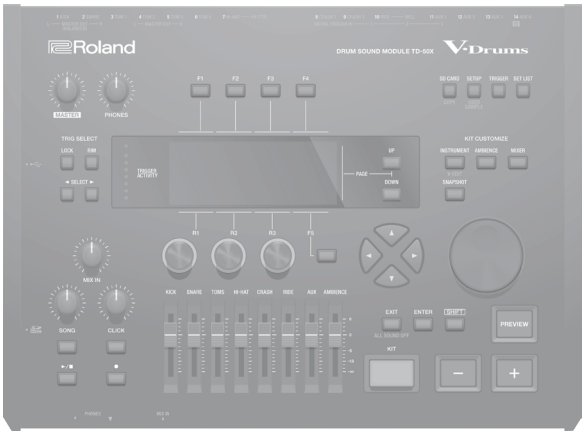

Roland

V-Drums

TD-50X

DRUM SOUND MODULE

Quick Start

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Quick Start (this document)

Read this first. It explains basic operation.

PDF Manual (download from the web)

- **Reference Manual**
  This explains all the functions of the TD-50X.
- **Data List**
  This explains the parameters and sound of the TD-50X.
- **MIDI Implementation**
  This is detailed information about MIDI messages.

To obtain the PDF manual

1. Enter the following URL in your computer.

http://www.roland.com/support/

▼

2. Choose "TD-50X" as the product name.

Before using this unit, carefully read "IMPORTANT SAFETY INSTRUCTIONS" (inside front cover), "USING THE UNIT SAFELY" (p. 2), and "IMPORTANT NOTES" (p. 4). After reading, keep the document(s) where it will be available for immediate reference.

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USING THE UNIT SAFELY

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

About ⚠WARNING and ⚠CAUTION Notices

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

About the Symbols

⚠	The △symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⃠symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ●symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

Make sure that the power cord is grounded

Connect mains plug of this model to a mains socket outlet with a protective earthing connection.

To completely turn off power to the unit, pull out the plug from the outlet

Even with the power switch turned off, this unit is not completely separated from its main source of power. When the power needs to be completely turned off, turn off the power switch on the unit, then pull out the plug from the outlet. For this reason, the outlet into which you choose to connect the power cord's plug should be one that is within easy reach and readily accessible.

Concerning the Auto Off function

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 10).

Do not disassemble or modify by yourself

Do not carry out anything unless you are instructed to do so in the owner's manual. Otherwise, you risk causing malfunction.

Do not repair or replace parts by yourself

Be sure to contact your dealer, a Roland service center, or an official Roland dealer.

For a list of Roland service centers and official Roland dealers, refer to the Roland website.

⚠ WARNING

Do not use or store in the following types of locations

- Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
- Damp (e.g., baths, washrooms, on wet floors); or are
- Exposed to steam or smoke; or are
- Subject to salt exposure; or are
- Exposed to rain; or are
- Dusty or sandy; or are
- Subject to high levels of vibration and shakiness; or are
- Placed in a poorly ventilated location.

Do not place in an unstable location

Otherwise, you risk injury as the result of the unit toppling over or dropping down.

Connect the power cord to an outlet of the correct voltage

The unit should be connected to a power supply only of the type described as marked on the bottom of unit.

Use only the supplied power cord

Use only the attached power cord. Also, the supplied power cord must not be used with any other device.

Do not bend the power cord or place heavy objects on it

Otherwise, fire or electric shock may result.

⚠ WARNING

Avoid extended use at high volume

Use of the unit at high volume for extended periods of time may cause hearing loss. If you ever experience any hearing loss or ringing in the ears, you should immediately stop using the unit and consult a specialized physician.

Do not allow foreign objects or liquids to enter unit; never place containers with liquid on unit

Do not place containers containing liquid (e.g., flower vases) on this product. Never allow foreign objects (e.g., flammable objects, coins, wires) or liquids (e.g., water or juice) to enter this product. Doing so may cause short circuits, faulty operation, or other malfunctions.

Turn off the unit if an abnormality or malfunction occurs

In the following cases, immediately turn off the power, remove the power cord from the outlet, and contact your dealer, a Roland service center, or an official Roland dealer for service.

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

For a list of Roland service centers and official Roland dealers, refer to the Roland website.

Be cautious to protect children from injury

Always make sure that an adult is on hand to provide supervision and guidance when using the unit in places where children are present, or when a child will be using the unit.

⚠ WARNING

Do not drop or subject to strong impact

Otherwise, you risk causing damage or malfunction.

Do not share an outlet with an unreasonable number of other devices

Otherwise, you risk overheating or fire.

Do not use overseas

Before using the unit in overseas, consult with your retailer, the nearest Roland service center, or an authorized Roland distributor.

For a list of Roland service centers and official Roland dealers, refer to the Roland website.

Don't place burning objects on the unit

Don't place any burning object (such as a candle) on the unit.

Be aware of weather conditions

Use the apparatus in moderate climates.

⚠ CAUTION

When disconnecting the power cord, grasp it by the plug

To prevent conductor damage, always grasp the power cord by its plug when disconnecting it.

⚠ CAUTION

Periodically clean the power plug

An accumulation of dust or foreign objects between the power plug and the power outlet can lead to fire or electric shock.

At regular intervals, be sure to pull out the power plug, and using a dry cloth, wipe away any dust or foreign objects that may have accumulated.

Disconnect the power plug whenever the unit will not be used for an extended period of time

Fire may result in the unlikely event that a breakdown occurs.

Route all power cords and cables in such a way as to prevent them from getting entangled

Injury could result if someone were to trip on a cable and cause the unit to fall or topple.

Avoid climbing on top of the unit, or placing heavy objects on it

Otherwise, you risk injury as the result of the unit toppling over or dropping down.

Never connect/disconnect a power plug if your hands are wet

Otherwise, you could receive an electric shock.

Disconnect all cords/cables before moving the unit

Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices.

⚠ CAUTION

Before cleaning the unit, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk receiving an electric shock.

Whenever there is a threat of lightning, disconnect the power plug from the outlet

If the power plug is not removed from the outlet, you risk causing malfunction or receiving an electric shock.

Keep small items out of the reach of children

To prevent accidental ingestion of the parts listed below, always keep them out of the reach of small children.

- Removable Parts
  Screws (p. 8)

IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This unit may interfere with radio and television reception. Do not use this unit in the vicinity of such receivers.
- Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- When moved from one location to another where the temperature and/or humidity is very different, water droplets (condensation) may form inside the unit. Damage or malfunction may result if you attempt to use the unit in this condition. Therefore, before using the unit, you must allow it to stand for several hours, until the condensation has completely evaporated.
- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.
- Do not place containers or anything else containing liquid on top of this unit. Also, whenever any liquid has been spilled on the surface of this unit, be sure to promptly wipe it away using a soft, dry cloth.

Maintenance

- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Repairs and Data

- Before sending the unit away for repairs, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information. Although we will do our utmost to preserve the data stored in your unit when we carry out repairs, in some cases, such as when the memory section is physically damaged, restoration of the stored content may be impossible. Roland assumes no liability concerning the restoration of any stored content that has been lost.

Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.
- This instrument is designed to minimize the extraneous sounds produced when it's played. However, since sound vibrations can be transmitted through floors and walls to a greater degree than expected, take care not to allow these sounds to become a nuisance others nearby.
- When disposing of the packing carton or cushioning material in which this unit was packed, you must observe the waste disposal regulations that apply to your locality.
- Do not use connection cables that contain a built-in resistor.
- The nameplate is displayed on the bottom of unit.

Using External Memories

- Please observe the following precautions when handling external memory devices. Also, make sure to carefully observe all the precautions that were supplied with the external memory device.
  - Do not remove the device while reading/writing is in progress.
  - To prevent damage from static electricity, discharge all static electricity from your person before handling the device.

Intellectual Property Right

- It is forbidden by law to make an audio recording, video recording, copy or revision of a third party's copyrighted work (musical work, video work, broadcast, live performance, or other work), whether in whole or in part, and distribute, sell, lease, perform, or broadcast it without the permission of the copyright owner.
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- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.
- Purchasers of this product are permitted to utilize said content (except song data such as Demo Songs) for the creating, performing, recording and distributing original musical works.
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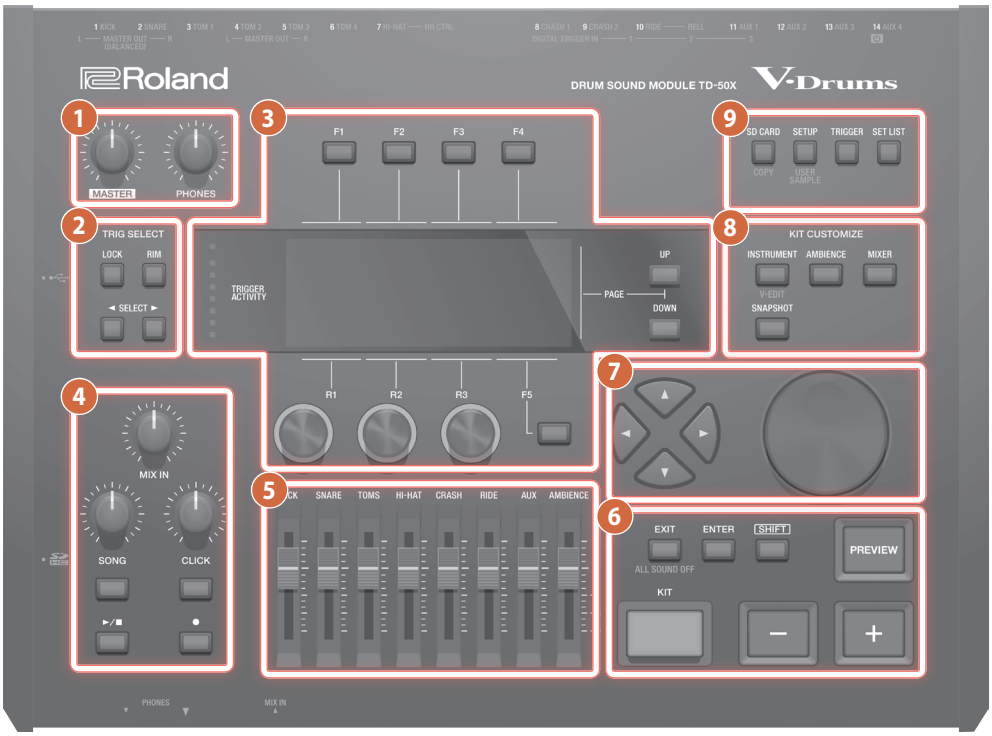
Panel Descriptions

Top Panel



1

[MASTER] knob

Adjusts the volume of the MASTER OUT jacks.

[PHONES] knob

Adjusts the volume of the headphones connected to the PHONES jack.

2 **TRIG SELECT**

[LOCK] button

If you press the [LOCK] button so its indicator is lit, the pad for which settings are being made will remain selected even if you strike a pad.

[RIM] button

When using a pad that provides rim support, this button specifies whether you're making settings for the head or the rim. In the case of a pad that supports three-way triggering, this button switches between the head, rim, and bell.

SELECT [◄] [►] buttons

Select the pad (trigger input number) for which to make settings.

3

[F1]–[F5] buttons (function buttons)

These buttons change their function depending on the indication in the display. Use them to switch the tabs that are shown in the upper part of the display, or to specify the function that is shown in the upper or lower part of the display.

[R1]–[R3] knobs (rotary knobs)

The functions of these knobs changes depending on the indication in the display. They adjust the values that are shown in the lower part of the display.

PAGE [UP] [DOWN] buttons

By pressing the PAGE [UP] [DOWN] buttons when they are lit, you can switch pages in the screen.

TRIGGER ACTIVITY indicator

This lights when a trigger signal is received from a pad (a signal indicating that the pad is struck). This lets you check whether the pad is connected correctly.

Display

Shows various information for the operation.

4

[MIX IN] knob

Adjusts the volume that is input to the front panel and rear panel MIX IN jacks.

[SONG] knob

Adjusts the volume of the song (audio file) (This does not affect the sound of an internal song's drum performance, nor the sound of a recorded drum performance).

[SONG] button

Accesses the SONG screen. Press this when you want to play back a song or recorded data, or when you want to make song-related settings.

[CLICK] knob

Adjusts the volume of the click.

[CLICK] button

Allows you to sound the click, or to make settings for the tempo or click. You'll also press this for rhythm training.

[►/■] button

Plays/stops the song or the recorded data.

[●] button

Press this when you want to record your performance.

5 Faders

Adjust the volume of the kick, snare, hi-hat, other percussion instruments, and ambience.

6

[KIT] button

The DRUM KIT screen appears.

[-] [+] Buttons

Use these buttons to switch drum kits or to edit values.

[EXIT] button

Press this once to return to the next higher screen level. If you press it repeatedly, you'll eventually return to the DRUM KIT screen.

By holding down the [SHIFT] button and pressing the [EXIT] button, you can stop (mute) all currently-playing sound (ALL SOUND OFF). This is a convenient way to stop numerous loop phrases in a single operation.

[ENTER] button

Press this to confirm a value or execute an operation.

[SHIFT] button

This button is used in conjunction with other buttons. The function of other buttons changes while this button is held down.

[PREVIEW] button

This button auditions an instrument. The volume changes depending on how strongly you strike the button.

You can use the SELECT [◄] [►] buttons to select a trigger input number, and use this button to audition the sound even if no pads are not connected to the TD-50X.

7

[▲] [▼] [◄] [►] buttons (cursor buttons)

Move the cursor.

Dial

This dial functions like the [+] and [–] buttons. Use it to scroll quickly or make large changes in edited values.

8 KIT CUSTOMIZE

[INSTRUMENT] button

Allows you to specify an instrument (sound). By holding down the [SHIFT] button and pressing the [INSTRUMENT] button, you can move directly to the instrument edit (V-EDIT) page.

[AMBIENCE] button

Sets the sound of the overhead microphone that captures sound from the entire kit, as well as the reverberation and sound of the place where the drums are played.

[MIXER] button

Allows you to specify the volume, pan, multi-effect, equalizer, and compressor settings for each pad.

[SNAPSHOT] button

Temporarily saves the currently-edited drum kit, allowing you to compare it with the current settings or return to previous settings (snapshot function).

9

[SD CARD] button

Allows you to perform SD card operations such as saving or loading data.

By holding down the [SHIFT] button and pressing the [SD CARD] button, you can copy the settings of a drum kit or instrument.

[SETUP] button

Allows you to make settings for functions that apply to the entire TD-50X, such as output-destination settings (output assign) and MIDI settings.

By holding down the [SHIFT] button and pressing the [SETUP] button, you can use the user sample function (p. 25) which allows you to import user samples.

[TRIGGER] button

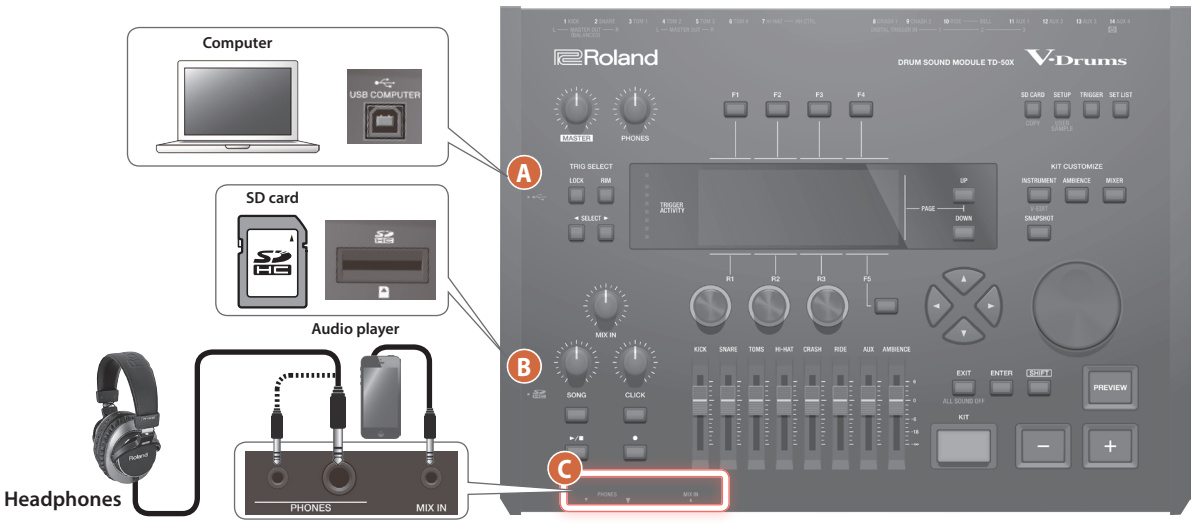
Allows you to make trigger parameter settings.

[SET LIST] button

Allows you to create a set list, or to switch drum kits in the order specified by a set list. When the set list function is on, the [SET LIST] button is lit.

Side Panel/Front Panel

* To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.



A USB COMPUTER port

Use a USB cable to connect the TD-50X to your computer (p. 21). This allows you to use DAW software to record the TD-50X's performance as audio or as MIDI.

B SD card slot

Insert a commercially available SD card (SDHC cards (up to 32 GB) are supported).

You can store songs or TD-50X data on the SD card.

You can also use a card to load user samples or to export a recorded song.

Before using an SD card for the first time, you must format it on the TD-50X (p. 29).

* Never turn off the power or remove the SD card while the screen indicates **"Processing..."**
* Some memory card types or memory cards from some manufacturers may not record or play back properly on the unit.

PHONES jack

You can connect a set of headphones here.

Even if headphones are connected, sound is output from the various output jacks.

MIX IN jack

Connect your audio player (smartphone) or other audio playback device here.

Settings for pads that support digital connection

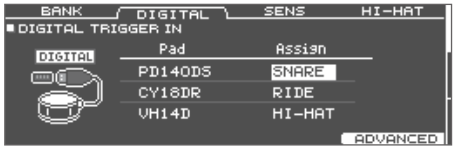
The first time that a pad that supports digital connection is connected to a DIGITAL TRIGGER IN port, the following screen appears.

Following the instructions in the screen, make settings to specify the trigger input to which the connected pad should be assigned.

* If you specify the same trigger input as a pad that is connected to a TRIGGER IN jack, the pad that's connected to that TRIGGER IN jack won't produce sound.

➡ For details on pad settings, refer to "Reference Manual" (PDF).

1. Select "OK" and then press the [ENTER] button.



2. Use the cursor buttons to select the pad that you want to specify, and use the [–] [+] buttons or the dial to specify the assignment.

When you select a pad, the FUNC button of the selected pad blinks.

(Setting example)

Pad	Assign
PD140DS	SNARE
CY18DR	RIDE
VH14D	HI-HAT

* You can't specify multiple instances of the same assignment.

3. Press the [KIT] button to return to the DRUM KIT screen.

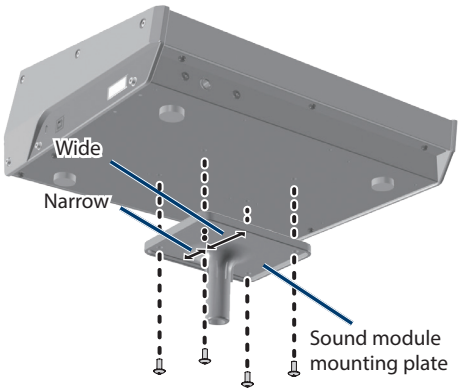
Bottom Panel

Mounting the TD-50X on the stand

You can attach the TD-50X to a drum stand by using the sound module mounting plate included with the drum stand (sold separately: MDS series, PDS series).

Using the screws on the bottom of the TD-50X, attach it as shown in the illustration.

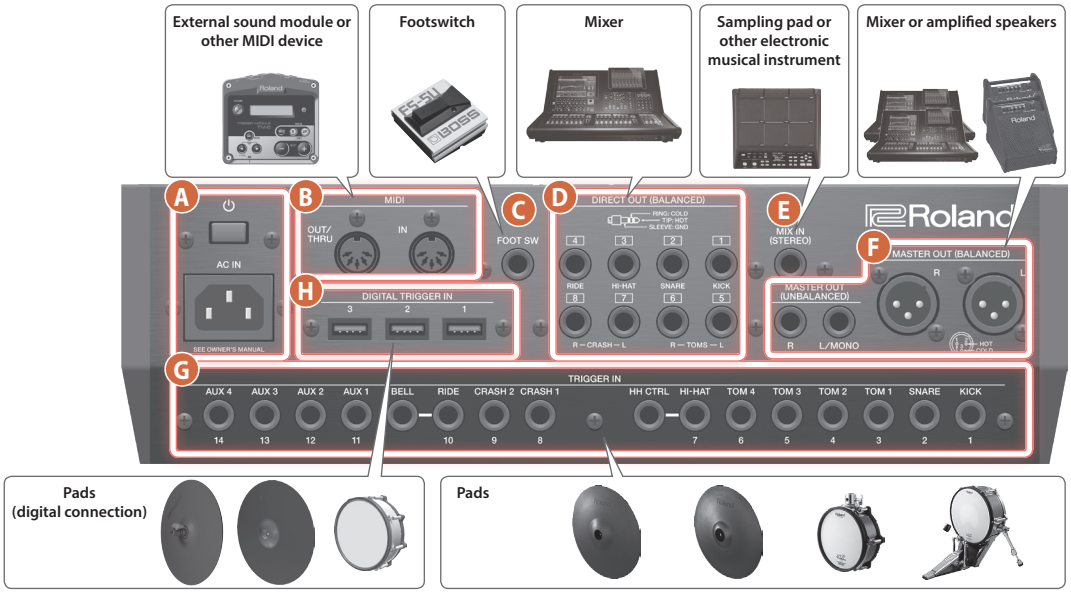
* Do not use any screws other than the screws from the bottom of the TD-50X. Doing so will cause malfunctions.
* When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.



MEMO

The All Purpose Clamp (APC-33; sold separately) can be attached to a pipe of 10.5–28.6 mm radius in case you want to mount the TD-50X on a cymbal stand or other such stand.

Rear Panel (Connect Your Equipment)



A

[⏻] switch

Turns the power on/off.

AC IN jack

Connect the included power cord here.

B MIDI port

Use these connectors to connect an external sound module or other MIDI device.

C FOOT SW jack

You can connect a footswitch (BOSS FS-5U, FS-6; sold separately) here and use it to control various things.

D DIRECT OUT (BALANCED) jacks

Connect these to your mixer.

Use the [SETUP] button to specify the DIRECT OUT 1–8 jack from which each instrument is output.

* Pin assignment of the DIRECT OUT (BALANCED) jacks

E MIX IN (STEREO) jack

Connect this to an electronic musical instrument such as a sampling pad.

F MASTER OUT (BALANCED) jacks / MASTER OUT (UNBALANCED) jacks

Connect these to your mixer, amplified speakers, or recording device.

If you want to output in mono, connect only the L/MONO jack of the MASTER OUT (UNBALANCED) jacks.

* Pin assignment of the MASTER OUT (BALANCED) jacks

G TRIGGER IN jack

Connect cymbal, hi-hat, kick, and other pads here.

* If connecting a dual trigger type pad, use a stereo (TRS) cable.

H DIGITAL TRIGGER IN jack

Connect pads that support digital connection (e.g., PD-140DS, CY-18DR or VH-14D) here.

Turning the Power On/Off

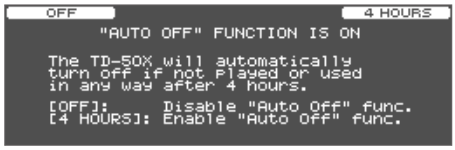
* Once everything is properly connected (p. 8), be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.
* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

Turning the TD-50X On

1. Minimize the volume of the TD-50X and the connected devices.

2. Press the TD-50X's [⏻] switch.

When you turn the TD-50X on, the following screen appears.



In this screen you can enable or disable the Auto Off function.

Button	Explanation
[F1] (OFF) button	The power does not turn off automatically.
[F4] (4 HOURS) button	When four hours have elapsed without any pad being struck or any operation being performed, the unit will turn off automatically.

If the Auto Off function is set to "OFF," this screen won't appear.

MEMO

If a pad that supports digital connection is connected, the pad setting screen might appear. For details, refer to "Settings for pads that support digital connection" (p. 7).

3. Power-on the connected devices, and adjust the volume.

Turning Off the Power

NOTE

Settings that you edit on the TD-50X are saved when you turn off the unit. Be sure to turn off the unit by pressing the [⏻] switch.

1. Minimize the volume of the TD-50X and the connected devices.

2. Turn off the power to the connected devices.

3. Press the TD-50X's [⏻] switch.

The screen will indicate "Please wait. Now saving...," and the unit will turn off when the settings have been saved.

* If you need to turn off the power completely, first turn off the unit, then unplug the power cord from the power outlet. Refer to **"To completely turn off power to the unit, pull out the plug from the outlet"** (p. 2).

Making the Power Automatically Turn off After a Time (AUTO OFF)

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function).

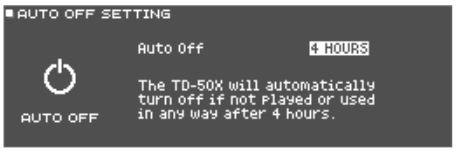
If you do not want the power to be turned off automatically, disengage the Auto Off function.

* Unsaved data is lost when the power turns off. Before turning the power off, save the data that you want to keep.
* To restore power, turn the power on again (p. 9).

1. Press the [SETUP] button.

2. Use the PAGE [UP] [DOWN] buttons and the function buttons to select "AUTO OFF."

The AUTO OFF screen appears.



3. Use the [–] [+] buttons or the dial to specify the setting of the auto-off function.

Value	Explanation
OFF	The power does not turn off automatically.
4 HOURS	When four hours have elapsed without any pad being struck or any operation being performed, the unit will turn off automatically.

4. Press the [KIT] button to return to the DRUM KIT screen.

MEMO

If the auto-off function is set to "4 HOURS," the message "WARNING: AUTO OFF, The TD-50X will turn off in 30 min." will appear 30 minutes before turning the TD-50X off.

Making Hi-Hat Settings

When using the VH-14D digital V-hi-hat or the VH-13, VH-11 or VH-10 V-hi-hats, adjust the offset on the TD-50X.

This adjustment is required for pedal movements such as open or close to be detected correctly.

Settings for the VH-14D

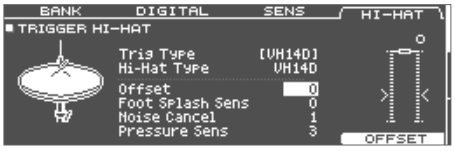
1. Press the [TRIGGER] button.

2. Press the PAGE [UP] button several times to access the top page.

3. Press the [F4] (HI-HAT) button.

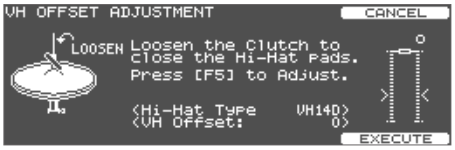
The TRIGGER HI-HAT screen appears.

* **"VH-14D"** is not shown as a Trig Type when the VH-14D is not connected or if it is not assigned as the hi-hat. In this case, connect the VH-14D and assign it as the hi-hat (p. 7).



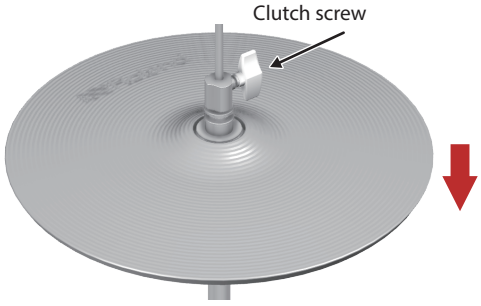
4. Press the [F5] (OFFSET) button.

The VH OFFSET ADJUSTMENT screen appears.

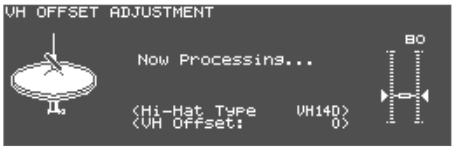


5. Loosen the clutch screw of the top cymbal and let it sit on the bottom cymbal.

* Do NOT touch the hi-hats or the pedal.



6. Press the [F5] (EXECUTE) button.



The "VH Offset" parameter is set automatically (approx. 3 seconds).

The [TRIGGER] button stops flashing and remains lit.

7. Press the [KIT] button to return to the DRUM KIT screen.

If you need, make further adjustments to the parameters.

➡ "Reference Manual" (PDF)

MEMO

You can also press the [TRIGGER] button while holding down the [KIT] button on the TD-50X to adjust the offset.

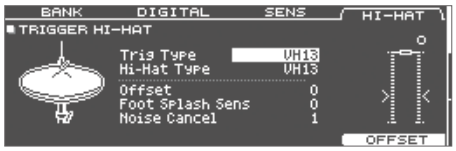
When first connecting the VH-14D to the drum sound module, the trigger parameters are set to the recommended values. The trigger parameters may need to be adjusted depending on the environment where the TD-50X is used, including how it is mounted and the position in which it is set up.

➡ "Reference Manual" (PDF)

Settings for the VH-13

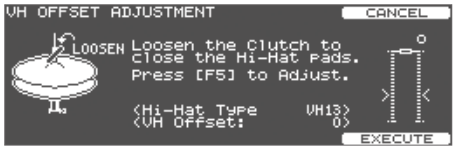
1. **Press the [TRIGGER] button.**
2. **Press the PAGE [UP] button several times to access the top page.**
3. **Press the [F4] (HI-HAT) button.**

   The TRIGGER HI-HAT screen appears.



4. **Use the [-] [+] buttons or the dial to set Trig Type to "VH13."**
5. **Press the [F5] (OFFSET) button.**

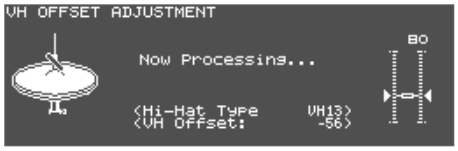
   The VH OFFSET ADJUSTMENT screen appears.



6. **Loosen the clutch screw of the top cymbal and let it sit on the bottom cymbal.**

* Do NOT touch the hi-hats or the pedal.

7. **Press the [F5] (EXECUTE) button.**



The "VH Offset" parameter is set automatically (approx. 3 seconds).

The [TRIGGER] button stops flashing and remains lit.

8. **Press the [KIT] button to return to the DRUM KIT screen.**

   If you need, make further adjustments to the parameters.

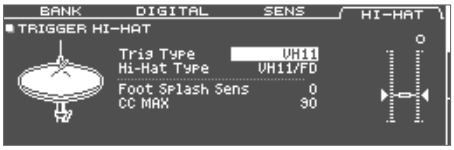
➡ "Reference Manual" (PDF)

Configuring the VH-11 (or VH-10)

This shows how to configure the VH-11. The steps are the same for the VH-10, with only the model name being different.

1. **With the motion sensor unit completely separated from the hi-hat, turn on the TD-50X.**
2. **Loosen the clutch screw of the VH-11, so that the hi-hat naturally rests atop the motion sensor unit.**
3. **Press the [TRIGGER] button.**
4. **Press the PAGE [UP] button several times to access the top page.**
5. **Press the [F4] (HI-HAT) button.**
6. **Use the [-] [+] buttons or the dial to set Trig Type to "VH11."**
7. **Turn the VH offset adjustment screw on the VH-11 while watching the meter on the right side of the TD-50X's screen.**

   Adjust the screw so that "▶ ◀" shows up on the meter.



8. **Press the [KIT] button to return to the DRUM KIT screen.**

   If you need, make further adjustments to the parameters.

➡ "Reference Manual" (PDF)

Basic Operation

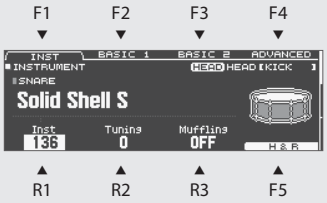
Adjusting the overall volume ([MASTER] knob, [PHONES] knob)

Use the **[MASTER]** knob to adjust the volume that is output from the MASTER OUT jacks. Use the **[PHONES]** knob to adjust the headphone volume.

Switching tabs and specifying functions ([F1]–[F5] buttons, [R1]–[R3] knobs)

You can use the **[F1]–[F5]** buttons to switch the tabs that are shown at the top of the display, or specify the functions that are shown at the top and bottom of the display.

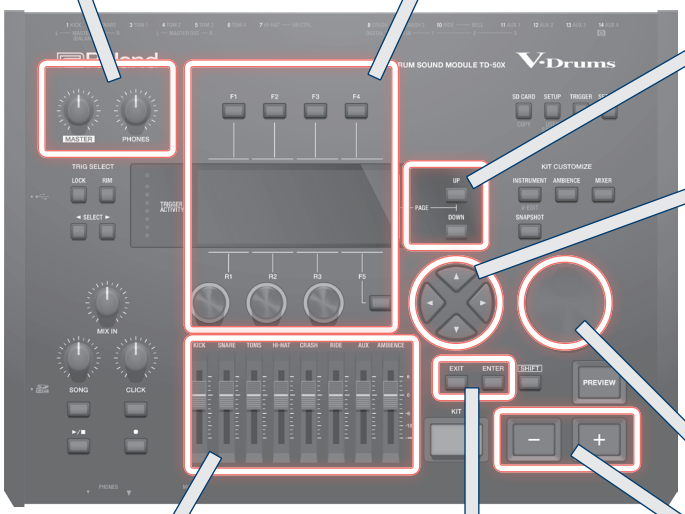
You can also use the **[R1]–[R3]** knobs to change the values that are shown at the bottom of the display.



Switching pages (PAGE [UP] [DOWN] buttons)

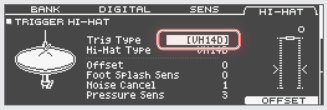
Use the PAGE **[UP]** **[DOWN]** buttons to switch pages in the screen.

In screens where you can switch pages, the PAGE **[UP]** **[DOWN]** buttons are lit, and in the right side of the display there is an indication of which page you are in.



Moving the cursor (cursor buttons)

Cursor refers to the highlighted characters indicating an on screen parameter that can be set. When there is more than one possibility within the screen, use the cursor buttons to move it.



Adjusting the volume balance of each pad (faders)

Use the faders to adjust the volume balance of the entire TD-50X.

By using the mixer (p. 23), you can adjust the volume balance of the pads in each kit. Mixer settings can be saved for each individual kit.

You can adjust the following trigger inputs and volumes.

Fader	Explanation
KICK	KICK
SNARE	SNARE
TOMS	TOM1–4
HI-HAT	HI-HAT
CRASH	CRASH1, 2
RIDE	RIDE
AUX	AUX1–4
AMBIENCE	AMBIENCE

Returning to the previous screen ([EXIT] button)

When you want to return to the previous screen, press the **[EXIT]** button.

Confirming an operation ([ENTER] button)

Press this button to finalize a value or confirm an operation.

Editing a value ([–] [+] buttons/dial)

To edit the value that's highlighted by the cursor, use the dial or the **[–]** **[+]** buttons.

If you operate these while holding down the **[SHIFT]** button, the value changes more quickly.

MEMO

If you hold down the **[+]** button and press the **[–]** button, the value will increase rapidly. If you hold down the **[–]** button and press the **[+]** button, the value will decrease rapidly.

About Performance Techniques

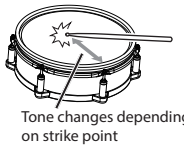
The TD-50X responds to a variety of performance techniques just like an acoustic drum set.

NOTE

- Use only wooden or plastic sticks. Using a carbon or metal stick may cause the sensor to malfunction.
- Use nylon brushes. Using metal brushes may cause the sensor to malfunction, and may scratch the pad.

Pad

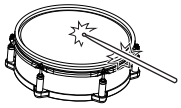
Head shot



Hit only the head of the pad.

For a snare drum, the tone will change naturally as you move the strike location from the center of the head toward the rim.

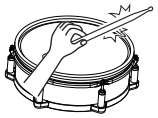
Rim shot



Strike the head and the rim of the pad simultaneously.

A sound (rim sound) different than the head shot will be heard.

Cross stick



Strike the rim while placing your hand on the head.

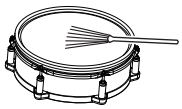
Snare sounds can produce different sounds in response to different playing techniques; for example they can produce a rim sound when played using a rim shot, or a cross-stick sound when played using a cross-stick technique.

Either connect a pad that supports rim shot playing technique to the TRIGGER IN (2 SNARE) jack, or connect a pad that supports cross-stick technique and allows a digital connection (such as the PD-140DS) and assign it to the snare.

On units other than the PD-140DS, strike only the rim so as not to touch the head.

On some snare sounds, it might not be possible to play separate sounds in this way.

Playing with brushes



You can use brushes to scrape the head (brush sweep).

Either connect a mesh head pad to the TRIGGER IN (2 SNARE) jack, or connect a pad that supports digital connection and allows brush techniques (such as the PD-140DS), and assign it as the snare.

In addition, assign an instrument that supports brush techniques to the head of the snare, and turn the Brush Switch **"ON."**

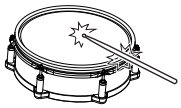
For details, refer to **"Reference Manual"** (PDF).

Change the nuance of the rim shot

With certain snare and tom sounds, slight changes in the way you play rim shots changes the nuance.

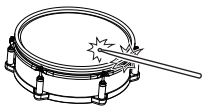
Normal rim shot

(Open rim shot)



Strike the head and rim simultaneously.

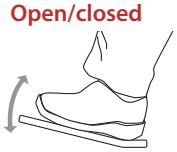
Shallow rim shot



Simultaneously strike the head near the rim and the rim itself.

Hi-Hat

Open/closed



The hi-hat tone changes smoothly and continuously from open to closed in response to how far the pedal is pressed.

You can also play the foot closed sound (playing the hi-hat with the pedal completely pressed down) and foot splash sound (playing the hi-hat with the pedal fully pressed and then instantly opening it).

Pressure

(VH-14D, VH-13)

When you strike the hi-hat while pressing on the pedal with the hi-hat closed, you can then change the closed tone in response to the pressure you place on the pedal.

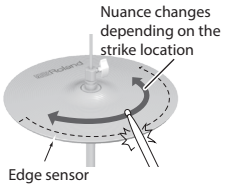
The VH-11, VH-10, FD-9, and FD-8 do not respond to pressure.

Bow shot

This playing method involves striking the middle area of the top cymbal. It corresponds to the sound of the **"head-side"** of the connected trigger input.

If you are using a pad that distinguishes between where you strike it (such as the VH-14D), the nuances of certain hi-hat sounds change depending on where you strike the bow.

Edge shot

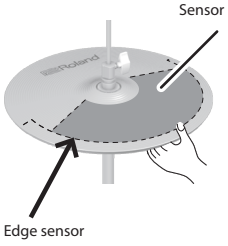


This playing method involves striking the edge of the top cymbal with the shoulder of the stick. When played as shown in the figure, the **"rim-side"** sound of the connected trigger input is triggered.

Striking directly on the edge (i.e., exactly from the side) will not produce the correct sound. Strike as shown in the illustration.

If you are using a pad that distinguishes between where you strike it (such as the VH-14D), the nuances of the sound change depending on where you strike the edge.

Choke play



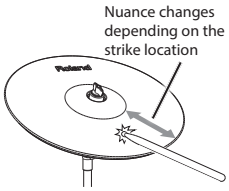
If you use your hand to choke (grasp) the edge sensor after striking the cymbal, the sound stops.

With the VH-14D, the sound stops (is muted) even if you simply place your hand on the sensor detection area.

When you strike the cymbal in the choked state, the sound is shorter.

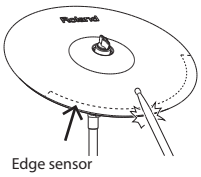
Cymbal

Bow shot



This is the most common playing method, playing the middle area of the cymbal. It corresponds to the sound of the **"head-side"** of the connected trigger input.

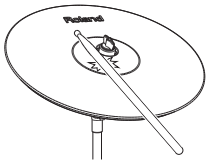
Edge shot



This playing method involves striking the edge with the shoulder of the stick. When played as shown in the figure, the **"rim-side"** sound of the connected input is triggered.

Striking directly on the edge (i.e., exactly from the side) will not produce the correct sound. Strike as shown in the illustration.

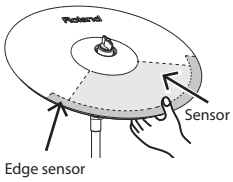
Bell shot



This is the technique of striking the bell. When the bell area shown in the illustration is struck, the bell sound is heard.

Connect a compatible pad to the TRIGGER IN (10 RIDE - BELL) jack, or connect a pad that allows the bell shot technique and supports a digital connection (such as the CY-18DR), and assign it to ride.

Choke play



If you use your hand to choke (grasp) the edge sensor after striking the cymbal, the sound stops.

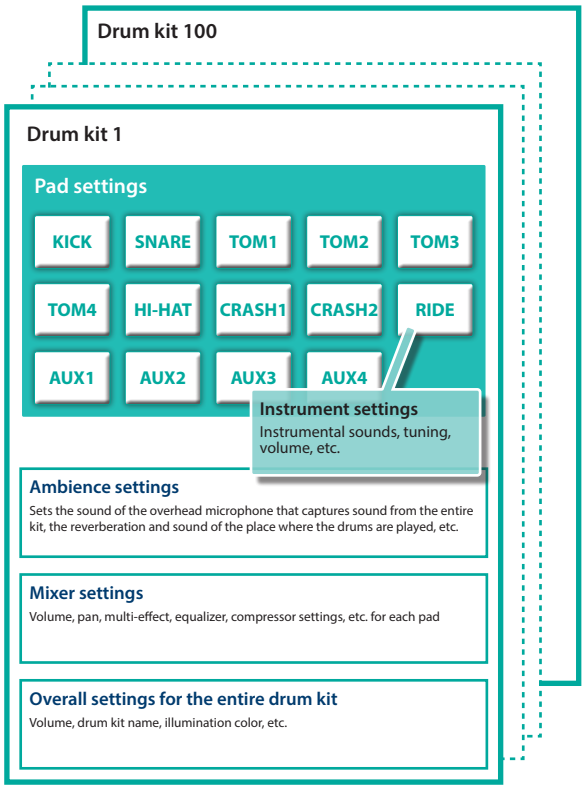
With the CY-18DR, the sound stops even if you simply place your hand on the sensor detection area.

The sound is shorter when you strike the cymbal while it is choked or muted.

Drum Kits and Instruments

On the TD-50X, the sound you hear when you strike each pad is called an "instrument." A "drum kit" is a set of sounds (instruments) assigned to the pads.

The illustration below shows the structure of a drum kit.



Selecting a Drum Kit

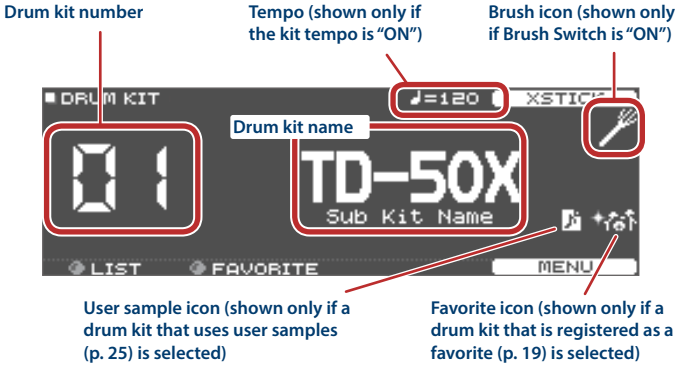
1. Press the [KIT] button.

The DRUM KIT screen appears.

2. Use the [–] [+] buttons or dial to select a drum kit.

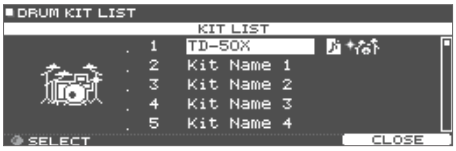
About the DRUM KIT screen

This is the TD-50X's main screen; it will appear when you press a [KIT] button.



Selecting a Drum Kit from the List

In the DRUM KIT screen, turn the [R1] (LIST) knob; KIT LIST appears, allowing you to select a drum kit from the list.



Cross-Stick Function

Pads that are connected to a TRIGGER IN jack

Each time you press the [F4] (XSTICK) button, you'll switch between sounding and not sounding the cross-stick sound (p. 13) from the snare pad.

When playing using a pad that supports digital connection and cross-stick technique (such as the PD-140DS)

If a trigger input is assigned to snare (p. 7), cross-stick technique is always possible.

In this case, the XSTICK icon is not shown in the screen.

Playing with the Click

Turning the click on/off

1. Press the [CLICK] button.

The CLICK screen appears.

2. Press the [F1] (TEMPO) button.

3. Press the [F5] button.

The click sounds.

You can adjust the volume of the click using the [CLICK] knob.

4. Press the [F5] button once again.

The click stops.

MEMO

You can also turn the click on/off by holding down the [SHIFT] button and pressing the [CLICK] button.

MEMO

You can also output the click only to headphones.

➡ "Reference Manual" (PDF)

Changing the tempo

1. In the CLICK screen (TEMPO tab), turn the [R1] knob to adjust the tempo.

Changing the beat unit

1. In the CLICK screen (TEMPO tab), turn the [R2] knob to change the time signature.

2. Press the [KIT] button to return to the DRUM KIT screen.

Reference

For other settings, refer to "Reference Manual" (PDF).

Performing Along with a Song

Performing Along with an Audio Player Song

Here's how to connect an audio player (smartphone) to the MIX IN jack, and perform along with a song.

1. Connect an audio player to the MIX IN jack (p. 7, p. 8).

2. Play back the audio player.

3. Turn the [MIX IN] knob to adjust the volume of the song.

Performing Along with a TD-50X Song

The TD-50X contains songs of a wide range of genres.

Some internal songs consist only of audio data, and others record a drum performance (MIDI data).

An audio file (WAV or MP3) on an SD card can also be played back as a song.

Here's how to perform along with a song.

1. Press the [SONG] button.

The SONG screen appears.

2. Use the [F1]–[F3] buttons, [–] [+] buttons, or dial to select a song.

Button	Explanation
[F1] button (INTERNAL)	Internal songs
[F2] button (SD CARD)	SD card songs
[F3] button (REC DATA)	Songs recorded on the TD-50X or on an SD card

3. Press the [►/■] button.

The selected song plays.

Controller	Function
[►/■] button	Play/stop the song
[▲] (I◄) button	Move to the beginning of the song
[▼] (►I) button	Move to the end of the song *
[◄] (◄◄) button	Rewind the song *
[►] (►►) button	Fast-forward the song *
[SONG] knob	Adjust the volume of the song (audio file)

* This might be unavailable depending on the type of song.

MEMO

- You can repeatedly play the entire song, or repeatedly play just a portion of the song. For details, refer to "Reference Manual" (PDF).
- By outputting an audio file from the SD card as a click track, you can sound a click along with the song.

➡ "Reference Manual" (PDF)

When transferring files from your computer to an SD card

Audio files can be played back not only from the top level of the SD card drive, but also from within a folder.

* You can put up to 200 song files in a single folder.

* Make sure that no single file is larger than 2 GB.

Reference

For details, refer to "Reference Manual" (PDF).

Audio files that can be played by the TD-50X

	WAV	MP3
Format (extension)	WAV (.wav)	MP3 (.mp3)
Sampling frequency	44.1 kHz	44.1 kHz
Bit rate	16, 24-bit	64 kbps–320 kbps

* File names or folder names that contain more than 16 characters are not shown correctly. Files and folders using double-byte characters are also not supported.

Rhythm Training (Coach Mode)

This unit provides practice modes called "Coach Mode" which are designed to make your practicing as effective as possible.

This provides three menus: "TIME CHECK," "QUIET COUNT," and "WARM UPS." These help you improve your speed control, accuracy, and endurance. You can also change to settings that are appropriate for your level of performing skill.

See the "Reference Manual" (PDF) for details on the settings of each menu.

Selecting a Practice Menu

1. Press the [CLICK] button.

The CLICK screen appears.

2. Press the [F4] (COACH) button.

The COACH MENU screen appears.

3. Use the cursor buttons to select the coach menu, and press [ENTER] button.

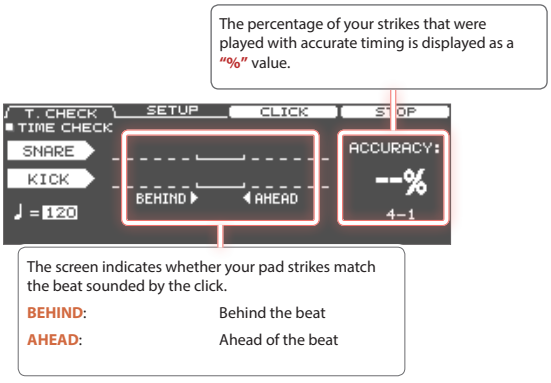
Correctly Playing in Time with the Beat (TIME CHECK)

This lets you practice drumming in accurate time along with the click.

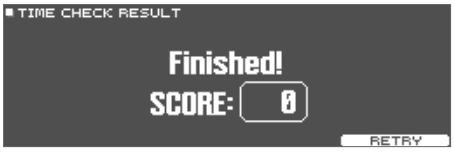
1. In the TIME CHECK screen, press the [F5] (START) button.

If you decide to stop mid-way through practice, press the [F4] (STOP) button.

2. Strike the pad in time with the click.



Your strike timing is evaluated.



To resume practicing, press the [F5] (RETRY) button.

3. Press the [EXIT] button to finish.

Developing Internal Timing Sense (QUIET COUNT)

This lets you practice keeping the tempo with your body. For the first few measures, the click is heard at the specified volume, but for the next few measures the click is not heard. This cycle of several measures will continue until you stop it.

1. In the QUIET COUNT screen, press the [F5] (START) button.

2. Strike the pad in time with the click.

- The click will sound during the first few measures. When you reach the last measure during which the click will sound, the screen will indicate **"Ready.."**

- When the click stops sounding, the screen indication will change to **"Quiet."** Continue striking the pads during this time.

- After the Quiet region, the proportion of your strikes that were played at an accurate tempo are shown as a **"%."**

3. Press the [F4] (STOP) button.

4. Press the [EXIT] button to finish.

WARM UPS

In this mode you'll successively practice steps 1–3, be graded on your performance at each step, and then receive a final evaluation.

You can choose one of three courses (5/10/15 minutes), ranging from easy to difficult. You can also adjust the tempo according to your level of skill.

MEMO

After starting WARM UPS, you can press the [F5] (PAUSE) button to pause or resume.

While paused, you can press the [F4] (STOP) button to stop.

1. In the WARM UPS screen, press the [F5] (START) button.

Step 1: Change-Up

In this step, the rhythm type will change every two measures.

Starting from half notes, the note values will gradually become shorter, and will then return to half notes; this change in rhythms will be repeated.

Step 2: Auto Up/Down

The tempo will gradually be raised and lowered.

The tempo will increase by 1 BPM (beat-per-minute) for each beat until the click reaches the upper limit; then the tempo will continue slowing down by 1 BPM until it reaches the initial tempo.

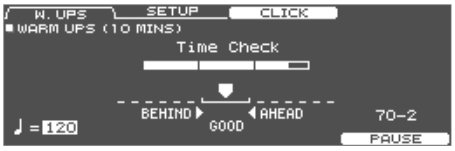
* Auto Up/Down will be executed if Duration is 10 MINS or 15 MINS.

* Auto Up/Down does not let you use the **[TEMPO]** knob to adjust the current tempo.

* The current tempo value will be the lower tempo limit.

Step 3:Time Check

At this step, the accuracy of your playing will be checked against the click. You can see in the screen if you are ahead, behind or on the beat.



Overall evaluation

This grades your performance at each step, and displays the overall evaluation.

To resume practicing, press the [F5] (RETRY) button.

Evaluation (display)	EXCELLENT!, VERY GOOD!, GOOD, AVERAGE, START OVER

2. Press the [EXIT] button to finish.

Registering/Recalling Favorite Drum Kits (FAVORITE)

You can register frequently-used drum kits as "favorites" for instant recall.

Registering a favorite

1. **Select the drum kit that you want to register (p. 15).**
2. **In the DRUM KIT screen (p. 15), press the [F5] (MENU) button.**
3. **Press the PAGE [UP] button several times to access the KIT SETTINGS screen.**
4. **Press the [F3] (FAVORITE) button.**
5. **Turn the [R2] knob to turn favorites "ON."**

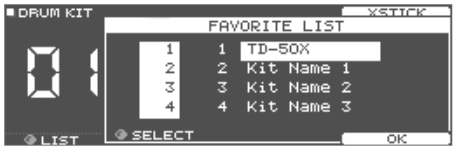
6. **Press the [KIT] button to return to the DRUM KIT screen.**

Drum kits that are registered as a favorite will show an icon in the DRUM KIT screen.

Recalling a favorite

1. **In the DRUM KIT screen, turn the [R2] (FAVORITE) knob.**

A list of drum kits that are registered as favorites is displayed.



2. **Select the drum kit that you want to recall, and press the [F5] (OK) button.**

The TD-50X switches to the selected drum kit.

MEMO

To remove "favorite" registration from a drum kit, turn the favorite setting "OFF."

Recording a Performance

You can easily record your own performance and play it back.

* If you want to record on an SD card, you must first insert an SD card (p. 7).

Recording

1. In the DRUM KIT screen (p. 15), press the [●] button.

The RECORDER screen appears; the TD-50X is in record-standby condition.

MEMO

If you want to record along with a click, sound the click (p. 16).

2. Use the [F5] button to select "DRUM only."

3. Turn the [R1] knob to select the recording destination.

Display	Explanation
TEMPORARY	Record onto the TD-50X's temporary area (one song). The data recorded to TEMPORARY can also be copied to an SD card. For details, refer to **"Reference Manual"** (PDF). * The recorded data in the TEMPORARY area disappears when you turn off the power.
SD#01–99	Record onto the SD card (99 songs). * You can't select this unless an SD card is inserted in the TD-50X.

MEMO

If it is OK to overwrite a recording destination that already contains recorded data, turn the [R2] knob to add a check mark to "Overwrite." If the check mark is cleared, previously-recorded data will not be accidentally overwritten.

4. Press the [►/■] button to start recording.

5. Press the [►/■] button once again to stop recording.

Playback

6. Press the [►/■] button.

The recorded performance plays back.

MEMO

You can also turn the [R1] knob to select another recorded song.

7. Press the [►/■] button to stop playback.

Recording Your Performance Along with a Song

You can record your performance along with a song.

Recording

1. Select the song (p. 16).

2. Press the [●] button.

The RECORDER screen appears; the TD-50X is in record-standby condition.

3. Use the [F5] button to select "with SONG."

You can select "with SONG" only for audio file songs.

4. Turn the [R1] knob to select the recording destination.

MEMO

If it is OK to overwrite a recording destination that already contains recorded data, turn the [R2] knob to add a check mark to "Overwrite." If the check mark is cleared, previously-recorded data will not be accidentally overwritten.

5. Press the [►/■] button to start recording.

The TD-50X starts recording and the song starts playing.

6. Press the [►/■] button once again to stop recording.

Playback

7. The recorded performance plays back.

You can export your recording to the SD card

A song recorded on the TD-50X can be exported as audio data or SMF to an SD card; in the SONG screen (REC DATA tab), press the [F4] (EXPORT) button. For details, refer to "Reference Manual" (PDF).

Recording on a Connected Computer

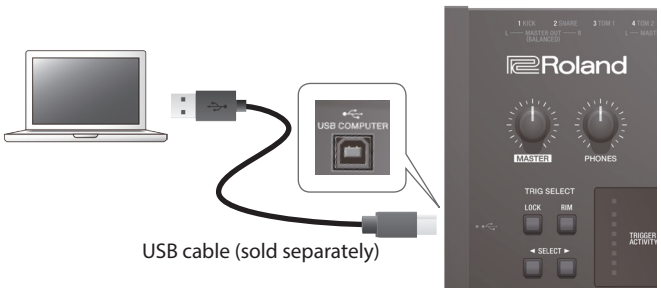
You can connect the TD-50X to your computer and record ten channels of multi-track audio onto your DAW, or record your performance as MIDI data.

➡ For details, refer to "Reference Manual" (PDF).

Installing the USB Driver

The USB driver is software that transfers data between the TD-50X and your computer software.

In order to transmit and receive audio as USB AUDIO, you must install the USB driver.



USB cable (sold separately)

MEMO

For details on downloading and installing the USB driver, refer to the Roland website.

http://www.roland.com/support/

Saving the settings

On the TD-50X, your edits are saved automatically, so you don't have to perform any operation to save the settings.

Settings are also saved when you turn off the power.

Editing an Instrument (INSTRUMENT)

Here's how to edit an individual instrumental sound such as the snare drum or kick drum.

➡ For details on the parameters that can be edited, refer to "Reference Manual" (PDF).

1. Press the [INSTRUMENT] button.

The INSTRUMENT screen appears.

2. Select the pad that you want to edit.

3. Edit the settings of the instrument.

MEMO

An audio file that you created on your computer can be loaded from the SD card into the TD-50X, and played as an instrument (p. 25).

4. Press the [KIT] button to return to the DRUM KIT screen.

Reference

- In screens where the [F5] (H & R) button is shown, you can individually edit the parameters for each different striking location, such as the head and the rim. For details, refer to "Reference Manual" (PDF).
- You can layer two instruments together, or switch between them according to the force of the strike (SUB INSTRUMENT). For details, refer to "Reference Manual" (PDF).

Selecting an Instrument

1. Press the [INSTRUMENT] button.

2. Press the PAGE [UP] button several times to access the INSTRUMENT screen.

3. Press the [F1] (INST) button.

4. Select the pad that you want to edit.

5. Turn the [R1] knob to select an instrument.

6. Press the [KIT] button to return to the DRUM KIT screen.

➡ For details on the instruments that you can select, refer to "Reference Manual" (PDF).

Choosing a pad to edit

Choosing by hitting a pad

To edit the settings for a pad, strike that pad to select it.

To select the rim of a pad, strike the rim.

MEMO

By pressing the [LOCK] button to make it light, you can prevent the pad you're editing from being switched. This is convenient if you're playing a phrase while you edit.

Choosing with the SELECT [◄] [►] buttons

You can also use the SELECT [◄] [►] buttons to select the pad (trigger input number) to edit.

When using a pad that provides rim support, the [RIM] button lets you choose whether to make settings for the head or for the rim. When using a pad that provides three-way trigger support, this button switches between head, rim, and bell.

The [RIM] button is lit if the rim or bell is selected.

Auditioning the sound of a pad ([PREVIEW] button)

You can press the [PREVIEW] button to hear the sound of the pad that's currently selected.

The volume changes depending on how strongly you press the button. You can also fix the volume. For details, refer to "Reference Manual" (PDF).

MEMO

By holding down the [SHIFT] button and pressing [PREVIEW], you can also preview sounds such as the snare's outside edge, shallow rim shot, or closed hi-hat.

Simulating the Ambience of a Performance Space (AMBIENCE)

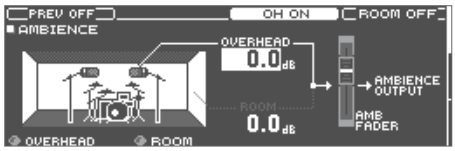
This feature recreates the sound of the overhead microphone that captures sound from the entire kit, as well as the reverberation and sound of the place where the drums are played (ambience).

You can adjust the overhead microphone sound, the room type and size (room ambience), reverb and so on to achieve an even more natural and lifelike drum sound.

➡ For details on the parameters that can be edited, refer to "Reference Manual" (PDF).

1. Press the [AMBIENCE] button.

The AMBIENCE screen appears.



2. Edit the settings of the ambience.

3. Press the [KIT] button to return to the DRUM KIT screen.

Turning ambience on/off

1. Press the [AMBIENCE] button.

2. Press the PAGE [UP] button several times to access the AMBIENCE screen.

3. Press the [F3] [F4] button to turn the setting on/off.

Button	Explanation
[F3] button	Turns the overhead microphone on/off.
[F4] button	Turns room ambience and reverb on/off.

Editing the Mixer (MIXER)

Here you can adjust the volume of each pad and apply various effects to the sound.

➡ For details on the parameters that can be edited, refer to "Reference Manual" (PDF).

1. Press the [MIXER] button.

The Mixer setting screen appears.

2. Select the pad that you want to edit (p. 22).

3. Edit the mixer settings.

4. Press the [KIT] button to return to the DRUM KIT screen.

Adjusting the Volume of Each Pad

Here's how to adjust the volume of each pad.

You can also adjust the pan (stereo position) and minimum volume of each pad.

➡ For details, refer to "Reference Manual" (PDF).

1. Press the [MIXER] button.

2. Press the PAGE [UP] button several times to access the top page.

3. Press the [F1] (VOLUME) button.

The MIXER VOLUME screen appears.

4. Select the pad that you want to edit (p. 22).

5. Use the [–] [+] buttons or the dial to edit the value.

Applying Effects

For each pad, you can adjust the way in which its volume changes (pad compressor) and adjust its tone (pad equalizer), or apply up to three effects to the entire drum kit (multi-effect).

➡ For details on the parameters that can be edited, refer to "Reference Manual" (PDF).

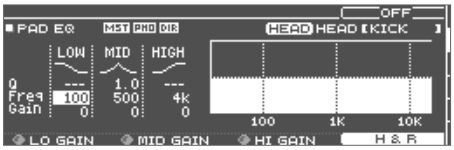
You can apply a compressor or equalizer to the entire drum kit (master compressor, master equalizer).

➡ For details, refer to "Reference Manual" (PDF).

1. Press the [MIXER] button.

2. Use the PAGE [UP] [DOWN] buttons to access the edit screen.

PAD EQ screen (pad equalizer)



PAD COMP screen (pad compressor)

MFX1–3 screen (multi effect)

3. Edit the effect settings.

Turning effects on/off

1. Press the [MIXER] button.

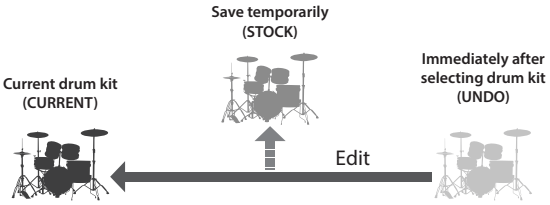
2. Use the PAGE [UP] [DOWN] buttons to access the edit screen.

3. Press a function button to turn the setting on/off.

Screen	Button	Explanation
PAD EQ screen	[F4] button	Turns pad equalizer on/off.
PAD COMP screen	[F4] button	Turns pad compressor on/off.
MFX1–3 screen	[F5] button	Turns on/off the multi-effect 1–3 selected by the [R1] knob.

Comparing with or Reverting to the Unedited Drum Kit (SNAPSHOT)

You can temporarily save the currently-edited drum kit, and compare it with the current settings or revert back to it (snapshot).



1. Select the drum kit that you want to edit.

When you select a drum kit, the data of the selected drum kit is stored in "UNDO."

2. When you want to temporarily save the settings of the currently-edited drum kit, press the [SNAPSHOT] button.

The SNAPSHOT screen appears, and the current drum kit (CURRENT) is selected.

3. Press the [F5] (SAVE) button.

The current drum kit settings are saved in STOCK.

4. Press the [EXIT] button to exit the SNAPSHOT screen, and edit the drum kit.

* When you switch drum kits, the settings saved in STOCK are deleted.

5. Press the [SNAPSHOT] button.

6. Use the [F1]–[F3] buttons to switch between the saved drum kits, and play them to compare.

Button	Explanation
[F1] (CURRENT) button	Current drum kit settings
[F2] (STOCK) button	Drum kit settings saved in STOCK
[F3] (UNDO) button	Settings immediately after selecting the drum kit

7. If you want to return the current drum kit settings to the state immediately after selecting a drum kit or STOCK, press the [F2] or [F3] button to select the drum kit settings to which you want to return.

If you want to continue with the current drum kit settings, press the [KIT] button to return to the DRUM KIT screen.

8. Press the [F4] (RESTORE) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

9. Select "OK" and then press the [ENTER] button.

The current drum kit settings return to the settings of the drum kit that you selected in step 7.

10. Press the [KIT] button to return to the DRUM KIT screen.

Editing a Drum Kit (MENU)

Here's how to make settings such as the volume of the drum kit and the illumination color of the controls.

➡ For details on the parameters that can be edited, refer to "Reference Manual" (PDF).

1. In the DRUM KIT screen (p. 15), press the [F5] (MENU) button.

The menu screen appears.

2. Edit the settings of the drum kit.

3. Press the [KIT] button to return to the DRUM KIT screen.

Setting the Volume

Here's how to set the volume of the drum kit.

1. In the DRUM KIT screen (p. 15), press the [F5] (MENU) button.

2. Press the PAGE [UP] button to access the top page.

The KIT SETTINGS screen appears.

3. Press the [F1] (VOLUME) button.

4. Use the [–] [+] buttons or the dial to edit the value.

Value	-INF–+6.0 dB

Specifying the Illumination Color of the [KIT] Button and Knobs

For each kit, you can change the illumination color of the [KIT] button and knobs.

This provides a useful way to distinguish between drum kits; for example you could assign different colors to drum kits of different genres, or use the color as a guideline when editing instruments.

1. In the KIT SETTINGS screen, press the [F2] (COLOR) button.

2. Use the cursor buttons to select the illumination color.

Value	1–10

Renaming the Drum Kit

Here's how to rename the currently selected drum kit.

1. In the KIT SETTINGS screen (p. 24), press the [F4] (NAME) button.

The DRUM KIT NAME screen appears.

2. Edit the name.

You can enter a kit name (upper line) of up to 12 characters, and a sub-name (lower line) of up to 16 characters.

Controller	Explanation
Cursor buttons	Move the cursor to the character that you want to change.
[–] [+] buttons, dial	Change the character.
[R1] (ABC) knob	Select uppercase characters.
[R2] (abc) knob	Select lowercase characters.
[R3] (123) knob	Select numerals.
[F3] (INSERT) button	Insert a space at the cursor location.
[F4] (DELETE) button	Delete the character at the cursor location.

3. Press the [F5] (EXIT) button to exit the DRUM KIT NAME screen.

Importing and Playing Audio Files (USER SAMPLE)

Audio files that you created on your computer can be imported from an SD card into the TD-50X, and played as instruments (user sample function). You can edit the sound of a user sample or apply effects to it in the same way as other instruments.

Audio files that can be loaded by the TD-50X

	WAV
Format (extension)	WAV (.wav)
Sampling frequency	44.1 kHz
Bit rate	16, 24-bit
Length	Maximum 180 seconds

* File names or folder names that contain more than 16 characters are not shown correctly. Files and folders using double-byte characters are also not supported.

Importing an Audio File

Here's how to import an audio file into the TD-50X as a user sample.

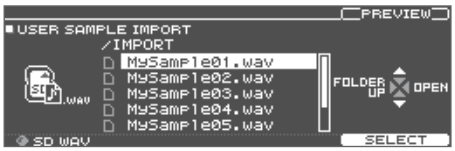
1. Insert an SD card into the TD-50X (p. 7).

2. Hold down the [SHIFT] button and press the [SETUP] button.

3. Press the PAGE [UP] button to access the top page.

4. Press the [F1] (IMPORT) button.

The USER SAMPLE IMPORT screen appears.



Cursor buttons	Function
[▲] button	Moves cursor (up)
[▼] button	Moves cursor (down)
[◀] button	Exits a folder
[▶] button	Enters a folder

5. Use the cursor buttons to select an audio file, and press the [F5] (SELECT) button.

The USER SAMPLE IMPORT (DESTINATION) screen appears.

6. Use the cursor buttons to select the import-destination number, and press the [F5] (IMPORT) button.

If you select a number in which data already exists, the message "User Sample Exists!" appears. Select a number that contains no data.

MEMO

You can import multiple audio files all at once (IMPORT ALL).

➡ For details, refer to "Reference Manual" (PDF).

7. Press the [F5] (IMPORT) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

8. Select "OK" and then press the [ENTER] button.

The audio file is imported.

Assigning a User Sample to an Instrument and Playing It

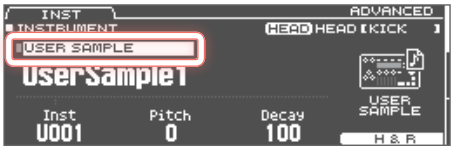
1. Press the [INSTRUMENT] button.

2. Press the PAGE [UP] button several times to access the INSTRUMENT screen.

3. Press the [F1] (INST) button.

4. Select the pad that you want to edit (p. 22).

5. Move the cursor to the instrument category, and use the [–] [+] buttons or the dial to select "USER SAMPLE."



6. Turn the [R1] knob to select a user sample.

7. Press the [KIT] button to return to the DRUM KIT screen.

When you strike a pad to which the user sample is assigned, you hear that user sample.

MEMO

You can adjust the sound of a user sample and apply effects to it in the same way as for other instruments.

➡ For details, refer to "Reference Manual" (PDF).

Settings

Trigger Settings

Here's how to make trigger settings so that the signals from the pads can be accurately processed by the TD-50X.

Specifying the Pad Type

You can specify the type of pad (trigger type) used by each trigger input of the trigger bank.

Trigger type

The trigger type is a collection of various trigger parameters, adjusted to values that are appropriate for each pad. To obtain the optimal settings for the pad used with each trigger input, specify the model (type) of pad that's connected.

Trigger bank

A trigger bank contains an entire set of settings for 14 triggers.

Reference

For more about trigger banks, refer to "Reference Manual" (PDF).

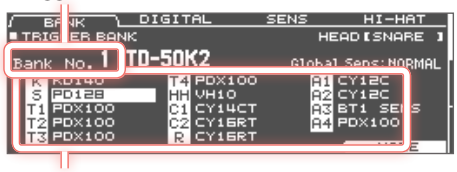
1. Press the [TRIGGER] button.

2. Press the PAGE [UP] button several times to access the top page.

3. Press the [F1] (BANK) button.

The TRIGGER BANK screen appears.

Trigger bank number



Trigger type

4. Select the pad that you want to edit (p. 22).

You can also use the cursor buttons to make a selection.

Pad	Explanation
K	KICK
S	SNARE
T1–4	TOM1–4
HH	HI-HAT
C1, 2	CRASH1, 2
R	RIDE
A1–4	AUX1–4

5. Use the [–] [+] buttons or the dial to specify the trigger type.

* You can't change the trigger type of a trigger input that's assigned to a pad that supports a digital connection.

For details on about trigger settings, refer to "Reference Manual" (PDF).

Adjusting the Sensitivity of Individual Pads

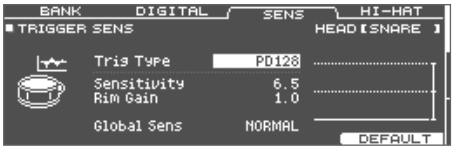
By adjusting the sensitivity of a pad you can adjust the balance between the force of the strike and the loudness of the sound.

1. Press the [TRIGGER] button.

2. Press the PAGE [UP] button several times to access the top page.

3. Press the [F3] (SENS) button.

The TRIGGER SENS screen appears.



4. Select the pad that you want to edit (p. 22).

5. Use the cursor buttons to select "Sensitivity."

6. Use the [–] [+] buttons or the dial to adjust the sensitivity.

➡ For details on adjusting the pad sensitivity, refer to "Reference Manual" (PDF).

Backing Up Data

All settings stored in the TD-50X can be saved (backed up) to an SD card, or restored (loaded) into the TD-50X.

MEMO

You can also back up and load individual drum kits.

➡ For details, refer to "Reference Manual" (PDF).

Backing Up to SD Card

Here's how to save all settings that are stored in the TD-50X (up to 99 sets).

1. Insert an SD card into the TD-50X (p. 7).

2. Press the [SD CARD] button.

3. Press the PAGE [UP] button several times to access the SD CARD BACKUP ALL screen.

4. Press the [F1] (SAVE) button.

The SD CARD SAVE <BACKUP ALL> screen appears.

5. Make backup settings.

Selecting a parameter: cursor buttons

Selecting a value: [-] [+] buttons or dial

Parameter	Explanation
With User Sample	Choose whether the user samples will be backed up.
Bank Number	Select the backup number.

* If you back up user samples as well, it may take several minutes to save the data depending on the size of the user samples. If you don't back up user samples, and you then delete user samples or renumber them, the kit won't be reproduced correctly even if you load the backup.

6. Press the [F5] (SAVE) button.

MEMO

If you want to assign a name to the backup data, press the [F4] (NAME) button and assign a name (p. 25).

7. Press the [F5] (EXECUTE) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

8. Select "OK" and then press the [ENTER] button.

The settings are saved in the SD card.

Loading Backup Data from an SD Card

Here's how backup data that was saved on an SD card can be loaded into the TD-50X.

1. Insert an SD card into the TD-50X (p. 7).

2. Press the [SD CARD] button.

3. Press the PAGE [UP] button several times to access the SD CARD BACKUP ALL screen.

4. Press the [F2] (LOAD) button.

The SD CARD LOAD <BACKUP ALL> screen appears.

5. Make load settings.

Selecting a parameter: cursor buttons

Selecting a value: [-] [+] buttons or dial

Parameter	Explanation
With User Sample	Choose whether the user samples will be loaded.
Bank Number	Select the backup number.

* When you load user samples, all user samples in the TD-50X are deleted. Depending on the size of the user samples, it may take more than ten minutes to load the data.

6. Press the [F5] (LOAD) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

7. Select "OK" and then press the [ENTER] button.

The backup data is loaded from the SD card.

Formatting an SD Card

Here's how to format an SD card.

* Before using an SD card for the first time with the TD-50X, you must format the SD card.

NOTE

When you format an SD card, all data on the SD card is erased.

1. Insert an SD card into the TD-50X (p. 7).

2. Press the [SD CARD] button.

3. Press the PAGE [DOWN] button several times to access the SD CARD UTILITY screen.

4. Press the [F4] (FORMAT) button.

The SD CARD FORMAT screen appears.

5. Press the [F5] (FORMAT) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

6. Select "OK" and then press the [ENTER] button.

The SD card will be formatted.

Settings for the Entire TD-50X (SETUP)

Settings that are common to the entire TD-50X, such as the output destination settings and the footswitch settings, are called "setup" data.

1. Press the [SETUP] button.

The SETUP MENU screen appears.

2. Use the PAGE [UP] [DOWN] buttons and the function buttons to select the menu that you want to edit.

Menu	Explanation
OUTPUT	Specify the output destination of the sounds.
USB AUDIO	Make USB audio settings.
OPTION	Make settings for the preview button, the MIX IN jacks, and the display.
CONTROL	Assign functions to the footswitch and pads.
MIDI	Make MIDI settings.
AUTO OFF	Make AUTO OFF settings (p. 10).
INFO	Check the remaining amount of internal memory and the program version.
FACTORY RESET	Return the TD-50X to its factory settings.

3. Edit the settings of the menu that you selected.

➡ For details on each menu, refer to "Reference Manual" (PDF).

Returning to the Factory Settings

The "Factory Reset" operation returns all data and settings stored in the TD-50X to their factory-set condition.

NOTE

When you execute this operation, all data and settings in the TD-50X will be lost. Before you proceed, you should save any important data and settings to your SD card (p. 28).

1. In the SETUP MENU screen, press the [F1] (FACTORY RESET) button.

The FACTORY RESET screen appears.

MEMO

If you want all user samples to also be returned to their factory-set state, use the [–] [+] buttons or the dial to add a check mark to "Reset with User Sample." All user samples in user memory are overwritten by the factory-set data.

2. Press the [F5] (FACTORY RESET) button.

A confirmation message appears.

If you decide to cancel, select "CANCEL" and press the [ENTER] button.

3. Select "OK" and then press the [ENTER] button.

The factory reset is executed.

Main Specifications

Drum Kits	100	
Effect Types	Pad Compressor: each pad	Multi-Effects: 3 systems, 38 types
	Pad Equalizer: each pad	Master Compressor
	Overhead Mic Simulator	Master Equalizer
	Room/Reverb	
User Sample Import	Number of User Sample: Maximum 500 (includes factory preloaded user samples)	
	Sound Length (total): 24 minutes in mono, 12 minutes in stereo	
	File formats that can be loaded: WAV (44.1 kHz, 16/24 bits)	
Song Player (SD Card)	Audio File: WAV (44.1 kHz, 16/24 bits), MP3	
Recorder	Recording Method: Realtime	
	Maximum Note Storage: approx. 40,000 notes	
	Export File Format: WAV (44.1 kHz, 16 bits), SMF	
Display	Graphic LCD 256 x 80 dots	
	TRIGGER ACTIVITY Indicator (LED)	
Power Supply	AC 117 V, AC 220 V, AC 230 V, AC 240 V	
Power Consumption	30 W	
Dimensions	330 (W) x 255 (D) x 118 (H) mm	
	13 (W) x 10-1/16 (D) x 4-11/16 (H) inches	
Weight	3.3 kg / 7 lbs 5 oz	
Accessories	Quick Start, Power Cord	
Options	Pad: PD series, PDX series, BT-1	Hi-Hat Control Pedal: FD series
	Cymbal: CY series	Acoustic Drum Trigger: RT series
	Kick: KD series, KT series	Footswitch: BOSS FS-5U, FS-6
	Hi-Hat: VH series	Personal Drum Monitor: PM series

* This document explains the specifications of the product at the time that the document was issued. For the latest information, refer to the Roland website.