Roland

V-Drums

V51

DRUM SOUND MODULE

Quick Start

Printed manuals

- **Quick Start (this document)**
  Explains the basics of using this unit.
- **Roland Cloud Connect Setup Guide**
  Explains how to register for and connect to Roland Cloud.

How to get the online manuals

1. **Visit the following website on your computer or other device.**
   https://www.roland.com/manuals/
2. **Choose "V51" as the product name.**

Online manual (download from Roland website)

- **Reference Manual**
  Explains all functions of this unit.
- **Roland Cloud User's Guide**
  Explains how to use Roland Cloud in detail.
- **Data List**
  Explains the parameters and sounds used in this unit.
- **MIDI Implementation**
  Provides detailed information about MIDI messages.

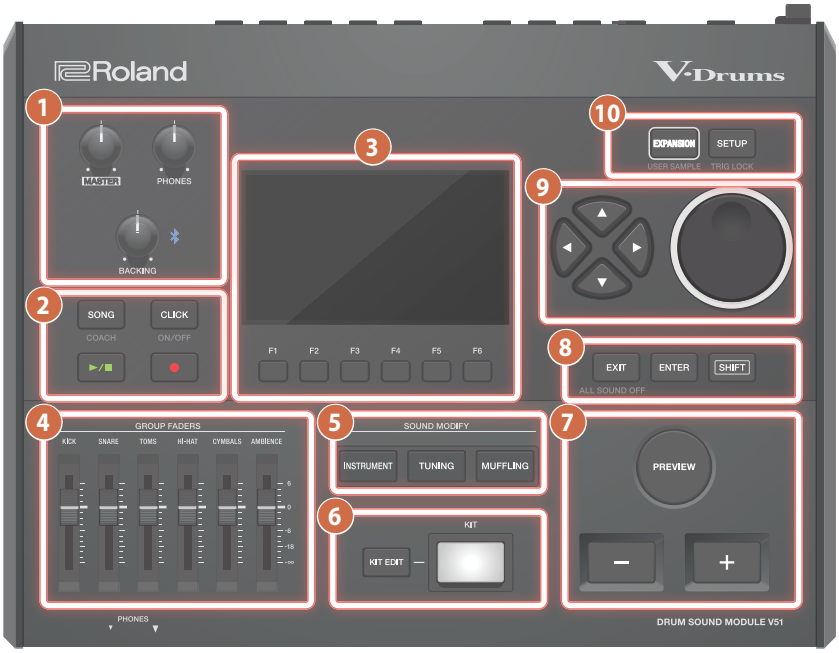
Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (the leaflet "USING THE UNIT SAFELY" and the Quick Start (p. 36)). After reading, keep the document(s) where it will be available for immediate reference.

Bluetooth®

English
日本語
Deutsch
Français
Italiano
Español
Português
Nederlands

Panel descriptions

Top panel



1

[MASTER] knob

Adjusts the volume of signal output from the MASTER OUT jacks.

[PHONES] knob

Adjusts the volume of signal output from the PHONES jack.

[BACKING] knob

Adjusts the volume of the song (audio file), the click, the audio input from the MIX IN (STEREO) jack and the volume of the **Bluetooth**® audio.

* It does not affect the drum performance sound of the built-in songs or the recorded drum sounds.

(Bluetooth) indicator

Lights up when the unit is successfully paired via Bluetooth (p. 15).

2

[SONG] button

Shows the SONG screen. Press this when you want to play back a song or recorded data, or to make song-related settings (p. 16).

If you press the [SONG] button while holding down the [SHIFT] button, the unit switches to coach mode (p. 17).

[CLICK] button

Lets you play the click sound and make tempo or click-related settings.

Further, you can turn the click on/off by holding down the [SHIFT] button and pressing the [CLICK] button.

[►/■] button

Plays/stops the song or recorded data (p. 15).

[●] button

The unit enters recording mode (p. 21).

3

[F1]–[F6] buttons (function buttons)

The function of these buttons changes depending on what is shown in the display. This sets the functions shown in the lower part of the display.

Display

Shows various information according to the operation.

4 **Faders**

Use these to adjust the volume of the kick, snare, toms, hi-hat, cymbals, ambience and so on.

5 **SOUND MODIFY**

You can easily adjust the instrument (sound) (p. 23).

[INSTRUMENT] button

Selects an instrument or adjusts the volume (p. 23).

[TUNING] button

Selects the tuning of the head and the size of the cymbal (p. 24).

[MUFFLING] button

Sets the muffling (mute) settings (p. 24).

6

[KIT EDIT] button

Edits the drum kit (p. 25).

[KIT] button

The KIT screen appears (p. 13).

7

[PREVIEW] button

This button lets you preview the instrument. You can also change the volume of sound that's heard when you press the button.

NOTE

You may hear the preview sound when the V51 is exposed to a strong impact. If this happens, you can turn the preview feature off by following the steps below.

Press the [PREVIEW] button while holding down the [KIT] button → set the Preview Switch parameter to "OFF"

[–] [+] buttons

Use these buttons to switch between drum kits and change values.

Press the [–] [+] buttons while holding down the [SHIFT] button to make the values change in larger increments.

8

[EXIT] button

Press this once to return to the next-higher-level screen. When you press this several times in a row, the display eventually returns to the KIT screen.

Also, when you press the [EXIT] button while holding down the [SHIFT] button, this stops (mutes) all of the sounds that are playing (ALL SOUND OFF (*1)). This is useful when you want to stop several loop phrases all at once.

*1: The effect reverberation, the song and the click do not stop.

[ENTER] button

Press this button to confirm a value or operation.

[SHIFT] button

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

9

[▼] [▲] [◀] [▶] buttons (cursor buttons)

These buttons move the cursor.

Dial

This is used for editing the drum kits and the settings.

You can also turn the dial while holding down the [SHIFT] button to make the values change in larger increments.

10

[EXPANSION] button

Use this button to configure the Instrument Expansions (drum kit and instrument packages) as well as the Kit Packs (drum kit and custom sample packages) that you've installed on the V51 from Roland Cloud (p. 13).

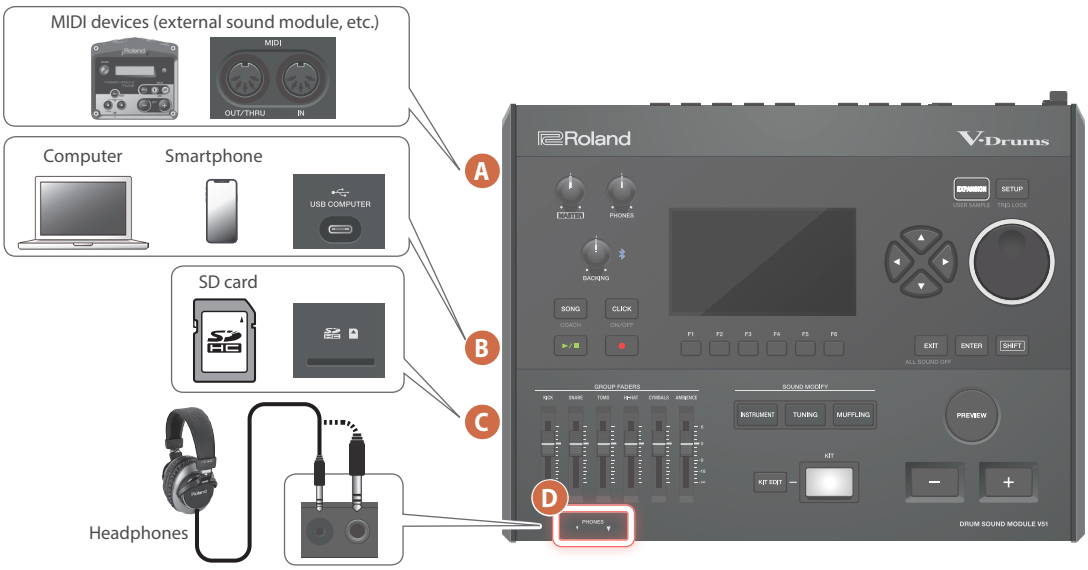
Press the [EXPANSION] button while holding down the [SHIFT] button to use the User Sample function (p. 26).

[SETUP] button

The SETUP screen appears (p. 33).

Also, if you press the [SETUP] button while holding down the [SHIFT] button, striking the pads does not switch between the pads to be set (trigger lock). This is useful if you want to play a phrase while configuring the pads.

Side panel and front panel



A MIDI connectors

Connect this to an external MIDI device such as an external sound module.

B USB COMPUTER port

Connect your computer or smartphone to the V51 with a USB cable. You can use DAW software to record what you play on the V51 as audio or MIDI data, or you can use the V51 to hear sound that's played back from your computer (p. 33).

You can use the "V51 Editor" app to edit drum kits on your computer (p. 34).

* Do not use a USB cable that is designed only for charging a device. Charge-only cables cannot transmit data.

C SD card slot

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

You can save the songs and data from the V51 to an SD card. You can also use an SD card to import user samples, export the songs that you recorded and so on.

Before using an SD card for the first time, you must format it on this unit (p. 30).

* Never turn off the power or remove the SD cards 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.

D PHONES jack

Connect your headphones here.

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

Bottom panel

Mounting the unit onto a stand

Use the included sound module mounting plate to attach the V51 to the drum stand.

Use the screws at the bottom of the V51 to mount the sound module as shown in the illustration.

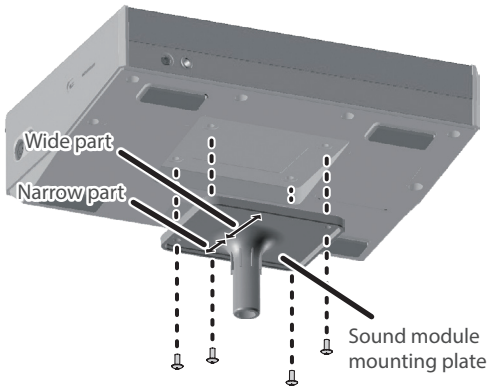
* Use a Phillips screwdriver of the appropriate size for each screw (#2).

* Do not use screws other than those on the bottom of the V51. Doing so may cause a malfunction.

* The All-Purpose Clamp (APC Series, sold separately) cannot be used to mount the V51.

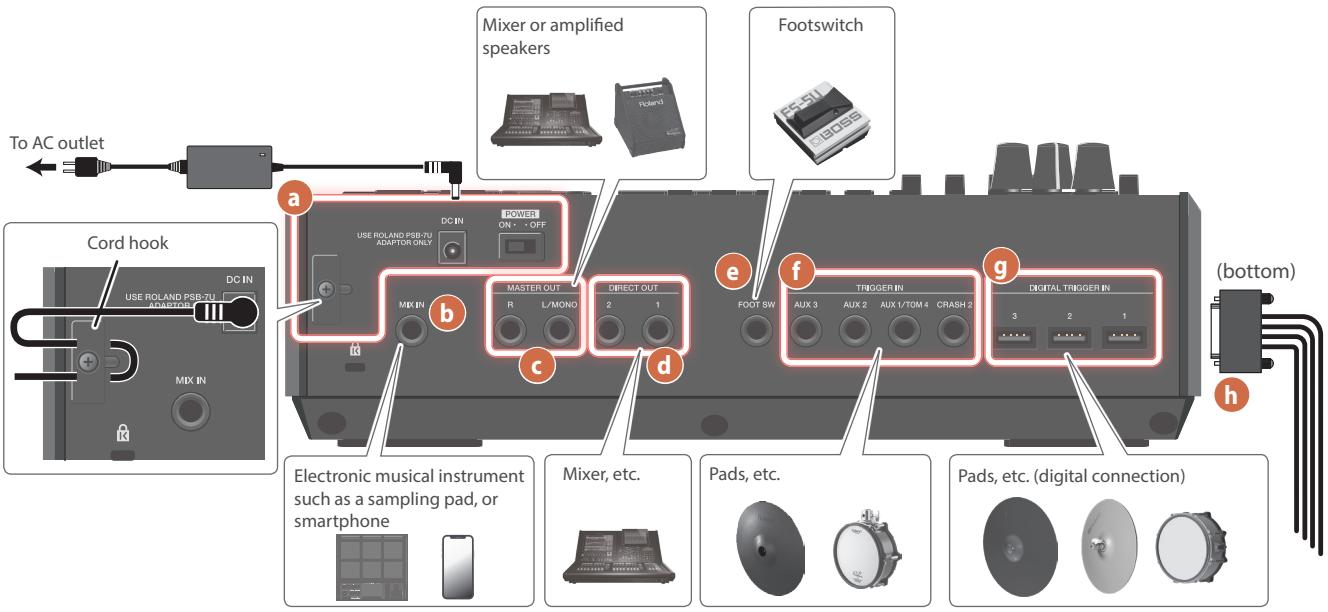
* When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.

* When attaching the mounting pipe, take care not to get your fingers pinched between the movable part and the unit. In places where small children are present, make sure that an adult provides supervision and guidance.



Rear panel (connecting your equipment)

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



a

[POWER] switch

Turns the power on/off.

DC IN jack

Connect the included AC adaptor to this jack.

* Use the cord hook to secure the cord of the AC adaptor as shown in the illustration.

b MIX IN jack

Connect an electronic musical instrument such as a sampling pad, or a smartphone here.

c MASTER OUT jacks

Connect these to your mixer, amplified speakers, recording equipment and similar devices.

To output in mono, connect only the L/MONO jack of the MASTER OUT.

d DIRECT OUT jacks

Connect these to your mixer or other audio device.

Use the [SETUP] button to configure which of the DIRECT OUT 1, 2 jacks are used for outputting each instrument and so forth.

e FOOT SW jack

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

f TRIGGER IN jacks

You can add more pads, which are sold separately.

AUX 1/TOM 4, AUX 2, AUX 3

Connect to these jacks when adding more pads.

When connecting pads to be used for the toms, use this jack.

CRASH 2

Connect a crash cymbal pad here.

g DIGITAL TRIGGER IN ports

Connect pads that support digital connections (such as the PD-14DSX, CY-18DR or VH-14D) here.

You can also use the separately sold DWe DrumLink™ hub to connect the pads wirelessly. For details, refer to the "Reference Manual" (Roland website).

h TRIGGER INPUT connector (bottom)

Use the included dedicated connection cable for connecting to pads and pedals. Pads and pedals are sold separately.

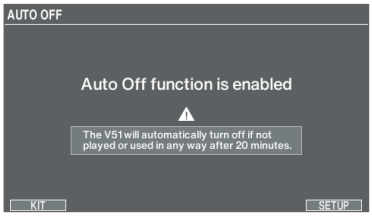
Turning the power on/off

* 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 power on

1. **Turn the volume of the V51 and the connected devices all the way down.**
2. **Turn the [POWER] switch of the V51 to the "ON" setting.**

   When you turn the unit on, the following screen appears.



* If the Auto Off function is set to "OFF", this screen doesn't appear.
* To change the Auto Off function settings, press the [F6] (SETUP) button. For details, refer to "Making the power automatically turn off after a time (AUTO OFF)" (p. 6).

3. **Press the [KIT] button to return to the KIT screen.**
4. **Turn on the connected devices and adjust the volume.**

Turning the power off

NOTE

Settings that you edit on the V51 are saved when you turn off the unit. Be sure to turn off the unit by turning the [POWER] switch to "OFF".

1. **Turn the volume of the V51 and the connected devices all the way down.**
2. **Turn off the connected devices.**
3. **Turn the [POWER] switch of the V51 to the "OFF" setting.**

   The message "Please wait. Now saving..." is shown, and the power turns off once the settings are saved.

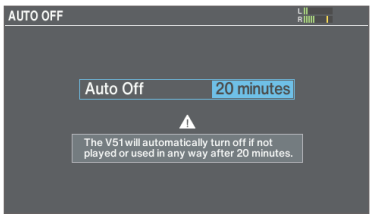
Making the power automatically turn off after a time (AUTO OFF)

The power to this unit turns off automatically to save energy after a certain amount of time (20 minutes by default) has passed since it was last used or since its buttons or controls were operated.

* If you don't want the unit to turn off automatically, turn this setting off. Note that when the setting is turned off, the unit may consume more power.
* You can simply turn the power back on after it has turned off automatically.

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "AUTO OFF", and press the [ENTER] button.**

   The AUTO OFF screen appears.



3. **Use the [–] [+] buttons or the dial to set the auto-off function.**

Value	Explanation
OFF	The power does not turn off automatically.
20 minutes (factory setting)	Turns the power off automatically when no pad has been struck and no operation performed within the specified time (20 minutes or 4 hours).
4 hours	

* A confirmation message appears if you select a value besides "20 minutes". Select "OK" and press the [ENTER] button.

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

MEMO

If you set the Auto Off function to "20 minutes" or "4 hours", the remaining time before the unit turns off is shown either 10 minutes (for the "20 minutes" setting) or 30 minutes (for the "4 hours" setting) before the unit turns off.

Configuring the hi-hat

If you're using a V-hi-hat (such as a VH-14D or VH-10), adjust the offset on the V51.

This is necessary to correctly detect open/close operations and pedal movement.

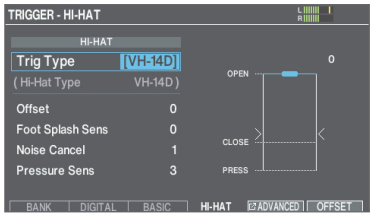
Example: settings for the VH-14D

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "TRIGGER" and press the [ENTER] button.**
3. **Press the [F4] (HI-HAT) button.**

   The TRIGGER - HI-HAT screen appears.

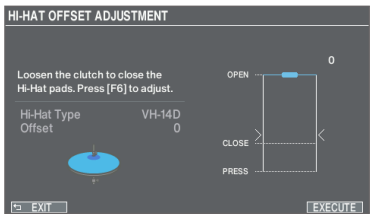
   Make sure that Trig Type is set to "VH-14D".

* "VH-14D" is not shown for the Trig Type if the VH-14D is not connected or if it is not assigned to the hi-hat. If this happens, connect the VH-14D and assign it to the hi-hat (p. 29).



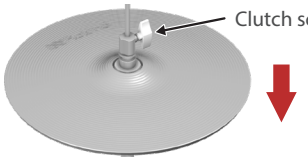
4. **Press the [F6] (OFFSET) button.**

   The HI-HAT OFFSET ADJUSTMENT screen appears.



5. **Loosen the clutch screw of the VH-14D so that the hi-hat is closed.**

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



6. **Press the [F6] (EXECUTE) button.**

   "Processing..." is shown once calibration begins.

   "Complete!" is shown once calibration is finished, and the display returns to the TRIGGER screen.

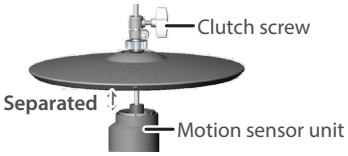
7. **Press the [KIT] button to return to the KIT screen.**

   Make detailed adjustments to the parameters as necessary.

   ➡ Reference Manual (Roland website)

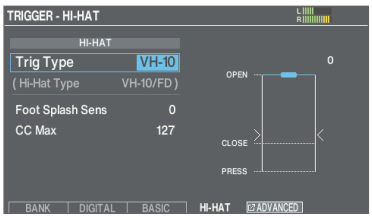
Example: settings for the VH-10

1. **With the hi-hat completely separated from the motion sensor unit, turn the unit on.**



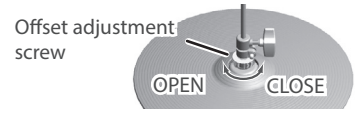
2. **Loosen the clutch screw of the VH-10 so that the hi-hat rests naturally on the motion sensor unit.**
3. **Press the [SETUP] button.**
4. **Use the cursor buttons to select "TRIGGER" and press the [ENTER] button.**
5. **Press the [F4] (HI-HAT) button.**

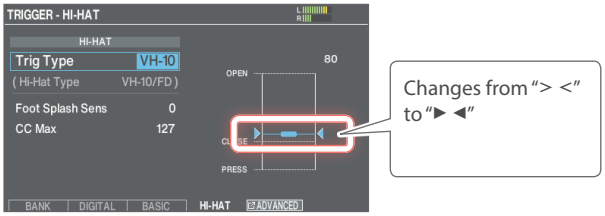
   The TRIGGER - HI-HAT screen appears.



6. **Use the [–] [+] buttons or the dial to set the Trig Type to "VH-10".**
7. **While reading the meter displayed on the right side of the screen, adjust the offset with the VH-10's offset adjustment screw.**

   Adjust the offset so that the ▶ ◀ mark appears on the meter.





8. **Tighten the clutch screw at a position where the hi-hat sways naturally when struck.**
9. **Press the [KIT] button to return to the KIT screen.**

   Make detailed adjustments to the parameters as necessary.

   ➡ Reference Manual (Roland website)

Performance techniques

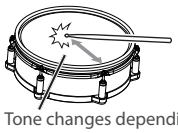
As with an acoustic drum kit, the V51 supports a variety of playing techniques.

NOTE

- Use wood or plastic sticks. Using carbon or metal sticks might make the sensors malfunction.
- Use nylon brushes. Using metal brushes might make the sensors malfunction or scratch the pad.

Pads

Head shot

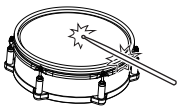


Tone changes depending on strike point

Strike the head of the pad.

When you are using certain snare sounds with pads that detect the strike point (such as the PD-12P), the tone changes naturally as you move the strike point from the center of the head toward the rim.

Rim shot



Strike the head and the rim together.

This gives you a different sound (a rim tone) from head shots.

Cross stick

(PD-14DSX, PD-140DS)

(PD-12P or similar)

You can make the sound differ depending on your playing technique. For example, you can hear a rim sound when playing a rim shot, or a cross-stick sound when playing with a cross-stick technique.

Connect a digitally-connected pad that supports the cross stick technique (such as the PD-14DSX or PD-140DS) or connect a pad that supports rim shots (such as the PD-12P) to "SN" on the dedicated connection cable, and assign it to the snare.

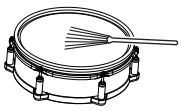
PD-14DSX, PD-140DS:

Strike the rim while placing your hand on the snare head.

PD-12P and similar:

Strike the rim only—do not touch the head.

Playing with brushes



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

Either connect a pad (such as a PD-12P) with a mesh head to "SN" of the dedicated connection cable, or connect a pad (such as the PD-14DSX or PD-140DS) that supports digital connection and assign it to the snare.

* For drum kits on which the snare brush sound is assigned, you can use the brush sweep technique when Brush Switch is "ON".

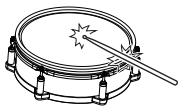
For details, refer to the "Reference Manual" (Roland website).

Changing the tone according to the nuances of the rim shot

When you are using certain snare sounds with pads that detect the strike point (such as the PD-12P), the nuance of the sound changes when you slightly change how you play the rim shots.

Normal rim shot

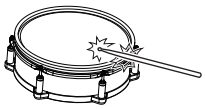
(Open rim shot)



Strike the center of the head and the rim at the same time.

Shallow rim shot

(Shallow rim shot)



Strike the head near the rim and the rim itself at the same time.

The tom sound does not support the use of the shallow rim shot technique.

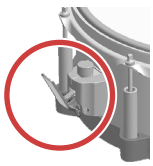
Using the strainer (PD-14DSX)

For snares with a strainer (throw-off) lever (the PD-14DSX), operate the strainer lever to "attach" the snare wires to the snare (bottom side; ON) or to "detach" them (OFF) for a specific snare sound.

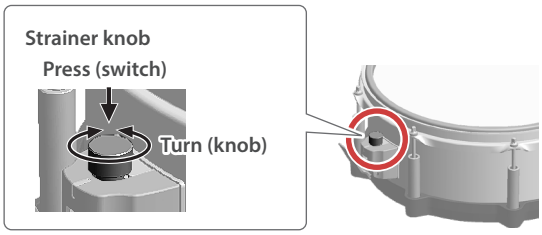
The volume of the operating sound changes according to how fast you operate the lever. Aside from the snare wire operation, you can also assign functions to the strainer for controlling effects and so on.

On

Off



You can assign a variety of functions to the strainer, such as turning the strainer knob to adjust the tension of the snare wires, or pressing the knob to play or stop a song.



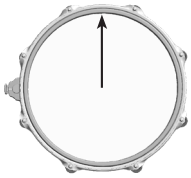
➡ For details, refer to the "Reference Manual" (Roland website).

How strike points are detected on digital drums

For digitally connected pads, the unit detects the position at which you strike the pad (positional sensing).

Here is an example. On the snare drum, the sound changes according to the strike position, such as when striking the center of the pad face versus the edge, or the right side versus the left side.

Center versus edge of pad face



Position struck on pad face

Hi-hat

Open/closed

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

You can also play a foot-close sound by pressing the pedal, or a foot-splash sound by pressing the pedal and then immediately opening it.

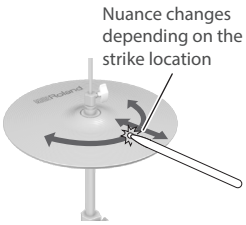
Pressure

(VH-14D, VH-13)

When you strike the hi-hat while pressing on the pedal with the hi-hat closed, the closed hi-hat tone changes in response to how hard you press down on the pedal.

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

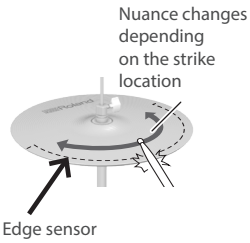
Bow shot



This is the technique used when striking the surface 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

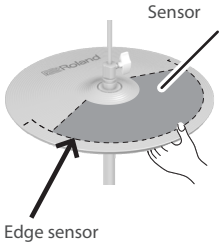


This technique involves striking the edge of the top cymbal with the shoulder of the stick. When the edge sensor position is struck as shown in the illustration, the "rim side" sound of the connected trigger input is triggered.

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 with some hi-hat sounds, depending on where you strike the edge.

Choke



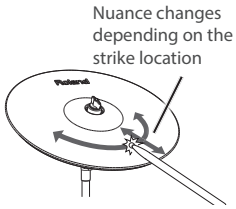
If you use your hand to choke (grasp) the edge sensor after striking the hi-hat cymbal, the sound stops.

On the VH-14D, the sound stops if you place your hand on (mute) the sensor detection area.

When you strike the cymbal in the choked or muted state, a shorter sound plays.

Cymbal

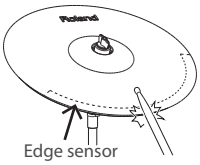
Bow shot



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

For certain ride sounds, the tonal nuance changes depending on where you strike the bow.

Edge shot

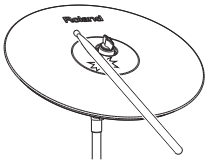


This playing method involves striking the edge of the cymbal with the shoulder of the stick. When the edge sensor position is struck as shown in the illustration, the "rim side" sound of the connected trigger input is triggered.

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 CY-18DR), the nuances of the sound change depending on where you strike the edge.

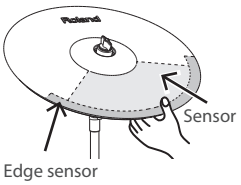
Bell shot



This playing method involves striking the bell of the cymbal. When the bell area shown in the illustration is struck, the bell sound is heard.

Either connect a pad that supports ride three-way triggering (such as the CY-14R-T) to "RD" and "RDB" of the dedicated connection cable, or connect a pad that supports digital connection and lets you play bell shots (such as the CY-18DR), and assign it to the ride.

Choke



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

On the CY-18DR, placing your hand on the sensor also stops the sound.

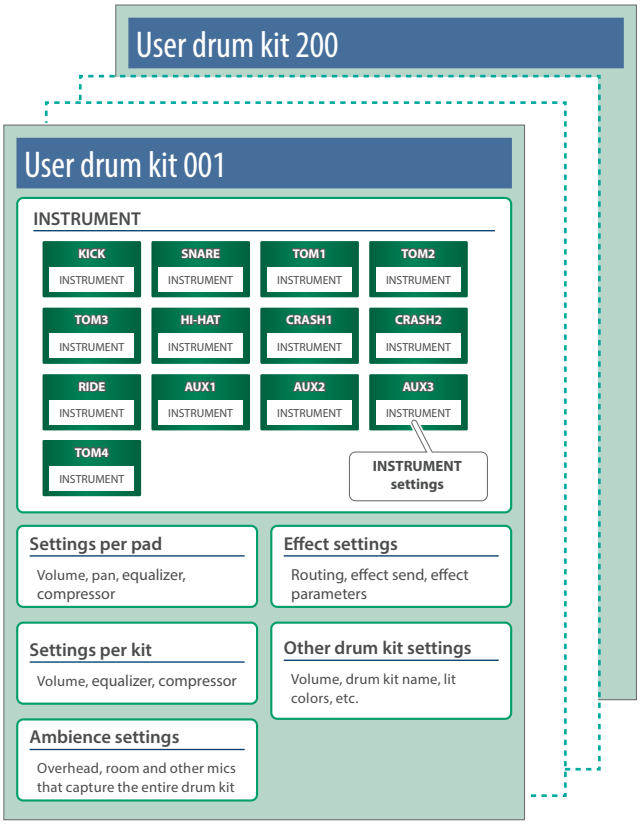
When you strike the cymbal in the choked or muted state, a shorter sound plays.

Overview of the V51

Drum kits and instruments

On the V51, the sounds that play when you strike each pad are called "instruments". A set of sounds (instruments) allocated to the respective pads is called a "drum kit".

The structure of a drum kit is shown below.



MEMO

For details on the drum kit parameter structure, refer to "Data List" (Roland website).

Instrument Expansions

In addition to the built-in preset instruments and drum kits, Roland also offers Instrument Expansions.

An Instrument Expansion is a package containing multiple drum kits, along with advanced modeled sounds called "instruments" that include sample waveforms.

The following Instrument Expansions are available from Roland Cloud.

- Famous drums such as DW
- Sounds from past V-Drums flagship models
- Sounds created in collaboration with artists

Kit Packs

Kit Packs are drum kit packages completed by pro drummers using custom samples that were created by audio engineers.

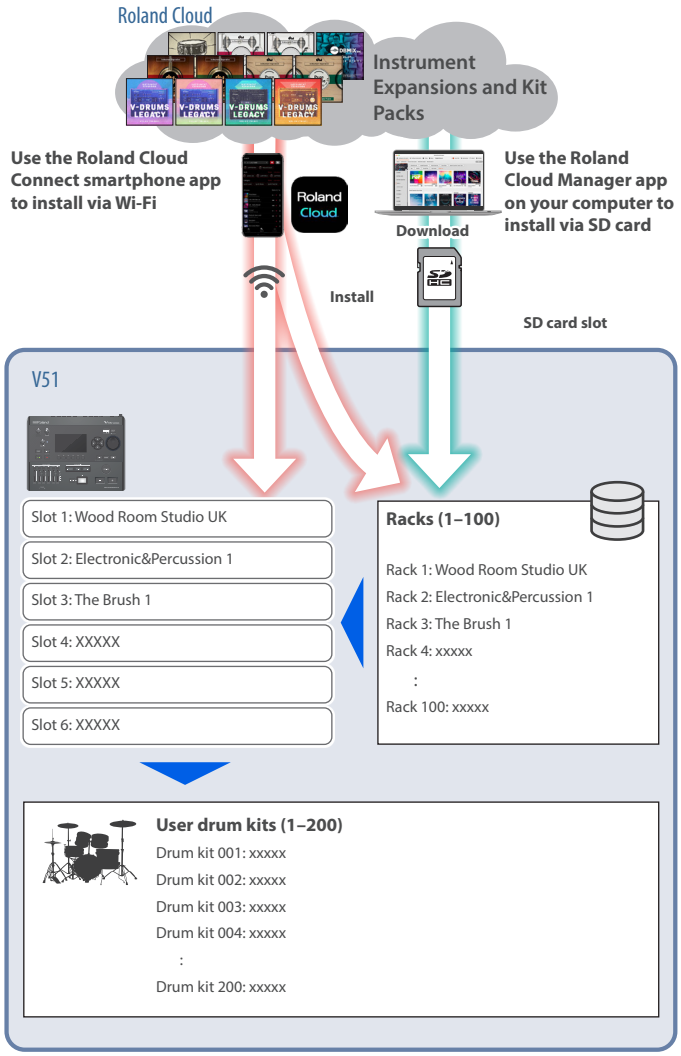
The following Kit Packs are available from Roland Cloud.

- Drum kits that recreate famous songs from rock, pop and other genres

Racks and slots

Various Instrument Expansions and Kit Packs are available from Roland Cloud.

Use the Roland Cloud Connect smartphone app or the Roland Cloud Manager app for your computer to install these Instrument Expansions and Kit Packs from Roland into the "racks" of the V51, and load them into the slots.



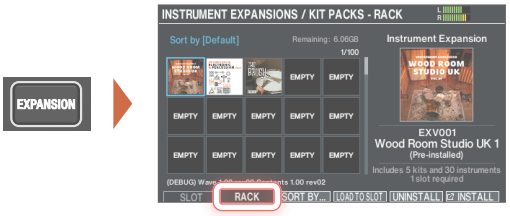
MEMO

- See the "Roland Cloud Connect Setup Guide" (separate document) for how to install Instrument Expansions via the Roland Cloud Connect smartphone app.
- See the "Roland Cloud User's Guide" (Roland website) for how to install Instrument Expansions via the Roland Cloud Manager app on your computer.

* Please be aware that in some countries or regions, it might not be possible to use Roland Cloud at this time.

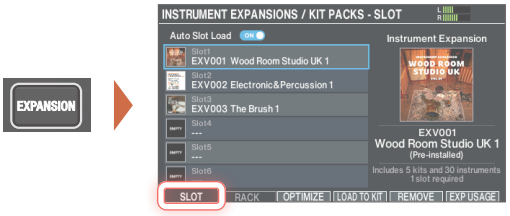
Racks (1–100)

A "rack" is a storage area that lets you install up to 100 Instrument Expansions/Kit Packs.



Slots (1–6)

You can play the Instrument Expansions and Kit Packs that you've installed in a rack by loading them into a "slot" (p. 13). You can load a maximum of six Instrument Expansions/Kit Packs into slots 1–6.



MEMO

Racks and slots 1–3 contain factory preloaded Instrument Expansions.

User drum kits (001–200)

By loading the kits in the Instrument Expansions/Kit Packs that are already in slots 1–6 into user drum kits 001–200, you can quickly call up and play them with the [KIT] button or by selecting from the kit list.

* You can overwrite the factory preset drum kits to save your own kit data. If you want to recall the factory preset drum kits, you can reload the kits all at once, or load individual drum kits. For details, refer to "Restoring the factory settings" (p. 34) and "Restoring the drum kit to factory settings" (p. 35).

Basic operations

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

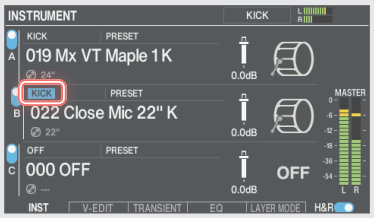
Use the [MASTER] knob to adjust the volume output from the MASTER OUT jacks, and the [PHONES] knob to adjust the headphone volume.

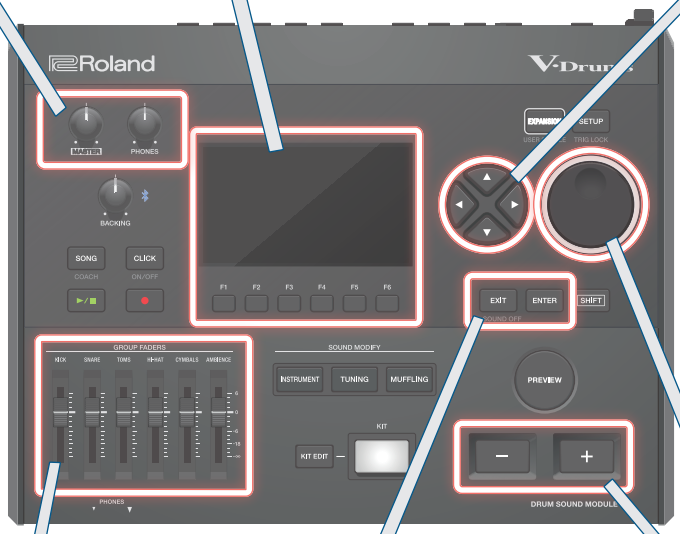
Switching between tabs and setting the functions ([F1]–[F6] buttons)

You can use the [F1]–[F6] buttons to switch between the tabs shown in the lower part of the display, or to set the functions shown in the lower part of the display.

Moving the cursor (cursor buttons)

The cursor highlights the area of the screen where you can change the settings. If there are multiple items on the screen, press the cursor buttons to move the cursor to the item you want to set.





Adjusting the volume balance of the pads (faders)

You can adjust the overall volume balance for the V51 with the faders.
You can adjust the following trigger inputs and volumes.

Faders	Explanation
KICK	KICK
SNARE	SNARE
TOMS	TOM1–4
HI-HAT	HI-HAT
CYMBALS	CRASH1, CRASH2, RIDE, AUX1–3 (*1)
AMBIENCE	AMBIENCE

*1: You can assign the AUX 1–3 to faders other than the CYMBALS. For details, refer to "Data List" (Roland website).

Returning to the previous screen ([EXIT] button)

Press the [EXIT] button to return to the previous screen.

Confirming an operation ([ENTER] button)

Use this to confirm a value, execute an operation or to view a list.

Changing values ([–] [+] buttons or dial)

Use the dial or the [–] [+] buttons to edit the value highlighted by the cursor. Hold down the [SHIFT] button while using these controls to change the value in larger increments.

MEMO

If you hold down the [+] button and press the [-] button, the value increases quickly. If you hold down the [-] button and press the [+] button, the value decreases quickly.

Selecting a drum kit

1. Press the [KIT] button.

The KIT screen appears.

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

About the KIT screen

This is the main screen for the V51, which appears when you press the [KIT] button.

Brush icon
Shown when the Brush Switch is "ON"

Tempo
Shown when the kit tempo is "ON"

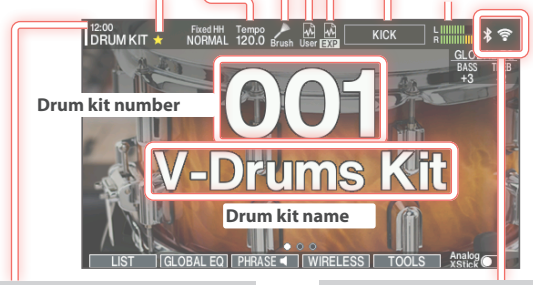
Favorite icon
Shown only if a drum kit registered as a favorite (p. 21) is selected.

User sample icon
Shown when a drum kit that uses user samples (p. 26) is selected

Expansion icon
Shown when a drum kit is selected that uses an instrument from an Instrument Expansion (p. 13)

Currently selected pad

MASTER OUT output volume



Drum kit number

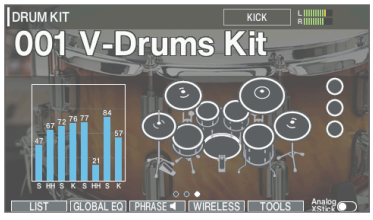
Current time
Shown when connected via Wi-Fi

Bluetooth icon
Shown when connected via Bluetooth

Wi-Fi icon
Shown when connected via Wi-Fi

MEMO

Press the [◀] [▶] button on the KIT screen to display the output volume and trigger signal level meters in the KIT screen.



Selecting a drum kit from the list

On the KIT screen, press the [F1] (LIST) button to display the KIT LIST window, and select a drum kit from the list.

Loading drum kits from Instrument Expansions and Kit Packs

Slots 1–3 contain factory preloaded Instrument Expansions.

Here's how to import a drum kit from an Instrument Expansion.

The drum kits in the Kit Packs can also be loaded using the same steps.

1. Press the [EXPANSION] button.

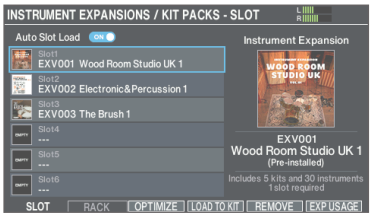
MEMO

The first time you do this, the Roland Cloud introductory screen appears. Follow the steps in the "Roland Cloud Connect Setup Guide" (separate document) to connect to Roland Cloud.
Press the [F6] (SKIP) button if you want to configure this later.

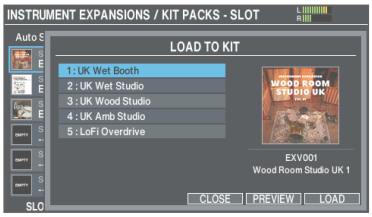
* If you press the [F1] button, this screen is not shown again. If you want to return to the screen, press the [F5] (Roland Cloud) button on the INSTRUMENT EXPANSIONS/KIT PACKS screen while holding down the [SHIFT] button.

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

The INSTRUMENT EXPANSIONS / KIT PACKS - SLOT screen appears.

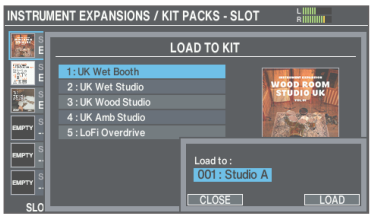


3. Move the cursor to the Instrument Expansion that you want to load, and press the [F4] (LOAD TO KIT) button.



Press the [F5] (PREVIEW) button to check the sound of a drum kit before you load it.

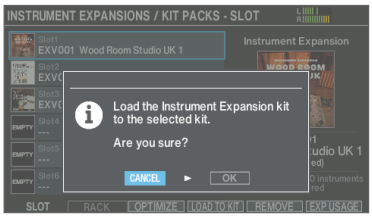
4. Move the cursor to the drum kit of the Instrument Expansion that you want to load, and press the [F6] (LOAD) button.



5. Use the [–] [+] buttons or the dial to select the destination drum kit to which you want to load.

6. Press the [F6] (LOAD) button.

A confirmation message appears.



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

This loads the drum kit.

MEMO

See the "Roland Cloud Connect Setup Guide" for how to install Instrument Expansions from Roland Cloud.

Using the click sound

Turning the click on/off

1. Press the [CLICK] button.

The CLICK screen appears.

2. Press the [F6] button.

The click sounds.

To adjust the click track volume, turn the [BACKING] knob.

3. Press the [F6] 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.
- You can also output the click only to headphones.

  ➡ Reference Manual (Roland website)

Adjusting the tempo

1. From the CLICK screen, select "Tempo", and use the [–] [+] buttons or the dial to change the tempo.

MEMO

- Turn the dial while holding down the [SHIFT] button to change the values in decimal points.
- You can specify the tempo by pressing the [F4] (TAP TEMPO) button at the desired timing (tap tempo).

Changing the beat (time signature) settings

1. From the CLICK screen, select "Beat", and use the [–] [+] buttons or the dial to change the beat.

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

For other settings, see the "Reference Manual" (Roland website).

Playing along with a song

You can enjoy playing the drums along with songs played back on your smartphone, or with songs that can be played back on this unit.

Playing along with a song from your smartphone

You can play along with a song on your smartphone that plays through this unit.

Connecting wirelessly via Bluetooth

In order to connect your smartphone wirelessly to this unit via Bluetooth, you'll need to "pair" by registering it in your smartphone so that the two devices can authenticate with each other.

As an example, we explain how to make settings for an iPhone.

* Once a smartphone has been paired with this unit, there is no need to perform pairing again. Refer to "Connecting an already-paired smartphone" (p. 15).

Registering the smartphone (pairing)

1. Place the smartphone that you want to connect near the V51.

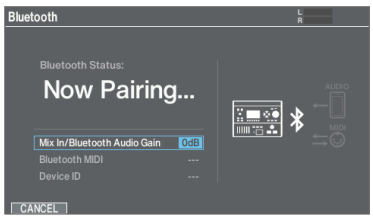
2. Press the [SETUP] button.

3. Use the cursor buttons to select "Bluetooth", and press the [ENTER] button.

4. Press the [F6] (Bluetooth) button to turn Bluetooth Switch "ON".

5. Press the [F1] (PAIRING) button.

The display indicates "Now Pairing...", and the V51 waits for a response from the mobile device.



6. In your smartphone's settings, turn Bluetooth on.

7. Tap "V51 AUDIO" that appears in the Bluetooth "DEVICES" list on your smartphone.

This pairs the unit with the smartphone. When pairing is completed, a display like the following appears.

Smartphone	"V51 AUDIO" is added to the "My devices" area, and shown as "Connected".
V51	The screen indicates "Connected (AUDIO)".

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

Connecting an already-paired smartphone

1. In your smartphone's settings, turn Bluetooth on.

The smartphone and this unit are connected via Bluetooth.

* If the above step does not establish a connection, tap "V51 AUDIO" as shown in the "DEVICES" field on the smartphone.

Playing back songs from your smartphone

When you play back a song on your smartphone, you hear the sound from the headphones or amplified speakers that are connected to this unit.

To adjust the song's volume, use the [BACKING] knob on this unit, the MIX IN/Bluetooth Audio Gain parameter, or adjust the volume on your smartphone.

MEMO

- You can control the song that's playing on your smartphone from this unit. For details, refer to the "Reference Manual" (Roland website).
- The song played back on your smartphone can be recorded along with the sound of your performance on the V51.
- Connect your smartphone to the MIX IN (STEREO) jack to hear the songs playing on your smartphone while you play the sounds on this unit.

* Some smartphones and music playback apps may not let you control the song from the V51.

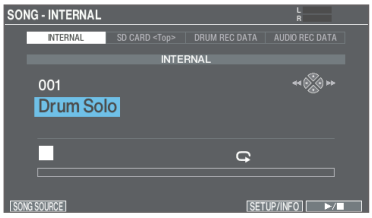
Playing along with the songs on the V51

This unit features songs in a variety of genres.

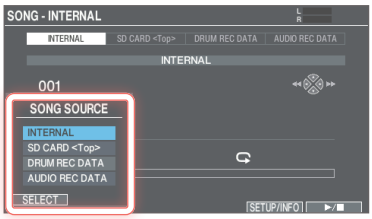
Some of the built-in songs are provided as audio data, and others are MIDI data recordings of drum performances. You can also play audio files (WAV/MP3) stored on an SD card as songs.

1. Press the [SONG] button.

The SONG screen appears.

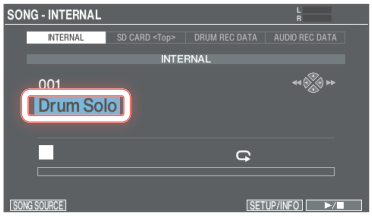


2. Press the [F1] (SONG SOURCE) button to show the SONG SOURCE list, and press the [F1] (SELECT) button to select the type of song you want to play back.



Song type	Explanation
INTERNAL	Built-in songs
SD CARD<Top>	Songs stored on SD card
DRUM REC DATA	Songs for drum performance data recorded on this unit
AUDIO REC DATA	Songs recorded on this unit as audio data

3. Move the cursor to the song, and use the [–] [+] buttons or the dial to select the song.



4. Press the [►/■] button.

The selected song plays.

MEMO

You can also play/stop using the [F6] (►/■) button.

Controller	Function
[►/■] button, [F6] (►/■) button	Plays/stops the song *1
[SHIFT] + [◀] button	Returns to the beginning of the song *1
[SHIFT] + [▶] button	Moves to the end of the song *1
[◀] button	Rewinds the song *1
[▶] button	Fast-forwards the song *1
Dial	Fast-forwards/rewinds the song *1, *2
[BACKING] knob	Adjusts the song (audio file) volume *3

*1: Depending on the type of song, this might be disabled.

*2: Only enabled when the cursor is on the seek bar (the bar that shows the playback position).

*3: This does not affect the drum performance sound of the built-in songs or the recorded drum sounds.

MEMO

- You can repeatedly play back an entire song or just one part.
- You can make the click sound in time with the song by outputting an audio file on the SD card as a click track.

  ➡ Reference Manual (Roland website)

When saving audio files from your computer to an SD card

Audio files can be played back from the top directory (root) of the SD card.

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

* Keep the song length within one hour per file.

MEMO

For details, refer to the "Reference Manual" (Roland website).

Audio files that can be played on the V51

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

* File names or folder names that contain more than 16 characters are not shown correctly. Also, file/folder names with double-byte characters are not supported.

Practicing in coach mode

This unit provides a practice mode called "coach mode", which is designed to make your practice as effective as possible.

This mode is suitable for training your speed control, accuracy and endurance, and helps you to develop good timing.

Coach mode has several parameters that you can adjust, so that you can practice according to your level.

Playing accurately along with phrases (PHRASE TRAINER)

This is a mode where you practice playing exactly along with the phrase.

The V51 includes a variety of phrases that you can use for practice.

1. Press the [SONG] button while holding down the [SHIFT] button.

2. Use the cursor buttons or the dial to select "PHRASE TRAINER", and press the [ENTER] button.

3. Select the phrase to practice.

Select a category: press the [◀] [▶] buttons or the [F1] (CATEGORY) button

Select a phrase: press the [▼] [▲] buttons or use the dial

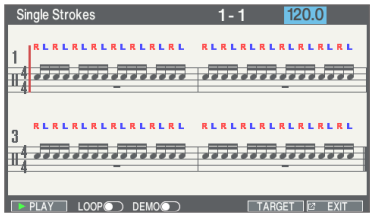
Category	Explanation
Exercises	Phrases suitable for practicing the basics.
Grooves & Fills	Phrases suitable for practicing grooves and fills.

MEMO

- You can press the [F4] (PREVIEW) button to preview the selected phrase.
- By pressing the [F3] (SETUP) button, you can select which drum kit to practice the phrase on, and which marks are used to show the results.
- Press the [F5] (CLICK) button to make the click settings (p. 14).

4. Press the [F6] (START) button.

The score of the phrase is shown.



MEMO

- When playback is stopped, press the [F2] (LOOP) button to turn playback on and practice the phrase repeatedly (loop play).
- To play a demo of the phrase during playback, press the [F3] (DEMO) button to turn it on. The pads you play are muted during demo playback.
- Press the [F5] (TARGET) button to select the pad to practice on.
- You can use the dial to change the practice tempo.

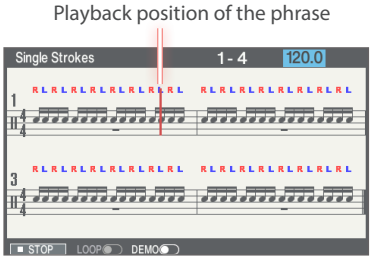
5. Press the [F1] (► PLAY) button to start recording.

MEMO

- To stop during practice, press the [F1] (■ STOP) button.
- You can also play/stop using the [►/■] button.

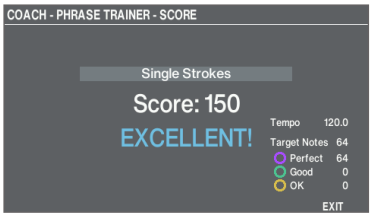
6. Play the pad in time with the phrase.

Playback position of the phrase



After the phrase finishes, the result of how accurately you played the phrase is shown.

The result is not shown when you're playing in a loop.



7. Press the [F6] (EXIT) button to finish.

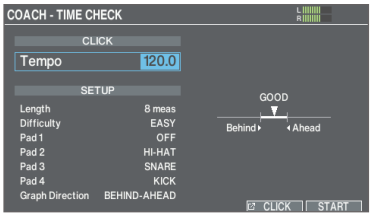
Correctly playing in time with the beat (TIME CHECK)

This mode is for checking how accurate your timing is when you're playing along with the click.

1. Press the [SONG] button while holding down the [SHIFT] button.

2. Use the cursor buttons or the dial to select "TIME CHECK", and press the [ENTER] button.

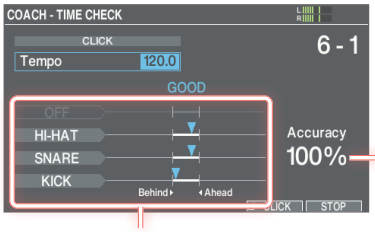
The COACH - TIME CHECK screen appears.



3. Use the [–] [+] buttons or the dial to change the tempo.

4. Press the [F6] (START) button to start.

5. Play the pad in time with the click.



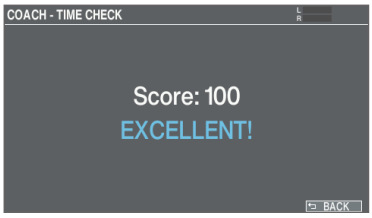
The percentage of your strikes that were played with accurate timing is displayed as a "%" value.

The screen shows whether your playing matches the beat of the click.

Behind: Behind the beat

Ahead: Ahead of the beat

After the click stops, the result of how accurately you played the phrase is shown.



MEMO

To stop during practice, press the [F6] (STOP) button.

6. Press the [F6] (BACK) button to finish.

TIME CHECK settings (SETUP)

Use these settings to change the pads you practice on, the number of measures for practice and so forth.

Parameter	Value	Explanation
Length	4, 8, 16, 32 meas, INF	Specifies the number of measures to practice. When set to "INF", the practice does not stop until you press the [F6] (STOP) button.
Difficulty	Sets the baseline for scoring.	
	EASY	The standard level
	HARD	The timing is checked more strictly.
Pad 1–4	Selects the type of pad used for practice. You can set up to four types.	
Graph Direction	BEHIND-AHEAD	The left side of the timing graph is shown as BEHIND (late).
	AHEAD-BEHIND	The left side of the timing graph is shown as AHEAD (early).

MEMO

Press the [F5] (CLICK) button to make the click settings (p. 14).

Developing a physical sense of tempo (QUIET COUNT)

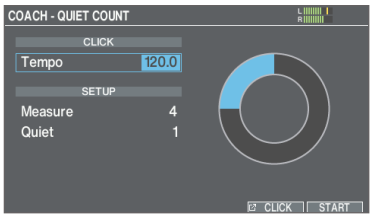
This mode lets you practice maintaining the tempo.

For the first several measures, the click plays at the specified volume, but for the next several measures the click does not play. This cycle of several measures continues until you stop it.

1. Press the [SONG] button while holding down the [SHIFT] button.

2. Use the cursor buttons or the dial to select "QUIET COUNT", and press the [ENTER] button.

The COACH - QUIET COUNT screen appears.

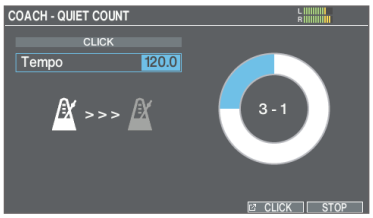


3. Use the [–] [+] buttons or the dial to change the tempo.

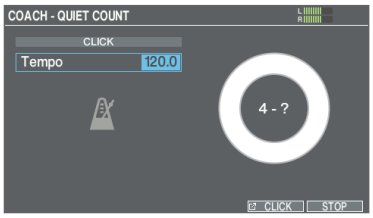
4. Press the [F6] (START) button to start.

5. Strike the pad in time with the click.

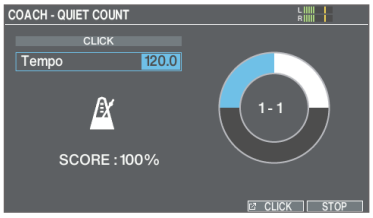
- The click plays during the first several measures. When you reach the last measure during which the click plays, the " >>> " icon is shown onscreen.



- When the click stops playing, the screen indication changes to " ". Keep playing the pads during this time.



- After the quiet time, the proportion of your strikes that were played at an accurate tempo is shown as a "%" value.



6. Press the [F6] (STOP) button to finish.

QUIET COUNT settings (SETUP)

You can change the number of measures and so on that you use for practice.

Parameter	Value	Explanation
Measures	2, 4, 8, 16	Specify the length (measures) of the interval for which the click will alternate between "Sounding" and "Quiet".
Quiet	Of the measures specified by "Measures", this setting specifies the length of the measures that will be "Quiet".	
	RANDOM	The length of the "Quiet" interval randomly changes each time.
	1, 2, 4	Specifies the length (number of measures) of the "Quiet" interval. * This setting cannot be longer than half of the "Measures" value.

MEMO

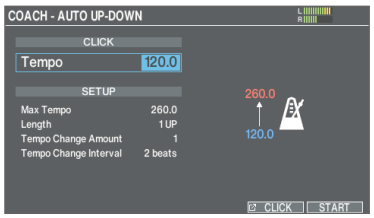
Press the [F5] (CLICK) button to make the click settings (p. 14).

Playing along with a changing tempo (AUTO UP/DOWN)

This mode lets you practice playing along with a changing tempo.

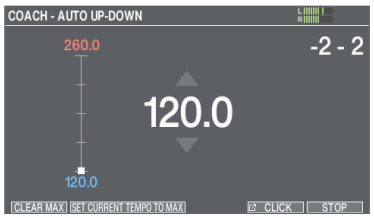
1. **Press the [SONG] button while holding down the [SHIFT] button.**
2. **Use the cursor buttons or the dial to select "AUTO UP/DOWN" and press the [ENTER] button.**

   The COACH - AUTO UP/DOWN screen appears.

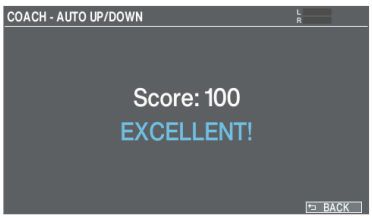


3. **Use the [–] [+] buttons or the dial to set the tempo (start tempo) when you start practicing.**
4. **Press the [F6] (START) button to start.**
5. **Play the pads in time with the changing tempo.**

   The tempo changes between the start tempo and the maximum tempo, according to the Length (p. 19) setting.



After the practice ends, the result of how accurately you played the pads is shown.



MEMO

- To stop during practice, press the [F6] (STOP) button.
- You can set the maximum tempo while hearing the change in tempo. Press the [F1] (CLEAR MAX) button to start practicing with the maximum tempo of 260.0 (maximum), then press the [F2] (SET CURRENT TEMPO TO MAX) button when the desired maximum tempo is reached.

6. **Press the [F6] (BACK) button to finish.**

AUTO UP/DOWN settings (SETUP)

You can change the number of measures and so on that you use for practice.

Parameter	Value	Explanation
Max Tempo	20.0–260.0	The maximum tempo * You cannot set a value lower than the start tempo.
Length	Sets how the tempo changes.	
	1UP	The tempo changes from start tempo to maximum tempo.
	1UP-DOWN	The tempo changes from start tempo to maximum tempo, and then back to the start tempo.
	3UP-DOWN	The tempo changes from start tempo to maximum tempo and then back to the start tempo, and repeats this three times.
	INF	The tempo changes from start tempo to maximum tempo and then back to the start tempo, and repeats this until the [F6] (STOP) button is pressed.
Tempo Change Amount	1, 4, 5, 8, 10, 20	Sets the amount by which the tempo changes.
Tempo Change Interval	2 beats, 1, 2, 4, 8, 16 meas	Sets the interval at which the tempo changes.

MEMO

Press the [F5] (CLICK) button to make the click settings (p. 14).

Playing at a fixed velocity (STROKE MONITOR)

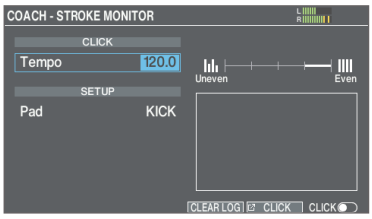
This mode lets you practice playing the pads at a constant velocity, by checking how hard you strike the pads.

Use this when you want to check the difference in how hard you play with your left and right hands, or the difference in how hard you play twin pedals with your left foot and right foot.

1. Press the [SONG] button while holding down the [SHIFT] button.

2. Use the cursor buttons or the dial to select "STROKE MONITOR", and press the [ENTER] button.

The COACH - STROKE MONITOR screen appears.



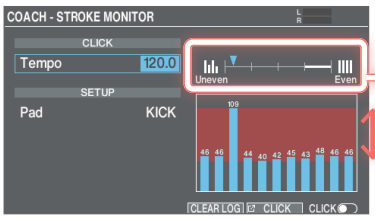
3. Use the cursor buttons and the dial to change the practice settings.

Parameter	Value	Explanation
Tempo	20.0–260.0	Specifies the click tempo. If you want a click to sound, press the [F6] (CLICK) button.
Pad	Selects the pad used for practice.	

MEMO

Press the [F5] (CLICK) button to make the click settings (p. 14).

4. Strike the pad so that you maintain about the same velocity.



The more you strike the pad at a certain velocity, the closer the onscreen meter gets to "Even".

The more you strike the pad with a certain velocity, the narrower the red line is.

MEMO

You can clear the display by pressing the [F4] (CLEAR LOG) button.

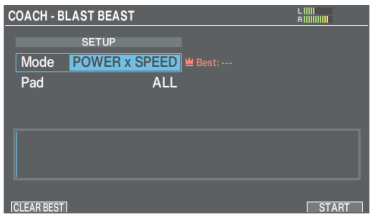
Playing hard and fast (BLAST BEAST)

This mode lets you strike the pads as hard as possible and as fast as you can within 10 seconds, and then check how much you played.

1. Press the [SONG] button while holding down the [SHIFT] button.

2. Use the cursor buttons or the dial to select "BLAST BEAST" and press the [ENTER] button.

The COACH - BLAST BEAST screen appears.



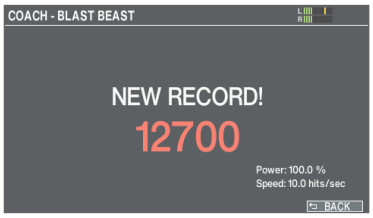
3. Use the cursor buttons and the dial to change the practice settings.

Parameter	Value	Explanation
Mode	This selects the practice mode.	
	POWER x SPEED	Practices the velocity (power) and speed with which you strike the pad.
	SPEED	Practices the speed with which you strike the pad.
Pad	Selects the pad used for practice.	

4. Press the [F6] (START) button to start practicing.

5. Play the pad as hard and fast as you can for 10 seconds.

After 10 seconds has elapsed, the result of how strong and fast you played the pad is shown.



MEMO

- To stop during practice, press the [F6] (STOP) button.
- You can clear (erase) the past high score by pressing the [F1] (CLEAR BEST) button.

Registering/recalling your favorite drum kits

You can register your favorite drum kits and recall them instantly.

Registering a drum kit as a favorite

1. **On the KIT screen (p. 13), press the [F1] (LIST) button.**

   The KIT LIST window appears.

2. **Use the cursor [▼] [▲] buttons or the dial to move the cursor to the drum kit you want to register.**

3. **Press the [F2] (★) button.**

   A star (★) appears next to the drum kit name. The drum kit is now registered as a favorite.

MEMO

To deregister a favorited drum kit, press the [F2] (★) button to hide the "★" mark.

Recalling a registered drum kit

1. **On the KIT screen (p. 13), press the [F1] (LIST) button.**

2. **Press the [F4] (▶ALL ★) button.**

   A list of drum kits registered as favorites is shown.

3. **Use the cursor [▼] [▲] buttons or the dial to select a drum kit.**

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

Recording your performance

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

This lets you make a DRUM REC recording as performance data (MIDI), or an AUDIO REC recording as audio data (WAV).

This section shows an example of the steps for audio recording (AUDIO REC).

For details on MIDI recording (DRUM REC), refer to the "Reference Manual" (Roland website).

Recording audio (AUDIO REC)

Here's how to record your performance as audio data (WAV).

* Before saving to an SD card, make sure that the SD card is inserted (p. 4).

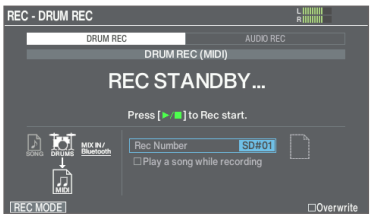
NOTE

When recording in AUDIO REC mode, the recorded data is erased once you exit the AUDIO REC PLAYBACK screen after recording is finished.

Make sure to save any important data to your SD card.

1. **Press the [●] button.**

   The REC screen appears, and the unit enters record-standby mode.



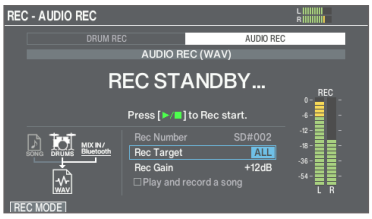
MEMO

If you want to record along with the click, make the click play (p. 14).

2. **Press the [F1] (REC MODE) button to show the REC MODE window.**

3. **Use the cursor [▼] [▲] buttons or the dial to select "AUDIO REC", and press the [F1] (SELECT) button.**

   The REC - AUDIO REC screen appears.



4. Use the cursor buttons and the dial to change the recording settings.

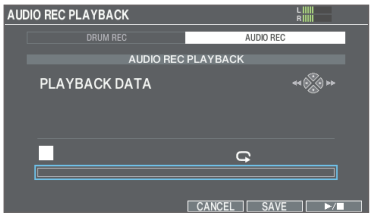
Parameter	Value	Explanation
Rec Number (*1)	TEMPORARY	Records to the temporary memory area on this unit. Up to approximately one minute can be recorded. * This is selected when an SD card is not inserted in the V51.
	SD#001–200	Records to an SD card. Up to approximately 60 minutes can be recorded. * This is selected when an SD card is inserted in the V51.
Rec Target	ALL	The input audio from the MIX IN (STEREO) jack and the playback audio from a smartphone connected via Bluetooth is recorded, in addition to your drum playing.
	DRUMS ONLY	Only your drum playing is recorded.
Rec Gain	-24–+24dB	Adjusts the recording level. Before you start recording, make adjustments while checking the level meter.

*1: Rec Number is set automatically.

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

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

The AUDIO REC PLAYBACK screen appears.



Playback

7. Press the [►/■] button.

The recorded performance plays back.

8. Press the [►/■] button to end playback.

MEMO

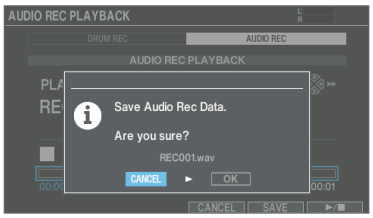
You can also play/stop using the [F6] (►/■) button.

Saving the recorded data to an SD card

If you don't want to save the recorded data, press the [F4] (CANCEL) button to exit recording.

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

A confirmation message appears.



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

10. Select "OK" and press the [ENTER] button.

This saves the recorded data to the SD card.

MEMO

You can also record your drum playing along with a song. For details, refer to the "Reference Manual" (Roland website).

Customizing a drum kit

The V51 lets you shape your sounds in a wide variety of ways, from customizing the sound of the drum itself by changing the head type or shell depth, to adjusting the reverberation.

Saving the settings

Since the V51 automatically saves the values that you change, there's no need to perform a specific operation to save your settings.

Settings are also saved when you turn off the power.

MEMO

- You can temporarily save the drum kit you're now editing, and compare it with the current settings while editing (snapshot function). For details, refer to the "Reference Manual" (Roland website).
- If you want to restore your edited drum kit to its original state, see "Restoring the drum kit to factory settings" (p. 35).

Easily adjusting the instruments (SOUND MODIFY)

On the V51, you can use SOUND MODIFY to easily adjust the instruments.

SOUND MODIFY automatically adjusts the rim settings to match the head settings.

Selecting the instruments

Here's how to configure the snare drum, kick drum and other instrument sounds.

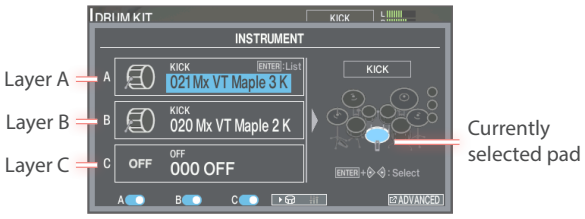
MEMO

You can layer up to three instruments (layers A–C) per pad (each trigger such as the head, rim and so forth) on the V51.

➡ Refer to the "Reference Manual" (Roland website) for the instruments you can select.

1. Press the [INSTRUMENT] button.

2. Press the [F4] button to show the INSTRUMENT window.



3. Select the pad you want to configure (see the inset article on this page).

4. Press the cursor buttons to move the cursor to the instrument.

5. Use the [–] [+] buttons or the dial to select the instrument.

MEMO

- You can also press the [ENTER] button to select an instrument from the list.
- Press the [F1] (A)–[F3] (C) buttons to turn each layer on/off.
- Press the [F5] (UNDO) button to return to the settings you had when you first accessed the screen.
- You can also press the [F6] (ADVANCED) button to make detailed edits to an instrument. For details, refer to the "Reference Manual" (Roland website).

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

Selecting the pads to set

Selecting by striking the pad

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

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

Select pad by holding down the [ENTER] button and pressing the [◀] [▶] buttons

You can also select the pad to configure by holding down the [ENTER] button and pressing the [◀] [▶] buttons.

Select head/rim by holding down the [ENTER] button and pressing the [▼] [▲] buttons

You can also select the head/rim to configure for the pad to set by holding down the [ENTER] button and pressing the [▼] [▲] buttons.

Previewing the pad sounds ([PREVIEW] button)

Press the [PREVIEW] button to hear the sound of the currently selected pad.

You can adjust the preview volume from the OPTION menu. For details, refer to the "Reference Manual" (Roland website).

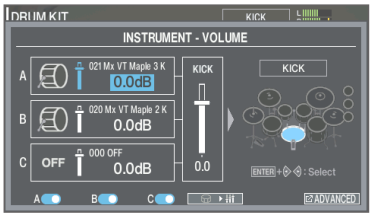
MEMO

- If you press the [SETUP] button while holding down the [SHIFT] button, striking the pads does not switch between the pads to be set. This is useful if you want to play a phrase while configuring the pads (trigger lock).
- Press the [PREVIEW] button while holding down the [SHIFT] button to hear sounds like playing a snare drum closer to the rim, shallow rim and cross-stick shots, closed hi-hats, ride cymbal bells and so on.

Adjusting the volume of an instrument or pad

Here's how to adjust the volume of an instrument or pad.

1. **Press the [INSTRUMENT] button.**
2. **Press the [F4] button to show the INSTRUMENT - VOLUME window.**



3. **Select the pad to configure (p. 23).**
4. **Use the cursor buttons to select a parameter, and use the [–] [+] buttons or the dial to edit the value.**

MEMO

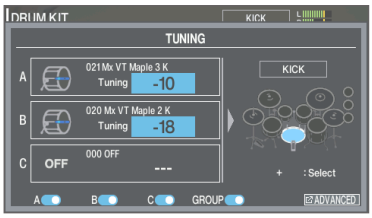
Press the [F5] (UNDO) button to return to the settings you had when you first accessed the screen.

Tuning

You can tune the heads and choose the size of the cymbals.

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

The TUNING window appears.



2. **Select the pad to configure (p. 23).**
3. **Use the [–] [+] buttons or the dial to edit the values.**

MEMO

- By pressing the [F4] (GROUP) button, you can set the instruments (layers A–C) either as a set (on) or individually (off).
- Press the [F5] (UNDO) button to return to the settings you had when you first accessed the screen.
- You can also press the [F6] (ADVANCED) button to make detailed edits to an instrument. For details, refer to the "Reference Manual" (Roland website).

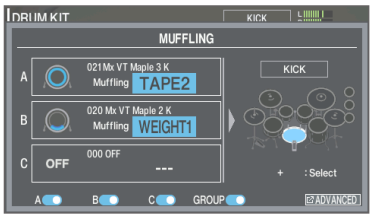
4. **Press the [KIT] button to return to the KIT screen.**

Muffling (mute) settings

You can configure how to muffle (mute) the pads.

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

The MUFFLING window appears.



2. **Select the pad to configure (p. 23).**
3. **Use the [–] [+] buttons or the dial to edit the values.**

MEMO

- By pressing the [F4] (GROUP) button, you can set the instruments (layers A–C) either as a set (on) or individually (off).
- Press the [F5] (UNDO) button to return to the settings you had when you first accessed the screen.
- You can also press the [F6] (ADVANCED) button to make detailed edits to an instrument. For details, refer to the "Reference Manual" (Roland website).

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

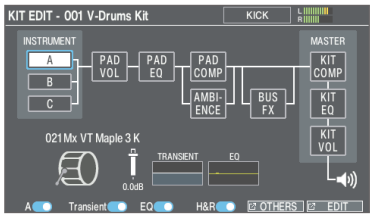
Editing a drum kit (KIT EDIT)

KIT EDIT lets you edit drum kits, including the instrument settings, volume and tone settings for individual pads and the entire drum kit and so on.

➡ For details on KIT EDIT, refer to the "Reference Manual" (Roland website).

1. Press the [KIT EDIT] button.

The KIT EDIT screen appears.



2. Use the cursor buttons or the dial to select the item that you want to edit, and press the [F6] (EDIT) button.

Item	Explanation
INSTRUMENT A–C	Configures the instruments.
PAD VOL	Sets the volume and pan for each pad.
PAD EQ	Configures the equalizer for each pad.
PAD COMP	Configures the compressor for each pad.
AMBIENCE	Sets the ambience to simulate the sound of playing in a specific location.
BUS FX	Configures the effects to apply to each pad.
KIT COMP	Configures the compressor for the entire drum kit, on a kit-by-kit basis.
KIT EQ	Configures the equalizer for the entire drum kit, on a kit-by-kit basis.
KIT VOL	Sets the drum kit volume.

3. Edit the settings for the selected item.

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

Configuring other drum kit settings (KIT OTHERS)

Here's where you can configure the various drum kit-related parameters such as drum kit volume, controller LED color and so on.

➡ For details on KIT OTHERS, refer to the "Reference Manual" (Roland website).

1. On the KIT EDIT screen (p. 25), press the [F5] (OTHERS) button.

The KIT OTHERS screen appears.

2. Use the cursor buttons or the dial to select the menu that you want to edit, and press the [ENTER] button.

Menu	Explanation
XSTICK	Sets the cross-stick volume.
STRAINER	Configures the strainer settings.
SNARE BUZZ	Sets the resonance that's applied to the snare.
KIT VOLUME	Sets the drum kit volume.
KIT NAME	Edits the name of the drum kit.
MUTE GROUP	Sets the mute group.
KIT MIDI	Configures the MIDI-related settings for the drum kit.
KIT COLOR	Sets the LED color for the buttons and dial.
POSITION/PEDAL	Adjusts the on/off setting for the change in sound according to the strike point or rim shot; the strike point area for the head, rim and so forth; and the amount of pitch change according to how hard you press the hi-hat pedal.
KIT OPTION	Sets the brush, drum kit tempo, KIT screen view and so on.

3. Edit the settings according to the selected menu.

4. Press the [KIT] button to return to the KIT 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 V51 and played as instruments (with the User Sample function). You can adjust the sound of a user sample and apply effects to it in the same way as with other instruments.

Audio files that can be loaded into the V51

	WAV
Format (extension)	WAV (.wav)
Sampling frequency	44.1, 48, 96 kHz
Bit rate	16, 24 or 32 bits
Time	Maximum of 180 seconds

* File or folder names that contain 31 characters or more do not display correctly. Also, file/folder names with double-byte characters are not supported.

Importing an audio file

Here's how to import an audio file into the V51 as a user sample.

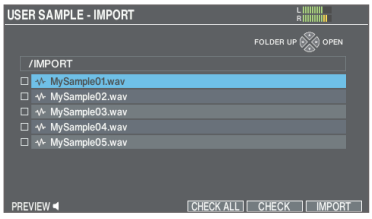
1. Insert the SD card into the V51 (p. 4).

2. Press the [EXPANSION] button while holding down the [SHIFT] button.

The USER SAMPLE LIST screen appears.

3. Use the cursor buttons to select the import destination number, and press the [F6] (IMPORT) button.

The USER SAMPLE IMPORT screen appears.



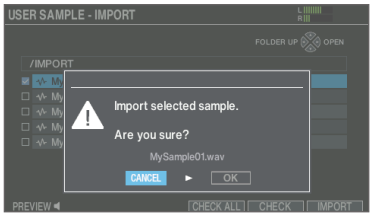
* If you select a number in which data already exists, the message "User Sample already exists!" appears. Select a number that contains no data.

4. Use the cursor buttons to select an audio file, and press the [F6] (IMPORT) button.

Cursor buttons	Function
[▲] button	Moves cursor (up)
[▼] button	Moves cursor (down)
[◀] button	Closes (exits) the folder
[▶] button	Opens (enters) the folder

5. Press the [F6] (IMPORT) button.

A confirmation message appears.



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

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

The audio file is imported.

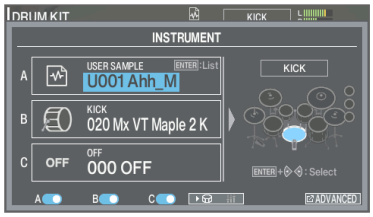
MEMO

This unit can also import a group of audio files. For details, refer to the "Reference Manual" (Roland website).

Assigning a user sample to an instrument and playing it

1. **Press the [INSTRUMENT] button.**
2. **Press the [F4] button to show the INSTRUMENT window.**
3. **Select the pad to configure (p. 23).**
4. **Press the [ENTER] button.**
   The INST LIST window appears.
5. **Use the [F5] (GROUP>) button to select the "USER SAMPLE" instrument group, and use the cursor [▼] [▲] buttons to select the user sample.**

6. **Press the [F6] (CLOSE) button.**

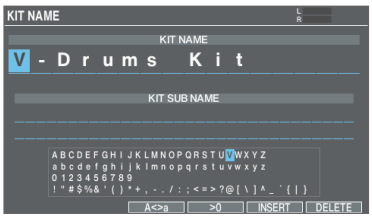


7. **Press the [KIT] button to return to the KIT screen.**
   When you strike the pad to which the user sample is assigned, you hear that user sample.

Renaming the drum kit (KIT NAME)

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

1. **Press the [KIT EDIT] button.**
2. **Press the [F5] (OTHERS) button.**
3. **Use the cursor buttons to select "KIT NAME" and press the [ENTER] button.**
   The KIT NAME screen appears.



4. **Edit the name.**
   You can enter a kit name (upper line) of up to 16 characters, and a sub-name (lower line) of up to 64 characters.

Controller	Explanation
Cursor buttons	Move the cursor to the character that you want to change.
[–] [+] buttons, dial	Edits the character.
[F3] (A<>a) button	Toggles between uppercase/lowercase.
[F4] (>0) button	Selects numerical input.
[F5] (INSERT) button	Inserts a space at the cursor position.
[F6] (DELETE) button	Deletes the character at the cursor position.

5. **Press the [KIT] button to return to the KIT screen.**

Configuring the settings

Trigger settings

Here's how to configure the trigger settings, so that the signals from the pads can be accurately processed by the V51.

MEMO

If you have a drum kit (TD513, TD516, or VAD516), the trigger banks are configured at the factory and the following settings are not required.

Specify the pad type

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

Trigger type

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

Trigger bank

A trigger bank contains an entire set of settings for 10 triggers.

MEMO

For more on the trigger banks, refer to the "Reference Manual" (Roland website).

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "TRIGGER", and press the [ENTER] button.**
3. **Press the [F1] (BANK) button.**

   The TRIGGER - BANK screen appears.

   Trigger bank number

   Trigger type

4. **Use the [–] [+] buttons or the dial to specify the trigger bank.**

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

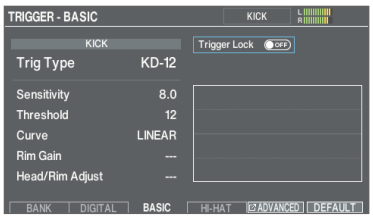
➡ For details on the trigger settings, refer to the "Reference Manual" (Roland website).

Adjusting the sensitivity for individual pads

Here's how to adjust the sensitivity of the pads, to control the balance between how hard you strike the pads and the volume.

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "TRIGGER", and press the [ENTER] button.**
3. **Press the [F3] (BASIC) button.**

   The TRIGGER - BASIC screen appears.



4. **Select the pad to configure (p. 23).**
5. **Press the cursor buttons to select "Sensitivity".**
6. **Use the [–] [+] buttons or the dial to adjust the sensitivity.**

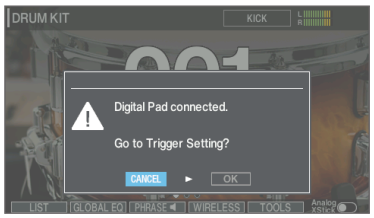
   ➡ For details on adjusting the pad sensitivity, refer to the "Reference Manual" (Roland website).

Configuring pads that support digital connection (sold separately)

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

Following the onscreen instructions, specify the trigger input to which the connected pad should be assigned.

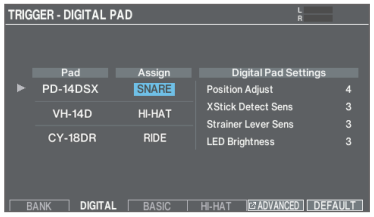
* If you assign the same trigger input used by a pad connected to a TRIGGER INPUT jack, the pad that's connected to that TRIGGER INPUT jack does not output sound.



➡ For details on the pad settings, refer to the "Reference Manual" (Roland website).

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

The TRIGGER - DIGITAL PAD screen appears.



2. Use the cursor buttons to select "Assign" for the pad that you want to configure, and use the [–] [+] buttons or the dial to set the assignment.

When you select a pad, the selected pad's button or indicator blinks.

Setting example:

Pad	Assign
PD-14DSX, PD-140DS	SNARE
CY-18DR	RIDE
VH-14D	HI-HAT

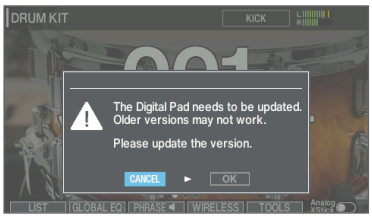
* You can't specify multiple instances of the same assignment.

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

The following screen is shown when you connect a pad that's an older version. Update the pad

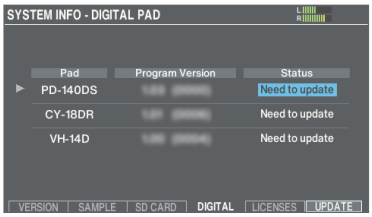
If the following screen appears, the pad may not function properly with the V51 until you update its firmware. Follow the steps below to update the pad.

* You can also connect the pad to your computer to update it. For details, refer to the support page for each pad.



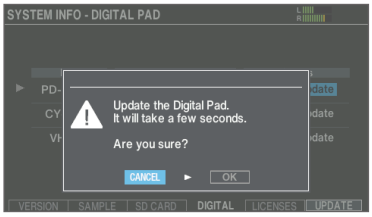
1. Select "OK" and press the [ENTER] button.

The SYSTEM INFO - DIGITAL PAD screen appears.



2. Position the cursor on "Need to update", and press the [F6] (UPDATE) button.

A confirmation message appears.



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

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

The pad update begins.

The update is complete once "Complete!" appears and the status reads "OK".

* The update may take several minutes.

* Never disconnect the digital pads or turn off the power while you see the message "Processing..." on the screen.

* If you unplug a digital pad during the update, or if the update fails due to the power of the V51 being turned off, the V51 may no longer be able to recognize the digital pad. For how to deal with this, refer to the Reference Manual (Roland website).

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

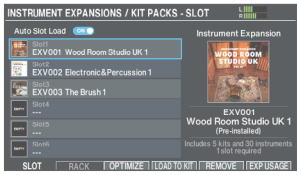
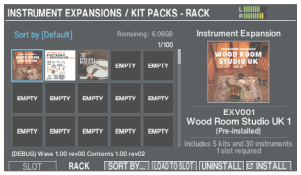
Configuring the Instrument Expansions/ Kit Packs

Here's how to configure the Instrument Expansions (drum kit and instrument packages) as well as the Kit Packs (drum kit and custom sample packages) that you've installed from Roland Cloud.

➡ For details on the settings, refer to the Reference Manual (Roland website).

1. Press the [EXPANSION] button.

2. Press the function buttons to access the respective settings screens.

SLOT screen	Use this screen to manage the Instrument Expansions/Kit Packs assigned to slots 1–6. 
RACK screen	Use this screen to manage the Instrument Expansions/Kit Packs that you install from Roland Cloud. 

3. Edit the settings for the Instrument Expansions/Kit Packs.

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

Importing drum kits and instruments from Roland Cloud

You can use one of the following two methods to install Instrument Expansions (drum kit and instrument packages) and Kit Packs (drum kit and custom sample packages) from Roland Cloud into the V51.

- Install by connecting the V51 to the Roland Cloud Connect smartphone app via Wi-Fi
  ➡ Refer to the "Roland Cloud Connect Setup Guide" (separate document).
- Save the Instrument Expansion/Kit Pack from the Roland Cloud Manager app on your computer to an SD card, and install via SD card
  ➡ Refer to the "Roland Cloud Connect Setup Guide" (Roland website).

Backing up data

All settings stored in the V51 can be saved (backed up) to an SD card, or restored (loaded) back to the V51.

* To back up data to an SD card, first make sure that the SD card is inserted (p. 4).

MEMO

You can also back up or load drum kits individually (p. 32).

Formatting an SD card

Follow these steps to initialize (format) an SD card.

* SD cards must be formatted the first time before they are used on the V51.

NOTE

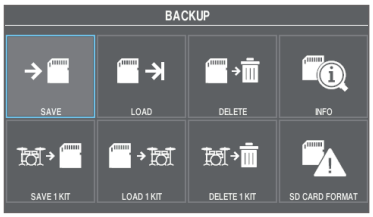
When you format an SD card, all data on the SD card is erased.

1. Insert the SD card into the V51 (p. 4).

2. Press the [SETUP] button.

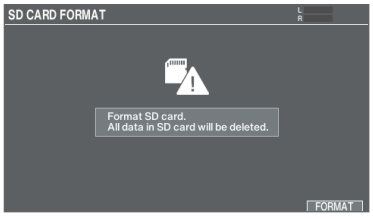
3. Use the cursor buttons to select "BACKUP" and press the [ENTER] button.

The BACKUP screen appears.



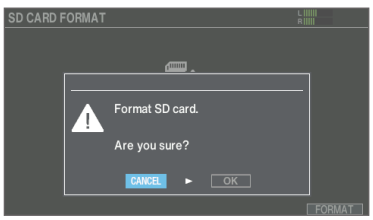
4. Use the cursor buttons to select "SD CARD FORMAT", and press the [ENTER] button.

The SD CARD FORMAT screen appears.



5. Press the [F6] (FORMAT) button.

A confirmation message appears.



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

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

The SD card is initialized.

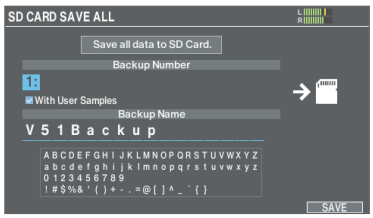
7. Press the [ENTER] button to finish the operation.

Backing up to an SD card (SAVE)

Here's how to save all settings that are stored in the V51 (up to 99 sets).

1. **Insert the SD card into the V51 (p. 4).**
2. **Access the BACKUP screen (p. 30).**
3. **Use the cursor buttons to select "SAVE", and press the [ENTER] button.**

   The SD CARD SAVE ALL screen appears.



4. **Configure the backup.**

   Parameter select: use cursor buttons

   Value select: use [–] [+] buttons or dial

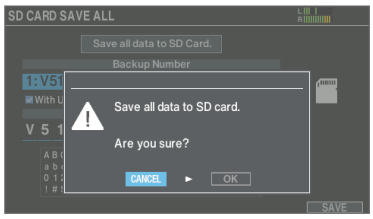
Parameter	Explanation
Backup Number	Selects the backup number.
With User Samples	Selects whether user samples are also backed up.
Backup Name	Adds a name to the backup data.

* 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 the user samples, and you then delete user samples or renumber them in this unit, the drum kit is not reproduced correctly even if you load the backup.

5. **Press the [F6] (SAVE) button.**

   A confirmation message appears.



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

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

   The settings are saved to the SD card.

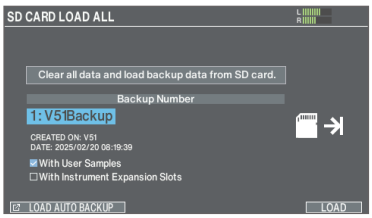
7. **Press the [ENTER] button to finish the operation.**

Loading backup data from an SD card (LOAD)

Here's how you can load backup data into the V51 that's saved on an SD card.

1. **Insert the SD card into the V51 (p. 4).**
2. **Access the BACKUP screen (p. 30).**
3. **Use the cursor buttons to select "LOAD" and press the [ENTER] button.**

   The SD CARD LOAD ALL screen appears.



4. **Configure the settings for loading.**

   Parameter select: use cursor buttons

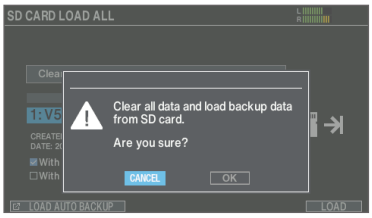
   Value select: use [–] [+] buttons or dial

Parameter	Explanation
Backup Number	Selects the backup number.
With User Samples	Selects whether user samples are also loaded.
With Instrument Expansion Slots	Selects whether to load the Instrument Expansions. * You can't load Instrument Expansions into a slot if they aren't installed in the rack (p. 10).

* When you load user samples, all user samples already present in this unit are overwritten. Depending on the size of the user samples, it might take ten minutes or more to load the data.

5. **Press the [F6] (LOAD) button.**

   A confirmation message appears.



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

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

   The backup data is loaded from the SD card.

7. **Press the [ENTER] button to finish the operation.**

Backing up a drum kit to an SD card (SAVE 1 KIT)

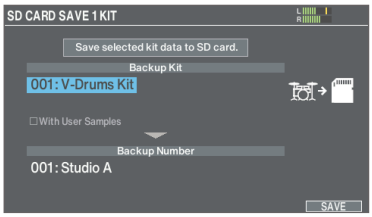
This shows how to back up the individual drum kit settings (up to 999 files) saved on the V51 to an SD card.

1. Insert the SD card into the V51 (p. 4).

2. Access the BACKUP screen (p. 30).

3. Use the cursor buttons to select "SAVE 1 KIT" and press the [ENTER] button.

The SD CARD SAVE 1 KIT screen appears.



4. Configure the backup.

Parameter select: use cursor buttons

Value select: use [–] [+] buttons or dial

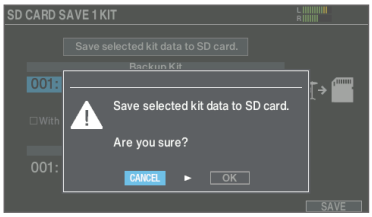
Parameter	Explanation
Backup Kit	Select the drum kit that you want to back up.
With User Samples	Selects whether user samples are also backed up.
Backup Number	Selects the backup number.

* 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 the user samples, and you then delete user samples or renumber them in this unit, the drum kit is not reproduced correctly even if you load the backup.

5. Press the [F6] (SAVE) button.

A confirmation message appears.



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

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

The kit backup data is saved to the SD card.

7. Press the [ENTER] button to finish the operation.

Loading kit backup data from an SD card (LOAD 1 KIT)

Here's how you can load kit backup data that's saved on an SD card into the V51.

MEMO

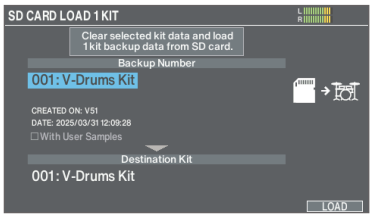
You can also load V71 and V31 kit backup data. For details, refer to the "Reference Manual" (Roland website).

1. Insert the SD card into the V51 (p. 4).

2. Access the BACKUP screen (p. 30).

3. Use the cursor buttons to select "LOAD 1 KIT" and press the [ENTER] button.

The SD CARD LOAD 1 KIT screen appears.



4. Configure the settings for loading.

Parameter select: use cursor buttons

Value select: use [–] [+] buttons or dial

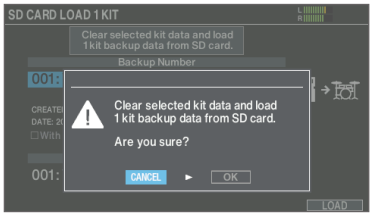
Parameter	Explanation
Backup Number	Selects the backup number. The name of the product and the date and time of the backup (*1) are shown.
With User Samples	Selects whether user samples are also loaded.
Destination Kit	Selects the load destination drum kit.

*1: Only data backed up when connected to Wi-Fi

* It might take ten minutes or more to load the user samples.

5. Press the [F6] (LOAD) button.

A confirmation message appears.



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

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

The backup data is loaded from the SD card.

7. Press the [ENTER] button to finish the operation.

Configuring settings for the entire V51 (SETUP)

Here's how to configure settings that are common to the entire V51, such as specifying the output destination of the V51, and making trigger settings.

1. Press the [SETUP] button.

The SETUP screen appears.

2. Use the cursor buttons or the dial to select the menu that you want to edit, and press the [ENTER] button.

Menu	Explanation
Wi-Fi	Lets you connect the V51 to the Roland Cloud Connect app via Wi-Fi. ➡ See the "Roland Cloud Connect Setup Guide" (separate document).
Bluetooth	Configures the Bluetooth settings.
BACKUP	Saves (backs up) the settings of the V51 to an SD card, or restores (loads) the settings back to the V51 (p. 30).
COPY	Copies the various settings of the V51 internally or from an SD card.
TRIGGER	Configures the trigger settings (p. 28).
OUTPUT	Specifies the output destination of the sounds.
USB AUDIO	Configures the USB audio settings (p. 34).
SYSTEM MIDI	Configures the overall MIDI-related settings for the V51.
CONTROL SETUP	Assigns functions to the footswitches and pads.
OPTION	Configures the display, kit phrase and other settings.
AUTO OFF	Changes the Auto Off setting (p. 6).
SYSTEM INFO	Used for checking how much memory is free on this unit, as well as the system program version.
FACTORY RESET	Returns the unit to its factory settings (p. 34).

3. Edit the settings according to the selected menu.

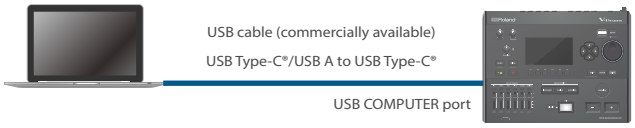
➡ For details on the contents of each menu item, refer to the "Reference Manual" (Roland website).

Connecting to a computer or smartphone

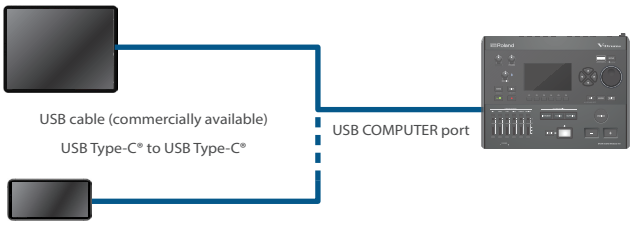
You can connect the V51 to your computer or smartphone to do the following things.

- Connect this unit to your computer (Windows/Mac) and record 32 channels of multitrack audio with your DAW software, or record your performance as MIDI data (VENDOR).
- You can directly exchange audio/MIDI data between this unit and your smartphone or tablet (GENERIC).

Connecting to a computer (Mac/Windows)



Connecting to an iPhone/iPad



* When connecting to an iPad/iPhone that has a Lightning connector, use a Lightning to USB 3 Camera Adapter, available separately. When connecting the Lightning to USB 3 Camera Adapter to the V51, use a USB Type-C® to USB A cable (commercially available).

* We have confirmed that audio noise may occur when connecting to certain Apple products featuring a Lightning connector using Apple's Lightning to USB Camera Adapter.
This may be resolved by using the Lightning to USB 3 Camera Adapter instead.
For more details and for the latest support information, see "V51 Support Information".

* See the product information released by Apple for the differences between the Lightning to USB Camera Adapter and the Lightning to USB 3 Camera Adapter.

Configuring the USB driver

This shows how to switch between the dedicated USB driver for the V51 (VENDOR) and the OS standard driver (GENERIC).

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "USB AUDIO", and press the [ENTER] button.**
3. **Move the cursor to Driver Mode, and use the [–] [+] buttons or the dial to change the value.**

Parameter	Value	Explanation
Driver Mode	GENERIC	Uses the driver provided by the operating system. USB MIDI and USB audio (2 ch. recording and playback) can be used.
	VENDOR	Uses the V51's dedicated driver provided by Roland. USB MIDI and USB audio (32 ch. recording and playback) can be used.

MEMO

The setting takes effect when this unit is powered off and on again.

4. **Turn the power off, then on again.**

MEMO

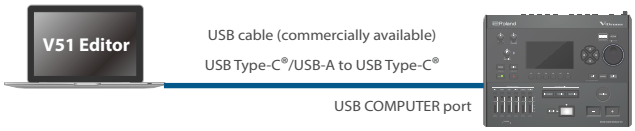
For details on downloading and installing the V51's dedicated USB driver, refer to the Roland website.

https://www.roland.com/support/

Using the "V51 Editor" app on your computer

You can use the V51 Editor app to edit the sounds of the V51 on your computer (Windows/Mac). This makes it more convenient to edit sounds by taking advantage of the computer's larger display.

For details, refer to the "Reference Manual" (Roland website).



Restoring the factory settings

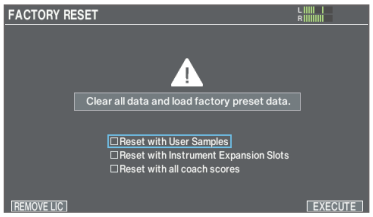
This restores the settings stored in the V51 to their factory default values. This is called a "factory reset".

NOTE

When you execute this operation, all data and settings in the V51 are lost. Before you proceed, you should save any important data and settings to your SD card (p. 30).

1. **Press the [SETUP] button.**
2. **Use the cursor buttons to select "FACTORY RESET", and press the [ENTER] button.**

The FACTORY RESET screen appears.



Parameter select: use cursor buttons

Value select: use [–] [+] buttons or dial

Parameter	Explanation
Reset with User Samples	Selects whether to restore all user samples that have been imported into the V51 to their factory settings. * All user samples in user memory are overwritten by the factory-set data.
Reset with Instrument Expansion Slots	Selects whether to restore the Instrument Expansions loaded into the slots to their factory settings (p. 10).
Reset with All Coach Scores	Selects whether to erase the scores you recorded in coach mode.

3. **Press the [F6] (EXECUTE) button.**

A confirmation message appears.

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

4. **Select "OK" and press the [ENTER] button.**

This executes the factory reset.

5. **Press the [ENTER] button to finish the operation.**

The HI-HAT OFFSET CALIBRATION screen appears.

6. **Press the [F6] (ADJUST) button and follow step 4 in "Configuring the hi-hat" (p. 7) to set the hi-hat.**

Restoring the drum kit to factory settings

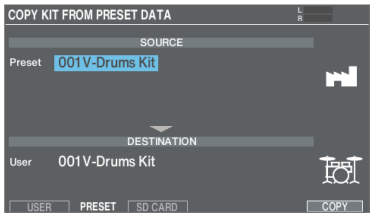
You can use the copy function to restore individual drum kits to their factory (preset kit) settings.

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

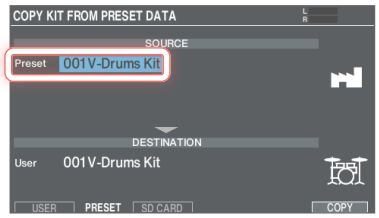
2. **Use the cursor buttons to select "COPY" and press the [ENTER] button.**
   The COPY screen appears.

3. **Use the cursor buttons to select "KIT" and press the [ENTER] button.**

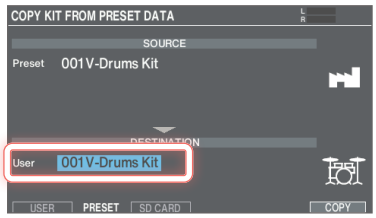
4. **Press the [F2] (PRESET) button.**
   The COPY KIT FROM PRESET DATA screen appears.



5. **Move the cursor to the preset kit, and use the [–] [+] buttons or the dial to select the preset kit with the same number as the kit you wish to restore to the factory settings.**



6. **Move the cursor to the user drum kit, and use the [–] [+] buttons or the dial to select the kit you want to restore to preset settings.**



7. **Press the [F6] (COPY) button.**
   A confirmation message appears.

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

8. **Select "OK" and press the [ENTER] button.**
   This copies the kit.

USING THE UNIT SAFELY

⚠ WARNING

Use only the stand that is recommended

This unit should be used only with a stand that is recommended by Roland.

Do not place in a location that is unstable

When using the unit with a stand recommended by Roland, the stand must be carefully placed so it is level and sure to remain stable. If not using a stand, you still need to make sure that any location you choose for placing the unit provides a level surface that will properly support the unit, and keep it from wobbling.

Precautions regarding placement of this unit on a stand

Be sure to follow the instructions in the Owner's Manual carefully when placing this unit on a stand (p. 4).

If it is not set up properly, you risk creating an unstable situation which could lead to the unit falling or the stand toppling, and may result in injury.

Use only the supplied AC adaptor and the correct voltage

Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

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.

⚠ CAUTION

Use only the specified stand(s)

This unit is designed to be used in combination with specific stands manufactured by Roland. If used in combination with other stands, you risk sustaining injuries as the result of this product dropping down or toppling over due to a lack of stability.

Evaluate safety issues before using stands

Even if you observe the cautions given in the owner's manual, certain types of handling may allow this product to fall from the stand, or cause the stand to overturn. Please be mindful of any safety issues before using this product.

Take care so as not to get fingers pinched

When attaching the mounting pipe, take care not to get your fingers pinched. Whenever a child uses the unit, an adult should be on hand to provide supervision and guidance.

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. 4)

  Washers

  Nuts

  Cable caps

IMPORTANT NOTES

Power Supply

- Place the AC adaptor so the side with the indicator faces upwards. The indicator will light when you plug the AC adaptor into an AC outlet.

Placement

- Depending on the material and temperature of the surface on which you place the unit, its rubber feet may discolor or mar the surface.

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, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Never strike or apply strong pressure to the display.
- Do not use connection cables that contain a built-in resistor.

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.

Caution Regarding Radio Frequency Emissions

- The following actions may subject you to penalty of law.
  - Disassembling or modifying this device.
  - Removing the certification label affixed to the back of this device.
  - Using this device in a country other than where it was purchased
- This unit cannot be used to directly connect to a network operated by a telecommunications provider (such as a mobile or landline-based telecommunications company, an Internet provider or the likes), including a public wireless LAN. You must use a router or similar equipment when connecting this unit to the Internet.

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.
- Do not use this product for purposes that could infringe on a copyright held by a third party. We assume no responsibility whatsoever with regard to any infringements of third-party copyrights arising through your use of this product.
- 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.
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- In this manual, company names and product names of the respective owners are used because it is the most practical way of describing the sounds that are emulated using DSP technology.

* 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.