techniques, Advanced Techniques, and Reference sections.**

  - **Setup**
    
    Describes how to assemble your electronic drum kit and get it set up for playing.
  

  - **Basic Techniques**
    
    Describes the basic techniques used when operating and playing the electronic drum kit.
  

  - **Advanced Techniques**
    
    Describes the setting of parameters and other more advanced modes of use.
  

  - **Reference**
    
    Describes troubleshooting techniques and contains other reference materials.

- **MIDI Reference Manual (pdf)**

  * Not bundled with this product.

  The drum module’s MIDI Reference Manual contains the following. See page 57 for more details.
  - MIDI-related reference information
  - Reference material that will prove useful when making music using the drum module and a computer
  - Instructions on how to transfer songs from your computer to the drum module

- **Using PDF Manuals**

  The Reference Manual for your DTX400K, DTX430K, or DTX450K is made available in digital format as a PDF document. As such, a computer and suitable software will be required in order to read it. We recommend that Adobe® Reader® be used for this purpose as it allows you to quickly and easily search for keywords, to print out specific sections, and to conveniently jump from page to page by clicking embedded links. Keyword searching and link-based navigation in particular are extremely useful functions available only with digital-type documents.

  The most-recent version of Adobe® Reader® can be downloaded from the following web page.

    http://www.adobe.com/products/reader/
Setup

First Steps

1. Open the box and confirm that all parts are present and correct.

2. Assemble the parts.
   - The assembly process is described in detail on pages 8 through 18.

3. Make the necessary connections.
   - Connect the pads to the drum module using the cables provided.
     → See page 18.
   - Connect the power adaptor to the drum module and turn on the module.
     → See page 19.

4. Play your electronic drum kit.
   - Basic techniques used when operating and playing the electronic drum kit are described in the Basic Techniques section (pages 23 to 39).
   - More complex methods are described in the Advanced Techniques section (pages 40 to 55).
Package Contents

After opening up the package containing your electronic drum kit, please verify that all of the following parts are present.

For DTX400K Owners

- Parts 16, 17, and 18 are contained in Box 1.
- Parts 19 and 20 are contained in Box 2.
- The DTX400K does not have any parts numbered 7, 9, or 13.
- Parts 14 and 15 are almost identical in appearance but are actually different. They can be told apart by the sticker on the base section.
- Parts 3 and 8 are almost identical in appearance but are actually different. Part 8 has a wing bolt, but part 3 does not. In addition, the polystyrene foam packaging used for part 3 is marked “T” (tom); while the packaging for part 8 is marked “S” (snare).

1. Base supports (x2)
2. Vertical supports (x2)
3. Third tom part (x1)
4. Left arm (x1)
5. Drum module (x1)
6. First/second tom part (x1)
7. Snare pad (x1)
8. Cymbal holders (x2)
9. Hi-hat holder (x1)
10. Cymbal/hi-hat pads (x3)
11. Hi-hat controller (x1)
12. Nine-channel snake cable (x1)
13. Tuning key (x1)
14. Cable bands (x3)
15. Power adaptor (x1)
16. Owner’s Manual (this booklet)

* May not be included depending on your particular area. Please check with your Yamaha dealer.
• Parts 16, 17, and 18 are contained in Box 1.
• Parts 10 and 11 are contained in Box 2.
• The DTX430K does not have any parts numbered 7 or 9.

1. Base supports (x2)
2. Vertical supports (x2)
3. Third tom part (x1)
4. Left arm (x1)
5. Drum module (x1)
6. First/second tom part (x1)
7. Snare pad (x1)
8. Cymbal holders (x2)
9. Hi-hat holder (x1)
10. Cymbal/hi-hat pads (x3)
11. KP65 Kick Pad (x1)
12. HH65 Hi-hat Controller (x1)
13. FP6110A Foot Pedal (x1)
14. Nine-channel snake cable (x1)
15. Tuning key (x1)
16. Cable bands (x3)
17. Power adaptor (x1)
18. Owner’s Manual (this booklet)

* May not be included depending on your particular area. Please check with your Yamaha dealer.
Package Contents

For DTX450K Owners

• Parts 9, 10, 17, and 18 are contained in Box 1.
• Parts 7, 10, and 11 are contained in Box 2.

1. Base supports (x2)
2. Vertical supports (x2)
3. Third tom part (x1)
4. Left arm (x1)
5. Drum module (x1)
6. First/second tom part (x1)
7. Hexagonal rod (x1)
8. TP70S Snare Pad (x1)
9. S wing bolt (x1)
10. Cymbal holders (x2)
11. Hi-hat holder (x1)
12. Cymbal/hi-hat pads (x3)
13. KP65 Kick Pad (x1)
14. HH65 Hi-hat Controller (x1)
15. FP6110A Foot Pedal (x1)
16. Nine-channel snake cable (x1)
17. Tuning key (x1)
18. Cable bands (x3)
19. Power adaptor (x1)
20. Owner's Manual (this booklet)

* May not be included depending on your particular area. Please check with your Yamaha dealer.
Setup

Assembly Guide

1. Take the two base supports (1) and the tuning key (7) from the package, and using the tuning key, securely tighten the ▲ key bolts (i.e., the key bolts labeled ▲ in the figure).

**NOTE**
The two base supports are identical.

2. Using the tuning key, loosen the ★ key bolt on each of the two base supports (1).

3. Viewing from the front as shown in the figure, place the base supports (1) at the left and right approximately 50 cm apart.

**CAUTION**
• Choose a flat, hard surface on which to assemble your electronic drum kit.
• Take care to avoid mixing up parts or assembling them in the wrong direction. In addition, the assembly steps should be completed one at a time in the order described.
• The assistance of at least one other person will be required when assembling the electronic drum kit.
• Once a piece has been assembled, be sure to tighten the corresponding nuts or bolts.
• To disassemble your electronic drum kit, carry out the assembly sequence in reverse.

**STEP 2 ATTACHING THE VERTICAL SUPPORTS**

1. Take a vertical support (2) from the package, and insert it fully into the joint on the left base support.

**NOTE**
The two vertical supports are identical.

2. Using the tuning key, tighten the ★ key bolt that you loosened in **STEP 1** in order to secure the vertical support (2) in place.

**CAUTION**
After completing this step, lay the assembly down safely to prevent it from falling over.

3. Repeat 1. and 2. to assemble the right upright bar.
**Step 3** Attaching the third tom part

1. Take the third tom part (3) from the package, and using the tuning key, securely tighten the ▲ key bolt.
2. Loosen the ★ key bolt.
3. Slide the third tom part (3) onto the right vertical support and lower it to the center of the support or thereabouts. Ensure that the third tom pad is oriented as shown in the above figure at this time.
4. Tighten the ★ key bolt to secure the third tom part (3) in place.

**IMPORTANT**
The third tom part (3) and the snare part (8) from the DTX400K are almost identical in appearance, and special care should be taken to avoid mixing them up during the assembly process. To tell them apart, look for the wing bolt, which is only found on part (8). See the figure on page 8 for more details.

**NOTE**
Care should be taken to avoid assembling the third tom pad upside-down or back-to-front.

**Step 4** Attaching the left arm

1. Take the left arm (4) from the package, and using the tuning key, securely tighten the ▲ key bolt.
2. Loosen the ★ key bolt.
3. Slide the left arm (4) onto the left vertical support and lower it to the center of the support or thereabouts. Ensure that the left arm is oriented as shown in the above figure at this time.
4. Tighten the ★ key bolt to secure the left arm (4) in place.

**CAUTION**
After completing this step, lay the assembly down safely to prevent it from falling over.

**Step 5** Attaching the drum module

1. Take the drum module (5) from the package and loosen the ★ key bolt.
2. Slide the drum module (5) onto the left vertical support and lower it to a position about 10 cm from the top. The angle at which the module should be assembled is shown in the figure.
3. Tighten the ★ key bolt to secure the drum module (5) in place.

**CAUTION**
After completing this step, lay the assembly down safely to prevent it from falling over.
### Step 6  Attaching the first/second tom part

1. Take the first/second tom part (⑥) from the package, and using the tuning key, securely tighten the ▲ key bolts.
   **NOTE**
   This part has two ▲ key bolts, one each on the left and right.

2. Loosen the ★ key bolts.
   **NOTE**
   This part has two ★ key bolts, one each on the left and right.

3. Slide the first/second tom part (⑥) onto the vertical supports and move it down until the tops of the supports are flush with the tops of the holes. Ensure that the tom part is oriented as shown in the above figure at this time.
   **NOTE**
   Care should be taken to avoid assembling the first and second tom pads upside-down or back-to-front.

4. Tighten the ★ key bolts to secure the first/second tom part (⑥) in place.
   **NOTE**
   The tom pads will be rotated into place in Step 12.

### The details of Step 7 are different for the DTX400K, DTX430K, and DTX450K.

#### For DTX400K Owners

### Step 7  Attaching the snare pad

1. Take the snare part (⑧) from the package and lightly tighten the wing bolt.

2. Place the snare part (⑧) on the left arm, which was assembled in Step 4, and slide it back until the front end of the arm is flush with the joint.

3. Securely tighten the wing bolt.

4. Loosen the ◆ key bolt located on the back of the snare pad (⑧), and rotate the pad 180°, turning it over.

5. Tighten the ◆ key bolt to secure the snare pad (⑧) in place.
The details of Step 7 are different for the DTX400K, DTX430K, and DTX450K.

**For DTX430K Owners**

**Step 7 Attaching the snare pad**

1. Loosen the wing bolt on the joint on the left arm, which was attached in Step 4.

2. Rotate the joint 90° counter-clockwise, making the joint section horizontal.

3. Securely tighten the wing bolt.

4. Loosen the ◆ key bolt on the joint.

5. Take the snare pad (8) from the package and slide it fully into the joint.

6. Tighten the ◆ key bolt to secure the snare pad (8) in place.

7. Take the hexagonal rod (7) from the package and slide it fully into the joint.

8. Tighten the ◆ key bolt to secure the hexagonal rod (7) in place.

9. Take the snare pad (8) and the S wing bolt (9) from the package and lightly tighten the S wing bolt (9). (Five or six turns is sufficient.)

10. Place the snare pad (8) on the hexagonal rod (7), which was attached in 6. above, and slide it fully back. Then tighten the S wing bolt (9) to secure the snare pad (8) in place.

11. Loosen the ◆ key bolt and adjust the angle of the snare pad. When finished, retighten the ◆ key bolt to secure the snare pad in place.

**For DTX450K Owners**

**Step 7 Attaching the snare pad**

1. Loosen the wing bolt on the joint on the left arm, which was attached in Step 4.

2. Rotate the joint 90° counter-clockwise, making the joint section horizontal.

3. Securely tighten the wing bolt.

4. Loosen the ◆ key bolt on the joint.

5. Take the hexagonal rod (7) from the package and slide it fully into the joint.

6. Tighten the ◆ key bolt to secure the hexagonal rod (7) in place.

7. Take the snare pad (8) and the S wing bolt (9) from the package and lightly tighten the S wing bolt (9). (Five or six turns is sufficient.)

8. Place the snare pad (8) on the hexagonal rod (7), which was attached in 6. above, and slide it fully back. Then tighten the S wing bolt (9) to secure the snare pad (8) in place.
The details of Step 8 are different for the DTX400K, DTX430K, and DTX450K.

### For DTX400K and DTX430K Owners

#### Step 8 Attaching the hi-hat holder

1. Loosen the two ★ key bolts on the joint on the snare-pad part, which was attached in Step 7.
2. Take the hi-hat holder (II) from the package and slide it into the joint from the front as shown in the figure. Then adjust the angle of the hi-hat holder.
   - When correctly inserted, the tip of the hi-hat holder (II) will protrude slightly from the rear of the joint.
   - When correctly oriented, the metal rod section at the top of the hi-hat holder (II) will be vertical.
3. Tighten the two ★ key bolts to secure the hi-hat holder (II) in place.

### For DTX450K Owners

#### Step 8 Attaching the hi-hat holder

1. Loosen the two ★ key bolts on the joint on the left arm, which was attached in Step 4.
2. Take the hi-hat holder (II) from the package and slide it into the joint from the rear as shown in the figure. Then adjust the angle of the hi-hat holder.
   - When correctly inserted, the tip of the hi-hat holder (II) will protrude slightly from the front of the joint.
   - When correctly oriented, the metal rod section at the top of the hi-hat holder (II) will be vertical.
3. Tighten the two ★ key bolts to secure the hi-hat holder (II) in place.

### Step 9 Attaching the cymbal holders

1. Loosen the four ★ key bolts at the ends of the first/second tom part, which was attached in Step 6.
2. Take the cymbal holders (10) from the package and insert them into the ends of the first/second tom part. Then adjust the angles of the cymbal holders until they are oriented as shown in the figure.

#### NOTE

The two cymbal holders are identical.

- When correctly inserted, the tips of the cymbal holders (10) will protrude slightly from the bottom of the tom part.
- When correctly oriented, the cymbal holders (10) will be as shown in the figure.
3. Tighten the four ★ key bolts to secure the cymbal holders (10) in place.
Step 10 Attaching the hi-hat

- Adjusting the position of the hi-hat stopper pin

1. Using the tuning key, loosen the key bolt on the stopper, which is located at the top of the hi-hat holder.

2. Adjust the position of the pin until, as shown in the figure, it is approximately 30° counter-clockwise from the front-rear direction of the kit when viewed from above.

3. Tighten the key bolt to secure the stopper pin.

Step 11 Assembling the cymbal pads

In this step, the two remaining cymbal/hi-hat pads are assembled. Accordingly, 1. to 4. must be performed twice.

NOTE
The two cymbal pads are identical.

1. Remove the wing nut and the upper felt pad from the cymbal holder. (Do not remove the lower felt pad.)

2. Place the cymbal pad (one of three) on the cymbal holder, with the holder passing through the central hole.

3. Replace the felt pad removed in 1. above the cymbal pad.

4. Tighten the wing nut to secure the cymbal pad in place.

Step 12 Rotating the tom pads into place

Step 12 applies to each of the three tom pads. Accordingly, 1. to 3. must be performed three times.

1. Loosen the key bolt on the tom pad (or 6).

2. Rotate the tom pad to a position where it will be easy to play. (If necessary, refer to the picture of the properly assembled kit on page 11.)

3. Tighten the key bolt to secure the tom pad in place.
**Step 13** Assembling the kick pad

1. Take the kick pad (13) from the package, remove the four wing bolts, spring washers, and flat washers from the kick pad holder, and arrange each set nearby in the disassembled condition.

2. Assemble the base to the holder as shown below, and then from the base side, assemble the wing bolts, spring washers, and flat washers removed in 1, in order to secure it in place.

3. Take the foot pedal (15) from the package and insert the beater into the hole in the holder as shown below.

4. Slide the beater rod into the hole until the tip protrudes approximately 15 mm from the rear, and then tighten the beater bolt using the tuning key.

5. Turn the foot pedal’s T-bolt counter-clockwise to loosen it.

6. Fit the raised section at the front of the kick pad holder into the foot-pedal’s assembly bracket.

7. Turn the foot pedal’s T-bolt clockwise to secure the parts together.

8. Operate the pedal and confirm whether the beater head strikes the kick pad near the center. If not, adjust the length of the beater or move it left or right as required.

**Step 14** Positioning the hi-hat controller and kick drum

Arrange the hi-hat controller (14) and the kick drum parts or kick unit (15) as shown in the figure on the left.

**IMPORTANT**
The hi-hat controller (14) and the kick unit (15) from the DTX400K are almost identical in appearance. They can be told apart by the sticker on the base section.
**Step 15** Fine-tuning the positions of the pads and the drum module

Sit on your stool and adjust the positions of the pads and the drum module to your liking.

- To adjust the height of the snare pad, loosen the ★ key bolt.
- To adjust the height of the third tom pad, loosen the ◆ key bolt.
- To adjust the height of the drum module, loosen the • key bolt.
- To tilt the drum module forwards or backwards, loosen the ● key bolt.

**CAUTION**

- Be sure to always retighten any key bolt after you have finished adjusting the corresponding part.
- Before moving on to the next step, ensure that all key bolts have been tightened.

**NOTE**

- Refer back to Step 7 if you wish to readjust the angle of the snare pad.
- Refer back to Step 12 if you wish to readjust the angles of the tom pads.

**Step 16** Connecting the pads to the drum module

1. Insert the mini plugs* at one end of the nine-channel snake cable (16) into the correct trigger input jacks (SNARE to KICK/PAD) on the right side of the drum module. (*: The smaller set of plugs.)

**NOTE**

The sticker on each of the snake cable's plugs indicates the name of the corresponding pad.

2. Insert the nine-channel snake cable’s standard plugs* into the jacks in the corresponding pads. (*: The larger set of plugs.)

3. Wrap the cables for the snare pad, the tom pads, and the cymbal/hat pads around the cable clips to prevent them from being pulled out.

**NOTICE**

Excessive bending can damage the cables. Ensure, therefore, that they are not bent at an extreme angle when wrapped around the clips.

4. Using the cable bands (18), secure the cables to the kit rack at the ◼ positions in the figure above.

*Congratulations—You have finished assembling your electronic drum kit!*
Setting Up for Sound

Connecting the Power

1. Ensure that your drum module is turned off (i.e., none of the buttons are lit).

2. Insert the power adaptor’s DC plug into the [12V] connector on the left side of the module.

3. Hook the power adaptor’s cord around the cord clip to prevent it from being accidentally pulled out.

4. Plug the power adaptor’s AC power cord into an AC wall socket or another electrical outlet.

Connecting Headphones or Speakers

Your drum module does not have built-in speakers. In order to hear it, therefore, you will need to connect headphones or monitor speakers via the [PHONES/OUTPUT] standard stereo-audio jack. You can adjust the output volume using the [VOLUME] buttons on the control panel.

**CAUTION**

Excessive bending can damage the power adaptor cord and create a fire hazard. Ensure, therefore, that the power cord is not bent at an extreme angle when wrapped around the clip.

**WARNING**

Use only the power adaptor that came with your drum module.

Connecting a Music Player

You can connect a portable music player or another similar source of audio to your drum module via the [AUX IN] (auxiliary input) stereo mini-jack. This makes it possible to play along with your favorite tunes.

**NOTE**

- Whenever connecting other devices, ensure that the cables you use have plugs that match the input or output connectors on those devices.
- Before making connections, furthermore, you should also turn the volume on the other devices fully down.
- When all connections have been made, use each device’s volume controller to balance its output with that of the drum module.

![Connecting a Music Player Diagram](image-url)
Setting Up for Sound

1. If you have connected your drum module to other audio devices such as powered speakers, ensure that the volume on all other devices is turned down fully.

2. Press the [ (Standy/On) button.
The drum module will turn on and its buttons will light up.

**NOTE**
Connect the hi-hat controller before turning on the drum module. Please do not turn the drum module on with the hi-hat controller depressed. The drum module can not identify the type of pedal properly and it causes that the kick may produce much smaller sound than expected.

### Turning Off the Drum Module

1. If you have connected your drum module to other audio equipment, ensure that the volume on all other devices is turned down fully.

2. Press the [ (Standy/On) button.
The drum module will turn off and all button lights will go out.

**CAUTION**
When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. 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.

**NOTICE**
The drum module automatically stores all current settings before it turns off. For this reason, please do not unplug the power adaptor until all button lights have gone out.

### Auto Power-Off

The Auto Power-Off function automatically turns off the drum module after a certain period of inactivity. This helps to save energy should you forget to turn it off yourself.

**NOTE**
The drum module automatically stores all current settings before it turns off.

#### Setting the Auto Power-Off Function

You can set the amount of time that the Auto Power-Off function will wait before turning off the drum module. For details, see the description of the Auto Power-Off Time parameter from Menu Mode (page 53).

**NOTICE**
- In certain modes of operation, the Auto Power-Off function will not turn off the drum module when the set time has elapsed. We recommend, therefore, that you always turn off the drum module manually when you are finished using it.
- If you expect the drum module to be inactive for a certain length of time while connected to other audio equipment, we recommend that you turn the volume on the other equipment fully down. Alternatively, you can disable the Auto Power-Off function to ensure that the drum module stays on.
- Settings for the Auto Power-Off function do not represent exact times and there may be some variation.
- By default, the Auto Power-Off time is set to 30 minutes.

#### Quick disabling Auto Power-Off

To quickly disable the Auto Power-Off function, turn on the drum module while holding down the [TRAINING] button. The function will remain off until you set a new Auto Power-Off time.

### Restoring the Default Settings (Factory Set)

Straight out of the box, your drum module already contains a wide range of pre-programmed drum kits and songs. These default settings—collectively known as the Factory Set—can be conveniently restored at any time if you have accidentally overwritten them or wish to delete all of your own settings. To do so, use the Factory Set function as follows.

**NOTICE**
When you restore the Factory Set as described below, any changes you have made to parameters will be lost. Before proceeding, therefore, you should ensure that they contain no irreplaceable settings.

1. Press the [ (Standy/On) button and verify that the drum module turns off.

2. Turn on the drum module while holding down the [VOLUME+] button and the [VOLUME–] button.

The drum module’s lights will flash and the Factory Set will be restored.
Component Names & Functions

**Control Panel**

1. **Number buttons**
   - These buttons are used to select drum kits, songs, and training types. (pages 23, 25, 29)
   - You can use them to enter a tempo directly. (page 28)
   - In Menu Mode, they are used to select settings. (page 40)
   - Also in Menu Mode, you can use them to enter setting values directly. (page 40)

2. **[KIT] button (page 23)**
   Use this button when you want to select a different drum kit.

3. **[SONG] button (page 25)**
   Use this button when you want to select a different song.

4. **[ ] (metronome) button (page 27)**
   - This button is used to start and stop the built-in metronome.
   - In Training Mode, it is also used to start and stop training sessions.

5. **[▶/■] button**
   - Using this button, you can start and stop songs. (page 25)
   - In Training Mode, it is also used to start and stop training sessions. (page 29)

6. **[ ] (Standby/On) button (page 20)**
   Use this button to turn the drum module on and off.

7. **[TRAINING] button (page 29)**
   This button is used to access Training Mode.

8. **[DRUM MUTE] button (page 25)**
   Using this button, you can mute and unmute drum parts from a practice drum pattern.

9. **[TEMPO] buttons (page 28)**
   Use these buttons to increase or decrease the tempo in steps of one BPM.
   *: In Menu Mode, the [TEMPO] buttons can also be used to increase or decrease settings.

10. **[VOLUME] buttons (page 19)**
    These buttons are used to adjust the overall volume of the drum module. Press the [VOLUME+] button to increase it and the [VOLUME−] button to decrease it.
Component Names & Functions

**Left Side**

11 [USB TO HOST] terminal (page 57)
This terminal is used to connect the drum module to a computer via a USB cable.

12 [AUX IN] jack (page 19)
The Auxiliary Input stereo mini-jack is used to input audio from an external source. For example, you can use this jack to connect a portable music player, a CD player, or another similar device and play along with your favorite tunes.

13 [PHONES/OUTPUT] jack (page 19)
Use this standard stereo-audio jack to connect headphones, an amplifier, a mixer, or other similar equipment.

14 Cord clip (page 19)
Wrap the power adaptor cord around this clip to prevent accidental unplugging during use.

15 [12V +-] connector (page 19)
Use this connector for the power adaptor that came with your drum module.

**Right Side**

16 Trigger input jacks (page 18)
These jacks are used to connect the snare, tom, and cymbal pads.

17 [HI-HAT CTL] jack (page 18)
The Hi-hat Control jack is used to connect a hi-hat controller.

18 [KICK/PAD] jack (page 18)
Use this jack to connect a kick pad or pedal. When using a KP65 Kick Pad, an additional pad can be connected via the kick pad itself.
Selecting & Playing a Kit

For the purpose of this manual, the term “kit” refers to a full set of drum-sound assignments for all of the pads. The drum module comes with ten different drum and percussion kits already set up.

**Selecting a Kit**

1. Press the [KIT] button to activate Kit Mode.
2. Select a kit by pressing the corresponding number button ([1] to [10/0]).
3. Play the pads and see how the kit sounds.

**NOTE**
For detailed information on the ten preset kits, see the Data List section (page 60).

**Quick select from Song Mode or Training Mode**

In order to select a kit quickly without having to leave Song Mode or Training Mode, press and hold the [KIT] button, and then press the number button ([1] to [10/0]) for the desired kit.

**Adjusting Kit Sensitivity**

Using the following procedure, you can change the sensitivity of a kit—that is, how the drum sounds change depending on how hard you strike the pads. Sensitivity can be adjusted to ten different levels.

While holding the [KIT] button, press either the [VOLUME+] or [VOLUME–] button.

- Each time you press the [VOLUME+] button, you increase the sensitivity by one level. This means that louder sounds can be more easily produced with softer drumming.
- Each time you press the [VOLUME–] button, you decrease the sensitivity by one level. This means that louder sounds can only be produced by drumming hard.

**NOTE**
- You can set a different sensitivity for each of the drum module’s ten kits.
- If you wish to set sensitivities on an individual pad basis, see the descriptions of the Trigger Settings parameters from Menu Mode (page 46).
Playing Techniques

Snare Pad

If using a TP70S Snare Pad, you will be able to produce three distinct sounds (i.e., head, open rim, and closed rim) depending on where you strike it, much the same as if you were playing an acoustic snare.

- **Head shots**
  Hitting the main surface of the pad produces a head shot sound.

- **Open rim shots**
  Hitting the open-rim zone produces an open rim-shot sound.

- **Closed rim shots (cross sticking)**
  Hitting the closed-rim zone produces a closed rim-shot sound.

Hi-hat Cymbal

- **Open/close**
  You can produce an open hi-hat sound by striking the hi-hat pad with the hi-hat controller’s pedal not depressed.
  You can produce a closed hi-hat sound by striking the hi-hat pad with the hi-hat controller’s pedal depressed.
  If using an HH65 Hi-hat Controller, you can operate the pedal to recreate the sound of a closing hi-hat.

- **Foot closed**
  You can depress the hi-hat controller’s pedal to create a foot-close sound without having to strike the hi-hat pad.

- **Hi-hat splash**
  Depressing the hi-hat controller’s pedal and then immediately releasing it produces a hi-hat splash sound.
Performing with a Song

The drum module comes complete with ten practice songs. Covering a wide range of genres, they provide a convenient, enjoyable way to practice drumming.

Selecting a Song

1. Press the [SONG] button.
2. Press the [▶/■] button to start the current song.
3. If you wish press one of the number buttons ([1] to [10/0]) to select a different one.

- You can stop song playback by pressing the [▶/■] button once again.
- If you wish to mute the programmed drum parts and hear only the song parts, press the [DRUM MUTE] button. To unmute the drum parts, press the [DRUM MUTE] button once again.
- The most appropriate drum kit is pre-assigned to each of the drum module’s songs, so whenever you select a new song, the current kit will also change. If you wish to use a different kit to play a certain song, please select that kit after changing the song. For more details, see Quick select from Song Mode or Training Mode (page 23).

Quick select from Kit Mode or Training Mode

In order to select a song quickly without having to leave Kit Mode or Training Mode, press and hold the [SONG] button, and then press the number button ([1] to [10/0]) for the desired song.

Adjusting the Song Volume

Using the following procedure, you can set the volume of the current song to your preferred level.

1. Press the [▶/■] button to start the song.
2. While holding the [SONG] button, press either the [VOLUME+] or [VOLUME–] button.

- Each time you press the [VOLUME+] button, you increase the song volume by one.
- Each time you press the [VOLUME–] button, you decrease the song volume by one.

NOTE
For detailed information on the ten built-in songs, see the Data List section (page 60).
**Performing with a Song**

### Adjusting the Volume of Muted Drum Parts

If you press the [DRUM MUTE] button while playing a song, the drum parts from the song will be muted—that is, their volume will be reduced to zero. If, however, you would like the drum parts to be slightly audible in this type of situation, you can adjust the muted volume as described below.

1. Press the [▶/■] button to start the song.
2. Press the [DRUM MUTE] button to mute the drum parts.
3. While holding the [DRUM MUTE] button, press either the [VOLUME+] or [VOLUME–] button.

- Each time you press the [VOLUME+] button, you increase the volume of the muted drums by one.
- Each time you press the [VOLUME–] button, you decrease the volume of the muted drums by one.

By pressing the [DRUM MUTE] button once again, you can unmute the drum parts and restore their normal volumes.

### Looping Part of a Song

As described below, you can have a song playback between two points set in units of one measure. To do so, you simply need to set a loop start point (A) and a loop end point (B) while the song is playing.

1. Press the [▶/■] button to start the song.
2. At point A, press and hold the [SONG] button and press the [▶/■] button.
3. At point B, again press and hold the [SONG] button and press the [▶/■] button.

To stop looped playback, press and hold the [SONG] button and press the [▶/■] button.

**Note**

- When you select a different song, looped playback will be cancelled automatically and points A and B will be reset.
- After an automatic lead-in (to help guide you into the phrase), the range from Point A to Point B is played back repeatedly.
Using the Metronome

Playing your electronic drum kit along with the built-in metronome is a great way to perfect your rhythm.

**Starting and Stopping the Metronome**

- Press the [ ] button to turn on the metronome.
- Press the [ ] button once again to turn it off.

**Adjusting the Metronome Volume**

To adjust the volume of the metronome, press and hold the [ ] button, and then press either the [VOLUME+] or [VOLUME–] button.

- Each time you press the [VOLUME+] button, you increase the metronome volume by one.
- Each time you press the [VOLUME–] button, you decrease the metronome volume by one.

**Confirming Tempo via Number Buttons**

Whenever necessary, you can confirm the drum module’s current tempo from the flashing pattern of the number button lights.

Press either the [TEMPO+] or [TEMPO–] button once.

Each digit of the tempo will be flashed in sequence.

**Example:**

When the tempo is 108 BPM, the number button lights will flash [1]→[0]→[8].

**Confirming Tempo via Voice Guidance**

Whenever necessary, you can have the drum module speak the current tempo to you as a BPM value.

Press and hold the [ ] button. You will hear the current tempo spoken (in English), and the number button lights will flash as described above.
The following three methods are available when you want to change the tempo.

- **Increase or decrease using the [TEMPO+] or [TEMPO–] button**
- **Direct input of a BPM using the number buttons**
- **Setting a new tempo using pads (tap tempo)**

### **Increasing or decreasing using the [TEMPO+] or [TEMPO–] button**

- Each time you press the [TEMPO+] button, you increase the metronome BPM by one.
- Each time you press the [TEMPO–] button, you decrease the metronome BPM by one.

### **Directly inputting a BPM using the number buttons**

1. While holding the [ ] button, enter the BPM using the number buttons.

   **Example:** Setting a tempo of 138 BPM
   - Press the number buttons in the sequence [1]→[3]→[8].

### **Tapping the tempo on the pads**

1. While holding the [ ] button, strike a pad at least three times at the desired tempo.

2. Remove your finger from the [ ] button.

   **NOTE**
   - Instead of using a pad, you can also tap the tempo by pressing the [TEMPO+] or [TEMPO–] button at least three times.

### **Other Settings**

The following metronome-related settings can be made in Menu Mode. For details, see the description of the Metronome Settings parameter group from Menu Mode (page 41).

- Metronome pattern
- Metronome length in beats
- Metronome sound
- Number-button lighting pattern when using the metronome
Practicing in Training Mode

The drum module's Training Mode provides many different ways in which to practice playing the drums. With ten different types of training available, you can finely hone your sense of rhythm, master drum patterns from a range of different musical genres, or if you are a beginner, learn easy patterns in an enjoyable way.

Basic Training Mode Procedure

The basic procedure common to all ten types of training is as follows.

1. Press the [TRAINING] button to activate Training Mode.

2. Select your desired training type by pressing the corresponding number button ([1] to [10/0]).

   The [⏹] and/or [▶/■] button will flash, indicating that the drum module is on standby to start training.

   ![Flash button](#)

   **NOTE**
   - The buttons that flash at this time depend on the type of training selected.
   - Both the [⏹] and [▶/■] buttons will flash with certain types of training.

3. Press the flashing [⏹] or [▶/■] button to start training.

   ![Start button](#)

   **NOTE**
   - If you wish to adjust the duration of training, see the description of the Timer parameter from Menu Mode (page 49).
   - If you wish to adjust the duration of Fast Blast training, see the description of the Fast Blast Timer parameter from Menu Mode (page 52).

4. To end training, press the button used to start it in Step 3, above.

   - To select a different kit from Training Mode, press and hold the [KIT] button, and then press the number button ([1] to [10/0]) for the desired kit. (See Quick select from Song Mode or Training Mode on page 23.)
   - To select a different song from Training Mode, press and hold the [SONG] button, and then press the number button ([1] to [10/0]) for the desired song. (See Quick select from Kit Mode or Training Mode on page 25.)

**Scoring function**

The drum module’s scoring function, which is used with certain types of training, evaluates your ability on a scale of one to ten and displays the result using the number buttons ([1] to [10/0]). Number button [10/0] represents the highest score; number button [1], the lowest.

In addition, the Voice Guidance function announces the results of scoring using the five levels shown below.

![Scoring levels](#)

**NOTE**

- Fast Blast training uses its own unique form of scoring. See page 39 for more details.
Groove Check

As an aid to improving your timing, Groove Check uses the number button lights to show how early or late you are drumming. Two different training styles are available—the first uses the metronome; the second lets you play along with a song. At the end of training, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [1].
   The [ ] and [ ] buttons will flash, indicating that the drum module is on standby to start training.
3. Press either the [ ] or [ ] button when you are ready to go.
   If you press the [ ] button, the metronome will be used for training. Alternatively, if you press the [ ] button, the current song will be used.
4. Play the pads as tightly as you can along with the metronome or song.

   • **Display of individual strikes**
     - The number buttons ([1] to [10/0]) will flash to indicate the accuracy of the timing of individual strikes.
     - If number buttons [5] and [6] flash together, your timing for the current strike was perfect.
     - Number buttons [6] to [10/0] indicate that the current strike was late. The further from the [5] and [6] number buttons, the later the strike.
     - Number buttons [5] to [1] indicate that the current strike was early. The further from the [5] and [6] number buttons, the earlier the strike.

   • **Display of current timing variation**
     - Half-lit number buttons ([1] to [10/0]) indicate how tightly you are currently playing.
     - The wider the band of half-lit number buttons, the greater the degree of variation in your timing.

5. To end training, press the button used to start it in Step 3 above.
   The drum module will display your score using number buttons [1] to [10/0] and will also speak it to you (in English). For more details regarding scoring, see Scoring function (page 29).
Rhythm Gate training allows you to confirm by ear whether or not your timing is accurate. If you do not strike a pad in time, it will not produce any sound. Two different training styles are available—the first uses the metronome; the second lets you play along with a song. At the end of training, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [2].
   The [ ] and [ ] buttons will flash, indicating that the drum module is on standby to start training.
3. Press either the [ ] or [ ] button when you are ready to go.
   If you press the [ ] button, the metronome will be used for training. Alternatively, if you press the [ ] button, the current song will be used.
4. Play the pads as tightly as you can along with the metronome or song.
   The pads will only produce a sound when struck in time. In addition, the number buttons will light up as shown below during this training.
5. Press number buttons [2] to [9] to adjust the difficulty level (i.e., the width of the gate). Four different levels are available as shown below. The higher the difficulty level, the more accurate your timing will have to be in order to produce a sound.
   
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>1 2 3 4 5 6 7 8 9 10/0</td>
</tr>
<tr>
<td>1 2 3 4 5 6 7 8 9 10/0</td>
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<tr>
<td>1 2 3 4 5 6 7 8 9 10/0</td>
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<tr>
<td>1 2 3 4 5 6 7 8 9 10/0</td>
</tr>
<tr>
<td>1 2 3 4 5 6 7 8 9 10/0</td>
</tr>
</tbody>
</table>

   - Easy
   - Difficulty level
   - Hard

   No sound produced for pads struck outside the gate width.

   Number buttons [1] and [10/0] are not used with this type of training.

6. To end training, press the button used to start it in Step 3, above.
   Your score will be displayed using number buttons [1] to [10/0] and will also be spoken to you (in English). For more details regarding scoring, see Scoring function (page 29).
Measure Break

With Measure Break training, the metronome will be muted for certain measures in a sequence. For example, by setting the measures during which you play fills to be muted in this way, you can check for any deviation in your timing when the metronome returns. This will help you to play at a constant tempo throughout your performances. Please note that this type of training is not scored.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [3]. The [3] button will flash, indicating that the drum module is on standby to start training.
3. Press the [3] button. The metronome will start to play a sequence of four measures in length.
4. If necessary, press the number buttons corresponding to the measures in the sequence to toggle the metronome on (fully-lit) or off (half-lit) for them.
   - Each of the number buttons represents a measure in the sequence.
   - On the first beat of each measure, the corresponding number button will flash.
5. Practice playing the pads along with the song.

NOTE
You can also change the number of measures in the metronome sequence. To do so, press and hold the corresponding number button ([2] to [10/0]) until the displayed sequence length changes. For example, to set the sequence length to eight measures, press and hold number button [8].
Tempo Up/Down

Use Tempo Up/Down training to see how fast you can go and still maintain accurate timing. As you play along with a metronome, the drum module will automatically increase the tempo if your timing is good and decrease it if not. Please note that this type of training is not scored.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [4].
   The [ ] button will flash, indicating that the drum module is on standby to start training.
3. Press the [ ] button.
   The metronome will start playing.
4. Focusing on accurate timing, play the pads along with the metronome. The half-lit number buttons indicate how much time remains before the end of the current four measures.
   The drum module will evaluate your timing after every four measures.
   • If your timing was accurate during the four measures, the drum module will automatically increase the metronome’s tempo and the number-button lights will scan quickly once from left to right.
   • If your timing was not accurate during the four measures, the drum module will automatically decrease the metronome’s tempo and the number-button lights will scan quickly once from right to left.
5. To end training, press the [ ] button once again.

NOTE

• If you wish to adjust the difficulty level for this training, see the description of the Difficulty Level parameter from Menu Mode (page 50).
• This training can be set either to mute pads when they are not played in time or to play pads whenever they are struck. For details, see the description of the Ignore Timing parameter from Menu Mode (page 50).
Practicing in Training Mode

In Change Up training, your aim is to maintain good timing as you play along with up to seven different practice rhythms that change every two measures. The rhythms are assigned to number buttons [1] to [7], allowing you to freely choose which ones you want to practice with. At the end of training, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [5]. The [●/■] button will flash, indicating that the drum module is on standby to start training.
3. Press the [●/■] button when you are ready to go.
   - A practice rhythm and the metronome will start to play, and the practice rhythm will change after every two measures.
   - When a number button is fully lit, the corresponding rhythm will be included in the practice session.
   - When a number button is half lit, the corresponding rhythm will be skipped as you practice.
   - The number buttons will flash to indicate which rhythm you should be playing.
5. Focusing on accurate timing, play the practice rhythm on the pads.
   - To adjust the volume of the practice rhythm, press and hold the [SONG] button, and then press either the [VOLUME+] or [VOLUME–] button.
   - To mute the practice rhythm and play along with only the metronome, press the [DRUM MUTE] button.
   - To unmute the practice rhythm, press the [DRUM MUTE] button once again.
6. To end training, press the [●/■] button once again. The drum module will display your score using number buttons [1] to [10/0] and will also speak it to you (in English). For more details regarding scoring, see Scoring function (page 29).

**NOTE**
- You can also press the [●/■] button to end training.
- If you wish to adjust the difficulty level for this training, see the description of the Difficulty Level parameter from Menu Mode (page 50).
- This training can be set either to mute pads when they are not played in time or to play pads whenever they are struck. For details, see the description of the Ignore Timing parameter from Menu Mode (page 50).
- You can also change the number of measures for which each practice rhythm is repeated by pressing number button [10/0]. When this button is half lit, each rhythm will be played for four measures before changing; when fully lit, the rhythm will be played for one measure; and when not lit, it will be played for two measures.
Easy Session training lets you play a drum pattern along with an accompanying song simply by striking any pad(s) in time. As such, it is not unlike a basic form of jamming with other band members. Please note that this type of training is not scored.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [6].
   The [/>■] button will flash, indicating that the drum module is on standby to start training.
3. Press the [/>■] button to start the accompaniment.
4. Play the pads along with the accompaniment.
   • Regardless of which pad(s) you strike, the drum module will play the correct sounds for the drum pattern. For this reason, you will not necessarily hear the pad you strike.
   • If you stop playing the pads, the drum module will stop playing the drum pattern.
   • The half-lit number buttons provide a guide to variations in the drum pattern.
5. To end training, press the [/>■] button once again.

**NOTE**
The [DRUM MUTE] button is not used with this type of training.
Practicing in Training Mode

**Groove Tracker**

Groove Tracker makes it simple to play a number of different practice drum patterns, which will automatically reflect the speed and strength of your drumming. In addition, you can also freely add your own fills to the basic pattern. Please note that this type of training is not scored.

1. Press the [TRAINING] button to activate Training Mode.

2. Press number button [7].
   The [_previous_button] button will flash, indicating that the drum module is on standby to start training.

3. Press the [previous_button] button when you are ready to go.
   The drum module will play the practice drum pattern once. In addition, the number buttons ([1] to [10/0]) will light up as the pattern plays.

4. To select a different practice drum pattern, press the corresponding number button ([1] to [10/0]).

5. Play the hi-hat or kick pad. Each time you do so, the next part of the drum pattern will be played.
   • Refer to the drum scores in the Data List section (page 62) for details on the pads to be played to advance each drum pattern and how much the patterns advance with each strike.
   • The tempo of the drum pattern will change to reflect the speed of your drumming.
   • The volume of the drum pattern will change to reflect the strength of your drumming.

   **NOTE**
   • You can select which pad(s) you would like to use to advance the drum pattern. For details, see the description of the Groove Tracker Control Pad(s) parameter from Menu Mode (page 51).
   • You can set how much the practice drum pattern should advance for each strike of the selected pad(s). For details, see the description of the Groove Tracker Advance Step parameter from Menu Mode (page 51).

6. To end training, press the [previous_button] button once again.

   **NOTE**
   You can set the period of time after which the drum pattern will return to the start when you stop drumming. For details, see the description of the Groove Tracker Return Time parameter from Menu Mode (page 50).

   **Muting specific parts from the practice drum pattern**

You can mute any of the individual drum parts (i.e., snare, kick, tom, hi-hat, and/or cymbal) that make up the practice drum pattern. If, for example, you were to mute the snare part, you could play whatever snare pattern you like along with the rest of the drum parts.

1. Press the [DRUM MUTE] button and verify that it lights up.

2. Strike the pad corresponding to the part from the practice drum pattern you wish to mute.
   • The selected drum part will now be muted.
   • If the pad corresponding to the muted drum part is not struck for certain period of time, it will be automatically unmuted.

3. To manually unmute all drum parts, press the [DRUM MUTE] button once again and verify that it turns off.

   **NOTE**
   The [previous_button] button is not used with this type of training.


**Practicing in Training Mode**

Pad Gate

In Pad Gate training, the pads will only produce a sound when your drumming precisely matches a practice drum pattern. At the end of training, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [8].
   The [▶/■] button will flash, indicating that the drum module is on standby to start training.
3. Press the [▶/■] button when you are ready to go.
   - The drum module will start to play the practice drum pattern.
   - The number buttons ([1] to [10/0]) will light up to display the progression of the practice drum pattern.
4. If necessary, select a different practice drum pattern using number buttons [1] to [10/0].
   Drum scores for the various practice drum patterns can be found in the Data List section (page 62).
5. Play the practice drum pattern on the pads.
   - The pads will not produce a sound if they are struck out of time.
   - If you play any phrase other than the practice drum pattern, the pads will not produce a sound.
   - To select a different practice drum pattern, press the corresponding number button ([1] to [10/0]).
6. To end training, press the [▶/■] button once again.
   The drum module will display your score using number buttons [1] to [10/0] and will also speak it to you (in English). For more details regarding scoring, see Scoring function (page 29).

**Muting specific parts from the practice drum pattern**

You can mute any of the individual drum parts (i.e., snare, kick, tom, hi-hat, and/or cymbal) that make up the practice drum pattern. If, for example, you were to mute the snare part, you could focus your training on just the snare pad.

1. Press the [DRUM MUTE] button and verify that it lights up.
2. Strike the pad corresponding to the part from the practice drum pattern you wish to mute.
   - The selected drum part will now be muted.
   - If the pad corresponding to the muted drum part is not struck for a certain period of time, it will be automatically unmuted.
3. To manually unmute all drum parts, press the [DRUM MUTE] button once again and verify that it turns off.

**NOTE**

- If you wish to adjust the difficulty level for this training, see the description of the Difficulty Level parameter from Menu Mode (page 50).
- You can choose either to mute pads when they are not played in time or to play all pads regardless of when they are struck. For details, see the description of the Ignore Timing parameter from Menu Mode (page 50).
- You can set which groups of pads the drum module should consider when deciding whether or not you are playing the correct pattern. For details, see the description of the Pad Gate Group parameter from Menu Mode (page 52).
Practicing in Training Mode

Part Mute training lets you mute any or all of the drum parts (i.e., hi-hat, snare, kick, tom, and/or cymbal) and also the instrument parts from an accompanying song. Please note that this type of training is not scored.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [9]. The [ ] button will flash, indicating that the drum module is on standby to start training.
3. Press the [ ] button to start the current song. Each of the drum parts and the non-drum parts are assigned to different number buttons as shown in the diagram, allowing you to mute and unmute them by pressing the corresponding button. (see the description below)
4. Practice playing the pads along with the song.
5. To select a different song while training, hold down the [SONG] button and press the corresponding number button ([1] to [10/0]).
6. To end training, press the [ ] button once again.

**Muting Drum Parts**
- **Muting with number buttons [1] to [5]**
  1. To mute a drum part, press the corresponding number button. The part will be muted and the number button will light up.
  2. To unmute a drum part, again press the corresponding number button, which will be lit. The part will be unmuted and the number button's light will go out.

**Muting with the Pads**
1. Press the [DRUM MUTE] button and verify that it lights up.
2. Strike the pad corresponding to the drum part you wish to mute. The selected part will be muted and the corresponding number button will light up.
3. To manually unmute all drum parts, press the [DRUM MUTE] button once again and verify that its light goes out.

**Muting Non-Drum Parts**
1. Press number button [9] to mute the accompanying song’s bass part; press number button [10/0] to mute the other instrument parts. The number button(s) corresponding to the muted song part(s) will light up.
2. To unmute song parts, again press the corresponding number button(s), which will be lit. The number button light(s) will go out.

**NOTE**
When you play the pads, the number buttons will flash to indicate the corresponding drum parts.

**NOTE**
If the pad(s) corresponding to a muted drum part are not struck for certain period of time, the part will be automatically unmuted and the number button's light will go out.
Fast Blast

In a Fast Blast training session, you just play the drums as wildly as you can over a set period of time. More a game than a form of practice, your aim is to get the highest possible score. At the end of training, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you.

NOTE
Fast Blast uses a different scoring system than the other types of training.

1. Press the [TRAINING] button to activate Training Mode.
2. Press number button [10/0].
   The [▶/◼] button will flash, indicating that the drum module is on standby to start training.
3. Press the [▶/◼] button.
4. Within the training time (10 seconds), play as many of the pads as often as you can.
   • The timer will start when you strike the first pad.
   • Each time you strike a pad and increase your score, the position of the fully-lit number button moves from left to right.
   • The half-lit number buttons indicate how much time is left before the end of the training session. Specifically, the half-lit number button lights will successively go out from right to left, and the training session will end when they are all turned off.

• When the training session has ended, the drum module will display your score using number buttons [1] to [10/0] and will also speak it to you (in English).
  Example:
  If you scored 980, the number buttons would flash [9]→[8]→[0].
  • To end a training session before the timer runs out, press the [▶/◼] button once again.

NOTE
• If you would like to check your score once again, press any of the number buttons [1] to [10/0].
• If you wish to adjust the training time, see the description of the Fast Blast Timer parameter from Menu Mode (page 52).
Setting Parameters using Menu Mode

Menu Mode is used to set drum-module parameters and functions, which are arranged into the following seven groups.

1  Metronome Settings
   1-1. Pattern .................................................. Page 41
   1-2. Beats .................................................... Page 41
   1-3. Sound .................................................. Page 41
   1-4. Number Button Lighting Pattern ................. Page 42

2  Kit Settings
   2-1. Pad Sound ............................................. Page 42
   2-2. Pad Volume ............................................ Page 42
   2-3. Pad Panning ......................................... Page 43
   2-4. Double Bass Drum .................................. Page 43
   2-5. Reverb ................................................. Page 43

3  MIDI Settings
   3-1. Local Control ....................................... Page 44
   3-2. Note Number ........................................ Page 44

4  Hi-hat Settings
   4-1. Clutch Position .................................... Page 45
   4-2. Splash Sensitivity ................................ Page 45
   4-3. Foot Close Position ................................ Page 45
   4-4. Foot Close Velocity ................................ Page 45
   4-5. Kick Velocity ........................................ Page 46

5  Trigger Settings
   5-1. Pad Velocity Curve ................................. Page 46
   5-2. Crossstalk ............................................ Page 47
   5-3. Snare Pad Type ..................................... Page 48
   5-4. Pedal Types .......................................... Page 48
   5-5. Gain ................................................... Page 49
   5-6. Minimum Level ..................................... Page 49

6  Training Settings
   6-1. Timer .................................................... Page 49
   6-2. Difficulty Level ..................................... Page 50
   6-3. Ignore Timing ....................................... Page 50
   6-4. Groove Tracker Return Time ..................... Page 50
   6-5. Groove Tracker Control Pad(s)............... Page 51
   6-6. Groove Tracker Advance Step .................... Page 51
   6-7. Pad Gate Group .................................. Page 52
   6-8. Fast Blast Timer .................................. Page 52

7  Other Settings
   7-1. Kit Lock .............................................. Page 53
   7-2. Voice Guidance Volume .......................... Page 53
   7-3. Auto Power-Off Time .............................. Page 53
   7-4. Stereo/Mono ......................................... Page 53
   7-5. Initialize Kit ....................................... Page 54
   7-6. Initialize Song ..................................... Page 54
   7-7. Revert to Last Power On ......................... Page 55
   7-8. Factory Set .......................................... Page 55

Basic Menu Mode Procedure

The basic procedure used to activate Menu Mode and select the parameter to be set is as follows. For details of the individual parameters, please see the corresponding sections below.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.

2. Press the number button corresponding to the group containing the parameter you wish to set. (Parameter groups are shown in the hierarchical list on the left.)

3. Press the number button corresponding to the parameter you wish to set. (Parameters are shown in the hierarchical list on the left.) The number buttons flash continuously to indicate the current setting.

4. Enter the new setting.
   You can use the number buttons to directly set parameters with numerical values, such as a velocity. To enter the value 105, for example, press the number buttons in the order [1]→[10/0]→[5].
   • Number button [10/0] is used to enter the value zero. You cannot use it to enter the number ten.
   • If you take no action for awhile, the setting is automatically stored.
   • When you have entered a value, the number buttons will flash continuously to indicate the new setting.

NOTE
You can also use the [TEMPO+] and [TEMPO–] buttons to increase and decrease setting values. Specifically, the [TEMPO+] button increases the current setting by one each time it is pressed; the [TEMPO–] button decreases it by one.
1. Pattern

Using the following procedure, you can set one of eight patterns for the drum module’s metronome.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [1] to select the Metronome Settings parameter group.
3. Press number button [1] to select the Pattern parameter.
4. Select a new metronome pattern using the corresponding number button ([1] to [8]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>![Pattern 1]</td>
</tr>
<tr>
<td>[2]</td>
<td>![Pattern 2]</td>
</tr>
<tr>
<td>[3]</td>
<td>![Pattern 3]</td>
</tr>
<tr>
<td>[5]</td>
<td>![Pattern 5]</td>
</tr>
<tr>
<td>[7]</td>
<td>![Pattern 7]</td>
</tr>
<tr>
<td>[8]</td>
<td>![Pattern 8]</td>
</tr>
</tbody>
</table>

NOTE
With settings [2], [4], [6], and [8], the first beat is accented.

1-2. Beats

Using the following procedure, you can set the metronome to between 1 and 9 beats in length.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [1] to select the Metronome Settings parameter group.
4. Select a new metronome length in beats using the corresponding number button ([1] to [9]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>1 beat</td>
</tr>
<tr>
<td>[2]</td>
<td>2 beats</td>
</tr>
<tr>
<td>[3]</td>
<td>3 beats</td>
</tr>
<tr>
<td>[4]</td>
<td>4 beats</td>
</tr>
<tr>
<td>[5]</td>
<td>5 beats</td>
</tr>
<tr>
<td>[6]</td>
<td>6 beats</td>
</tr>
<tr>
<td>[7]</td>
<td>7 beats</td>
</tr>
<tr>
<td>[8]</td>
<td>8 beats</td>
</tr>
<tr>
<td>[9]</td>
<td>9 beats</td>
</tr>
</tbody>
</table>

1-3. Sound

Using the following procedure, you can set the sound played by the metronome to, for example, a standard click sound, a cowbell, a drumsticks sound, or a spoken count.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [1] to select the Metronome Settings parameter group.
4. Select a new metronome sound using the corresponding number button ([1] to [6]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Metronome click 1</td>
</tr>
<tr>
<td>[3]</td>
<td>Cowbell</td>
</tr>
<tr>
<td>[4]</td>
<td>Drumsticks</td>
</tr>
<tr>
<td>[5]</td>
<td>Spoken count 1</td>
</tr>
<tr>
<td>[6]</td>
<td>Spoken count 2</td>
</tr>
</tbody>
</table>
## Setting Parameters using Menu Mode

### 1-4. Number Button Lighting Pattern

**Steps:**

MENU ([KIT] + [SONG]) → [1] → [4] → Setting

You can have number buttons [1] to [10/0] light up when playing the metronome in Kit Mode or Song Mode. Use the following procedure to set the buttons’ lighting pattern.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [1] to select the Metronome Settings parameter group.
4. Select a new lighting pattern using the corresponding number button ([1] to [3]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off (no lighting)</td>
</tr>
<tr>
<td>[2]</td>
<td>Pattern 1</td>
</tr>
<tr>
<td>[3]</td>
<td>Pattern 2</td>
</tr>
</tbody>
</table>

### 2 Kit Settings

#### 2-1. Pad Sound

**Steps:**

MENU ([KIT] + [SONG]) → [2] → [1] → Setting

Using the following procedure, you can change the sounds assigned to the current kit’s pads. This makes it very easy to create your own unique kits.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [2] to select the Kit Settings parameter group.
3. Press number button [1] to select the Pad Sound parameter.
4. Strike a pad to select it.
5. Enter a new drum-sound number using number buttons [1] to [10/0]. For a list of sounds and numbers, see the Voice List (page 61).

#### 2-2. Pad Volume

**Steps:**

MENU ([KIT] + [SONG]) → [2] → [2] → Setting

Using the following procedure, you can adjust the volume of the current kit’s pads.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [2] to select the Kit Settings parameter group.
4. Strike a pad to select it.
5. Enter a new volume using number buttons [1] to [10/0].
2-3. Pad Panning

Steps:
MENU ([KIT] + [SONG]) → [2] → [3] → Setting

Using the following procedure, you can adjust the panning of the current kit’s pads.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [2] to select the Kit Settings parameter group.
4. Strike a pad to select it.
5. Enter a new panning position using number buttons [1] to [10/0]. A value of 64 corresponds to the center position. Smaller values than this move the pad increasingly towards the left; larger values move it towards the right.

<table>
<thead>
<tr>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 127</td>
</tr>
</tbody>
</table>

2-4. Double Bass Drum

Steps:
MENU ([KIT] + [SONG]) → [2] → [4] → Setting

Using the following procedure, you can easily configure the drum module to produce a kick drum sound when you operate the pedal connected to the [HI-HAT CONTROL] trigger input jack. This convenient function provides support for double bass drumming techniques.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [2] to select the Kit Settings parameter group.
4. Set the parameter using number button [1] or [2]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off</td>
</tr>
<tr>
<td>[2]</td>
<td>On</td>
</tr>
</tbody>
</table>

**NOTE**

While the Double Bass Drum function is enabled, you will be unable to use the hi-hat controller plugged into the [HI-HAT CONTROL] trigger input jack to simulate opening and closing of the hi-hat.

2-5. Reverb

Steps:
MENU ([KIT] + [SONG]) → [2] → [5] → Setting

Reverb effects add a warm ambience to sounds, simulating the complex reflections of actual performance spaces, such as a concert hall or a small club. Use the following procedure to select a reverb effect for the current kit.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [2] to select the Kit Settings parameter group.
4. Select a reverb effect using the corresponding number button ([1] to [10/0]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off</td>
</tr>
<tr>
<td>[2]</td>
<td>Hall 1</td>
</tr>
<tr>
<td>[3]</td>
<td>Hall 2</td>
</tr>
<tr>
<td>[4]</td>
<td>Hall 3</td>
</tr>
<tr>
<td>[5]</td>
<td>Room 1</td>
</tr>
<tr>
<td>[6]</td>
<td>Room 2</td>
</tr>
<tr>
<td>[7]</td>
<td>Room 3</td>
</tr>
<tr>
<td>[8]</td>
<td>Stage 1</td>
</tr>
<tr>
<td>[9]</td>
<td>Stage 2</td>
</tr>
<tr>
<td>[10/0]</td>
<td>Plate</td>
</tr>
</tbody>
</table>
### 3 MIDI Settings

#### 3-1. Local Control

**Steps:**

MENU ([KIT] + [SONG]) → [3] → [1] → Setting

The Local Control parameter determines whether or not the drum module’s internal tone generator will produce sounds in response to playing of the pads or of songs. Normally, this parameter is set to “On”, meaning that pads and songs will generate sounds. When “Off” is selected, the tone generator is essentially disconnected from the pads and songs, which will be unable to generate any sound. An “Off” setting can prove highly useful when you wish to record your drum performances as MIDI data on a sequencer or using DAW software.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [3] to select the MIDI Settings parameter group.
3. Press number button [1] to select the Local Control parameter.
4. Set the parameter using number button [1] or [2]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off</td>
<td>The internal tone generator does not respond to pads and songs.</td>
</tr>
</tbody>
</table>

**NOTE**

- The drum module’s internal tone generator will continue to respond to received MIDI data when Local Control is turned off.
- The drum module will continue to output drum performances as MIDI data when Local Control is turned off.

---

#### 3-2. Note Number

**Steps:**

MENU ([KIT] + [SONG]) → [3] → [2] → Setting

Using the following procedure, you can set the MIDI note number that is output when each of the pads is played.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [3] to select the MIDI Settings parameter group.
3. Press number button [2] to select the Note Number parameter.
4. Strike a pad to select it.
5. Enter a new note number using number buttons [1] to [10/0].

<table>
<thead>
<tr>
<th>Setting</th>
<th>0 to 127</th>
</tr>
</thead>
</table>

**NOTE**

Note number settings are relevant only when you have connected your drum module to a computer. For more details, refer to the MIDI Reference Manual (PDF).
## 4 Hi-hat Settings

### 4-1. Clutch Position

**Steps:**

MENU ([KIT] + [SONG]) → [4] → [1] → Setting

Using the following procedure, you can simulate the effect of changing the hi-hat’s clutch position. The smaller the setting, the quicker an open hi-hat sound will decay.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new clutch position using number buttons [1] to [10/0].

### 4-2. Splash Sensitivity

**Steps:**

MENU ([KIT] + [SONG]) → [4] → [2] → Setting

Using the following procedure, you can set the degree of sensitivity for detecting hi-hat foot splashes. The higher the value, the easier it will be to produce a foot-splash sound with the hi-hat controller. High values may, however, result in splash sounds being unintentionally produced when, for example, you operate the hi-hat controller lightly as you keep time. It is a good idea, therefore, to set this parameter to “Off” if you do not want to play foot splashes.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new splash sensitivity using number buttons [1] to [10/0].

### 4-3. Foot Close Position

**Steps:**

MENU ([KIT] + [SONG]) → [4] → [3] → Setting

Using the following procedure, you can adjust the position at which the hi-hat switches from open to closed when you operate the hi-hat controller. The lower the value, the smaller the virtual opening between the top and bottom hi-hats. Larger values increase the size of the gap between the top and bottom cymbals, and this can prevent foot close or foot splash sounds from being produced when you operate the pedal.

This parameter only has an effect when you are using an HH65 Hi-hat Controller.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new foot close position using number buttons [1] to [10/0].

### 4-4. Foot Close Velocity

**Steps:**

MENU ([KIT] + [SONG]) → [4] → [4] → Setting

Using the following procedure, you can adjust the velocity (or power) of foot-close sounds produced using the hi-hat controller.

This parameter only has an effect when you are using the hi-hat controller that comes with the DTX400K.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new velocity using number buttons [1] to [10/0].

**NOTE**

Set this parameter to [0] in order to turn off foot splashes.
4-5. Kick Velocity

Using the following procedure, you can adjust the velocity (or power) of kick sounds produced using the hi-hat controller. In order for the Kick Velocity parameter to have an effect, Double Bass Drum must be set to “On” for the current kit (page 43).

This parameter only has an effect when you are using the hi-hat controller that comes with the DTX400K.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new velocity using number buttons [1] to [10/0].

<table>
<thead>
<tr>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 127</td>
</tr>
</tbody>
</table>

5 Trigger Settings

5-1. Pad Velocity Curve

Using the following procedure, you can select a velocity curve for individual pads. A velocity curve determines how the velocity (or power) of a sound is affected by how hard you strike the pad.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [1] to select the Pad Velocity Curve parameter.
4. Strike a pad to select it.
5. Enter a new velocity curve setting using number buttons [1] to [10/0]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 25</td>
</tr>
</tbody>
</table>
5-2. Crosstalk

The term “crosstalk” refers to the output of spurious trigger signals from a pad other than the one that was stuck as a result of vibration or interference between pads. Using the following procedure, you can adjust the Crosstalk parameter for individual pads to prevent this phenomenon from occurring.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Strike a pad to select it.
5. Enter a new setting (%) using number buttons [1] to [10/0]. Larger values are more effective in preventing crosstalk; however, they can also make it difficult to play pads simultaneously during light drumming.
5-3. Snare Pad Type

Using the following procedure, you can specify the type of snare pad connected to your drum module.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [3] to select the Snare Pad Type parameter.
4. Select a new snare pad type using the corresponding number button ([1] to [6]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Automatic identification (only for [2] and [3])</td>
</tr>
<tr>
<td>[2]</td>
<td>TP70S</td>
</tr>
<tr>
<td>[3]</td>
<td>Snare pad that comes with DTX400K</td>
</tr>
<tr>
<td>[5]</td>
<td>TP70S reversed</td>
</tr>
</tbody>
</table>

NOTE
- When set to [1], the drum module will automatically identify the type of snare pad that came with your electronic drum kit when it is turned on. If you then press and hold number button [1], the drum module will flash number button [2] or [3] to indicate the result of automatic identification.
- Whenever you change the type of snare connected to the drum module, please update this setting using the corresponding number button ([2] to [4]). For example, when you use the XP-series pad, select [4].
- You can use setting [5] or [6] to switch (or reverse) the drum sounds assigned to Rim 1 and Rim 2. This makes it easier for left-handed drummers to configure their electronic drum kit.

5-4. Pedal Types

Use the following parameter to specify the types of pedals (i.e., hi-hat controller and kick) connected to your drum module.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Select a new pedal type combination using the corresponding number button ([1] to [5]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Automatic identification (only for [2] and [3])</td>
</tr>
<tr>
<td>[2]</td>
<td>HH65</td>
</tr>
<tr>
<td>[3]</td>
<td>Hi-hat controller pedal that comes with DTX400K</td>
</tr>
<tr>
<td>[4]</td>
<td>Hi-hat controller pedal that comes with DTX400K</td>
</tr>
<tr>
<td>[5]</td>
<td>HH65</td>
</tr>
</tbody>
</table>

NOTE
- This parameter can normally be set to [1] (automatic identification).
- When set to [1], the drum module will automatically identify the type of pedal that came with your electronic drum kit when it is turned on. If you then press and hold number button [1], the drum module will flash number button [2] or [3] to indicate the result of automatic identification.
- Connect the hi-hat controller before turning on the drum module. Please do not turn the drum module on with the hi-hat controller depressed. The drum module can not identify the type of pedal properly and it causes that the kick may produce much smaller sound than expected.
- Whenever you change the type of hi-hat controller or kick pedal connected to the drum module, please update this setting using the corresponding number button ([2] to [5]).
5-5. Gain

Steps:

- MENU ([KIT] + [SONG]) → [5] → [5] → Setting

Using the following procedure, you can set the gain level for trigger signals output from individual pads. The higher the gain setting, the louder the sounds produced by light drumming.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Strike a pad to select it.
5. Enter a new gain level using number buttons [1] to [10/0].

5-6. Minimum Level

Steps:

- MENU ([KIT] + [SONG]) → [5] → [6] → Setting

When the strength with which you strike a pad is no more than this level, the pad will not output a trigger signal in response and no sound will be produced.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Strike a pad to select it.
5. Enter a new setting (%) using number buttons [1] to [10/0].

6-1. Timer

Steps:

- MENU ([KIT] + [SONG]) → [6] → [1] → Setting

Using the following procedure, you can set the practice timer used in the drum module’s Training Mode. The timer begins counting at the start of a training session, and when the set time is reached, it automatically ends the session.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [1] to select the Timer parameter.
4. Select your preferred practice time using the corresponding number button ([1] to [10/0]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off</td>
</tr>
<tr>
<td>[2]</td>
<td>30 seconds</td>
</tr>
<tr>
<td>[3]</td>
<td>60 seconds</td>
</tr>
<tr>
<td>[4]</td>
<td>90 seconds</td>
</tr>
<tr>
<td>[5]</td>
<td>120 seconds</td>
</tr>
<tr>
<td>[6]</td>
<td>150 seconds</td>
</tr>
<tr>
<td>[7]</td>
<td>180 seconds</td>
</tr>
<tr>
<td>[8]</td>
<td>300 seconds</td>
</tr>
<tr>
<td>[9]</td>
<td>480 seconds</td>
</tr>
<tr>
<td>[10/0]</td>
<td>600 seconds</td>
</tr>
</tbody>
</table>

**NOTE**

The practice time set using this parameter applies to the following types of training only:

- Groove Check
- Rhythm Gate
- Measure Break
- Tempo Up/Down
- Change Up
- Pad Gate

Other types of training are not affected.
6-2. Difficulty Level

Steps:
MENU ([KIT] + [SONG]) → [6] → [2] → Setting

Using the following procedure, you can set the level of training difficulty for Tempo Up/Down (page 33), Change Up (page 34), and Pad Gate (page 37).

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Select a new difficulty level using the corresponding number button ([1] to [5]). The higher the level, the more difficult the training.

**NOTE**
The level of difficulty set using this parameter applies only to the Tempo Up/Down, Change Up, and Pad Gate training types. Other types of training are not affected.

4. Set the parameter using number button [1] or [2]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Off</td>
<td>Pads played out of time will not produce a sound.</td>
</tr>
<tr>
<td>[2]</td>
<td>On</td>
<td>Pads will produce a sound whenever they are played.</td>
</tr>
</tbody>
</table>

6-3. Ignore Timing

Steps:
MENU ([KIT] + [SONG]) → [6] → [3] → Setting

Using the following procedure, you can set the Ignore Timing parameter for Tempo Up/Down (page 33), Change Up (page 34), and Pad Gate (page 37) training. When set to “On”, the pads will produce a sound whenever they are struck; when “Off”, only pads played exactly in time will produce a sound.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new return time setting using number buttons [1] to [10/0]. The bigger the setting, the longer the return time.

**NOTE**
- When set to [1], the practice drum pattern will not return to the start.
- The time set using this parameter only applies to Groove Tracker training. Other types of training are not affected.

6-4. Groove Tracker Return Time

Steps:
MENU ([KIT] + [SONG]) → [6] → [4] → Setting

Using the following procedure, you can set the period of time after which the practice drum pattern in Groove Tracker training (page 36) will return to the start when you stop drumming.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Enter a new return time setting using number buttons [1] to [10/0]. The bigger the setting, the longer the return time.

**NOTE**
- When set to [1], the practice drum pattern will not return to the start.
6-5. Groove Tracker Control Pad(s)

Steps:
MENU ([KIT] + [SONG]) → [6] → [5] → Setting

Using the following procedure, you can select which pad(s) you would like to use to advance the practice drum pattern in Groove Tracker training (page 36).

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [5] to select the Groove Tracker Control Pad(s) parameter.
4. Select a new setting using the corresponding number button ([1] to [6]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Auto</td>
<td>The drum module will automatically select the best setting for the practice drum pattern.</td>
</tr>
<tr>
<td>[2]</td>
<td>Cymbal + hi-hat 1</td>
<td>The cymbal and hi-hat pads will advance the pattern and will also produce their own sounds.</td>
</tr>
<tr>
<td>[3]</td>
<td>Cymbal + hi-hat 2</td>
<td>The cymbal and hi-hat pads will advance the pattern.</td>
</tr>
<tr>
<td>[4]</td>
<td>Kick</td>
<td>The kick pad or pedal will advance the pattern.</td>
</tr>
<tr>
<td>[5]</td>
<td>Snare + hi-hat</td>
<td>The snare and hi-hat pads will advance the pattern.</td>
</tr>
<tr>
<td>[6]</td>
<td>All</td>
<td>All pads and pedals will advance the pattern.</td>
</tr>
</tbody>
</table>

**NOTE**

- With a setting of [3] to [6], the corresponding pad(s) will not produce a drum sound of their own.
- When this parameter is set to [6], the [DRUM MUTE] button cannot be used to mute the practice drum pattern.

6-6. Groove Tracker Advance Step

Steps:
MENU ([KIT] + [SONG]) → [6] → [6] → Setting

Using the following procedure, you can set how much the practice drum pattern in Groove Tracker training (page 36) should advance for each strike of the set pad(s).

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Select a new advancement step using the corresponding number button ([1] to [5]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1]</td>
<td>Auto</td>
<td>The drum module will automatically identify the best advancement step for the practice drum pattern.</td>
</tr>
</tbody>
</table>

**NOTE**

- The advancement step set using this parameter only applies to Groove Tracker training. Other types of training are not affected.
- If, when set to [1], you press and hold number button [1], the drum module will flash a number button between [2] and [5] to indicate the result of automatic identification.
6-7. Pad Gate Group

Using the following procedure, you can set which groups of pads the drum module should consider when deciding whether or not you are playing the correct pattern in Pad Gate training (page 37).

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [7] to select the Pad Gate Group parameter.
4. Select a new setting using the corresponding number button ([1] to [4]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] All pads</td>
<td>Any pad will produce a sound and be scored, as long as the timing of your drumming is correct.</td>
<td></td>
</tr>
<tr>
<td>[2] Group type 1</td>
<td>The kit will be separated into five groups—Kick, Snare, Toms, Cymbals, and Hi-hat. In order for your drumming to produce sounds and be scored, you must strike pads from the same group as those from the practice drum pattern and do so in time.</td>
<td></td>
</tr>
<tr>
<td>[3] Group type 2</td>
<td>More difficult than Group type 1, this setting splits each of the toms and each of the cymbals into individual groups. In addition, the hi-hat pad and the hi-hat controller are also treated separately.</td>
<td></td>
</tr>
<tr>
<td>[4] All notes</td>
<td>With this setting, you must play the exact same practice drum pattern as the drum module.</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**
- The evaluation method set using this parameter applies only to Pad Gate training. Other types of training are not affected.
- The higher the setting, the more difficult the training.

6-8. Fast Blast Timer

Using the following procedure, you can set the timer for Fast Blast training sessions (page 39). When the timer counts down to zero after the start of a training session, it will automatically end the training.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
3. Press number button [8] to select the Fast Blast Timer parameter.
4. Select your preferred practice time using the corresponding number button ([1] to [10/0]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>[1] 10 seconds</td>
<td></td>
</tr>
<tr>
<td>[2] 30 seconds</td>
<td></td>
</tr>
<tr>
<td>[3] 60 seconds</td>
<td></td>
</tr>
<tr>
<td>[4] 90 seconds</td>
<td></td>
</tr>
<tr>
<td>[5] 120 seconds</td>
<td></td>
</tr>
<tr>
<td>[6] 150 seconds</td>
<td></td>
</tr>
<tr>
<td>[7] 180 seconds</td>
<td></td>
</tr>
<tr>
<td>[8] 300 seconds</td>
<td></td>
</tr>
<tr>
<td>[9] 480 seconds</td>
<td></td>
</tr>
<tr>
<td>[10/0] 600 seconds</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE**
The timer set using this parameter applies only to Fast Blast training. Other types of training are not affected.
7 Other Settings

7-1. Kit Lock

Steps:
MENU ([KIT] + [SONG]) → [7] → [1] → Setting

Kit Lock

Normally, when you select a song, the drum module automatically chooses the most appropriate kit. You can, however, use the Kit Lock function to prevent this if you wish to keep the current kit when practicing with different songs.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [7] to select the Other Settings parameter group.
3. Press number button [1] to select the Kit Lock parameter.
4. Set the parameter using number button [1] or [2]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Off</td>
</tr>
<tr>
<td>2</td>
<td>On</td>
</tr>
</tbody>
</table>

NOTE
Regardless of this parameter’s setting, you can always select a new kit using the drum module’s control panel.

7-2. Voice Guidance Volume

Steps:
MENU ([KIT] + [SONG]) → [7] → [2] → Setting

Voice Guidance Volume

Using the following procedure, you can set the time until the Auto Power-Off function (page 20) activates or you can disable this function.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [7] to select the Other Settings parameter group.
4. Set a time or disable this function using the corresponding number button ([1] to [7]). The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Auto Power-Off disabled</td>
</tr>
<tr>
<td>2</td>
<td>5 minutes</td>
</tr>
<tr>
<td>3</td>
<td>10 minutes</td>
</tr>
<tr>
<td>4</td>
<td>15 minutes</td>
</tr>
<tr>
<td>5</td>
<td>30 minutes</td>
</tr>
<tr>
<td>6</td>
<td>60 minutes</td>
</tr>
<tr>
<td>7</td>
<td>120 minutes</td>
</tr>
</tbody>
</table>

7-3. Auto Power-Off Time

Steps:
MENU ([KIT] + [SONG]) → [7] → [3] → Setting

Auto Power-Off Time

7-4. Stereo/Mono

Steps:
MENU ([KIT] + [SONG]) → [7] → [4] → Setting

Stereo/Mono

Using the following procedure, you can set the [PHONES/OUTPUT] jack to output either mono or stereo sound. We recommend that you select the Mono setting if connecting a standard mono-audio cable to this jack in order to use your drum module with external speakers, a mixer, or other similar equipment.

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [7] to select the Other Settings parameter group.
4. Set the parameter using number button [1] or [2]. The available settings are as follows.

<table>
<thead>
<tr>
<th>Number button</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Stereo</td>
</tr>
<tr>
<td>2</td>
<td>Mono</td>
</tr>
</tbody>
</table>
7-5. Initialize Kit

Using the following procedure, you can restore a kit’s default settings.

**NOTICE**
When you initialize a kit, all of the changes you have made to it will be lost. Before proceeding, therefore, you should ensure that the kit contains no irreplaceable settings.

1. Press the [KIT] button.
2. Select the kit to initialize using the corresponding number button ([1] to [10/0]).
3. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Press number button [7] to select the Other Settings parameter group.
   - Number button [1] will light up.
6. Press number button [1].
   - Number button [1] will start to flash.
   - If you do not wish to proceed with initialization, press the [KIT] button now to exit Menu Mode.
7. Press number button [1].
   - The kit will be initialized.

7-6. Initialize Song

Using the following procedure, you can restore a song’s default settings.

**NOTICE**
When you initialize a song, all of the changes you have made to it will be lost. Before proceeding, therefore, you should ensure that the song contains no irreplaceable data.

1. Press the [SONG] button.
2. Select the song to initialize using the corresponding number button ([1] to [10/0]).
3. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
4. Press number button [7] to select the Other Settings parameter group.
   - Number button [1] will light up.
6. Press number button [1].
   - Number button [1] will start to flash.
   - If you do not wish to proceed with initialization, press the [KIT] button now to exit Menu Mode.
7. Press number button [1].
   - The song will be initialized.
7-7. Revert to Last Power On

Using the following procedure, you can return all of the parameters from Kit Mode, Song Mode, and Menu Mode to the settings they had when you last turned on the drum module.

**NOTICE**
When you reset parameters as described below, any changes you have made to them since last turning on the drum module will be lost. Before proceeding, therefore, you should ensure that they contain no irreplaceable settings.

---

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [7] to select the Other Settings parameter group.
   - Number button [1] will light up.
4. Press number button [1].
   - Number button [1] will start to flash.
   - If you do not wish to proceed with initialization, press the [KIT] button now to exit Menu Mode.
5. Press number button [1].
   - The parameters will be initialized.

7-8. Factory Set

Using the following procedure, you can return all of the parameters from Kit Mode, Song Mode, and Menu Mode to their default settings.

**NOTICE**
When you reset parameters as described below, any changes you have made to them will be lost. Before proceeding, therefore, you should ensure that they contain no irreplaceable settings.

---

1. While holding the [KIT] button, press the [SONG] button to activate Menu Mode.
2. Press number button [7] to select the Other Settings parameter group.
   - Number button [1] will light up.
4. Press number button [1].
   - Number button [1] will start to flash.
   - If you do not wish to proceed with initialization, press the [KIT] button now to exit Menu Mode.
5. Press number button [1].
   - The parameters will be initialized.

**NOTE**
You can also restore the Factory Set by turning on the drum module with the [VOLUME+] button and the [VOLUME−] button held down. See page 20 for more details.
Integrating Separately Sold Accessories

As described below, you can add various accessories* to your electronic drum kit for an even more enjoyable drumming experience. (*: Sold separately)

For DTX400K Owners

By upgrading the KU100 Kick Unit and/or the hi-hat controller included as part of the DTX400K, you can make your electronic drum kit feel much closer to the real thing.

- Replacing the KU100 Kick Unit with a KP65 Kick Pad

1. Assemble the KP65 Kick Pad. For details, see Step 13 on page 17.
2. Turn off the drum module.
   The KP65 Kick Pad must be connected with the drum module turned off.
3. Disconnect the cable from the KU100 and plug it into the [OUT]jack on the back on the KP65.
4. Turn on the drum module.
5. Set the kick type to “KP65”. For more details, see the description of the Pedal Types parameter from Menu Mode (page 48).
6. Play the KP65 Kick Pad.

When you upgrade your KU100 to a KP65, you will need a foot pedal to play the new kick pad.

- Replacing the bundled hi-hat controller with an HH65 Hi-hat Controller

1. Turn off the drum module.
   The HH65 Hi-hat Controller must be connected with the drum module turned off.
2. Disconnect the cable from the bundled hi-hat controller and plug it into the [OUTPUT] jack on the HH65.
3. Turn on the drum module.
4. Set the hi-hat controller type to “HH65”. For more details, see the description of the Pedal Types parameter from Menu Mode (page 48).
5. Play the HH65 Hi-hat Controller.

For DTX430K & DTX450K Owners

- Adding a PCY90AT Cymbal Pad

1. Turn off the drum module.
   The PCY90AT Cymbal Pad must be connected with the drum module turned off.
2. Using the cable that came with the cymbal pad, connect it to the [PAD]jack on the KP65 Kick Pad.

3. Turn on the drum module.
4. Play the newly added cymbal pad.
Connecting to a Computer

Making Connections

While the drum module is highly powerful and versatile all by itself, you can connect it to a computer via USB for even greater convenience and flexibility. When connected in this way, MIDI data can be freely exchanged with the computer, allowing the drum module to be used as an input device for music production applications. In this section, you’ll learn how to make the necessary connections.

**NOTE**
- As the drum module has no built-in speakers, you will need to connect headphones or an amplifier and speakers in order to hear it. For details, see page 19.
- A USB cable is not included. In order to connect your drum module to a computer, choose a USB A-B cable of less than 3 meters in length.

**Supported operating systems:**
- Windows XP, Service Pack 3 (32-bit); Windows Vista (32-bit), and Windows 7 (32- or 64-bit)
- Mac OS X 10.5 to 10.7

1. **Turn off the drum module.**
2. **Start up your computer.**
   Shut down all applications before proceeding to the next step.
3. **Connect the USB cable first to the drum module’s [USB TO HOST] terminal and then to the computer.**
4. **Turn on the drum module.**
   You will now be able to exchange MIDI data between the drum module and computer.

**Yamaha USB-MIDI driver**

In most situations, there is no need to install the Yamaha USB-MIDI driver and the above setup procedure will suffice. If, however, your computer is having difficulty communicating with the drum module, please download the standard Yamaha USB-MIDI driver from the following web page and install it on your computer.

http://download.yamaha.com/

**NOTE**
- Information on system requirements is also provided on the above web page.
- The USB-MIDI driver may be revised and updated without prior notice. Before installing, please visit the above web page to confirm that you have the most up-to-date version.

**Precautions when using the [USB TO HOST] terminal**

If proper care is not taken when connecting your drum module to a computer via the [USB TO HOST] terminal, either or both of the devices may freeze or data may become corrupted or be permanently lost. Be sure, therefore, to observe the following precautions at this time.

If the drum module or computer should freeze, restart the application being used, reboot the computer, or turn the drum module off once and then back on.

**NOTICE**
- Use a USB A-B cable of less than 3 meters in length.
- Before connecting to a computer via the [USB TO HOST] terminal, restore it from any power-saving mode (such as Suspend, Sleep, or Standby).
- Connect your computer via the [USB TO HOST] terminal before turning on the drum module.
- Be sure to always perform the following steps before turning the drum module on or off and either plugging in or unplugging the USB cable.
  - Shut down all applications.
  - Ensure that no data is being sent from the drum module. (Data is transmitted by striking the pads and by playing songs and drum patterns.)
  - When connected to a computer, allow at least 6 seconds to pass between turning the drum module on and off and plugging in or unplugging the USB cable.

**MIDI Reference Manual**

The drum module’s MIDI Reference Manual contains the following.
- MIDI-related reference information
- Reference material that will prove useful when making music using the drum module and a computer
- Instructions on how to transfer songs from your computer to the drum module.

The MIDI Reference Manual is available for download as a PDF file from the following web page below.

http://download.yamaha.com/

* Yamaha Corporation reserves the right to modify this URL at any time without prior notice.
Troubleshooting

In addition to the following, you can also find troubleshooting tips in the MIDI Reference Manual (PDF). See page 57 for details on downloading this manual.

<table>
<thead>
<tr>
<th>No sound is produced when a pad is struck, or the volume is lower than expected.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Check connections as follows.</strong></td>
</tr>
<tr>
<td>• Ensure that the pads are properly connected to the drum module’s trigger input jacks.</td>
</tr>
<tr>
<td>• Ensure that the drum module is properly connected to headphones or other audio equipment, such as an amplifier and/or speakers.</td>
</tr>
<tr>
<td>• Ensure that the amplifier and/or speakers connected to the drum module are turned on and are not set to the lowest possible volume.</td>
</tr>
<tr>
<td>• Ensure that the cables for the hi-hat controller and the kick unit are not connected to each other’s jacks. (DTX400K only; see page 17.)</td>
</tr>
<tr>
<td>• If you are using a KP65 Kick Pad, try adjusting its Level dial.</td>
</tr>
<tr>
<td>• If you are using a KU100 Kick Unit, connect the hi-hat controller before turning on the drum module. Please do not turn the drum module on with the hi-hat controller depressed. The drum module can not identify the type of pedal properly and it causes that the kick may produce much smaller sound than expected.</td>
</tr>
<tr>
<td><strong>Check the drum module’s settings as follows.</strong></td>
</tr>
<tr>
<td>• Ensure that the drum module’s volume is not turned fully down. (See page 19)</td>
</tr>
<tr>
<td>• Try adjusting the Pad Volume parameter from Menu Mode. (See page 42)</td>
</tr>
<tr>
<td>• Try adjusting the Gain parameter from Menu Mode. (See page 49)</td>
</tr>
<tr>
<td>• Try adjusting the Pad Velocity Curve parameter from Menu Mode. (See page 46)</td>
</tr>
<tr>
<td>• Try adjusting the Crosstalk parameter from Menu Mode. (See page 47)</td>
</tr>
<tr>
<td>• Ensure that the Snare Pad Type parameter from Menu Mode is set correctly. (See page 48)</td>
</tr>
<tr>
<td>• Ensure that the Pedal Types parameter from Menu Mode is set correctly. (See page 48)</td>
</tr>
<tr>
<td>• Ensure that the Local Control parameter from Menu Mode is set correctly. (See page 44)</td>
</tr>
<tr>
<td><strong>If you cannot play foot closed hi-hat sounds, try the following.</strong></td>
</tr>
<tr>
<td>• Ensure that you are operating the hi-hat controller in a firm and full manner.</td>
</tr>
<tr>
<td>• Ensure that the Double Bass Drum parameter from Menu Mode is set to “Off”. (See page 43)</td>
</tr>
<tr>
<td>• If you are using an HH65 Hi-hat Controller, set the Foot Close Position parameter from Menu Mode to a small value. (See page 45)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sounds or volumes are not as expected.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>If hi-hat splash sounds are not produced as expected, try the following.</strong></td>
</tr>
<tr>
<td>• Adjust the Splash Sensitivity parameter from Menu Mode. (See page 45)</td>
</tr>
<tr>
<td><strong>If it is difficult to produce closed hi-hat sounds with an HH65 Hi-hat Controller, try the following.</strong></td>
</tr>
<tr>
<td>• Adjust the Foot Close Position parameter from Menu Mode. (See page 45)</td>
</tr>
<tr>
<td><strong>If it is difficult to produce louder and quieter foot-closed hi-hat sounds, try the following.</strong></td>
</tr>
<tr>
<td>• Ensure that the Pedal Types parameter from Menu Mode is set correctly. (See page 48)</td>
</tr>
<tr>
<td>• If using the hi-hat controller that comes with the DTX400K, adjust the Foot Close Velocity parameter from Menu Mode to an appropriate fixed level: This pedal does not support playing of louder and quieter foot-closed hi-hat sounds. (See page 45)</td>
</tr>
<tr>
<td><strong>If pads are producing only sounds at very high volumes (i.e., high velocities), try the following.</strong></td>
</tr>
<tr>
<td>• Adjust the sensitivity of the drum kit. (See page 23)</td>
</tr>
<tr>
<td>• Adjust the Gain parameter from Menu Mode. High settings will result in loud drum sounds. (See page 49)</td>
</tr>
<tr>
<td>• Adjust the Pad Velocity Curve parameter from Menu Mode. (See page 46)</td>
</tr>
<tr>
<td>• Ensure that you are using only the recommended Yamaha pads. (Products from other manufacturers can output excessively large signals.)</td>
</tr>
<tr>
<td><strong>If the volumes of drum sounds produced by the various pads are poorly balanced, proceed as follows.</strong></td>
</tr>
<tr>
<td>• Adjust the Pad Volume parameter from Menu Mode for each pad. (See page 42)</td>
</tr>
<tr>
<td>• Ensure that the Stereo/Mono parameter from Menu Mode is set correctly. (See page 53)</td>
</tr>
<tr>
<td><strong>If the drum module’s volume is not well balanced with that of the device connected to the [AUX IN] jack (such as a portable music player), proceed as follows.</strong></td>
</tr>
<tr>
<td>• Ensure that the volume of the connected device is set to a suitable level. (See page 19)</td>
</tr>
<tr>
<td><strong>If the volume of your drumming is not well balanced with that of a drum-module song, proceed as follows.</strong></td>
</tr>
<tr>
<td>• Adjust the song volume. (See page 25)</td>
</tr>
</tbody>
</table>
If you notice double triggering, crosstalk, or skipped sounds (as described below), proceed as follows.

- **Double triggering**—i.e., multiple sounds are produced in response to a single strike:
  - If the pad or drum trigger in question features a controller for adjusting output or sensitivity, turn it down.
  - Ensure that the Gain parameter from Menu Mode is not set too high. (See page 49)

- **Crosstalk**—i.e., a sound is produced by a pad other than the one that was struck:
  - Adjust the Crosstalk parameter from Menu Mode to a suitable level for each affected pad. (See page 47)

- **Skipped sounds**—i.e., a pad does not produce a sound (usually during rolls or fills):
  - Adjust the Crosstalk parameter from Menu Mode to a suitable level for each affected pad. (See page 47)

### Other common questions

- **How do I make the drum module store its settings?**
  - The drum module automatically stores its settings whenever you turn it off using the [_standby/on_] button. (See page 20)

- **How do I reset all of the drum module’s parameters to their default settings?**
  - You can restore default settings using the Factory Set function. (See page 20)

- **How do I reset all of the drum module’s parameters to the settings they had when I last turned it on?**
  - You can do this using the Revert to Last Power On function. (See page 55)

- **How do I reset only a desired drum kit to the default setting?**
  - Initialize the kit from Menu Mode. (See page 54)

- **How do I stop the drum module turning off while I’m using it?**
  - Disable the Auto Power-Off function. (See page 20)

- **How do I stop the drum module changing the current drum kit when I select a different song?**
  - By default, your drum module always chooses the best kit for each song. To prevent it from doing so, enable the Kit Lock function. (See page 53)

- **How do I have the drum module choose the best drum kit for each song?**
  - Disable the Kit Lock function. (See page 53)

- **What should I do if I can’t hear the voice guidance?**
  - Adjust the Voice Guidance Volume parameter from Menu Mode. (See page 53)
## Data List

### Kit List

1. **Maple Custom**
   - Kit with a Maple Custom Absolute sound.
   - **PAD No.** | **Name** |
     | SNARE 22 | MapleCustom |
     | TOM1 45 | Maple 1 H |
     | TOM2 46 | Maple 1 M |
     | TOM3 47 | Maple 1 L |
     | RIDE 82 | Warm Rd 20-1 |
     | CRASH 93 | DarkCrash 18 |
     | HI-HAT 113 | Bright 14 |
     | KICK 1 | MapleCustom |
     | PAD 89 | WarmCrash 16 |

2. **Oak Custom**
   - Kit with an Oak Custom sound.
   - **PAD No.** | **Name** |
     | SNARE 23 | OakCustom |
     | TOM1 51 | Oak H |
     | TOM2 52 | Oak M |
     | TOM3 53 | Oak L |
     | RIDE 81 | Bright Rd 20 |
     | CRASH 88 | BrightCr 18 |
     | HI-HAT 115 | Dark 13 |
     | KICK 2 | OakCustom |
     | PAD 89 | WarmCrash 16 |

3. **Hard Rock**
   - Rock kit with a double bass drum.
   - **PAD No.** | **Name** |
     | SNARE 25 | HardRock |
     | TOM1 57 | HardRock H |
     | TOM2 58 | HardRock M |
     | TOM3 59 | HardRock L |
     | RIDE 84 | Warm Ride 22 |
     | CRASH 102 | China 19 |
     | HI-HAT 116 | Dark 14 |
     | KICK 5 | HardRock |
     | PAD 94 | VividCrash 18 |

4. **Vintage**
   - A seventies sounding kit.
   - **PAD No.** | **Name** |
     | SNARE 27 | Vintage |
     | TOM1 60 | Vintage H |
     | TOM2 61 | Vintage M |
     | TOM3 62 | Vintage L |
     | RIDE 86 | Vintage Rd 22 |
     | CRASH 97 | VintageCr 16 |
     | HI-HAT 118 | Vintage 14 |
     | KICK 6 | Vintage 24 |
     | PAD 98 | VintageCr 18 |

5. **Funk**
   - Kit with a high-pitched snare.
   - **PAD No.** | **Name** |
     | SNARE 28 | Funk |
     | TOM1 54 | Birch H |
     | TOM2 55 | Birch M |
     | TOM3 56 | Birch L |
     | RIDE 83 | Warm Rd 20-2 |
     | CRASH 91 | DarkCrash 16 |
     | HI-HAT 117 | Vivid 13 |
     | KICK 4 | Birch 22 |
     | PAD 96 | ThinCrash 16 |

6. **Session**
   - Dry sounding kit with a deep snare.
   - **PAD No.** | **Name** |
     | SNARE 24 | DeepOak |
     | TOM1 48 | Maple 2 H |
     | TOM2 49 | Maple 2 M |
     | TOM3 50 | Maple 2 L |
     | RIDE 83 | Warm Rd 20-2 |
     | CRASH 92 | DarkCrash 17 |
     | HI-HAT 112 | Bright 13 |
     | KICK 3 | Oak 22 |
     | PAD 90 | WarmCrash 18 |

7. **Jazz**
   - Ideal kit for jazz drumming.
   - **PAD No.** | **Name** |
     | SNARE 28 | Jazz |
     | TOM1 63 | Jazz H |
     | TOM2 64 | Jazz M |
     | TOM3 65 | Jazz L |
     | RIDE 82 | Warm Rd 20-1 |
     | CRASH 85 | Mellow Rd 18 |
     | HI-HAT 114 | Bright 15 |
     | KICK 8 | Jazz |
     | PAD 87 | Sizzle Ride |

8. **R&B**
   - Electronic sounding kit.
   - **PAD No.** | **Name** |
     | SNARE 39 | HipHop 1 |
     | TOM1 69 | T8-1 H |
     | TOM2 70 | T8-1 M |
     | TOM3 11 | T8-3 |
     | RIDE 109 | R&B Ride |
     | CRASH 100 | Splash 12 |
     | HI-HAT 126 | R&B |
     | KICK 18 | HipHop 1 |
     | PAD 99 | Splash 10 |

9. **Marching**
   - Ideal kit for marching music.
   - **PAD No.** | **Name** |
     | SNARE 29 | FieldSnare |
     | TOM1 67 | Marching M |
     | TOM2 66 | Marching H |
     | TOM3 68 | Marching L |
     | RIDE 105 | Hand Mute |
     | CRASH 104 | Hand Open |
     | HI-HAT 119 | Percussion 1 |
     | KICK 160 | GranCasaOpen |
     | PAD 95 | HeavyCrash 18 |

### Song List

<table>
<thead>
<tr>
<th>No.</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8beat Basic</td>
<td>Suitable for practicing standard eight-beat songs.</td>
</tr>
<tr>
<td>2</td>
<td>Hard Rock</td>
<td>Slightly up-tempo hard rock from the 70s.</td>
</tr>
<tr>
<td>3</td>
<td>Electro Pop</td>
<td>Electronic pop with a kick on every beat.</td>
</tr>
<tr>
<td>4</td>
<td>Rock Shuffle</td>
<td>Rock tune with a swung rhythm.</td>
</tr>
<tr>
<td>5</td>
<td>Heavy Metal</td>
<td>A metal-type song using a double-bass drum.</td>
</tr>
<tr>
<td>6</td>
<td>16beat Rock</td>
<td>A rock song perfect for practicing 16-beat rhythms.</td>
</tr>
<tr>
<td>7</td>
<td>Funk Rock</td>
<td>Funky sounding rock song with a mid-tempo beat.</td>
</tr>
<tr>
<td>8</td>
<td>8beat Funk</td>
<td>Funk tune based on an eight-beat rhythm.</td>
</tr>
<tr>
<td>9</td>
<td>Slow Blues</td>
<td>Bluesy song with a laid back tempo.</td>
</tr>
<tr>
<td>10</td>
<td>4beat Jazz</td>
<td>Mid-tempo jazz tune with a four-beat rhythm.</td>
</tr>
</tbody>
</table>
### Voice List

<table>
<thead>
<tr>
<th>Kick</th>
<th>Tom</th>
<th>Cymbal</th>
<th>Percussion</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 MapleCustom</td>
<td>45 Maple 1 H</td>
<td>81 Bright Rd 20</td>
<td>128 Conga H</td>
</tr>
<tr>
<td>2 OakCustom</td>
<td>46 Maple 1 M</td>
<td>82 Warm Rd 20-1</td>
<td>129 Conga L</td>
</tr>
<tr>
<td>3 Oak 22</td>
<td>47 Maple 1 L</td>
<td>83 Warm Rd 20-2</td>
<td>130 Bongo H</td>
</tr>
<tr>
<td>4 Birch 22</td>
<td>48 Maple 2 H</td>
<td>84 Warm Ride 22</td>
<td>131 Bongo L</td>
</tr>
<tr>
<td>5 HardRock</td>
<td>49 Maple 2 M</td>
<td>85 Mellow Rd 18</td>
<td>132 Timbales H</td>
</tr>
<tr>
<td>6 Vintage 24</td>
<td>50 Maple 2 L</td>
<td>86 Vintage Rd 22</td>
<td>133 Timbales L</td>
</tr>
<tr>
<td>7 Vintage 18</td>
<td>51 Oak H</td>
<td>87 Sizzle Ride</td>
<td>134 PandeiroShake</td>
</tr>
<tr>
<td>8 Jazz</td>
<td>52 Oak M</td>
<td>88 BrightCr 18</td>
<td>135 Pandeiro Tap</td>
</tr>
<tr>
<td>9 T8-1</td>
<td>53 Oak L</td>
<td>89 WarmCrash 16</td>
<td>136 PandeiroSlide</td>
</tr>
<tr>
<td>10 T8-2</td>
<td>54 Birch H</td>
<td>90 WarmCrash 18</td>
<td>137 Tambourine 1</td>
</tr>
<tr>
<td>11 T8-3</td>
<td>55 Birch M</td>
<td>91 DarkCrash 16</td>
<td>138 Tambourine 2</td>
</tr>
<tr>
<td>12 T9-1</td>
<td>56 Birch L</td>
<td>92 DarkCrash 17</td>
<td>139 Cowbell 1 SW</td>
</tr>
<tr>
<td>13 T9-2</td>
<td>57 HardRock H</td>
<td>93 DarkCrash 18</td>
<td>140 Cowbell 2</td>
</tr>
<tr>
<td>14 T9 Hard</td>
<td>58 HardRock M</td>
<td>94 VividCrash 18</td>
<td>141 Cowbell 3</td>
</tr>
<tr>
<td>15 Electric</td>
<td>59 HardRock L</td>
<td>95 HeavyCrash 18</td>
<td>142 Claves</td>
</tr>
<tr>
<td>16 ElectricComp</td>
<td>60 Vintage H</td>
<td>96 ThinCrash 16</td>
<td>143 Maracas</td>
</tr>
<tr>
<td>17 ElectricClick</td>
<td>61 Vintage M</td>
<td>97 VintageCr 18</td>
<td>144 Triangle Open</td>
</tr>
<tr>
<td>18 HipHop 1</td>
<td>62 Vintage L</td>
<td>98 VintageCr 18</td>
<td>145 Triangle Mute</td>
</tr>
<tr>
<td>19 HipHop 2</td>
<td>63 Jazz H</td>
<td>99 Splash 10</td>
<td>146 WoodBlock H</td>
</tr>
<tr>
<td>20 Break</td>
<td>64 Jazz M</td>
<td>100 Splash 12</td>
<td>147 WoodBlock L</td>
</tr>
<tr>
<td>21 DnB</td>
<td>65 Jazz L</td>
<td>101 China 17</td>
<td>148 Shaker 1</td>
</tr>
<tr>
<td></td>
<td>66 Marching H</td>
<td>102 China 19</td>
<td>149 Shaker 2</td>
</tr>
<tr>
<td></td>
<td>67 Marching M</td>
<td>103 Trash</td>
<td>150 Djembe</td>
</tr>
<tr>
<td></td>
<td>68 Marching L</td>
<td>104 Hand Open</td>
<td>151 Cajon</td>
</tr>
<tr>
<td></td>
<td>69 T8-1 H</td>
<td>105 Hand Mute</td>
<td>152 Tabla Na 1</td>
</tr>
<tr>
<td></td>
<td>70 T8-1 M</td>
<td>106 Hand SW</td>
<td>153 Tabla Na 2</td>
</tr>
<tr>
<td></td>
<td>71 T8-1 L</td>
<td>107 T8 Ride</td>
<td>154 Bayan Ge</td>
</tr>
<tr>
<td></td>
<td>72 T8-2 H</td>
<td>108 T9 Ride</td>
<td>155 Taiko Don</td>
</tr>
<tr>
<td></td>
<td>73 T8-2 M</td>
<td>109 R&amp;B Ride</td>
<td>156 Taiko Ka</td>
</tr>
<tr>
<td></td>
<td>74 T8-2 L</td>
<td>110 T8 Crash</td>
<td>157 WindChime</td>
</tr>
<tr>
<td></td>
<td>75 T9-1 H</td>
<td>111 SynthCrash</td>
<td>158 Whistle S</td>
</tr>
<tr>
<td></td>
<td>76 T9-1 M</td>
<td></td>
<td>159 Whistle L</td>
</tr>
<tr>
<td></td>
<td>77 T9-1 L</td>
<td></td>
<td>160 GranCasaOpen</td>
</tr>
<tr>
<td></td>
<td>78 SynthTom H</td>
<td></td>
<td>161 Metronome 1</td>
</tr>
<tr>
<td></td>
<td>79 SynthTom M</td>
<td></td>
<td>162 Metronome 2</td>
</tr>
<tr>
<td></td>
<td>80 SynthTom L</td>
<td></td>
<td>163 Clap</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>164 T9 Clap</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>165 Analog Clap 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>166 Analog Clap 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>167 HipHop Clap</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>168 AnalogCowbell</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>169 AnalogClaves</td>
</tr>
</tbody>
</table>

### Snare

<table>
<thead>
<tr>
<th>22 MapleCustom</th>
<th>23 OakCustom</th>
<th>24 DeepOak</th>
<th>25 HardRock</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 Funk</td>
<td>27 Vintage</td>
<td>28 Jazz</td>
<td>29 FieldSnare</td>
</tr>
<tr>
<td>30 T8-1</td>
<td>31 T8-1 Clap</td>
<td>32 T8-2</td>
<td>33 T8-2 Clap</td>
</tr>
<tr>
<td>34 T9-1</td>
<td>35 T9-1 Clap</td>
<td>36 T9-2</td>
<td>37 T9-2 Clap</td>
</tr>
<tr>
<td>38 Analog</td>
<td>39 HipHop 1</td>
<td>40 HipHop 2</td>
<td>41 HipHop 3</td>
</tr>
<tr>
<td>42 R&amp;B</td>
<td>43 Break</td>
<td>44 DnB</td>
<td></td>
</tr>
</tbody>
</table>

### Tom

- 45 Maple 1 H
- 46 Maple 1 M
- 47 Maple 1 L
- 48 Maple 2 H
- 49 Maple 2 M
- 50 Maple 2 L
- 51 Oak H
- 52 Oak M
- 53 Oak L
- 54 Birch H
- 55 Birch M
- 56 Birch L
- 57 HardRock H
- 58 HardRock M
- 59 HardRock L
- 60 Vintage H
- 61 Vintage M
- 62 Vintage L
- 63 Jazz H
- 64 Jazz M
- 65 Jazz L
- 66 Marching H
- 67 Marching M
- 68 Marching L
- 69 T8-1 H
- 70 T8-1 M
- 71 T8-1 L
- 72 T8-2 H
- 73 T8-2 M
- 74 T8-2 L
- 75 T9-1 H
- 76 T9-1 M
- 77 T9-1 L
- 78 SynthTom H
- 79 SynthTom M
- 80 SynthTom L

### Kick

<table>
<thead>
<tr>
<th>1 MapleCustom</th>
<th>2 OakCustom</th>
<th>3 Oak 22</th>
<th>4 Birch 22</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 HardRock</td>
<td>6 Vintage 24</td>
<td>7 Vintage 18</td>
<td>8 Jazz</td>
</tr>
<tr>
<td>9 T8-1</td>
<td>10 T8-2</td>
<td>11 T8-3</td>
<td>12 T9-1</td>
</tr>
<tr>
<td>13 T9-2</td>
<td>14 T9 Hard</td>
<td>15 Electric</td>
<td>16 ElectricComp</td>
</tr>
<tr>
<td>17 ElectricClick</td>
<td>18 HipHop 1</td>
<td>19 HipHop 2</td>
<td>20 Break</td>
</tr>
<tr>
<td>21 DnB</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Cymbal

- 81 Bright Rd 20
- 82 Warm Rd 20-1
- 83 Warm Rd 20-2
- 84 Warm Ride 22
- 85 Mellow Rd 18
- 86 Vintage Rd 22
- 87 Sizzle Ride
- 88 BrightCr 18
- 89 WarmCrash 16
- 90 WarmCrash 18
- 91 DarkCrash 16
- 92 DarkCrash 17
- 93 DarkCrash 18
- 94 VividCrash 18
- 95 HeavyCrash 18
- 96 ThinCrash 16
- 97 VintageCr 18
- 98 VintageCr 18
- 99 Splash 10
- 100 Splash 12
- 101 China 17
- 102 China 19
- 103 Trash
- 104 Hand Open
- 105 Hand Mute
- 106 Hand SW
- 107 T8 Ride
- 108 T9 Ride
- 109 R&B Ride
- 110 T8 Crash
- 111 SynthCrash

### Hi-Hat

- 112 Bright 13
- 113 Bright 14
- 114 Bright 15
- 115 Dark 13
- 116 Dark 14
- 117 Vivid 13
- 118 Vintage 14
- 119 Percussion 1
- 120 Percussion 2
- 121 T8-1
- 122 T8-2
- 123 T9-1
- 124 T9-2
- 125 Analog
- 126 R&B
- 127 DnB

### Percussion

- 128 Conga H
- 129 Conga L
- 130 Bongo H
- 131 Bongo L
- 132 Timbales H
- 133 Timbales L
- 134 PandeiroShake
- 135 PandeiroTap
- 136 Tambourine 1
- 137 Tambourine 2
- 138 Cowbell 1 SW
- 140 Cowbell 2
- 141 Cowbell 3
- 142 Claves
- 143 Maracas
- 144 Triangle Open
- 145 Triangle Mute
- 146 WoodBlock H
- 147 WoodBlock L
- 148 Shaker 1
- 149 Shaker 2
- 150 Djembe
- 151 Cajon
- 152 Tabla Na 1
- 153 Tabla Na 2
- 154 Bayan Ge
- 155 Taiko Don
- 156 Taiko Ka
- 157 WindChime
- 158 Whistle S
- 159 Whistle L
- 160 GranCasaOpen
- 161 Metronome 1
- 162 Metronome 2
- 163 Clap
- 164 T9 Clap
- 165 Analog Clap 1
- 166 Analog Clap 2
- 167 HipHop Clap
- 168 AnalogCowbell
- 169 AnalogClaves
**Drum Score**

There are many different types of drum score commercially available, but we’ve chosen the following common format for the examples below.

- **Hi-Hat Cymbal (H.H.)**
- **Ride Cymbal (RIDE)**
- **Hi-Hat (H.H.) Open**
- **Hi-Hat (H.H.) Close**
- **Crash Cymbal**
- **Snare Drum**
- **Snare Drum (Brush Slap)**
- **High Tom**
- **Mid Tom**
- **Low Tom**
- **Hi-Hat Cymbal (PEDAL)**
- **Bass Drum**

**Scores for Groove Tracker and Pad Gate Training**

1. **8beat Basic**
   - Control Pads: Cymbal + hi-hat 1
   - Advance Step: ♩

2. **Hard Rock**
   - Control Pads: Cymbal + hi-hat 1
   - Advance Step: ♩

3. **Electro Pop**
   - Control Pad: Kick
   - Advance Step: ♩

4. **Rock Shuffle**
   - Control Pads: Cymbal + hi-hat 1
   - Advance Step: ♩
5 Heavy Metal

Control Pad: Kick
Advance Step: ♪

6 16beat Rock

Control Pads: Snare + hi-hat
Advance Step: ♪

7 Funk Rock

Control Pad: Kick
Advance Step: ♪

8 8beat Funk

Control Pads: Cymbal + hi-hat 1
Advance Step: ♪

9 Slow Blues

Control Pads: Cymbal + hi-hat 1
Advance Step: ♪

10 4beat Jazz

Control Pad: Kick
Advance Step: ♪
## Specifications

### Drum module

<table>
<thead>
<tr>
<th>Type</th>
<th>AWM2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum polyphony</td>
<td>32 notes</td>
</tr>
<tr>
<td>Voices</td>
<td>Drum and percussion: 169</td>
</tr>
<tr>
<td></td>
<td>Keyboard: 128</td>
</tr>
<tr>
<td>Drum kits</td>
<td>10 (all of which may be edited and overwritten)</td>
</tr>
<tr>
<td>Songs</td>
<td>10</td>
</tr>
<tr>
<td>Reverb</td>
<td>9 types</td>
</tr>
</tbody>
</table>

### Tone generator

- **Type**: AWM2
- **Maximum polyphony**: 32 notes
- **Voices**: Drum and percussion: 169, Keyboard: 128
- **Drum kits**: 10 (all of which may be edited and overwritten)
- **Songs**: 10
- **Reverb**: 9 types

### Click-track

- **Tempo**: 30 to 300 BPM (Tap Tempo and Voice Guidance functions)
- **Beats**: 1/4 to 9/4

### Other

- **Jacks and terminals**:
  - SNARE (mini stereo audio)
  - TOM1 (mini mono audio)
  - TOM2 (mini mono audio)
  - TOM3 (mini mono audio)
  - RIDE (mini mono audio)
  - CRASH (mini mono audio)
  - HI-HAT (mini mono audio)
  - HI-HAT CTL (mini stereo audio)
  - KICK/PAD (mini stereo audio)
  - [USB TO HOST] ports
  - [AUX IN] jack (mini stereo audio)
  - PHONES/OUTPUT (standard stereo audio)
  - DC IN

- **Power consumption**: 5 W
- **Power adaptor**: PA-130 or equivalent
- **Dimensions and weight**: 240 x 188 x 68 mm, 0.5kg

* Specifications and descriptions in this owner’s manual are for information purposes only. Yamaha Corporation reserves the right to modify products or specifications at any time without prior notice. Since specifications, equipment, and options may not be the same in every locale, please check with your Yamaha dealer.
Symbols

[sv => ↔] connector ........... 22
[ metronome button ........... 21
[ ] button .................. 21
[ Standby/On button ........ 21
[AUX IN] jack ............... 22
[DRUM MUTE] button ....... 22
[HI-HAT CTL] jack .......... 22
[KICK/PAD] jack .......... 22
[KIT] button ............... 21
[PHONES/OUTPUT] jack ....... 22
[TEMPO] button .......... 21
[TRAINING] button ......... 21
[USB TO HOST] terminal .... 22, 57
[TIMBRE] button .......... 21
[KIT] button ............... 21
[HI-HAT CTL] jack ......... 22
[DRUM MUTE] button ....... 21
[USB TO HOST] terminal .... 22, 57

Index

Symbols

[sv => ↔] connector ........... 22
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[KICK/PAD] jack .......... 22
[KIT] button ............... 21
[PHONES/OUTPUT] jack ....... 22
[TEMPO] button .......... 21
[TRAINING] button ......... 21
[USB TO HOST] terminal .... 22, 57

A

Assembly ....................... 11
Auto Power-Off ............ 20
Auto Power-Off Time ...... 53

B

Base support ................. 8, 9, 10
Beats .................... 41

Cable band ................. 8, 9, 10
Change Up ............... 34
Close .................. 24
Closed rim shots ........ 24
Clutch Position ......... 45
Computer ......... 57
Control Panel ............. 21
Cord clip ................. 19, 22
Cross sticking ............ 24
Crosstalk .................. 47
Cymbal holder ............ 8, 9, 10
Cymbal pad ............. 8, 9, 10
Cymbal/h-hat pad ....... 8, 9, 10

Data List ..................... 60
Difficulty Level .......... 31, 50
Double Bass Drum ....... 43
Drum module ........ 8, 9, 10
Drum Score ........... 62

E

Easy Session ................. 35
External source .......... 22

Factory Set ............... 20, 55
Fast Blast ............... 39
Fast Blast Timer .......... 52
First tom pad ............ 8, 9, 10
First/second tom part .... 8, 9, 10
Foot Close Position .... 45
Foot Close Velocity .... 45
Foot closed ............ 24

FP6110A ................. 9, 10

G

Gain .................. 49
Groove Check ........... 30

Groove Tracker .......... 36
Groove Tracker Advance Step ..... 51
Groove Tracker Control Pad(s) ..... 51
Groove Tracker Return Time ...... 50

H

Have fun with drum patterns .... 29
Head shots .................. 24
Headphone ................. 19
Hexagonal rod ........... 10
HH65 ......................... 9, 10, 24, 56
Hi-hat Controller ........ 8, 9, 10
Hi-hat Cymbal ............. 24
Hi-hat holder .............. 8, 9, 10
Hi-hat pad ................. 8, 9, 10
Hi-hat settings .......... 45
Hi-hat splash .............. 24

I

Ignore Timing .............. 50
Initialize Kit ............. 54
Initialize Song ............ 54

K

Kick Unit ................. 8, 56
Kick Velocity ............. 46
Kit ................... 23
Kit List ................. 60
Kit Lock .................. 53
Kit Settings ............... 42
KP65 ......................... 9, 10, 56
KU100 ....................... 8, 56

L

Learn new drum patterns .. 29
Left arm ................. 8, 9, 10
Left side ................. 22
Local Control ............ 44
Looping Part ............ 26

M

Measure Break ............ 32
Menu Mode ............... 40
Metronome ............... 27
Metronome Settings ...... 41
MIDI Reference Manual .... 6, 57
MIDI Settings ........... 44
Minimum Level ........... 49
Music Player ............. 19
Mute ................... 26

N

Nine-channel snake cable .... 8, 9, 10
Note Number ............ 44
Number Button Lighting Pattern ...... 42
Number buttons .......... 21

O

Open .................. 24
Open rim shots ........ 24
Other Settings .......... 53

P

Package Contents ........ 8, 9, 10
Pad Gate ................. 37
Pad Gate Group ........ 52
Pad Panning ............. 43

Pad Sound ............... 42
Pad Velocity Curve ....... 46
Pad Volume ............... 42
Part Mute ............... 38
Pattern ................... 41
PCY90AT .................. 59
Pedal Types .............. 48
Play as wildly as you can .. 29
Power adaptor ........ 8, 9, 10, 19
Practice song ............ 25

R

Reverb ............... 43
Revert to Last Power On ...... 55
Rhythm Gate ............... 32
Right side ................. 22
Rim 1 ................. 24
Rim 2 ................. 24

S

S wing bolt ............. 10
Score ................... 62
Scoring function ........ 29
Second tom pad .......... 8, 9, 10
Sensitivity ............... 23
Separately Sold Accessories .... 56
Snare pad ................. 8, 9, 10, 24
Snare Pad Type .......... 48
Song ................... 25
Song List ................. 60
Song parts ............... 25
Sound ................... 41
Speaker ................... 19
Splash Sensitivity ........ 45
Stereo/Mono ............... 53
Store ................... 20

T

Tapping the tempo .......... 28
Tempo ............... 27
Tempo Up/Down ........ 33
Third tom part ........ 8, 9, 10
Timer ................... 49
TP70S ...................... 10, 24
Training Mode ........... 29
Training Settings ..... 49
Trigger input jacks ...... 22
Trigger Settings ........ 46
Tuning key ............... 8, 9, 10

U

USB-MIDI driver ........... 57

Vertical support ........ 8, 9, 10
Voice Guidance .......... 27, 29
Voice Guidance Volume .... 53
Voice List ............... 61
Volume ................... 19

W

Wing bolt ............. 8
Work on your rhythm ....... 29
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This symbol on the products, packaging, and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling of old products, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC.

By disposing of these products correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

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[Information on Disposal in other Countries outside the European Union]
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Apparaten kopplas inte ur växelströmskällan (nätet) så länge som den ar ansluten till vägguttaget, även om själva apparaten har stängts av.

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The model number, serial number, power requirements, etc., may be found on or near the name plate, which is at the bottom of the unit. You should note this serial number in the space provided below and retain this manual as a permanent record of your purchase to aid identification in the event of theft.

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Serial No.
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