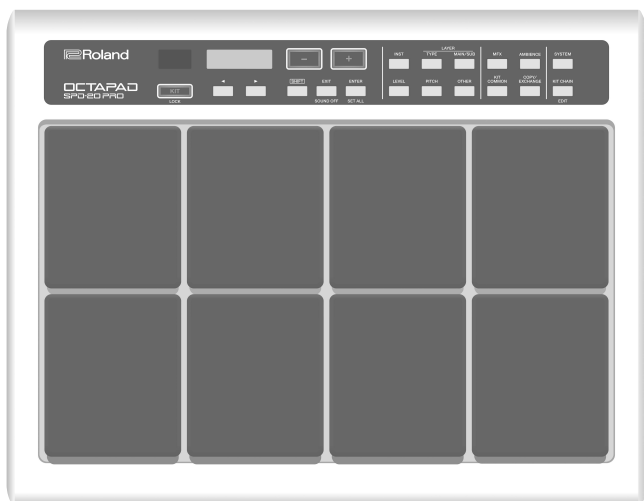




OCTAPAD SPD-20 PRO

Owner's Manual

English

日本語

Deutsch

Français

Italiano

Español

Português

Nederlands

简体中文

Owner's Manual (this document)

Read this first. It explains the basic things you need to know in order to use the SPD-20 PRO.

PDF Manual (download from the Web)

• Data List

This explains the parameters and sound of the SPD-20 PRO.

• MIDI Implementation

This is detailed reference material regarding MIDI messages.

To obtain the PDF manual

1. Enter the following URL in your computer.
<http://www.roland.com/manuals/>



2. Choose "SPD-20 PRO" as the product name.

Before using this unit, carefully read "USING THE UNIT SAFELY" (p. 3) and "IMPORTANT NOTES" (p. 5). After reading, keep the document(s) where it will be available for immediate reference.

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USING THE UNIT SAFELY

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

About ⚠ WARNING and ⚠ CAUTION Notices

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

About the Symbols

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

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

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

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



Concerning the Auto Off function

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 33).



Do not disassemble or modify by yourself

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



Do not repair or replace parts by yourself

Be sure to contact your dealer, a Roland service center, or an official Roland dealer. For a list of Roland service centers and official Roland dealers, refer to the Roland website.



Do not use or store in the following types of locations

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



⚠ 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. 10).

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.



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

Otherwise, fire or electric shock may result.



⚠ WARNING

Avoid extended use at high volume

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



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

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



Turn off the unit if an abnormality or malfunction occurs

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



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

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

Be cautious to protect children from injury

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



Do not drop or subject to strong impact

Otherwise, you risk causing damage or malfunction.



WARNING

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

Otherwise, you risk overheating or fire.



Do not use overseas

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

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



CAUTION

Use only the specified stand(s)

This unit is designed to be used in combination with specific stands (PDS series) 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.



When disconnecting the power cord, grasp it by the plug

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



Periodically clean the power plug

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

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



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

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



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

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



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

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



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

Otherwise, you could receive an electric shock.



CAUTION

Disconnect all cords/cables before moving the unit

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



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

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



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

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



Keep small items out of the reach of children

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

- Removable Parts
Screws (p. 10)



IMPORTANT NOTES

Power Supply

- Do not connect this unit to same electrical outlet that is being used by an electrical appliance that is controlled by an inverter or a motor (such as a refrigerator, washing machine, microwave oven, or air conditioner). Depending on the way in which the electrical appliance is used, power supply noise may cause this unit to malfunction or may produce audible noise. If it is not practical to use a separate electrical outlet, connect a power supply noise filter between this unit and the electrical outlet.
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- Place the AC adaptor so that the side with text is downward.

Placement

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

Maintenance

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

Repairs and Data

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

Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.
- Roland assumes no liability concerning the restoration of any stored content that has been lost.
- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing others nearby, try to keep the unit's volume at reasonable levels.
- This instrument is designed to minimize the extraneous sounds produced when it's played. However, since sound vibrations can be transmitted through floors and walls to a greater degree than expected, take care not to allow these sounds to become a nuisance others nearby.
- When disposing of the packing carton or cushioning material in which this unit was packed, you must observe the waste disposal regulations that apply to your locality.
- The rubber portion of the striking surface is treated with a preservative to maintain its performance. With the passage of time, this preservative may appear on the surface as a white stain, or reveal how the pads were struck during product testing. This does not affect the performance or functionality of the product, and you may continue using it with confidence.
- Continuous playing may cause dis-coloration of the pad, but this will not affect the pad's function.
- Do not use connection cables that contain a built-in resistor.
- If you want to play the SPD-20 PRO with a stand, use a pad stand (PDS-10 or PDS-20; sold separately).
- You must use the screws on the bottom panel of the SPD-20 PRO. Using any other screws may cause malfunction.
- Do not use the screws included in the PDS-10 (old model).

Using External Memories

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

Intellectual Property Right

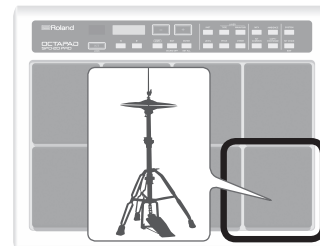
- The copyright of content in this product (the sound waveform data, style data, accompaniment patterns, phrase data, audio loops and image data) is reserved by Roland Corporation.
- Purchasers of this product are permitted to utilize said content (except song data such as Demo Songs) for the creating, performing, recording and distributing original musical works.
- Purchasers of this product are NOT permitted to extract said content in original or modified form, for the purpose of distributing recorded medium of said content or making them available on a computer network.
- This product contains eParts integrated software platform of eSOL Co.,Ltd. eParts is a trademark of eSOL Co., Ltd. in Japan.
- This Product uses the Source Code of µT-Kernel under T-License 2.0 granted by the T-Engine Forum (www.tron.org).
- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.
- Roland and OCTAPAD are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries.

Overview of the OCTAPAD

Kit and Inst

What Is an Inst (Instrument)?

All the sounds and instruments on board the OCTAPAD are referred to as “INST”.



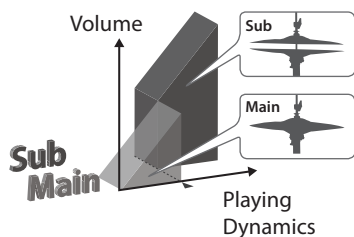
What Does Layer Mean?

Two Insts (Main, Sub) can be assigned to each pad.

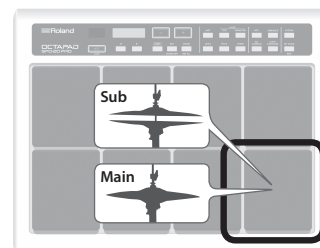
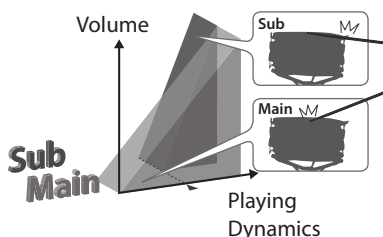
The way in which the strength of your strike on the pad affects the volume of each instrument can be specified in “Layer Type”.

With a hi-hat for example, by playing softly you can have the closed hi-hat sound, and when playing harder, the open hi-hat sound. Or you can use a snare drum sound, so when play softly you hear the head sound, and when playing louder you can have a rim shot.

When the layer type is “SWITCH”



When the layer type is “FADE2”

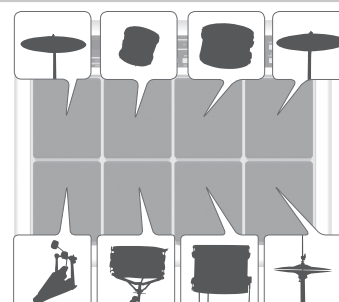


What Is a Kit?

All instruments assigned to the eight pads and four external pads as well as the effects used, are memorized as a “Kit”. You can select kits by pressing the [-], [+] buttons (p. 11).

In live performance situations, the Kit Chain function allows you to determine the switching order of selected kits (p. 21).

➔ “Kit structure” (p. 7)



What Are Ambience and MFX?

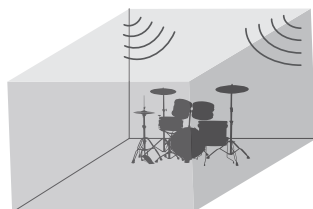
These are both effects.

The “Ambience” selected is a global function, meaning that all kits will use this effect. You can select from various types of rooms and halls.

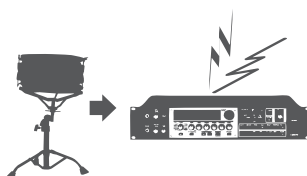
“MFX” is a full blown effects unit that can be used on an individual kit basis.

On the OCTAPAD you can use one instance of ambience and three instances of MFX with each kit.

Ambience



MFX



➔ “Audio signal flow” (p. 7)

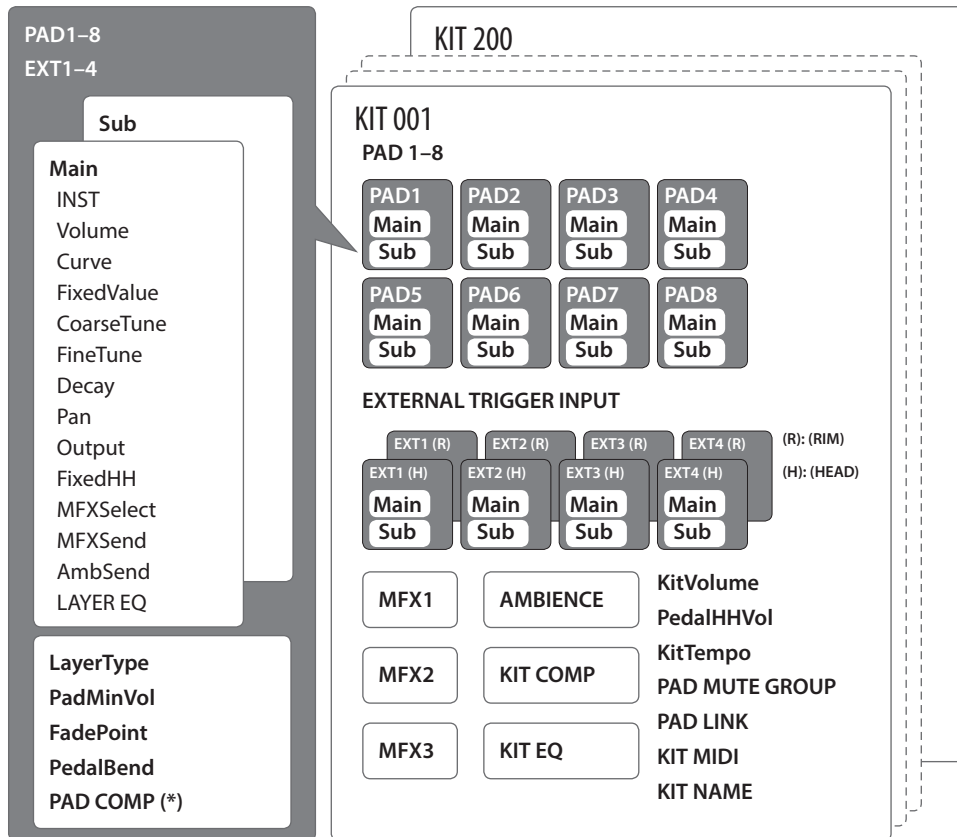
Editing and Saving Your Data

The OCTAPAD features some powerful editing tools such as pitch, decay, tone color etc. Also, the MFX for each kit can be edited as well. All of your edits are automatically saved internally. If you need to, you can restore an individual kit to the factory settings. See “Restoring the Factory Settings” (p. 32).

By connecting a USB flash drive (sold separately) to the OCTAPAD, you can back up all of the OCTAPAD’s settings (or the settings for a specified individual kit) to the USB flash drive. Be sure to back up your favorite data (p. 30).

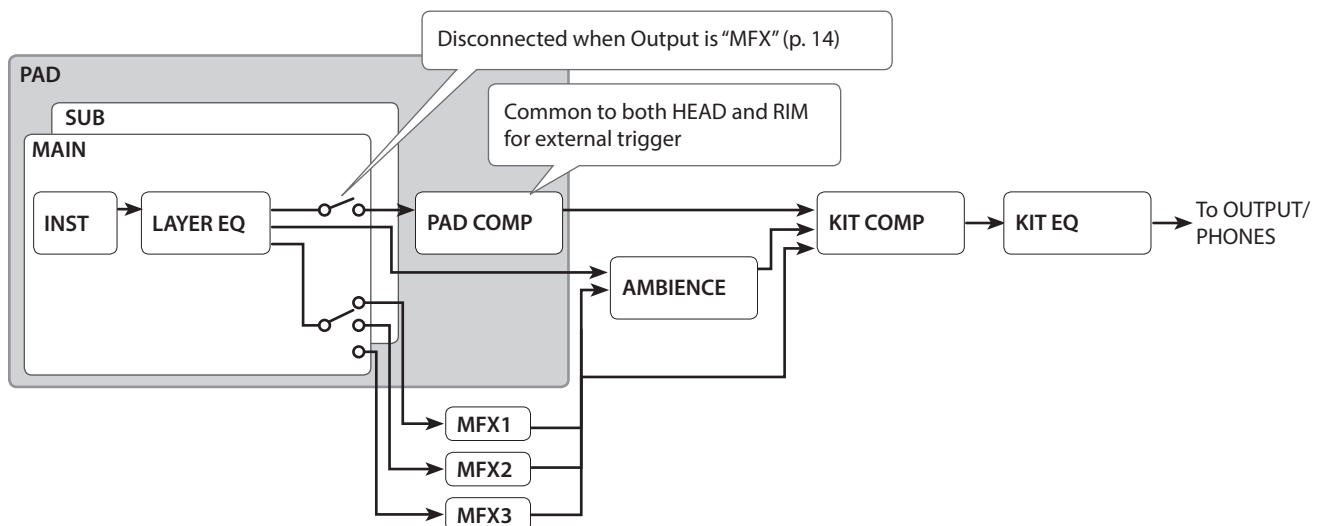


Kit structure



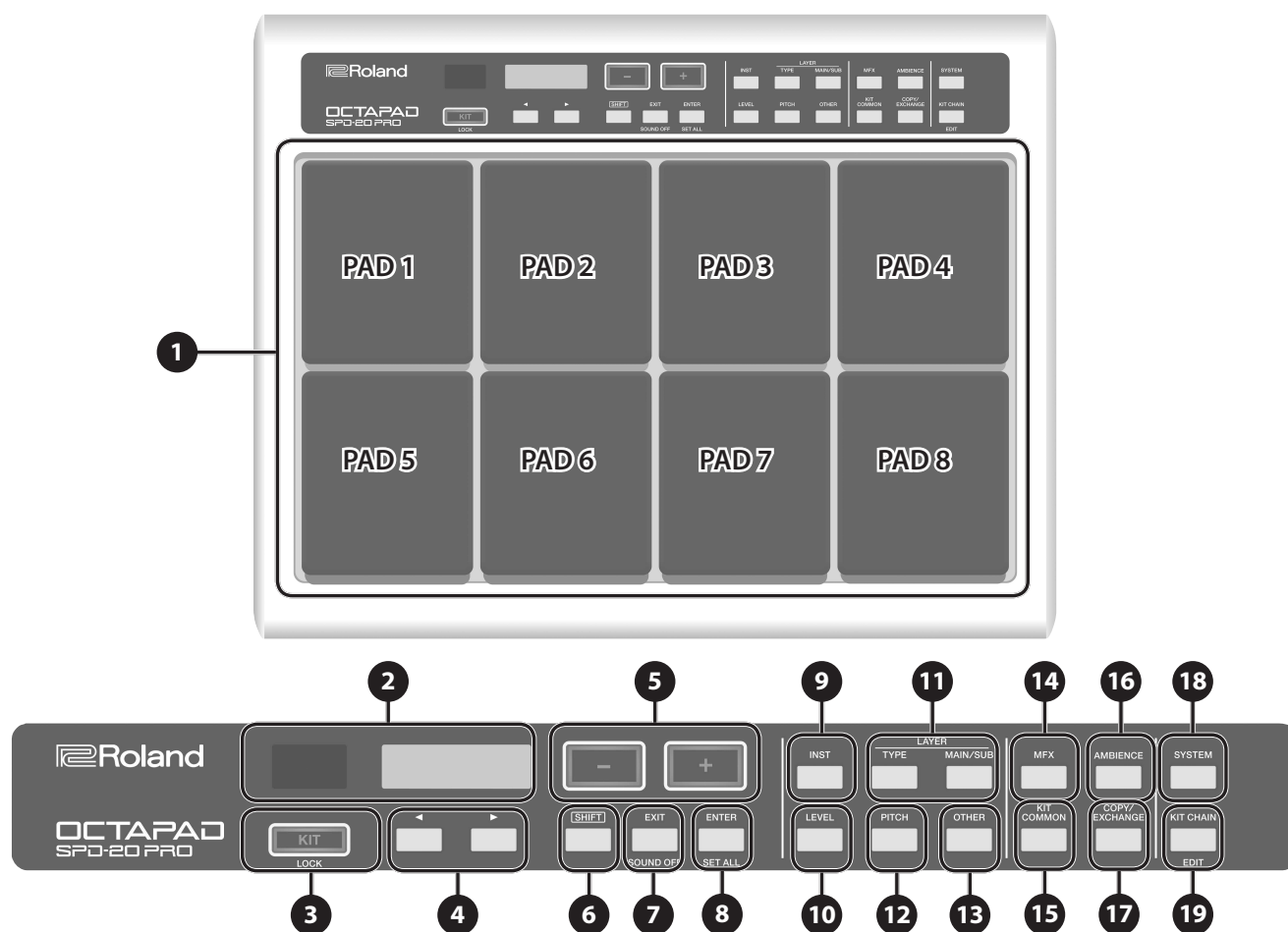
(*) The PAD COMP for an external trigger (EXT1-EXT4) is common to the Head and Rim.

Audio signal flow



Panel Description

Top Panel



Number	Name	Explanation
1	PAD 1–8	Play pads 1–8 by playing them with sticks.
2	Display	Kit numbers, Kit names, and settings are shown here. * The 7-segment display at the left always shows the kit number.
3	[KIT] button	Displays the top screen. * By pressing the [SHIFT] button + [KIT] button, you can disable button operations (p. 11).
4	[◀] [▶] buttons	Select the item to edit.
5	[–] [+] buttons	Select kits or edit the value of a parameter.
6	[SHIFT] button	Used in combination with other buttons to access a variety of functions.
7	[EXIT] button	Returns to the previous screen. Also used to cancel the previous operation. * By pressing the [SHIFT] button + [EXIT] button, you can stop all currently-heard sound (p. 11).
8	[ENTER] button	By pressing this when the display indicates [ENTER], you can execute an operation or access a screen with detailed settings. * By pressing the [SHIFT] button + [ENTER] button, you can specify a common value for all pads (p. 13).

Number	Name	Explanation
9	[INST] button	Select the pad setting to edit (p. 14).
10	[LEVEL] button	
11	LAYER [TYPE] button	
	LAYER [MAIN/SUB] button	
12	[PITCH] button	Edit the effect settings (p. 18).
13	[OTHER] button	
14	[MFX] button	
15	[KIT COMMON] button	Edits settings for the entire kit (p. 19).
16	[AMBIENCE] button	Edits ambience settings (p. 18).
17	[COPY/EXCHANGE] button	Copies or exchanges kits or pads. You can also exchange layers (p. 29).
18	[SYSTEM] button	Edits settings for the entire OCTAPAD
19	[KIT CHAIN] button	Lets you register and recall kits in the order in which you want to use them during a live performance (p. 21).

Rear Panel

MIX IN jack

Connect another electronic musical instrument, external audio device (portable audio player, computer, CD player, etc.). The sound that is input to this jack is output from the OUTPUT jacks and the PHONES jack.

[VOLUME] knob

Adjusts the volume that is output from the OUTPUT (L/R) jacks and the PHONES jack.

EXTERNAL TRIGGER INPUT1–4 jacks/HH CTRL jack ▶ p. 23

Connect pads or pedals to the 1–4 external trigger input jacks. To make this connection, use the cable that is included with each pad. All pads and pedals are sold separately.



To the HH CTRL jack you can connect a hi-hat control pedal that is compatible with the FD-8, FD-9, VH-10, or VH-11.

FOOT SW jack ▶ p. 27

You can connect a footswitch (sold separately: BOSS FS-5U, FS-6) and use it to control a variety of things.

**[POWER] switch**

Turns the power on/off.

USB MEMORY port ▶ p. 30

Connect a USB flash drive (sold separately). This lets you back up the OCTAPAD's settings to a USB flash drive.

**MIDI port** ▶ p. 28

Connect MIDI devices.

PHONES jack

Connect your headphones. Even when using your headphones, sound is still output from the OUTPUT jacks.

**OUTPUT jacks**

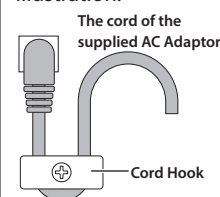
For connection to your amplification or recording system.
If making a MONO connection, use the L/MONO jack.

**DC IN jack**

Connect the included AC adaptor here.



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



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

Attaching to a Stand

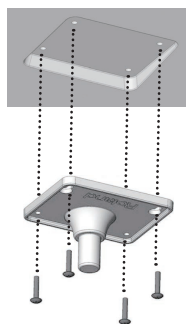
If you want to play the OCTAPAD with a stand, use a pad stand (PDS-10 or PDS-20; sold separately).

- * You must use the screws on the bottom panel of the OCTAPAD. Using any other screws may cause malfunction.
- * Do not use the screws included in the PDS-10 (old model).
- * When turning the unit over, be careful so as to protect the buttons and pads from damage. Also, handle the unit carefully; do not drop it.

1. Using the screws on the bottom of the OCTAPAD, attach the PDS-10 or PDS-20 mounting plate.

- * Do not use the screws included with the pad stand.

bottom of OCTAPAD



2. Attach the OCTAPAD to the pad stand.

For the details on how to assemble the pad stand and use the mounting plate, refer to the owner's manual of the pad stand.

Turning the Power On/Off

1. Use the POWER switch (p. 9) to turn the power on/off.

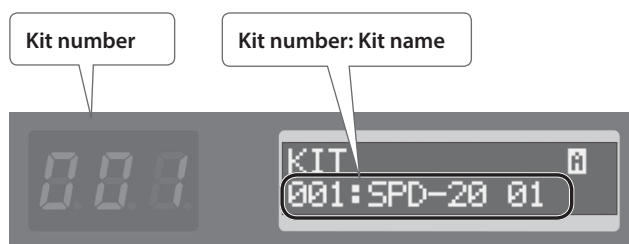
- * The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 33). To restore power, turn the power on again.
- * 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.

Selecting a Kit

When you switch kits, the sounds of all pads are switched together.

1. Press the [KIT] button.

2. Use the [-] [+] buttons to select a kit.



- * If you hold down the [SHIFT] button and use the [-] [+] buttons, the kit number changes in steps of ten.

About the icons shown in the upper right of the screen

Icon	Meaning
	Shown if the kit's MFX is on (p. 18).
	Shown if the kit's ambience is on (p. 18).
	Button operation is disabled.

Disabling Button Operation

While the kit selection screen is shown, you can disable operation of the buttons and footswitch to prevent the settings from being changed by inadvertently pressing a button or footswitch.

1. Hold down the [SHIFT] button and press the [KIT] button.



A lock symbol appears in the upper right of the screen.

To unlock, once again hold down the [SHIFT] button and press the [KIT] button.

- * You can't disable button operation in other than the kit selection screen.

Stopping All Currently-Heard Sound

You can stop all currently-heard sound.

1. Hold down the [SHIFT] button and press the [EXIT] button.

The screen indicates "All Sound Off".

- * The sounds stop when you execute "All Sound Off", but any effects that were set may continue to be heard.

KIT CHAIN Function

The Kit Chain function allows you specify the order in which kits will switch. Very convenient for live performance.

- For detail, see "Recalling Kits in a Specific Order" (p. 21).

Footswitch

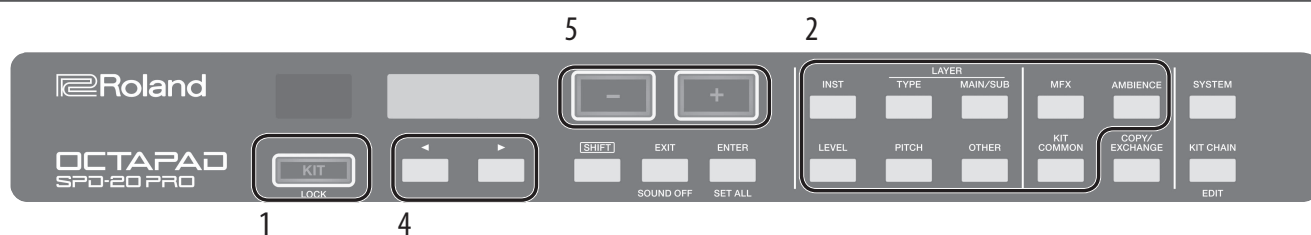
Footswitches can be used to change kits.

- For detail, see "Assigning the Footswitch" (p. 27).



Creating a Kit

Basic Editing Operation



1. Select a kit (p. 11).
2. Press a button to select the type of item that you want to edit.
3. Select a pad (p. 13).
4. Use the [◀] [▶] buttons to select the item that you want to edit.
If the display indicates [ENTER], press the [ENTER] button to proceed to detailed settings.

5. Use the [-] [+] buttons to specify the value.

The value increases rapidly if you hold down the [+] button and press the [-] button. The value decreases rapidly if you hold down the [-] button and press the [+] button. The value changes more greatly if you hold down [SHIFT] and press the [+] or [-] button.

Screen Indications

Inst screen

Inst number

The first two characters indicate the instrument's category, the next three digits indicate the inst number, and the SPD-20 inst number is shown in parentheses ().

PAD LINK icon/
Pad number/
Layer icon

CR003(C01) OP1
Crash C1

Inst name

Other edit screens

Edited item
(button name)

PAD LINK icon/
Pad number/
Layer icon

MAIN-LEVEL OP1
▶Volume 84

Parameter name

If "◀" or "▶" is shown, you can use the [◀] [▶] buttons to move to the next (or previous) parameter.

Value

PAD LINK icon

This is shown only if PAD LINK (p. 14) is on.

CR003(C01) OP1
Crash C1

Layer icon

Layer type	Icon	Layer
OFF		Main
		Sub
Other than OFF		Main
		Sub

Selecting an inst

1. Select a pad.
2. Press the [INST] button.
3. Press the LAYER [MAIN/SUB] button to select the layer (Main or Sub).
4. Use the [-] [+] buttons to select an instrument.
Alternatively, you can use the [◀] [▶] buttons to select category, number, or SPD-20 (old model) instrument number, and then use the [-] [+] buttons to select an instrument.

Selecting a pad or external trigger

Strike the pad that you want to edit. To select an external trigger that's connected to an EXTERNAL TRIGGER INPUT 1–4 jack, strike or press the connected pad or pedal.

You can also select by holding down the [ENTER] button and using the [◀] [▶] buttons.

Making settings common to all pads (SET ALL)

Here's how to set the currently-edited parameter to the same value for all pads.

1. Select a value as described in “Basic Editing Operation” (p. 12).
2. Hold down the [SHIFT] button and press the [ENTER] button.



3. Press the [ENTER] button.

The parameter value specified for the selected pad/kit is applied to all pads. If you decide to cancel, press the [EXIT] button.

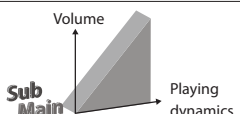
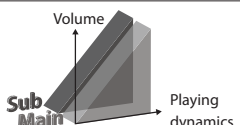
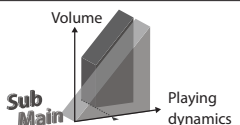
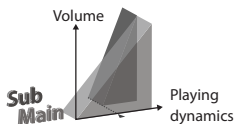
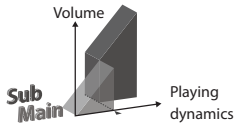
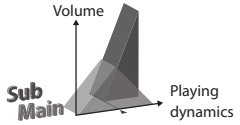
* If you are editing a setting of an internal pad, the setting is applied to the eight internal pads. If you are editing a setting of an external pad, the setting is applied to both the head and rim of the four external pads.

Editing the Sound of a Pad

Button	Parameter	Value	Explanation	
[INST]	INST	Refer to “Data List” (PDF)	Selects the instrument that is assigned to the pad.	
LAYER [TYPE]	Type	Specifies the layer type (p. 15)		
LAYER [MAIN/SUB]	–	–	Switches between editing the Main or the Sub sound.	
	FadePoint	1–127	Specifies the velocity value at which Inst Sub begins to be heard.	
[LEVEL]	Volume	0–127	Specifies the volume.	
	Curve	LINEAR	Selects the way in which the strength of the strike affects the volume of the instrument (CURVE).	The standard setting. This produces the most natural correspondence between playing dynamics and volume change.
		EXP1		Compared to LINEAR, strong dynamics produce a greater change.
		LOG1, LOG2, LOG3		Compared to LINEAR, a soft playing produces a greater change.
		SPLINE1, SPLINE2		Extreme changes are made in response to playing dynamics.
		FIXED		The sound is heard at a fixed volume regardless of your playing dynamics.
	FixedValue	1–127	Specifies the velocity when Curve=FIXED.	
PadMinVol	0–15	Specifies the volume of the weakest strike.		
[PITCH]	CoarseTune	-24–24	Specifies the pitch in semitone units.	
	FineTune	-50–50	Specifies the pitch in one-cent units (1/100 of a semitone).	
	PedalBend	-24–24	Lets you modify the pitch by pressing the hi-hat pedal. This specifies the maximum amount of change in semitone units.	
[OTHER]	Decay	1–100	Specifies the instrument’s decay time (DECAY). Larger values make the decay time longer. * For some instruments, this setting might not affect the tonal character.	
	Fixed HH	NORMAL, CLOSE, HALF, OPEN	Specifies the openness of the hi-hat. If this is NORMAL, the openness depends on how deeply you press the pedal. * This can be set only if the instrument is hi-hat control (HC).	
	Pan	L30–CENTER–R30	Specifies the instrument’s panning (the position from which the sound is heard from the left and right speakers).	
	Output	MFX, DRY+MFX	Selects whether the sound of the instrument is output only to MFX or to both MFX and direct. MFX:  DRY+MFX: 	
	MFXSelect	MFX1, MFX2, MFX3	Of the three effects specified for a kit, one can be applied to Main and one to Sub.	
	MFXSend	0–127	Specifies the volume level sent to MFX separately for Main and for Sub.	
	AmbSend	0–127	Specifies the volume level sent to Ambience separately for Main and for Sub.	
	LAYER EQ	–	Adjusts the tonal character (layer equalizer) separately for Main and for Sub. You can adjust the tonal character by specifying the boost/cut for each of three bands (LOW, MID, HIGH). For details, refer to “LAYER EQ settings” (p. 15).	
	PAD COMP	–	Adjusts the amount of volume change (pad compressor) for each pad. For details, refer to “PAD COMP settings” (p. 16).	
	PAD MUTE GROUP	Strike to select the pad whose mute group you want to assign	If you assign a pad to a group, other pads assigned to the same mute group are muted (silenced) when you strike that pad. For example, you can use this to prevent the HH Open and Close sounds from being heard simultaneously. For details on this setting, refer to “PAD MUTE GROUP settings” (p. 16).	
	PAD LINK	Strike to select the pad whose PAD LINK setting you want to specify	This setting lets you play the sound of multiple pads by striking one pad. This is convenient when you want to layer multiple sounds on a single strike. (Layering multiple instances of the same sound might cause interference, producing an unnatural impression.) For details on this setting, refer to “PAD LINK settings” (p. 17).	
	EXCHANGE LAYER	P1–E4R	Exchanges the settings of the Main and Sub layers.	

Layer type

The OCTAPAD lets you play two instruments (Inst Main and Inst Sub) layered on one pad. You can also switch between two instruments or vary their balance according to your playing dynamics.

Parameter	Value	Explanation
Type	OFF	 Only Inst Main is played.
	MIX	 Inst Main and Inst Sub are layered and played simultaneously.
	FADE1	 Inst Sub is heard only for a pad strike that is stronger than the value (velocity value) specified by FadePoint.
	FADE2	 For pad strikes that are stronger than the FadePoint, the Inst Sub is layered in addition to the Inst Main sound.
	SWITCH	 The Inst Main sound is heard for pad strikes that are weaker than the FadePoint, and the sound switches to Inst Sub for pad strikes that are stronger.
	XFADE	 This is essentially the same as FADE2, with the difference that pad strikes that are stronger than the FadePoint decrease the volume of the Inst Main sound.
FadePoint	1–127	Specifies the velocity value at which Inst Sub begins to be heard

LAYER EQ settings

Parameter	Value	Explanation
ON/OFF	ON, OFF	Turns the EQ on/off.
LoFrq	20Hz–1kHz	Specifies the center frequency of the low-frequency region.
LoGain	-15–+15dB	Amount of low-frequency boost/cut
MidFrq	20Hz–16kHz	Adjusts the center frequency of the mid-frequency region.
Mid Q	0.5–8.0	Width of the mid-frequency region Higher values make the region narrower.
MidGain	-15–+15dB	Adjusts the amount of mid-frequency boost/cut.
HiFrq	1–16kHz	Specifies the center frequency of the high-frequency region.
HiGain	-15–+15dB	Adjusts the amount of high-frequency boost/cut.

PAD COMP settings

Parameter	Value	Explanation
ON/OFF	ON, OFF	Turns the pad compressor on/off.
Type	KICK 1, KICK 2, SNARE 1, SNARE 2, TOM 1, TOM 2, CYMBAL 1, CYMBAL 2, SOFT COMP, HARD COMP, LIMITER	Type of compressor * Changing this parameter sets the pad compressor's Ratio, Knee, Attack, and Release parameters to optimal values. Based on these settings, you can adjust the value of each parameter as necessary.
Gain	-24.0—+24.0dB	Compressor output volume
Thre	-48–0dB	Volume level at which compression starts
Ratio	1:1, 2:1, 3:1, 4:1, 8:1, 16:1, 32:1, 100:1	Compression ratio
Knee	HARD, SOFT1, SOFT2, SOFT3	Attack of the sound at the moment compression is applied
Attack	0.1–100ms	Time until compression starts
Release	10–1000ms	Time until compression returns to the original state

PAD MUTE GROUP settings

- From the [OTHER] button items, select “PAD MUTE GROUP”, and press the [ENTER] button.



- Press the [ENTER] button once again.

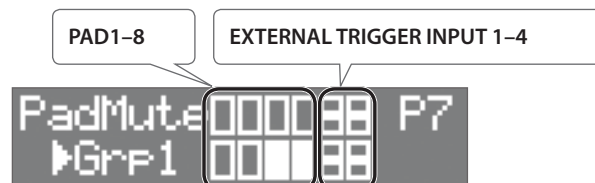


To cancel a specified mute, use the [◀] [▶] buttons to select “Reset”, and then press the [ENTER] button.

- Use the [◀] [▶] buttons to specify the group number.

Up to eight groups can be specified.

- Strike a pad to select the pad that you want to mute.



* For EXTERNAL TRIGGER INPUT 1–4, the upper row is RIM and the lower row is HEAD.

MEMO

- You can't assign the same pad to different groups. If you attempt to specify this, the following message appears.



- If “Pad Link” and “Pad Mute Group” are set for the same pad within a certain kit, “Pad Mute Group” is given priority and “Pad Link” is disabled.

PAD LINK settings

You can use PAD LINK in Set mode or in Advanced Set mode to link pads together.

If you set a group using Set mode, you can trigger other pads that should play at the same time as a group when you strike a certain pad.

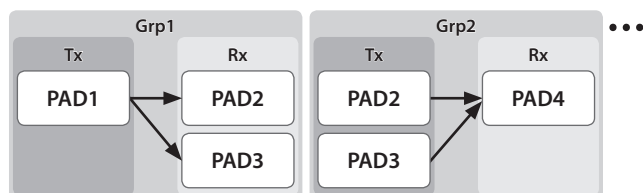
If you set the Tx and Rx for each group using Advanced Set mode, you can make the pads in the same group that are set to Rx play at the same time only when you strike the pads that are set to Tx. Note that playing the pads set to Rx do not trigger the other pads in the same group you set for Tx.

Examples of settings

Set: sets the group



Advanced Set: sets the Tx/Rx for each group



* If "Pad Link" and "Pad Mute Group" are set for the same pad within a certain kit, "Pad Mute Group" is given priority and "Pad Link" is disabled.

1. From the [OTHER] button items, select "PAD LINK", and press the [ENTER] button.



2. Use the [◀] [▶] buttons to select "Set" or "Advanced Set".



To cancel a specified link, use the [◀] [▶] buttons to select "Reset", and then press the [ENTER] button.

When Set is selected

3. Use the [◀] [▶] buttons to specify the group number.

Up to eight groups can be specified.

When Advanced Set is selected

4. Set the group number and Tx/Rx.

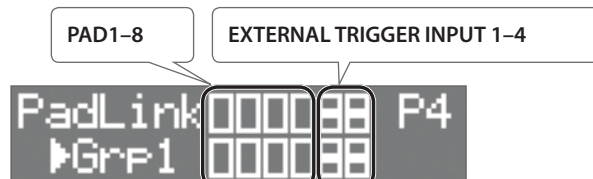
- Use the [ENTER] button to switch between Tx and Rx.



- Use the [◀] [▶] buttons to select the group number.



5. Strike a pad to select the pad that you want to link.



* For EXTERNAL TRIGGER INPUT 1-4, the upper row is RIM and the lower row is HEAD.

MEMO

- You can't assign the same pad to different groups. If you attempt to specify this, the following message appears.



- An asterisk appears next to "Set" if the Tx and Rx settings are different.



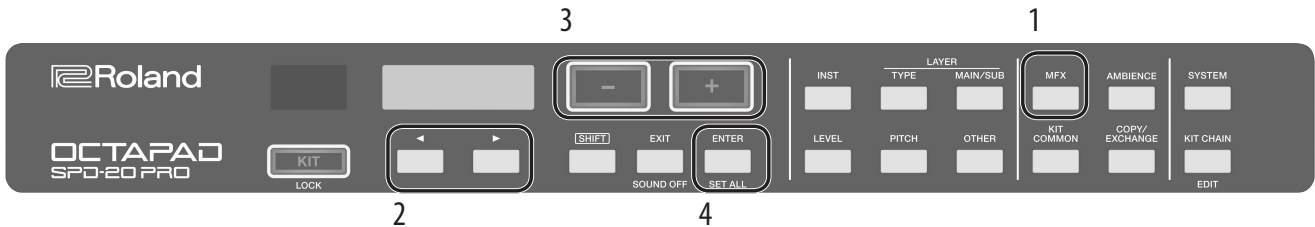
When you switch to the Set screen from this state, the pads with different Tx and Rx settings are indicated by an asterisk.



Effect Settings

MXF Settings

You can select up to three MXF (MXF1–MXF3) and apply their effects to a kit.



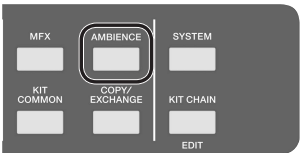
1. Press the [MFX] button.
2. Use the [◀] [▶] buttons to select the MXF (MXF1–MXF3) that you want to edit.
3. Use the [–] [+] buttons to turn the effect on/off.
4. Press the [ENTER] button.
Use the [◀] [▶] buttons and [–] [+] buttons to edit the effect settings in detail.
* For details on MXF, refer to “Data List” (PDF).

MEMO

MXF effect settings can be made separately for the Main and Sub of a pad (p. 14).

AMBIENCE Settings

Ambience simulates the reverberation and acoustics of a location in which you are playing the drums. It lets you obtain a more natural sound with a sense of presence.



Button	Parameter	Value	Explanation
[AMBIENCE]	ON/OFF	ON, OFF	Turns ambience on/off.
	Type	ROOM1, ROOM2, HALL1, HALL2, PLATE	Selects the type of reverberation.
	PreDelay	0–100ms	Specifies the delay time from the original sound until the reverb is heard.
	Time	0.1–10.0s	Specifies the length over which the reverb sound decays.
	Density	0–127	Specifies the density of the reverb sound.
	Diffusion	0–127	Specifies how the density of the reverb sound changes over time. With higher values, the sound becomes denser as time passes. (This has a greater effect when the reverb time is longer.)
	LF Damp	0–100	Adjusts the low-frequency portion of the reverb sound.
	HF Damp	0–100	Adjusts the high-frequency portion of the reverb sound.
	Spread	0–127	Adjusts the spaciousness of the reverb sound.
	Tone	0–127	Adjusts the tonal character of the reverb sound.
	Level	0–127	Adjusts the volume of the reverb.

MEMO

The volume level that is sent to Ambience can be adjusted individually for Main and Sub (p. 14).

Editing the Sound of the Overall Kit

* For details on the parameters, refer to “Data List” (PDF).



Button	Parameter	Value	Explanation
[KIT COMMON]	KitVolume	0–127	Specifies the volume of the entire kit.
	PedalHHVol	0–127	Specifies the volume of the pedal hi-hat.
	KitTempo	20–260	Specifies the tempo setting of each kit. If the MFX Tempo Sync is ON, effect settings such as Rate and Delay Time reflect the tempo specified here. * For details on MFX, refer to “Data List” (PDF).
	KIT COMP	–	Adjusts the volume dynamics of the entire kit. This makes settings for the compressor that is applied at the final stage of the output. For details, refer to “KIT COMP settings” (p. 19).
	KIT EQ	–	Adjusts the tonal character of the entire kit. You can adjust the amount of boost/cut for three bands (LOW, MID, HIGH). You can also use this to adjust the tonal character when using KIT COMP. For details, refer to “KIT EQ settings” (p. 20).
	KIT NAME	–	Edits the name of the kit. Use the [◀] [▶] buttons to select the character that you want to edit, and use the [–] [+] buttons to edit it.
	KIT MIDI	–	Here you can specify the MIDI messages that a pad sends or receives. For details, refer to “KIT MIDI settings” (p. 20).
	KIT RESET	KIT001–KIT200	Returns the kit to its factory-set state.

KIT COMP settings

Parameter	Value	Explanation
ON/OFF	ON, OFF	Turns KIT COMP on/off
Type	SOFT, HARD, LIMITER	Type of compressor * When you change this parameter, all parameters in KIT COMP are changed to the optimal settings. Based on these settings, you can edit each parameter as desired.
Gain	–24.0–+24.0dB	Output volume of the compressor
Thre	–48–0dB	Volume level at which compression starts
Ratio	1:1, 2:1, 3:1, 4:1, 8:1, 16:1, 32:1, 100:1	Compression ratio
Knee	HARD, SOFT1, SOFT2, SOFT3	Attack of the sound at the moment that compression is applied
Attack	0.1–100ms	Time until compression starts
Release	10–1000ms	Time over which compression returns to the original state

KIT EQ settings

Parameter	Value	Explanation
ON/OFF	ON, OFF	Turns the KIT EQ on/off.
LoFrq	20Hz–1kHz	Specifies the center frequency of the low-frequency region.
LoGain	-12–+12dB	Amount of low-frequency boost/cut
MidFrq	20Hz–16kHz	Adjusts the center frequency of the mid-frequency region.
Mid Q	0.5–8.0	Width of the mid-frequency region Higher values make the region narrower.
MidGain	-12–+12dB	Adjusts the amount of mid-frequency boost/cut.
HiFrq	1–16kHz	Specifies the center frequency of the high-frequency region.
HiGain	-12–+12dB	Adjusts the amount of high-frequency boost/cut.

KIT MIDI settings

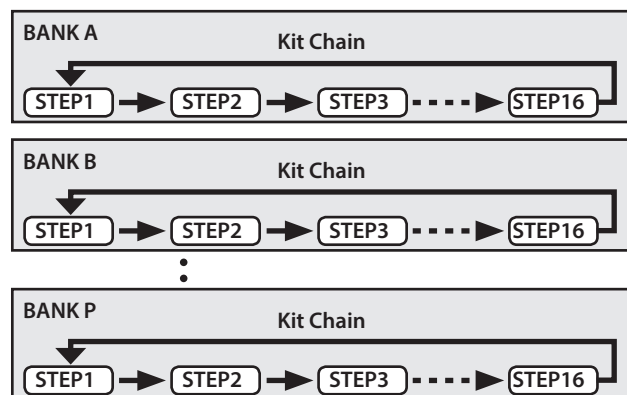
Parameter	Value	Explanation
Note#	0 (C -)–127 (G 9)	MIDI note number transmitted/received for each pad * If you specify a note number that is the same as the note number specified for a different pad, an "*" is shown at the end.
	OFF	Note messages are not received or transmitted
GateTime	0.1– 8.0s	Duration of the note that each pad transmits
Channel	CH1–CH16	MIDI channel used by each pad to transmit or receive note messages or control change messages
	GLOBAL	Transmit/receive using the transmit/receive channel specified in SYSTEM (p. 28)
HClose (*) (Hi-Hat Closed Note)	0 (C -)–127 (G 9), OFF	MIDI note number transmitted and received for the closed hi-hat
HPedal (*) (Hi-Hat Pedal)	0 (C -)–127 (G 9), OFF	MIDI note number transmitted and received for the pedal hi-hat
INITIALIZE	–	Returns the KIT MIDI settings to their factory-set state.

(*) Valid only for the pad that is controlled by hi-hat open/closed (p. 26).

Recalling Kits in a Specific Order

You can register and recall kits in the order in which you plan to use them. This is called the Kit Chain function. If you register kits in the order in which you will be using them in your live performance, you can instantly recall the next kit to use. Up to 16 kits can be registered in one kit chain.

Up to 16 kit chains can be stored in the banks (A–P).



Creating a Kit Chain

1. Hold down the [SHIFT] button and press the [KIT CHAIN] button.

The [KIT CHAIN] button blinks.

KIT CHAIN EDIT
▶BANK A [ENTER]

2. Use the [◀] [▶] buttons to select the bank (A–P) in which you want to store the chain.

KIT CHAIN EDIT
◀▶BANK B [ENTER]

3. Press the [ENTER] button.

4. Use the [◀] [▶] buttons to select a step (1–16).

BANK B ◀▶Step 2
001:SPD-20 01

5. Use the [–] [+] buttons to select the kit that you want to assign to the selected step.

BANK B ◀▶Step 2
002:SPD-20 02

If you don't want to use all the steps to step 16, select "END".

Using a Kit Chain

1. Press the [KIT CHAIN] button.

The [KIT CHAIN] button lights.

KIT CHAIN ◀▶A- 1
001:SPD-20 01

2. Use the [◀] [▶] buttons to select a bank (A–P).

KIT CHAIN ◀▶B- 1
001:SPD-20 01

3. Use the [–] [+] buttons to switch steps.

The assigned kit is selected.

KIT CHAIN ◀▶B- 2
002:SPD-20 02

Specifying the Pad Sensitivity

Here's how to specify the sensitivity of each pad.

1. Press the [SYSTEM] button.

2. Use the [◀] [▶] buttons to select "PAD SETTING", and then press the [ENTER] button.

```
SYSTEM [ENTER]
◀▶PAD SETTING
```

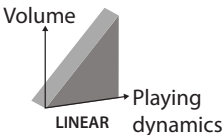
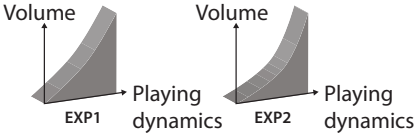
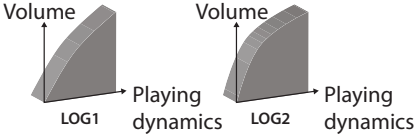
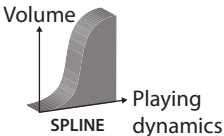
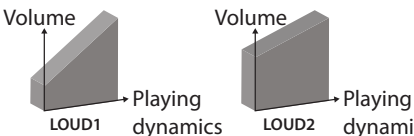
3. Strike a pad to select the pad that you want to edit.

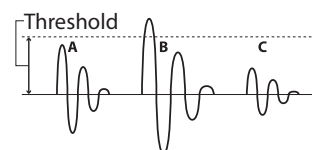
You can also select a pad by holding down the [ENTER] button and using the [◀] [▶] buttons.

4. Use the [◀] [▶] buttons to select the item that you want to edit.

```
PAD SETTING P1
▶Sens 3.5
```

5. Use the [-] [+] buttons to select the value.

Parameter	Value	Explanation
Sens	1.0–32.0	You can adjust the balance (sensitivity) between pad striking strength and volume. Higher sensitivity allows the pad to produce a loud volume even when played softly. Lower sensitivity will keep the pad producing a low volume even when played forcefully.
Threshold	0–31	Minimum sensitivity of the pad This setting allows a trigger signal to be received only when the pad is above a determined force level (velocity). This can be used to prevent a pad from sounding because of vibrations from other pads. In the following example, B will sound but A and C will not sound. Check this and adjust accordingly. Repeat this process until you get the perfect setting for your playing style.
Curve	Volume change in response to pad strike strength	
	LINEAR	 The standard setting. This produces the most natural correspondence between playing dynamics and volume change.
	EXP1, EXP2	 Compared to LINEAR, strong dynamics produce a greater change.
	LOG1, LOG2	 Compared to LINEAR, a soft playing produces a greater change.
	SPLINE	 Extreme changes are made in response to playing dynamics.
	LOUD1, LOUD2	 Very little dynamic response, making it easy to maintain strong volume levels.



Connecting External Devices

English

日本語

Deutsch

Français

Italiano

Español

Português

Nederlands

简体中文

Connecting External Pads and Pedals

The OCTAPAD lets you connect a hi-hat control pedal, and also connect pedals or pads to the external trigger inputs.

After connecting an external pad or pedal to an EXTERNAL TRIGGER INPUT 1–4 jack, specify the Trigger Type setting as described below.

External Trigger Settings

1. Press the [SYSTEM] button.

2. Use the [◀] [▶] buttons to select “EXT TRIG”.

```
SYSTEM [ENTER]
◀▶EXT TRIG
```

3. Press the [ENTER] button.

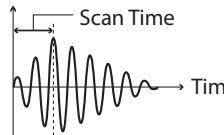
```
EXT TRIG ME1
▶Type PD108
```

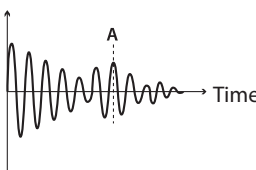
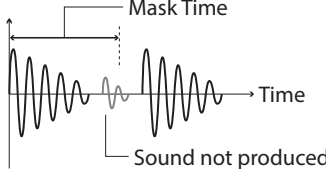
4. Strike or press the external pad or pedal that's connected to the EXTERNAL TRIGGER INPUT 1–4 jack to select it.

You can also make this selection by holding down the [ENTER] and using the [◀] [▶] buttons.

5. Use the [◀] [▶] buttons to select the item that you want to edit.

6. Use the [–] [+] buttons to select the value.

Parameter	Value	Explanation
Type	“Trig Type List” (p. 25)	Specifies the model of pad (trigger type) that is connected to EXTERNAL TRIGGER INPUT 1–4 jacks. MEMO When you specify the trigger type, the trigger parameters (with the exception of certain parameters such as cross-stick cancel) are set to optimal values. These values are only general guidelines; you can make fine adjustments as appropriate according to how you attach the pad and how you use it.
Sens	1.0–32.0	For an explanation of Sens, Threshold, and Curve, refer to “Specifying the Pad Sensitivity” (p. 22).
Threshold	0–31	
Curve	LINEAR	
	EXP1, EXP2	
	LOG1, LOG2	
	SPLINE	
Curve	LOUD1, LOUD2	
ScanTime	0–4.0ms	Trigger signal detection time Since the rise time of the trigger signal waveform may differ slightly depending on the characteristics of each pad or acoustic drum trigger (drum pickup), you may notice that identical hits (velocity) may produce sound at different volumes. If this occurs, you can adjust the “Scan Time” so that your way of playing can be detected more precisely.  While repeatedly hitting the drum trigger at a constant force, gradually raise the Scan Time value from 0 msec, until the resulting volume stabilizes at the loudest level. At this setting, try both soft and loud strikes, and make sure that the volume changes appropriately. * As the value is set higher, the time it takes for the sound to be played increases. Set this to the lowest value possible.

Parameter	Value	Explanation
RetrigCnl (Retrigger Cancel)	1–16	Detecting trigger signal attenuation When you strike a snare drum etc. to which a commercially available drum trigger is attached, there might be cases in which the waveform is misshapen, causing another trigger to unintendedly occur at point “A” in the following illustration (retriggering).  This occurs in particular at the decaying edge of the waveform. Retrigger Cancel detects such distortion in and prevents retriggering from occurring. While repeatedly striking the pad, raise the “Retrigger Cancel” value until retriggering no longer occurs. Although setting this to a high value prevents retriggering, it then becomes easy for sounds to be omitted when the drums played fast (roll etc.). Set this to the lowest value possible while still ensuring that there is no retriggering. MEMO You can also eliminate this problem of retriggering with the Mask Time setting. Mask Time does not detect trigger signals if they occur within the specified amount of time after the previous trigger signal was received. Retrigger Cancel detects the attenuation of the trigger signal level, and triggers the sound after internally determining which trigger signals were actually generated when the head was struck, while weeding out the other false trigger signals that need not trigger a sound.
MaskTime	0–64ms	Double triggering prevention When playing a kick trigger, the beater can bounce back and hit the head a second time immediately after the intended note—with acoustic drums sometimes the beater stays against the head—this causes a single hit to “double trigger” (two sounds instead of one). The Mask Time setting helps to prevent this. Once a pad has been hit, any additional trigger signals occurring within the specified “Mask Time” will be ignored.  Adjust the “Mask Time” value while playing the pad. When using a kick trigger, try to let the beater bounce back and hit the head very quickly, then raise the “Mask Time” value until there are no more sounds made by the beater rebound. Increasing this value makes it more likely that a note played in rapid succession will drop out. Set this to as low a value as possible. MEMO If two or more sounds are being produced when you strike the head just once, then adjust Retrigger Cancel.
Rim Gain	0–3.2	Adjusts the balance between the force of striking the rim or edge and the loudness of the sound. If you increase this value, even soft strikes on the rim are sounded at high volume. If you decrease this value, even strong strikes on the rim are sounded at low volume. * This is available only for pads that support rim shots.
H/R Adjust (Head/Rim Adjust)	0–80	This setting specifies how easy it is to play a head shot or rim shot. If the rim sound is heard when you strike the head strongly, increase this value. If the head sound is heard when you play an open rim shot, decrease this value. If the head sound is heard when you softly play a rim shot, decrease this value. MEMO If the rim shot sound is heard when you play a head shot, or if a head shot sound is heard when you play a rim shot, make small changes to the Head/Rim Adjust values while you continue trying out the results. Extreme changes to the values will cause the wrong sound to be heard when you strike the pad, for example producing the rim shot sound when you play a head shot. * This is available only for pads that support rim shots.
NoiseCnl (Ext Noise Cancel)	OFF, 1–5	This setting lets you prevent a drum from being triggered unwantedly by a strike on a drum to which no drum trigger is attached, or by sound or vibration from the surroundings (noise cancellation). This noise cancel function can be used if you use a stereo cable to connect an “RT-30K” or “RT-30HR” drum trigger to the EXTERNAL TRIGGER IN jacks and specify the Trig Type. * The “RT-30H” does not support the noise cancel function.
XTalkCnl	0–80	If two pads are attached to the same stand, the vibration from one struck pad may cause the other pad to sound without your intention. This is called “crosstalk”. Crosstalk cancellation is a setting that prevents this type of crosstalk. For details, refer to “Data List” (PDF).
VH SET	–	Settings for V-Hi-Hat * This is shown only when the Type is set to “VH11” or “VH10”. For details, refer to “VH SET setting” (p. 25).

Trig Type List

Used drum trigger	Trig Type	Rim shot	Choke play
KD-A22	KDA22	—	—
KD-200	KD200	—	—
KD-140	KD140	—	—
KD-120	KD120	—	—
KD-85	KD85	—	—
KD-10	KD10	—	—
KD-9	KD9	—	—
KD-8	KD8	—	—
KD-7	KD7	—	—
KT-10	KT10	—	—
KT-9	KT9	—	—
PD-128S, PD-128	PD128	✓	—
PD-125XS, PD-125X	PD125X	✓	—
PD-125	PD125	✓	—
PD-108	PD108	✓	—
PD-105X	PD105X	✓	—
PD-105	PD105	✓	—
PD-85	PD85	✓	—
PDX-100	PDX100	✓	—
PDX-12	PDX12	✓	—
PDX-8	PDX8	✓	—
PDX-6	PDX6	✓	—
PD-8	PD8	✓	✓
VH-11	VH11	✓	✓
VH-10	VH10	✓	✓
CY-16RT	CY16RT	✓	✓
CY-15R	CY15R	✓	✓
CY-14CT	CY14CT	✓	✓
CY-14C	CY14C	✓	✓
CY-13R	CY13R	✓	✓
CY-12C	CY12C	✓	✓
CY-12R/C	CY12R/C	✓	✓
CY-8	CY8	✓	✓
CY-5	CY5	✓	✓
Generic pads	BT1	—	—
	BT1 SENS*1	—	—
	PAD1	✓	✓
Generic pads	PAD2	✓	—
	PAD3	✓	✓
RT-30K	RT30K	—	—
RT-30HR	RT30HR	✓	—
RT-30H	RT30H SN*2	—	—
	RT30H TM*3	—	—
RT-10K	RT10K	—	—
RT-10S	RT10S	✓	—
RT-10T	RT10T	—	—

*1 When using the BT-1, it is possible to further increase the sensitivity for soft strikes, but this increases the possibility of unwanted triggering by vibration from the surroundings.

*2 Select this if you attach an RT-30H to the snare.

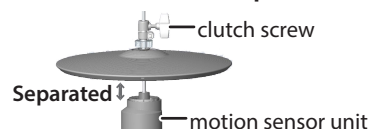
*3 Select this if you attach an RT-30H to a tom.

VH SET setting

Here's how to adjust the offset of the hi-hat (VH-10/VH-11).

* This can be set only if TYPE is set to VH-11 or VH-10.

1. With the hi-hat completely separated from the motion sensor unit, power-on the OCTAPAD.



2. Loosen the clutch screw and let the hi-hat rest naturally on the motion sensor unit.

3. In the procedure "External Trigger Settings" (p. 23), select "EXT TRIG" and then press the [ENTER] button.

4. Strike the hi-hat to select the pad.

5. Set "TYPE" to "VH11" or "VH10".

6. Use the [◀] [▶] buttons to select "VH SET", and then press the [ENTER] button.

```
EXT TRIG [ENTER]
◀ VH Set
```

7. If the screen indicates "Turn screw L", turn the offset adjustment screw counter-clockwise. If the screen indicates "Turn screw R", turn it clockwise.

```
Adjust HH Offset
0 Turn Screw L
```

offset
adjustment screw



When the value shown on the screen is approximately 80 and the "OK!" indication appears, the adjustment is complete.

8. Fasten the clutch screw so that the hi-hat opens to the amount you prefer.

Controlling hi-hat open/close

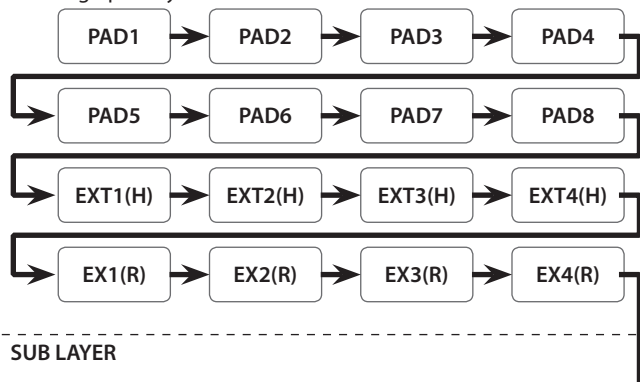
If a hi-hat control pedal is connected to the HH CTRL jack, it functions as a hi-hat control pedal for the hi-hat sound (HC) that is assigned to a pad. The closed hi-hat sound is heard if you strike the pad while pressing the pedal. When you strike the pad while gradually releasing the pedal, the sound transitions from the half-open to the open hi-hat sound, and the tonal character and decay length change smoothly. If you press the pedal, you hear the foot-close sound. You can play a foot-splash by pressing the pedal and then immediately releasing it.

MEMO

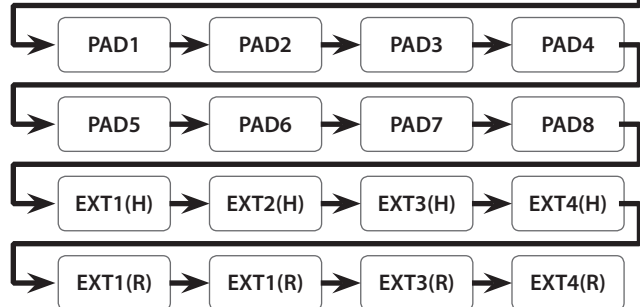
- The volume of the pedal hi-hat sound is specified by the pedal level (PedalHHVol) (p. 19).
- If a hi-hat sound (HC) is assigned to multiple pads, you'll hear the pedal hi-hat sound of the pad that has the highest priority as shown in the illustration below.
- If a hi-hat sound is not assigned to any pad, pressing the pedal does not produce sound.

MAIN LAYER

High priority



SUB LAYER



Low Priority

EX1(H): EXTERNAL TRIGGER INPUT 1 (HEAD)

EX1(R): EXTERNAL TRIGGER INPUT 1 (RIM)

Assigning the Footswitch

Here's how to assign the function of a footswitch connected to the FOOT SW jack.

- 1. Press the [SYSTEM] button.
- 2. Use the [◀] [▶] buttons to select "SOUND/CTRL".
- 3. Press the [ENTER] button.
- 4. Use the [◀] [▶] buttons to select "FSw1" or "FSw2".

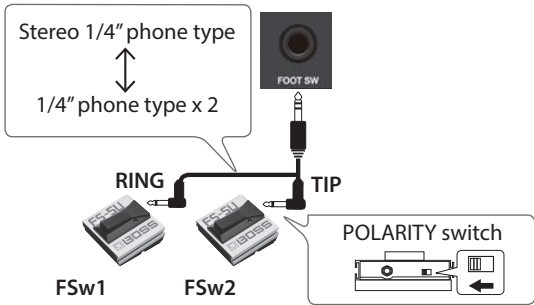


- 5. Use the [-] [+] buttons to select a value.

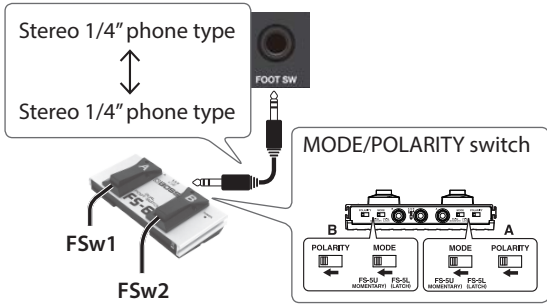
Value	Explanation
OFF	Disables the function of the footswitch.
KIT#DEC	Returns to the previous kit.
KIT#INC	Advances to the next kit.
CHAIN#DEC	Returns to the previous step of the kit chain.
CHAIN#INC	Advances to the next step of the kit chain.
MXF1 SW	Turns MXF1 on/off.
MXF2 SW	Turns MXF2 on/off.
MXF3 SW	Turns MXF3 on/off.
SOUNDOFF	Stops all sound being played by the OCTAPAD.
[-]	Works the same as the [-] button.
[+]	Works the same as the [+] button.
[SHIFT]	Works the same as the [SHIFT] button.

Connecting a footswitch

Connecting an FS-5U



Connecting an FS-6



MIDI Settings

MIDI Settings for the Entire OCTAPAD

1. Press the [SYSTEM] button.

2. Use the [◀] [▶] buttons to select "MIDI".

```
SYSTEM [ENTER]
◀▶MIDI
```

3. Press the [ENTER] button.

```
SYSTEM MIDI
▶Tx/Rx Sw OFF
```

Parameter	Value	Explanation
Tx/Rx Sw	OFF, ON	Turns the transmitting and receiving MIDI messages on/off.
GlobalCh	1–16Ch	Specifies the transmit/receive channel.
ProgChg Tx (Program Change Tx)	OFF, ON	Specifies whether program change messages will be transmitted (ON) to an external MIDI device or not transmitted (OFF). If this is "ON", a program change is transmitted when you switch kits.
ProgChg Rx (Program Change Rx)	OFF, ON	Specifies whether program change messages will be received (ON) from an external MIDI device or not received (OFF).
MIDI Thru	OFF, ON	If this is "ON", data received at MIDI IN connector will be re-transmitted from MIDI OUT connector.
LocalCtrl (Local Control)	OFF, ON	Turns on/off the connection between the performance data from the pads and the OCTAPAD's sound generator section. Normally you'll leave this "ON". If this is "OFF", the performance data from the pads is not connected to the OCTAPAD's sound generator section.
DeviceID	17–32	When transmitted or receiving system exclusive messages, set this to match the device ID numbers of the two units.
HH CC (HiHat Pedal Control)	OFF, 1:MOD, 2:BERATH, 4:FOOT, 11:EXP, 16:GEN1, 17:GEN2, 18:GEN3, 19:GEN4,	Specifies the control change message that will be transmitted and received as MIDI data indicating the depth to which the hi-hat pedal is pressed. With the "OFF" setting, MIDI messages will not be transmitted.
ChokeShot (Cymbal Choke Shot)	OFF, ON	Switches support for the performance technique of striking a pad while choking it. If this is "ON", striking a pad while choking it immediately mutes the sound after it begins. If this is "OFF", the sound is not muted immediately even if you strike a pad while choking it.
TxEidtData (Transmit Edit Data)	OFF, ON	Specifies whether changes in the OCTAPAD's settings are transmitted as system exclusive messages (ON) or not transmitted (OFF).
Rx SysEx (Receive System Exclusive)	OFF, ON	Specifies whether system exclusive messages are received (ON) or not received (OFF).

MEMO

You can specify the MIDI messages that are transmitted and received by a pad (p. 20).

Copying or Exchanging Kits, Pads, or Layers

You can copy or exchange a kit, pad, or layer. The following explanation uses the example of copying a pad. You can use the same procedure to execute other operations.

1. Press the [COPY/EXCHANGE] button.

```
COPY/EX [ENTER]
▶COPY KIT
```

2. Use the [◀] [▶] buttons to select a function.

```
COPY/EX [ENTER]
◀▶COPY PAD
```

Function	Parameter	Explanation
COPY KIT	From	Select the copy-source kit.
	To	Select the copy-destination kit.
COPY PAD	From	Select the copy-source pad.
	To	Select the copy-destination pad.
EXCHANGE KIT	From	Use FROM and TO to select the kits that you want to exchange.
	To	
EXCHANGE PAD	From	Use FROM and TO to select the pad that you want to exchange.
	To	
EXCHANGE LAYER	Main ↔ Sub	Exchanges the Main and Sub layers.

3. Press the [ENTER] button.

```
COPY PAD [ENTER]
From ◻KIT001: ◻P1
```

U: User
P: Preset

Pad number

4. Use the [–] [+] buttons to select the copy-source kit (From).

```
COPY PAD [ENTER]
From ◻KIT002: P1
```

- Use the [◀] button to move the cursor to “U” or “P”, and then use the [–] [+] buttons to select either U (user) or P (preset). If you select P (preset), data can be copied from the factory settings.
- To select the copy-source pad, press [▶] to move the cursor to the pad number, and then use the [–] [+] buttons to select the pad. You can also select a pad by striking that pad.

```
COPY PAD [ENTER]
From ◻KIT002: ◻P2
```

5. Press the [ENTER] button.

```
COPY PAD [ENTER]
To KIT001: P1
```

6. Use the [–] [+] buttons to select the copy-destination kit (To).

```
COPY PAD [ENTER]
To ◻KIT003: P1
```

To select the copy-destination pad, press [▶] to move the cursor to the pad number, and then use the [–] [+] buttons to select the pad. You can also select a pad by striking that pad.

```
COPY PAD
To KIT003: ◻P3
```

7. Press the [ENTER] button.

Verify that you have specified the desired copy-source and copy-destination kit and pads.

```
COPY PAD [ENTER]
◻002: P2→◻003: P3
```

8. Press the [ENTER] button once again.

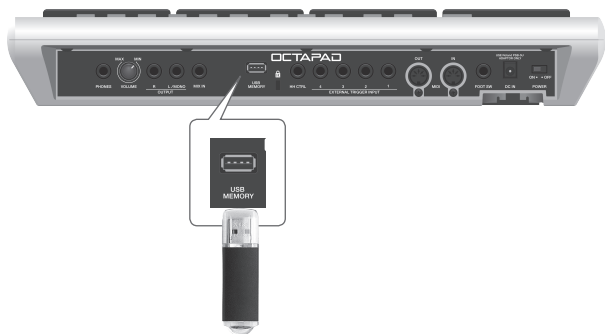
```
Sure? OK: [ENTER]
CANCEL: [EXIT]
```

9. Press the [ENTER] button to execute.

If you decide to cancel, press the [EXIT] button.

Using a USB Flash Drive

If you connect a USB flash drive (sold separately) to the USB MEMORY port, you can back up all settings (or the settings of an individual kit that you specify) to the USB flash drive.



Saving/Loading Settings

NOTE

- Never insert or remove the USB flash drives while this unit is turned on. Doing so may corrupt the unit's data or the data on the USB flash drives.
- Taking care that the connector of the USB flash drive is oriented correctly, insert it all the way into the port. Do not use excessive force.
- Do not strike the pads while data is being saved or loaded. The vibration might cause an error to occur. While the USB settings screen is shown, sound is not produced even if you strike a pad.

1. Press the [SYSTEM] button.

2. Use the [◀] [▶] buttons to select "USB MEMORY".

```
SYSTEM [ENTER]
▶USB MEMORY
```

3. Press the [ENTER] button.

The USB MEMORY screen appears.

```
USB MEMORY
▶SaveAll[ENTER]
```

4. Use the [◀] [▶] buttons to select a function.

```
USB MEMORY
◀▶LoadAll[ENTER]
```

Function	Explanation
SaveAll	Backs-up all of the OCTAPAD's settings to the USB flash drive.
LoadAll	Loads previously-saved backup data from the USB flash drive into the OCTAPAD.
DelAll	Deletes individual items of previously-saved backup data from the USB flash drive.
SaveKit	Backs-up the settings of the individual OCTAPAD kit that you specify to the USB flash drive.

Function	Explanation
LoadKit	Loads the individual kit that you specify from the USB flash drive into the OCTAPAD (p. 32).
DelKit	Deletes backup data of a previously-saved individual kit from the USB flash drive.
Format	Formats the USB flash drive.

SaveAll

1. Access the USB MEMORY screen (p. 30).

2. Select "SaveAll", and then press the [ENTER] button.

```
USB MEMORY
▶SaveAll[ENTER]
```

3. Use the [-] [+] buttons to specify the save-destination, and then press the [ENTER] button.

```
Save to [ENTER]
1:Backup
```

4. Use the [◀] [▶] buttons and the [-] [+] buttons to specify a name for the backup, and then press the [ENTER] button.

```
Name [ENTER]
[Backup ]
```

↓[ENTER]

```
Sure? OK:[ENTER]
CANCEL:[EXIT]
```

5. Press the [ENTER] button to save the data.

All settings of the OCTAPAD are backed-up to the USB flash drive.

If you decide to cancel, press the [EXIT] button.

LoadAll

1. Access the USB MEMORY screen (p. 30).

2. Select "LoadAll" and then press the [ENTER] button.

```
USB MEMORY
◀▶LoadAll[ENTER]
```

3. Use the [-] [+] buttons to select the data that you want to load, and then press the [ENTER] button.

Select [ENTER]
1:Backup

↓[ENTER]

Sure? OK:[ENTER]
CANCEL: [EXIT]

4. Press the [ENTER] button to load the data.

All data saved in the OCTAPAD is loaded into the OCTAPAD.

If you decide to cancel, press the [EXIT] button.

NOTE

When all data is loaded, all data in the OCTAPAD is overwritten. Any important data should be backed-up beforehand.

DelAll

1. Access the USB MEMORY screen (p. 30).
2. Select "DelAll" and then press the [ENTER] button.

USB MEMORY
◀▶DelAll [ENTER]

3. Use the [-] [+] buttons to select the data that you want to delete, and then press the [ENTER] button.

Select [ENTER]
1:Backup

↓[ENTER]

Sure? OK:[ENTER]
CANCEL: [EXIT]

4. Press the [ENTER] button to delete the data.

If you decide to cancel, press the [EXIT] button.

SaveKit

1. Access the USB MEMORY screen (p. 30).
2. Select "SaveKit" and then press the [ENTER] button.

USB MEMORY
◀▶SaveKit[ENTER]

3. Use the [-] [+] buttons to select the kit that you want to save, and then press the [ENTER] button.

From [ENTER]
1 SPD-20 01

4. Use the [-] [+] buttons to specify the save-destination, and then press the [ENTER] button.

To [ENTER]
1

↓[ENTER]

Sure? OK:[ENTER]
CANCEL: [EXIT]

5. Press the [ENTER] button to save the data.

If you decide to cancel, press the [EXIT] button.

LoadKit

1. Access the USB MEMORY screen (p. 30).
2. Select "LoadKit", and then press the [ENTER] button.

USB MEMORY
◀▶LoadKit[ENTER]

3. Use the [-] [+] buttons to select the kit that you want to load, and then press the [ENTER] button.

From [ENTER]
1

4. Use the [-] [+] buttons to select the load-destination in the OCTAPAD, and then press the [ENTER] button.

To [ENTER]
1 SPD-20 01

↓[ENTER]

Sure? OK:[ENTER]
CANCEL: [EXIT]

5. Press the [ENTER] button to load the data.

If you decide to cancel, press the [EXIT] button.

DelKit

1. Access the USB MEMORY screen (p. 30).
2. Select "DelKit" and then press the [ENTER] button.



3. Use the [-] [+] buttons to select the data that you want to delete, and then press the [ENTER] button.



↓ [ENTER]



4. Press the [ENTER] button to delete the data.

If you decide to cancel, press the [EXIT] button.

Formatting a USB Flash Drive

NOTE

When you format a USB flash drive, all data on the USB flash drive is erased.

1. Access the USB MEMORY screen (p. 30).
2. Select "Format", and then press the [ENTER] button.



A confirmation screen appears.



3. Press the [ENTER] button once again.



4. Press the [ENTER] button to format the USB flash drive.

If you decide to cancel, press the [EXIT] button.

Other Functions

Adjusting the Display Contrast

1. Press the [SYSTEM] button.
2. Use the [◀] [▶] buttons to select "OPTION", and then press the [ENTER] button.



3. Use the [◀] [▶] buttons to select "LcdContrast".



4. Use the [-] [+] buttons to select the value.

Restoring the Factory Settings

1. Press the [SYSTEM] button.
2. Use the [◀] [▶] buttons to select "FACTORY RESET", and then press the [ENTER] button.




3. Press the [ENTER] button to execute FACTORY RESET.

If you decide to cancel, press the [EXIT] button.

NOTE

When you execute this operation, all data and settings in the OCTAPAD is lost. In advance, you should back up any important data or settings to a USB flash drive (p. 30).

Adjusting the Signal Level of the OUTPUT Jacks and PHONES Jack

1. Press the [SYSTEM] button.
2. Use the [◀] [▶] buttons to select "SOUND/CTRL", and then press the [ENTER] button.



3. Use the [◀] [▶] buttons to select "OutGain".



4. Use the [-] [+] buttons to select the value.

* If you raise "OutGain" excessively, the sound might distort.

Setting the AUTO OFF Function

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function. To restore power, turn the power on again (p. 11).

1. Press the [SYSTEM] button.
2. Use the cursor buttons to select "OPTION", and then press the [ENTER] button.



3. Use the [◀] [▶] buttons to select "AutoOff".



4. Use the [-] [+] buttons to set the auto off function.

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

If you specify 4 HOURS, the message "Turn Off if Not Used for 4 Hours". appears; press [ENTER].

Viewing the Version

Here's how to view the program version.

1. Press the [SYSTEM] button.
2. Use the [◀] [▶] buttons to select "VERSION", and then press the [ENTER] button.



Error Messages

Category	Message	Meaning	Action
MIDI	MIDI Offline.	The MIDI cable was disconnected. Alternatively, communication with the external MIDI device has been interrupted for some reason.	Check whether the MIDI cable could have been disconnected or broken.
	MIDI BufferFull!	A large amount of MIDI messages was received in a short time, and the OCTAPAD was unable to process them all.	Make sure that the external MIDI device is correctly connected. If this does not solve the problem, decrease the amount of MIDI messages being transmitted to the OCTAPAD.
USB Memory	No Backup File!	The USB flash drive contains no backup data.	–
	No USB Memory!	USB flash drive is not connected.	Insert the USB flash drive correctly.
	USB Memory Full!	There is insufficient free space on the USB flash drive.	Delete unneeded data.
	Incorrect File!	The backup data or the kit backup data is damaged.	Do not use this data.
	Media Error!	The contents of the USB flash drive are damaged.	Copy any important data from the USB flash drive, and then use the OCTAPAD to format the USB flash drive (p. 32). If this does not solve the problem, try using a different USB flash drive.
	Failed to Clear!	Failed to format the USB flash drive.	Insert the USB flash drive correctly.

Troubleshooting

Trouble	Items to check	Action
No sound / Insufficient volume	Is the OCTAPAD and the connected equipment powered-on?	Use the dedicated AC adaptor.
	Is the OCTAPAD correctly connected to the external devices?	Check the connections.
	Could an audio cable be broken?	Try using a different cable.
	Could the volume of the OCTAPAD or a connected device be lowered?	Adjust the volume to an appropriate level.
	Could an instrument be off, or could the level of a sound parameter be set to 0?	Check each parameter.
	Is the pad or external trigger set to an appropriate sensitivity?	Check the sensitivity and settings of the pad or external trigger.
USB flash drive is inserted, but is not detected / Cannot select data	Is the USB flash drive inserted correctly?	Check the USB flash drive.
A pad you did not strike is heard	Could the impact be causing another pad to respond?	If this is a problem, lower the pad's minimum sensitivity. (p. 22).
Unexpected sounds are heard when switching kits	–	If a sound played using the previous kit is still ringing out when you switch kits, you may hear an unexpected sound. This is because the settings of the new kit (such as its effects) are applied to the sound still ringing out from the previous kit. To prevent this, switch kits only after the sounds from the previous kit have stopped ringing out, or follow the directions in "Stopping All Currently-Heard Sound" (p. 11) before switching kits.

Specifications

Pads	Built-in Pads: 8 * Four external trigger inputs are provided, allowing you to connect Pads.
Instruments	Instruments: 900 instruments or greater
Kits	200 (Preset: 100)
Kit Chain	16 chains (16 steps per chain)
Layer	2 layers per pad 2 layers x 2(Head/Rim) per external Trigger
Instrument /Pad Parameters	Layer Type Fade Point Volume Curve Fixed Value Pad Minimum Volume Coarse Tune Fine Tune Pedal Bend Decay Fixed Hi-Hat Pan Output MFX Select MFX Send Volume Ambience Send Volume Layer EQ Pad comp Pad Mute Group Pad Link
Kit Effects	Ambience (5 Types) Kit EQ Kit Comp MFX: 3 systems, 38 types
Display	16 characters 2 line (backlit LCD) 7 segments, 3 characters (LED)
Connectors	PHONES Jack: Stereo 1/4-inch phone type OUTPUT(L/MONO, R) Jacks: 1/4-inch phone type MIX IN Jack: Stereo 1/4-inch phone type EXTERNAL TRIGGER INPUT Jack: 1/4-inch TRS phone type x 4 HH CTRL Jack: 1/4-inch phone type FOOT SW Jack: 1/4-inch TRS phone type MIDI (IN, OUT) Connectors USB MEMORY port: USB A type

Power Supply	AC adaptor (DC 12 V)
Current Draw	500 mA
Dimensions	450(W) x 350 (D) x 72 (H) mm 17-3/4 (W) x 13-13/16 (D) x 2-7/8 (H) inches
Weight	3.7 kg / 8 lbs 3 oz (excluding AC Adaptor)
Accessories	Owner's Manual AC Adaptor
Options (sold separately)	Pads (PD series, PDX series, BT series) Cymbals (CY series) Kick Triggers (KD series) Hi-Hats (VH-11/10) Hi-Hat Control Pedal (FD series) Pad Stand (PDS series) All-Purpose Clamp (APC series) Acoustic Drum Trigger (RT series) Footswitch (FS series) Personal Drum Monitor (PM series)

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

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