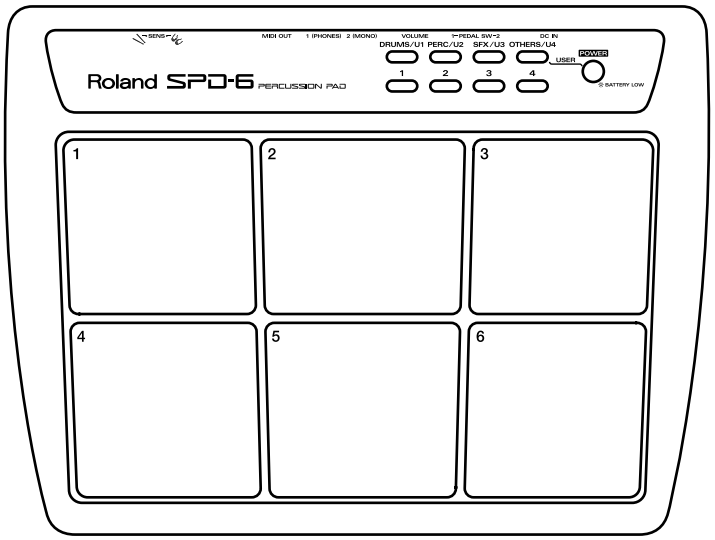
Roland®

SPD-6 PERCUSSION PAD

Owner's Manual

Thank you and congratulations on your choice of the Roland SPD-6.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" (p. 2–3) and "IMPORTANT NOTES" (p. 4). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.



Terms Used in This Manual

- Names of buttons are enclosed in square brackets; e.g., [DRUMS/U1].
- Patch (sound set) names are listed as DRUMS-1 or U2-2, etc.
- Paragraphs preceded by NOTE are notes of caution. Be sure to read them.
- (p. **) indicates a reference page.
- In a table, procedures are summarized as follows.
  [DRUMS/U1]→[1]:
  1. Press the [DRUMS/U1] button.
  2. Press the [1] button.

* GS ( ) is a registered trademark of Roland Corporation.

Copyright © 2000 ROLAND CORPORATION

All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION.

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

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.

- Do not open (or modify in any way) the unit or its AC adaptor.

- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.

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

⚠WARNING

- When using the unit with a rack or stand recommended by Roland, the rack or stand must be carefully placed so it is level and sure to remain stable. If not using a rack or 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.

- Use only the specified AC adaptor (BOSS PSA series), and 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.

- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

- This unit, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level, or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should immediately stop using the unit, and consult an audiologist.

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

⚠ WARNING

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  - The AC adaptor or the power-supply cord has been damaged; 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.

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

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

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

- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- Batteries must never be recharged, heated, taken apart, or thrown into fire or water.

⚠ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

- Always grasp only the plug or the body of the AC adaptor when plugging into, or unplugging from, an outlet or this unit.

- Whenever the unit is to remain unused for an extended period of time, disconnect the AC adaptor.

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

⚠ CAUTION

- Never climb on top of, nor place heavy objects on the unit.

- Never handle the AC adaptor body, or its plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.

- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (p. 12).

- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

- If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions.
  - Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity.
  - Avoid using new batteries together with used ones. In addition, avoid mixing different types of batteries.
  - Remove the batteries whenever the unit is to remain unused for an extended period of time.
  - If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes.
  - Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc.

- Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.

- Should you remove stand holder mounting screws, make sure to put them in a safe place out of children's reach, so there is no chance of them being swallowed accidentally.

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 2–3, please read and observe the following:

Power Supply: Use of Batteries

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- The use of an AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the alkaline type.
- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to speakers or other devices.
- Batteries are supplied with the unit. The life of these batteries may be limited, however, since their primary purpose was to enable testing.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

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 device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- Do not expose the unit to direct sunlight, place it near devices that radiate heat, leave it inside an enclosed vehicle, or otherwise subject it to temperature extremes. Excessive heat can deform or discolor the unit.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Please be aware that the contents of memory can be irretrievably lost as a result of a malfunction, or the improper operation of the unit. To protect yourself against the risk of losing important data, we recommend that you write down important data on paper.
- Unfortunately, it may be impossible to restore the contents of data that was stored in the unit's memory once it has been lost. Roland Corporation assumes no liability concerning such loss of data.
- 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.
- When connecting / 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 your neighbors, try to keep the unit's volume at reasonable levels. You may prefer to use headphones, so you do not need to be concerned about those around you (especially when it is late at night).
- 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 to neighbors, especially when performing at night and when using headphones.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Do not strike the pads extremely strong. Be careful to prevent your fingers or hands from injury.

Contents

USING THE UNIT SAFELY 2

IMPORTANT NOTES 4

Contents 5

Main Features 7

Parts of the SPD-6 and Their Function 8

What Is a Patch? 10

Preparations 11

Check the Contents of the Box 11
Install Batteries 11
About the Auto Power Off Function 12
Defeating the Auto Power Off Function 12
Using the AC Adaptor 12
Holding the SPD-6 13
Attaching the SPD-6 to a Stand 13
Connecting Audio System, or Amp 14
Connecting Headphones 14
Connecting a Pedal Switch 15
Example of Using Pedal Switch 1 15
Turning the Power On 16
Turning the Power Off 17

Playing 18

Playing the SPD-6 18
Select a Patch 18
Try Selecting Various Patches 19

Basic Rhythms for Playing With Other Musicians 20

Playing an 8-Beat Rhythm Pattern 20
Playing an 8-Beat Fill-in Pattern 20
Playing a Salsa Rhythm 21
Playing a Samba Rhythm 21

Creating Your Own Patch 22

Make Settings for the Pad and the Pedal Switch 24

Pad Velocity Curve 24
Pedal Switch Velocity 24

Settings for the Entire SPD-6 (System) 25

Trigger Threshold 25
Trigger Sensitivity (Hand/Stick) 25

Contents

Features Using MIDI 26

Connecting the SPD-6 to an External MIDI Sound Module 26
Other Ways to Use the SPD-6 26
How the Sounds Are Produced 27
Creating Your Own Patch 27
Make Settings for Each Patch 28
Specifying the Combination of Program Change and Bank Select to be Transmitted 28
Input the Program Change and Bank Select MSB/LSB 29
Make Settings for Each Pad 30
Changing the Transmitted Note Numbers 30
Setting the Gate Time 31

Troubleshooting 32

Problems Concerning the Entire SPD-6 32
MIDI-Related Problems 32
Error Message List 32

Restoring the Factory Settings (Factory Reset) 33

Patch List (Preset Group) 34

When Playing the Internal Sounds of the SPD-6 34
When Playing a Drum Set of an External MIDI Sound Module (Via MIDI) 36

Internal Sounds List 38

About MIDI 39

About MIDI OUT Connector 39
About General MIDI/General MIDI 2/GS 39

MIDI Implementation 40

Specifications 42

Operation List 43

Power-on Functions 43
Edit Functions 43

Blank Chart 44

Index 46

Main Features

The SPD-6 is a compact, lightweight percussion pad that you can play with either your hands or with drum sticks.

Select From 32 Patches

The SPD-6 contains a total of 32 patches: 16 patches whose settings cannot be modified (the preset group), and 16 patches whose settings you can modify (the user group).

The patches of the preset group include conventional drum sets, conga and bongo sets, and sound effect sets.

Selecting and Playing Your Favorite Percussion Instruments or Sound Effects

Sixteen of the 32 are User (you!) patches allowing you to select a different sound for each of the six pads, to create your personalized patch.

Select your favorites from the 113 different sounds built into the SPD-6.

Other Ways to Use the SPD-6

Play Sound Effects Available Only on Electronic Musical Instruments

The SPD-6 can play not only drums and percussion, but also sound effects. This can be helpful in recording or performing.

Use the SPD-6 As an Addition to Electronic or Acoustic Drums

The SPD-6 can also be used with electronic drum sets or acoustic drums.

By connecting the SPD-6 via MIDI to an external sound module or an electronic drum set use it to play other drum/percussion sounds. Or use the SPD-6 connected to an amp playing the internal sounds as an addition to your acoustic drums.

Easy Connection to General MIDI 2 (GENERAL midi2)/GS (GS) Devices

By using a MIDI cable to connect to a sound module carrying the General MIDI 2 (GENERAL midi2)/GS (GS) logos, you can simply select a patch and start playing the SPD-6.

Using the SPD-6 With Your Computer to Make Music

Since you can specify the note number, program change, and bank select, the SPD-6 is ideal for use with computer based music systems.

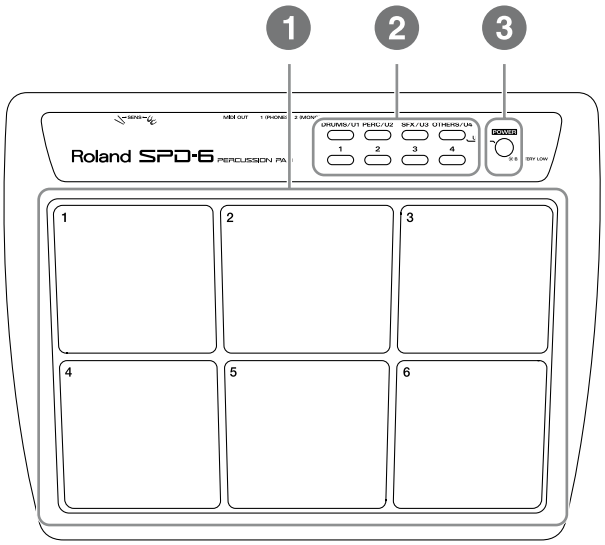
Play Ensembles with an Electronic Piano

Enjoy ensemble playing with various instruments by sounding the drum set of an electronic piano or other instrument, or by using the internal sounds of the SPD-6.

Use audio cables or the included MIDI cable to connect the SPD-6 to your MIDI device.

Parts of the SPD-6 and Their Function

Front Panel



1 Pads 1–6

There are six pads; pad 1– pad 6 each pad corresponds to the sounds of the selected patch.

2 Patch select buttons

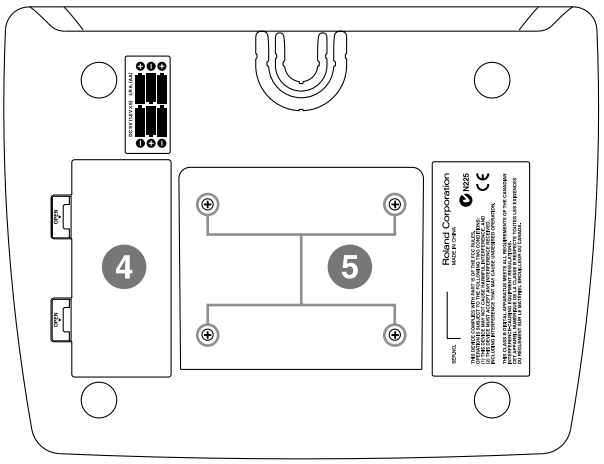
Use the four buttons of the upper row and the four buttons of the lower row to select patches (p. 18).

For advanced operation, these buttons are used to select parameters or values (p. 26).

3 [POWER] button

This button turns the power of the SPD-6 on or off (p. 16).

Bottom Panel



4 Battery cover

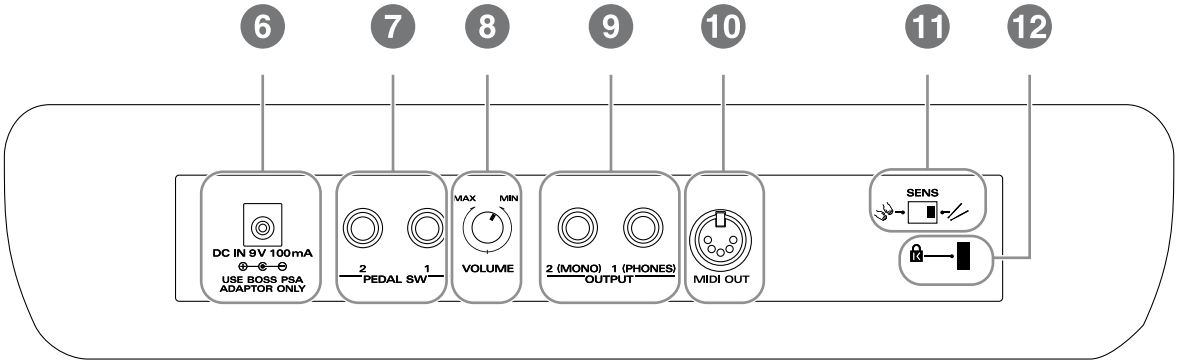
Open this cover to insert or replace the batteries (p. 11).

5 Stand holder mounting screw

Use this when mounting the SPD-6 on a Pad Stand (sold separately: PDS-15) or All Purpose Clamp (sold separately: APC-33) (p. 13).

The screws included with the PDS-15 or APC-33 cannot be used. You must use the stand holder mounting screw.

Rear Panel



6 AC adaptor jack

When using the separately sold AC Adaptor BOSS PSA series, connect it to this jack (p. 12).

7 [PEDAL SW] jacks

Pedal switches (sold separately: DP-2) or foot switches (sold separately: BOSS FS-5U) can be connected here to play sounds (p. 15).

8 [VOLUME] knob

This knob adjusts the volume of the SPD-6's internal sounds (p. 17).

9 [OUTPUT] 1 (PHONES)/2 (MONO) jacks

These jacks output the internal sounds of the SPD-6, and are for connection to external audio devices or amps (p. 14).

If using a single cable for monaural output, you must use the "2 (MONO)" jack.

If using headphones, connect them to the "1 (PHONES)" jack (p. 14). When you use headphones, do not connect anything to the "2 (MONO)" jack.

* *The internal sounds of the SPD-6 will be output in monaural.*

10 MIDI OUT connector

Connect a MIDI cable to this connector when making connections to an external MIDI device (p. 26).

11 [SENS] select switch

This sets the sensitivity of the pads, as you may play with sticks or your hand (p. 18). For hands, set this to the position. For drumsticks, set this to the position.

12 MicroSaver Security Slot ( )

MicroSaver and Kensington are registered trademarks of Kensington Microware Limited.

© 1997 Kensington Microware Limited

Kensington Microware Limited
2855 Campus Drive
San Mateo, CA 94403 U.S.A.
Web:www.kensington.com

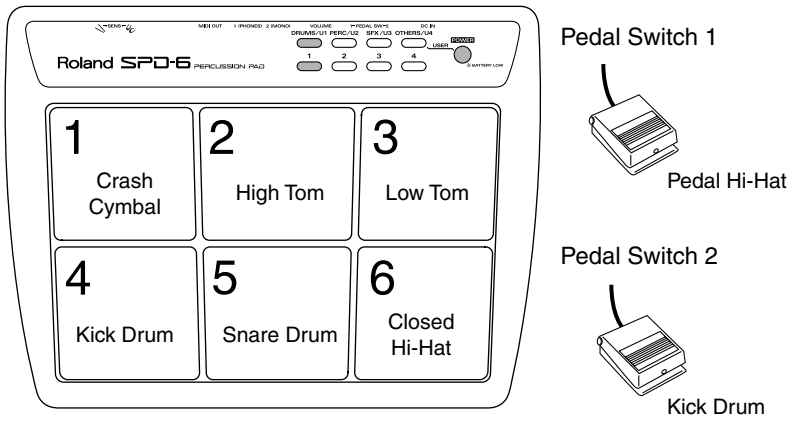
What Is a Patch?

A patch is a collection of the eight sounds that are played when you strike the six pads or press a pedal switch (sold separately).

The SPD-6 contains a total of 32 patches: 16 patches whose settings cannot be modified (**the preset group**), and 16 patches whose settings you can modify (**the user group**). The selection of whether you will play using preset or user patches is made when you turn on the power of the SPD-6 (p. 16).

For the sounds of the patches in the preset group, refer to "Patch List (Preset Group)" (p. 34).

Example Patch ("DRUMS-1" of the Preset Group)



About the Patch Name

The patch name is shown (for example) as DRUMS-1 or U2-2.

Preset Group: Press the [POWER] button to turn on the power

DRUMS - 1
- Press the [1] button
- Press [DRUMS/U1]

User Group: Hold down the [OTHERS/U4] button and press the [POWER] to turn on the power

U2 - 2
- Press the [2] button
- Press [PERC/U2]

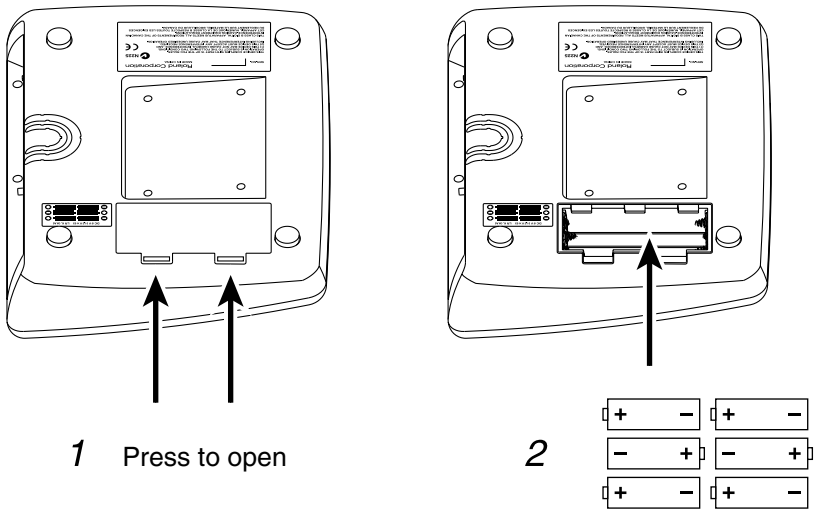
Preparations

Check the Contents of the Box

- ❏ SPD-6
- ❏ MIDI cable
- ❏ Dry battery (R6 (AA) type) x 6
- ❏ Stand holder mounting screw x 4
  ** Attached to the bottom panel* (p. 8)
- ■ Owner's Manual (this manual)

Install Batteries

Install the included batteries.



1

Open the battery cover (p. 8) located on the back of the SPD-6.

2

Insert the six included dry batteries (R6 (AA) type) in the orientation shown by the diagram.

NOTE

Be careful to observe the correct polarity (+, - direction) of the batteries.

3

Close the battery cover.

HINT

Using an AC adaptor (p. 12)

If an AC adaptor is desired, use the separately sold AC adaptor BOSS PSA series.

MEMO

Expected battery life under continuous use:

Carbon: 8 hours

Alkaline: 20 hours

These figures will vary depending on the actual conditions of use.

NOTE

- When operating on battery power only, the [POWER] button will blink when battery power gets too low. Replace the battery as soon as possible.
- The settings of the SPD-6 will be remembered even if the batteries run down.

About the Auto Power Off Function

The power will turn off automatically if the SPD-6 is not used for approximately 10 minutes.

To play the SPD-6, turn on the power once again (p. 16).

Defeating the Auto Power Off Function

You can defeat the Auto Power Off function by using the following procedure to turn on the SPD-6.

If playing the preset group patches

Hold down [DRUMS/U1] and press [POWER] to turn on the power.

If playing the user group patches

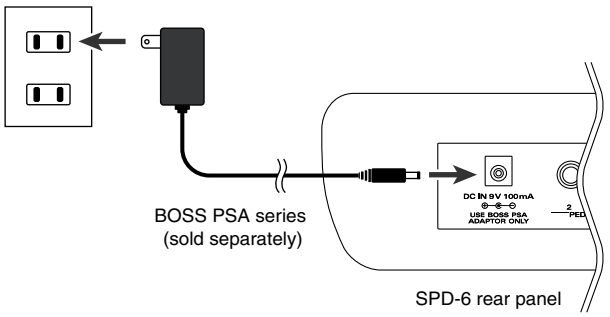
Hold down [DRUMS/U1] and [OTHERS/U4], and press [POWER] to turn on the power.

NOTE

- When using the SPD-6 with batteries, we recommend that you use the Auto Power Off function in order to conserve the batteries.
- The Auto Power Off function is also in effect even when the AC adaptor is used.

Using the AC Adaptor

You can use a separately sold AC Adaptor BOSS PSA series.



NOTE

Use only the specified AC Adaptor BOSS PSA series. To purchase this adaptor, contact the dealer where you purchased the SPD-6.

1 Turn off the power of all devices before you make connections.

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

2 Connect the separately sold AC Adaptor BOSS PSA series to the AC adaptor jack (p. 9).

3 Plug the AC adaptor into an AC outlet.

Holding the SPD-6



Hold it with your hand



Put it on your lap

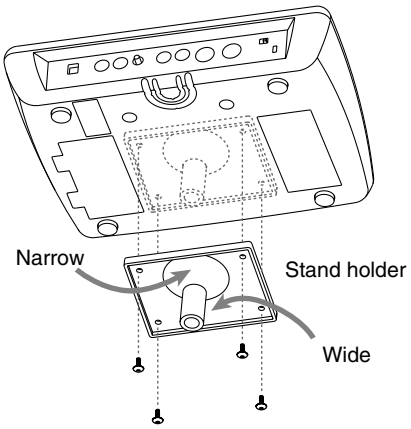
NOTE

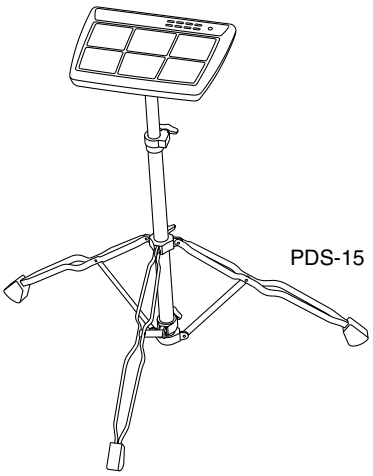
Rubber feet are attached to the bottom side of the SPD-6, but when placing it on a surface such as a table or electronic piano, you should still be careful not to scratch the surface.

Attaching the SPD-6 to a Stand

You can use a pad stand (sold separately: PDS-15) to set up the SPD-6.

By using the all purpose clamp (sold separately: APC-33), you can attach the SPD-6 to a commercially available tom stand or cymbal stand. It can be attached to a pipe of 10.5 mm–30 mm radius.





NOTE

- The screws included with the PDS-15 or APC-33 cannot be used. To attach the stand holder, remove the four screws from the bottom of the SPD-6 and use them.
- Never attach the SPD-6 to an unstable stand or a stand that is insufficiently strong. It may fall over and damage your equipment or cause personal injury.

Connecting Audio System, or Amp

The internal sounds of the SPD-6 will be output in monaural.

1

Before making connections, turn off the power of all devices.

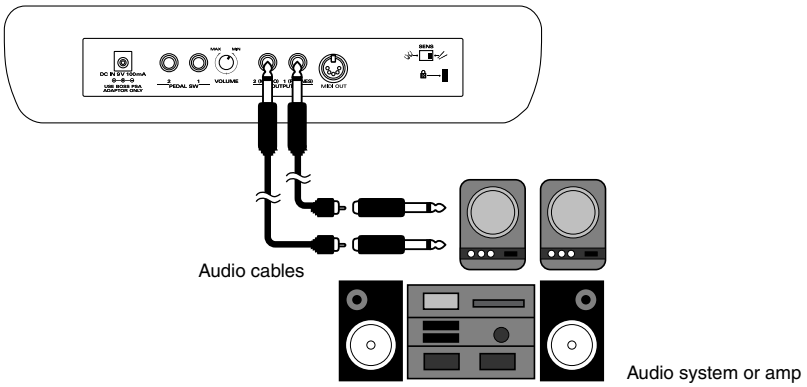
NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

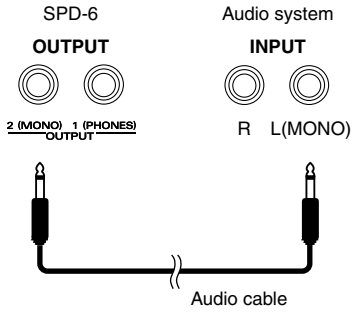
2

Use an audio cable to connect the [OUTPUT] jack(s) on the rear panel of the SPD-6 to the input jack(s) of your audio system or amp.

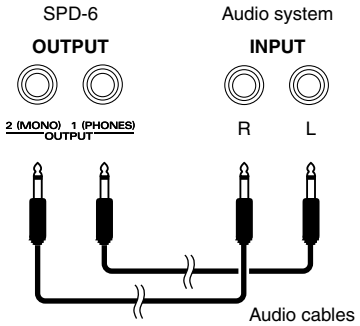
If using one monaural cable to make connections, connect the SPD-6's [OUTPUT] 2 (MONO) jack to the "MONO" jack of your audio system or amp.



When using one cable for connections



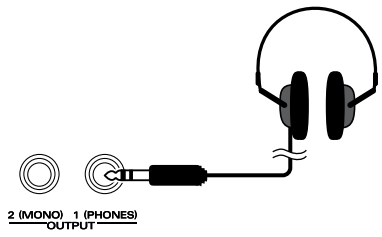
When using two cables for connections



Connecting Headphones

1

Connect headphones to the [OUTPUT] 1 (PHONES) jack on the rear panel of the SPD-6.



NOTE

If you are using headphones, do not connect anything to the [OUTPUT] 2 (MONO) jack.

Connecting a Pedal Switch

Pedal switches (sold separately: DP-2) or foot switches (sold separately: BOSS FS-5U) can be used as follows.

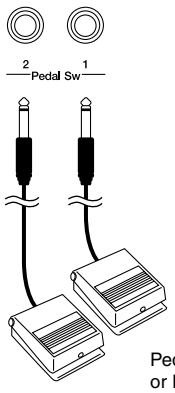
Connect to the [PEDAL SW] 1 jack

- When you press the pedal switch, the selected sound will be heard.
- Switch the sound of the pad for which closed hi-hat was selected. This allows you to play both open, pedal and closed hi-hat sounds (like a real hi-hat).

Connect to the [PEDAL SW] 2 jack

- When you press the pedal switch, the selected sound will be heard.

1 Connect pedal switches to the [PEDAL SW] 1/2 jacks on the rear panel of the SPD-6.



Pedal Switch (sold separately: DP-2)
or Foot Switch (sold separately: BOSS FS-5U)

HINT

To control the opening/closing of the hi-hat using pedal switch 1, assign the internal sounds "49 Pedal Hi-Hat," "51 808 Closed Hi-Hat 1," "52 808 Closed Hi-Hat 2," or "114 Off" to pedal switch 1.

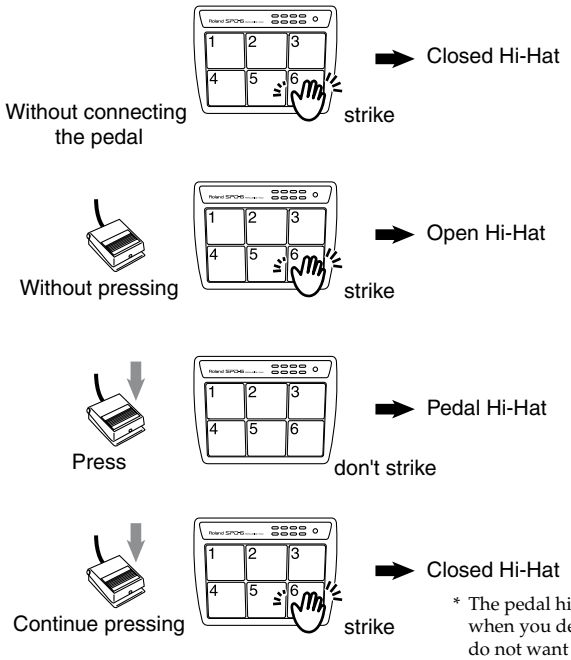
You can also control the opening/closing of the hi-hat when using the SPD-6 to sound an external MIDI sound generator (p. 30).

NOTE

Roland recommends that you use a DP-2 pedal switch or a BOSS FS-5U foot switch. Other brand foot switches may not operate correctly. Inquire about this at the store where you purchased the SPD-6.

Example of Using Pedal Switch 1

When DRUMS-1 of the preset group is selected, you can play as follows.



* The pedal hi-hat sound will be heard when you depress the pedal. If you do not want to play the sound, refer to p. 23.

HINT

For the procedure of selecting DRUMS-1 of the preset group and for more details, refer to p. 18.

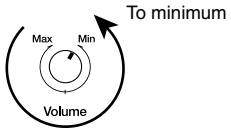
Turning the Power On

NOTE

Once the connections have been completed (p. 14), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

1 Turn the [VOLUME] knob on the rear panel of the SPD-6 all the way toward the left, setting the volume to the minimum position.

SPD-6 [VOLUME] Knob

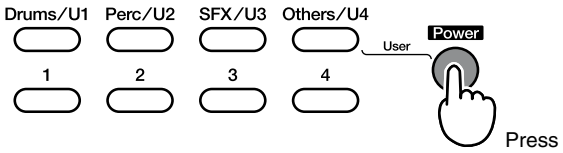


2 Turn the volume down to the minimum on the connected amp or audio system.

3 Turn on the power of the SPD-6.

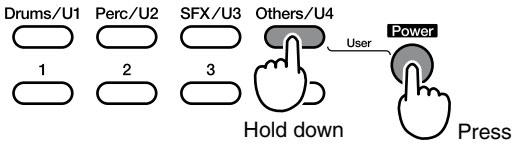
When playing preset group patches

Press [POWER] to turn on the power.



When playing user group patches

Hold down [OTHERS/U4] and press [POWER] to turn on the power.



4 Turn on the power of the connected amp or audio system.

NOTE

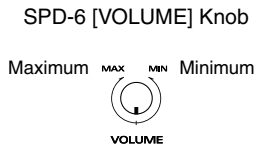
This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

HINT

When playing a drum set of a MIDI sound module

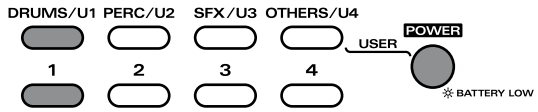
To specify the drum set used by the MIDI sound module, select a patch on the SPD-6.

5 While playing sounds on the SPD-6, adjust the volume of the connected amp or audio system.



Caution When Turning on the Power

After turning on the power, touch the pads or pedals until the [DRUMS/U1] button and [1] button light as shown in the following diagram.



If you touch the pads or pedals before the buttons light, you may experience problems like no sound, or low volume.

Turning the Power Off

1 Completely turn down the volume of the SPD-6 and any connected external devices.

2 Turn off the power to all external devices.

3 Hold down the SPD-6's [POWER] button for at least a second to turn off the power.

NOTE

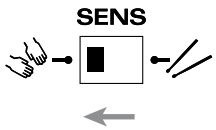
To prevent the power from being turned off accidentally while you are playing the SPD-6, the power is not switched off unless you hold down [POWER] for at least a second.

Playing

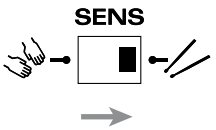
Playing the SPD-6

The SPD-6 can be struck either with your hand or with drumsticks. Set the rear panel [SENS] select switch (p. 9) to the appropriate setting for the playing method you choose.

When using your hand to play the SPD-6



When using drumsticks to play the SPD-6



Please Note When Playing

- **To play the SPD-6, you must accurately strike the center of the pad.**
  If you strike the edge of the pad, a different pad may sound.
- **Do not strike the case, buttons, or any other areas other than the pads.**
  Doing so may result in malfunction.

HINT

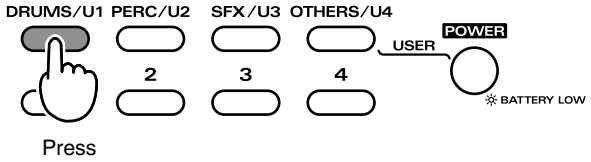
It is possible to make even finer sensitivity adjustments (p. 25).

Select a Patch

As an example, here's how to select preset group DRUMS-1, a patch that lets you play a conventional drum set.

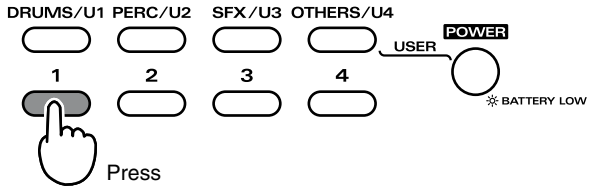
1

Press [DRUMS/U1].



2

Press [1].



NOTE

A maximum of four internal sounds can be played simultaneously. If you attempt to play more than four sounds, currently sounding sounds will be turned off, beginning with the one being sounded with the least volume.

Try Selecting Various Patches

The SPD-6 has 16 patches of the preset group. Let's try playing various patches.

For a list of the sounds in each patch, refer to p. 34.

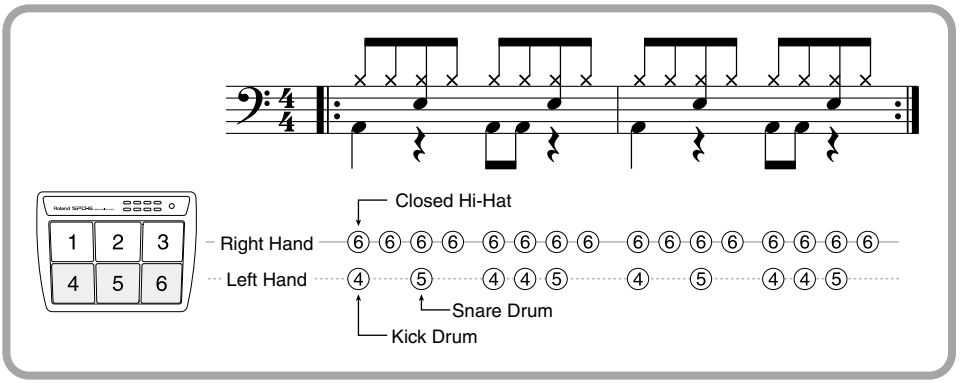
The Patches of the Preset Group (press [POWER] to turn on the power)

Patch name		Description
DRUMS-1	Drum Standard	Conventional drum sounds
DRUMS-2	Drum Power	Powerful drum sounds
DRUMS-3	Drum Brush	Drums played with brushes
DRUMS-4	TR-808 (Analog)	Sounds from older rhythm machines
PERC-1	Conga and Bongo	Conga, Bongo
PERC-2	Timbales	Timbales, Wood Block, Cowbell
PERC-3	Samba	Cuica, Agogo, Surdo etc.
PERC-4	Latin Toys	Triangle, Guiro, Vibra-Slap etc.
SFX-1	Dance	Sound effects (Slap, Scratch etc.)
SFX-2	Human	Sound effects (Foot Step, Heart Beat, Screaming, Door etc.)
SFX-3	Crash	Sound effects (Car-Engine, Car-Crash, Gun Shot etc.)
SFX-4	Kids	Sound effects (Dog, Kitty, Laughing, Thunder etc.)
OTHERS-1	Drum with Pedal	Conventional drum sounds (use a pedal switch as the kick drum)
OTHERS-2	Drum Electronic	Electronic drum sounds
OTHERS-3	Cymbal Set	Various types of cymbal sounds
OTHERS-4	TR-808 (Analog) Tom Set	Various types of tom sounds

Basic Rhythms for Playing With Other Musicians

Playing an 8-Beat Rhythm Pattern

Let's use the preset group DRUMS-1 patch to practice an 8-beat rhythm pattern.
Try playing the pads according to the number chart shown in the music score.

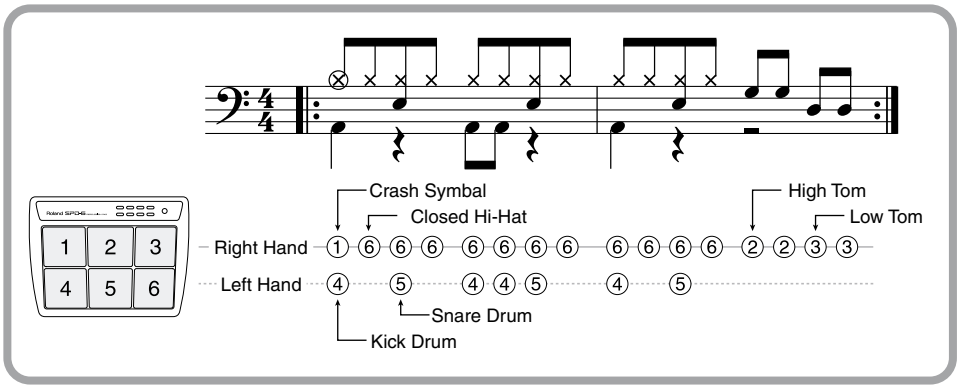


When you have a pedal switch connected to the [PEDAL SW] 1 jack
Continue pressing the pedal switch to play the closed hi-hat sound.

8-beat:
This refers to a rhythm that divides four beats into eighth notes. The accent occurs on the second and fourth beats.
This is the basic of rock rhythm patterns.

Playing an 8-Beat Fill-in Pattern

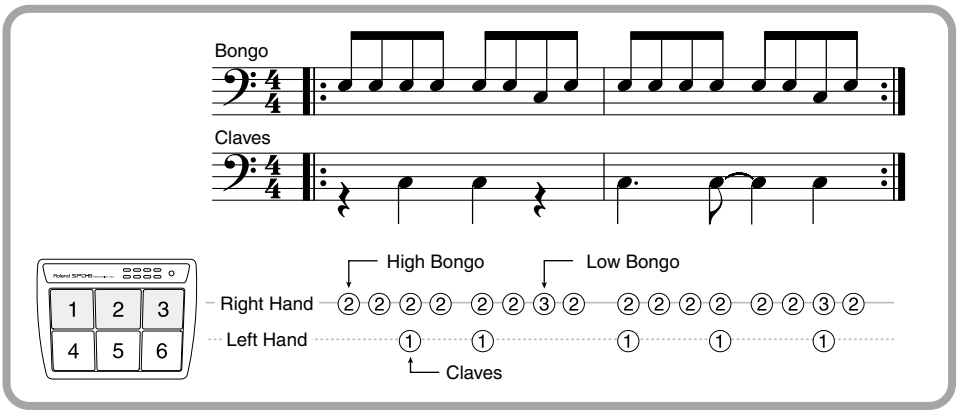
When you are able to play the 8-beat, pattern, try playing along with someone playing the piano or organ. (or any other instrument of course)
Try playing a fill-ins as well, using different sounds.



Fill-in:
A performance technique used mainly in between phrases and/to create dynamics.

Playing a Salsa Rhythm

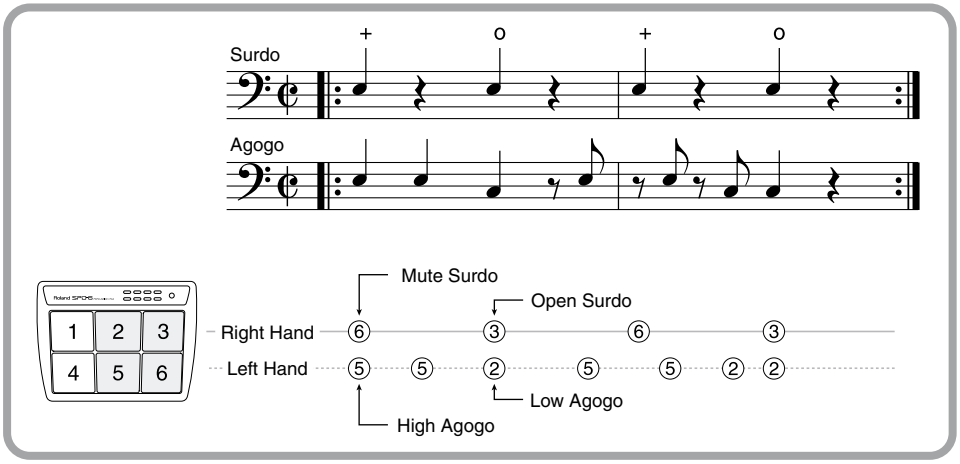
Use preset group PERC-1 to practice a salsa rhythm.



Salsa:
A style of music that originated in Cuba.
It's "feature" is a basic pattern played on a cowbell or claves.

Playing a Samba Rhythm

Use preset group PERC-3 to practice a samba rhythm.



Samba:
A cheerful two-beat rhythm that originated in Brazil. It's "feature" is the rhythm of the agogo.

Creating Your Own Patch

There are 16 patches that allow you to choose the sound played on each pad/pedal (User Group).
When you have become familiar with the SPD-6, you can create your very own patches by changing the internal sounds that are played when you strike the pads. You can listen to various percussion instrument sounds and sound effects, and choose your favorite ones to create the desired patch.

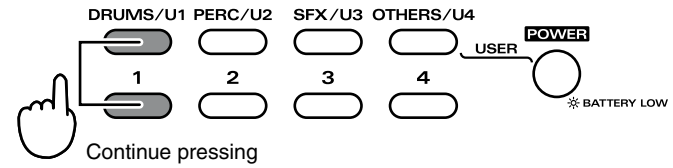
1

Hold down [OTHERS/U4] and press [POWER] to turn on the power (User Group).

2

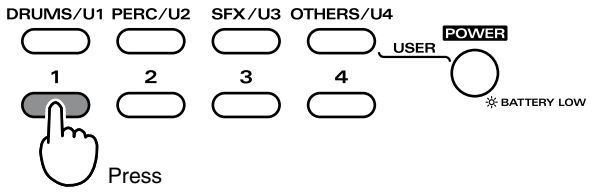
Press and hold down the two buttons of the user patch that you wish to edit, and release them when [OTHERS/U4], [1], [2] and [3] begin to blink.

Example: When making settings for U1-1



3

Press [1].
[OTHERS/U4] begins flashing, and one of the [1]–[4] buttons lights.



4

Strike a pad to select the pad whose sound you wish to change.
Strike the center of the pad accurately, and slightly harder than usual.
Only one of the buttons [1]–[4] will light according to the struck pad or pedal switch setting.

	[1]	[2]	[3]	[4]
Internal sounds	Kick, Snare	Tom, Cymbal	Percussion	Dance, SFX, Off

HINT

If you become unable to make settings as desired, you can cancel all current settings of the SPD-6 and return it to the factory-set condition (Factory Reset; p. 33).

The internal sounds of the SPD-6 are shown in the "Internal Sounds List" (p. 38).

HINT

To cancel the operation, press [OTHERS/U4] (flashing). The user patch you selected in step ***2*** can now be played.

5

Make the setting for the pad that you selected in step ***4***.

You can strike the pad to hear the currently selected sound.

The internal sounds will be heard when you operate the buttons, pads, or pedals.

Operation	Amount of change	Range of available instrument numbers	Internal Sounds
Press [1]	Increases by one; after reaching the maximum value, returns to the minimum value	1–23	Kick, Snare
Press [2]		24–60	Tom, Cymbal
Press [3]		61–89	Percussion
Press [4]		90–114	Dance, SFX, Off
Press [DRUMS/U1]	Decreases by one; stops at the minimum value	114–1	All sounds
Press [PERC/U2]	Increases by one; stops at the maximum value	1–114	All sounds

- The last-played internal sound will be assigned to that pad or pedal switch.
- Continue holding down the button, and the value changes consecutively.
- If you press an unlit button [1]–[4], the minimum internal sound number value that can be set for each button will be set.
- If you hold down [PERC/U2] and press [DRUMS/U1], the value will increase rapidly. If you hold down [DRUMS/U1] and press [PERC/U2], the value will decrease rapidly.

6

Repeat steps ***4*** and ***5***.

To make settings for a pedal switch, press that pedal switch instead of striking a pad in each step.

When you have finished making settings for all pads, proceed to step ***7***.

7

Press [OTHERS/U4] to save the settings.

After the button flashes, you can perform using the edited settings.

HINT

Canceling changes BEFORE saving

- When you wish to play immediately
  → Hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, the patch you selected in step ***2*** can be played in its unedited state.
- When you wish to turn off the power
  → Press [POWER] to turn off the power. When you hold down [OTHERS/U4] and turn on the power once again and select the user patch, it can be played in its unedited state.

HINT

- When the closed hi-hat sound is assigned to a pad, you can open & close the hi-hat (p. 15) using a pedal switch (DP-2; optionally available).
  To use this function, assign the internal sounds "49 Pedal Hi-Hat," "51 808 Closed Hi-Hat 1," "52 808 Closed Hi-Hat 2," or "114 Off" to pedal switch 1.
- If you do not want sound to be heard when you press the pedal switch used to control the hi-hat, assign the internal sound "114 Off."

NOTE

After pressing [OTHERS/U4], make sure you do not turn off the power until after the buttons of the edited patch have lit.

Make Settings for the Pad and the Pedal Switch

For each pad or pedal, you can adjust the pad velocity curve, and pedal switch velocity.
You can make independent settings for each of the sixteen user patches.

NOTE

When making these settings, the Auto Power Off function is disabled.

1. Press [POWER] to turn off the power of the SPD-6.
2. Hold down the two buttons of the user patch that you wish to edit, and press the [POWER] to turn on the power.

   The two buttons of the user patch to be edited flash.

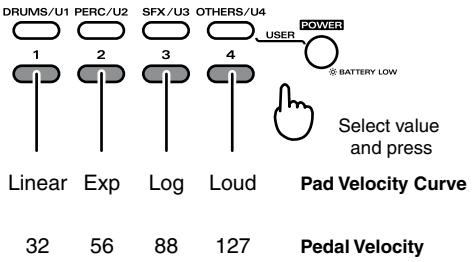
HINT

To cancel the operation, press [OTHERS/U4]. The user patch you selected can now be played.

3. Hold down [DRUMS/U1] and press [1].

   [OTHERS/U4] flashes, and [DRUMS/U1] and one of the [1]–[4] buttons light.
4. Strike a pad to select the pad that you wish to edit.

   Strike the center of the pad accurately, and slightly harder than usual.
   To make settings for a pedal switch, press that pedal switch instead of striking a pad in each step.
   Only one of the buttons [1]–[4] will light according to the struck pad or pedal switch setting.
5. Refer to the following diagram, and press [1]–[4] to make settings.



6. Repeat steps **4** and **5**.

   When you have finished making settings for all pads, proceed to step **7**.
7. Press [OTHERS/U4] (flashing) to save the edited value.

   After the button you selected flashes, you will once again be able to select a parameter (the state of step **2**).

NOTE

Do not turn off the power after pressing [OTHERS/U4] until after the buttons of the patch that you selected in step **2** have flashed.

HINT

Canceling changes BEFORE saving

- If you wish to continue and set other parameters, hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, you will be able to select the desired parameter. (The two buttons of the user patch that you selected in step **2** flash.)
- If you wish to turn off the power, press [POWER].

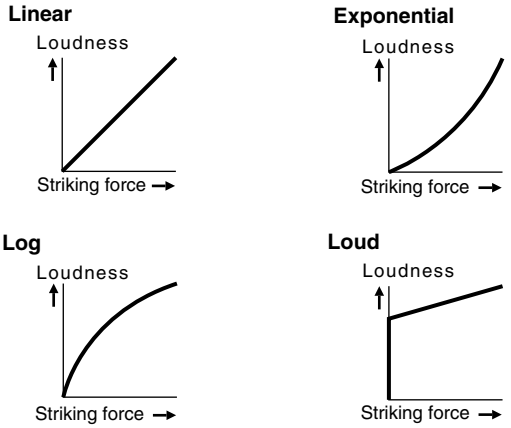
8. When you have finished making all settings, press [OTHERS/U4].

   Now you can play the user patch that you edited.

Pad Velocity Curve

This setting adjusts how your playing dynamics affects the volume of the sound being played.
The factory setting is "Linear."

Range: Linear, Exponential (Exp), Log, Loud



Linear: The standard setting. This produces the most natural correspondence between playing dynamics and changes in volume.

Exponential: Compared to Linear, the harder you play the change will be more obvious.

Log: Compared to Linear, a soft strike will produce a greater change.

Loud: Variation is striking force will produce little change, and a constant volume will be maintained.

Pedal Switch Velocity

You can adjust the volume of the sound assigned to the pedal switch.
The factory setting is "88."

Range: 32, 56, 88, 127

HINT

If you do not want sound to be heard when you press the pedal switch used to control the hi-hat, assign it to a note number that produces no sound, or turn the internal sound "114 Off."

Settings for the Entire SPD-6 (System)

Here you can make settings for Trigger Threshold and Trigger Sensitivity. For these parameters, a single setting is shared by the entire SPD-6.

NOTE

When making these settings, the Auto Power Off function is disabled.

1. Press [POWER] to turn off the power of the SPD-6.

2. Hold down [DRUMS/U1] and [1], and press the [POWER] button to turn on the power.

[DRUMS/U1] and [1] flash.

HINT

- You can make the system settings regardless of the patch you selected.
- To cancel the operation, press [OTHERS/U4]. The user patch you selected can now be played.

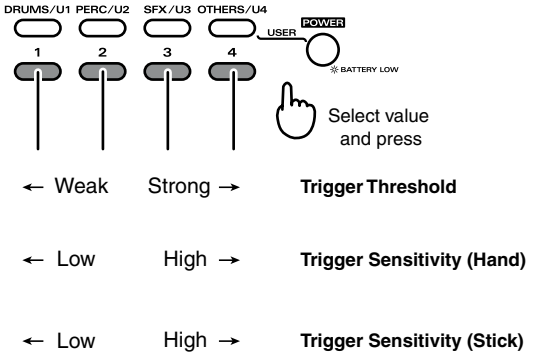
3. Refer to the following table, and select the parameter that you wish to edit.

Parameter	SPD-6 operation
Trigger Threshold	Press [SFX/U3] and press [1].
Trigger Sensitivity (Hand)	Press [SFX/U3] and press [2].
Trigger Sensitivity (Stick)	Press [SFX/U3] and press [3].

[OTHERS/U4] flashes, and [SFX/U3] lights.
Only one of the buttons [1]–[4] will light according to the setting.

4. Set the parameter that you selected in step **3**.

Refer to the following diagram, and press [1]–[4] to make settings.



5. Press [OTHERS/U4] (flashing) to save the edited value.

After the button you selected flashes, you will once again be able to select a parameter (the state of step **2**).

NOTE

Do not turn off the power after you press [OTHERS/U4] until [DRUMS/U1] and [1] have flashed.

HINT

Canceling changes BEFORE saving

- If you wish to continue and set other parameters, hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, you will be able to select the desired parameter. ([DRUMS/U1] and [1] flash.)
- If you wish to turn off the power, press [POWER].

6. If you wish to edit other parameters, repeat steps **3**–**5**.

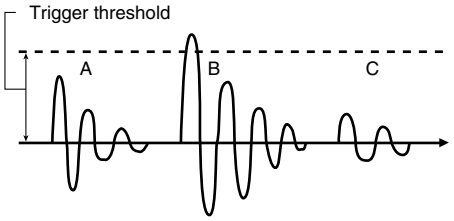
7. When you have finished making all settings, press [OTHERS/U4].

Now you can play the user patch that you edited.

Trigger Threshold

This setting causes the sound to be played only by a strike of the specified force or greater.

If you set this to a high value, it will be difficult to play the sound by a soft strike. In the following example, B will sound but A and C will not sound.



The factory setting is "2."

Range: 1–4

A setting of "1" is minimum, and "4" is maximum.

Trigger Sensitivity (Hand/Stick)

This adjusts the sensitivity of the pads. "Hand" is the sensitivity that pertains to the times the pads are struck by hand, while "Stick" is the sensitivity used when striking the pads with sticks.
The factory setting is "2."

Range: 1–4

A setting of "1" produces low sensitivity, and "4" produces high sensitivity.

HINT

The [SENS] switch located on the rear panel of the SPD-6 selects the sensitivity specified for Hand or Stick.

Features Using MIDI

Connecting the SPD-6 to an External MIDI Sound Module

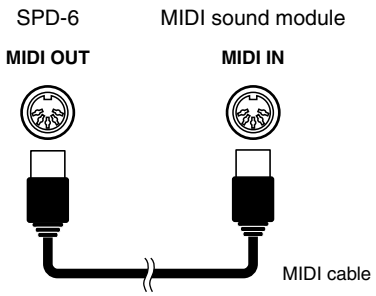
If you want to use the SPD-6 to sound an external MIDI sound module, use a MIDI cable to make connections.

1. Before making connections, turn off the power of all devices.

NOTE

To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

2. Use the included MIDI cable to connect the MIDI OUT connector on the rear panel of the SPD-6 to the MIDI IN connector of your MIDI sound module.



3. Switch on the power to the SPD-6 and the connected MIDI sound module.

HINT

If your MIDI sound module has a "Computer switch," set the computer switch to "MIDI" before turning on the power.

4. While playing the SPD-6, adjust the volume of the MIDI sound module.

5. You should also set the MIDI settings as needed.

Other Ways to Use the SPD-6

Here are some ways in which the SPD-6 can be used together with other MIDI devices.

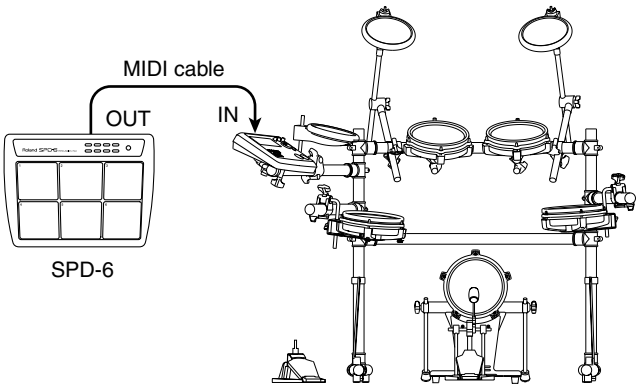
HINT

The MIDI channel on which the SPD-6 transmits music data is fixed at channel 10.

Refer to the owner's manual of your equipment for details on sound module settings.

Using the SPD-6 With an Electronic Drum Set

You can use the SPD-6 in conjunction with an electronic drum set as supplementary pads. For example you can connect the SPD-6 to the sound module of your electronic drums, which allows you to play different sounds that are not assigned to the pads of your electronic drum set. This is an ideal way to expand the choice of sounds you have at one time.

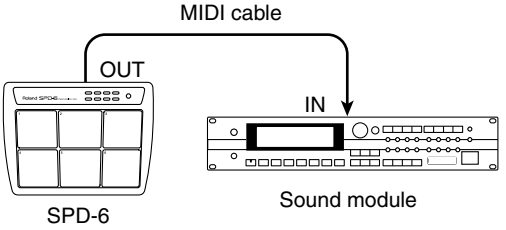


Striking the SPD-6 to Play a Sound Module

By specifying the Program Change and Bank Select message transmitted by the SPD-6, you can play various drum sets on your sound module.

You can also set the MIDI reception channel of your sound module to channel 10, and use the SPD-6 to play different sounds and/or melodies.

Use a MIDI cable to connect the MIDI OUT connector of the SPD-6 to the MIDI IN connector of your sound module.



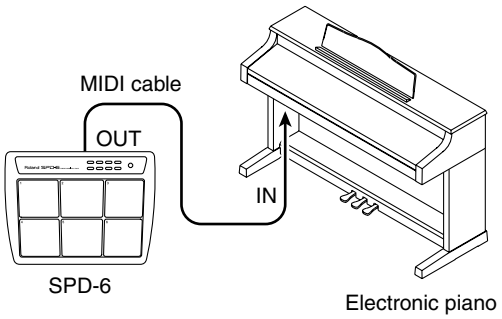
Play Ensembles with a Roland Digital Piano or Organ

You can use the SPD-6 to play a drum, percussion or sound effect sets on your electronic piano.

Try playing along with someone playing the piano or organ.

HINT

If your electronic piano has a "MIDI ensemble function," make settings for connecting a percussion pad.



How the Sounds Are Produced

When you use the SPD-6 to play a drum set of a external MIDI sound module, the sounds are produced as described below.

Select a Patch

When you select a SPD-6 patch, commands (Program Change and Bank Select messages) are sent from the MIDI OUT connector to the external MIDI sound module, telling it to switch to the corresponding drum set.

The external MIDI sound module receives this command via its MIDI IN connector, and changes the drum set that it will play.

Play the Pads or Press a Pedal to Play

When you play a pad or press a pedal on the SPD-6, a command (note-on message) is sent from its MIDI OUT connector to the external MIDI sound module, telling it to play the corresponding sound.

The external MIDI sound module receives this command via its MIDI IN connector, and plays the corresponding sound.

Creating Your Own Patch

There are 16 patches that you can use to change the drum sets/instruments in the external MIDI sound module on the SPD-6 (User Group).

After you have become familiar with the SPD-6, try editing these settings to create your own patches. Listen to the percussion instrument sounds and choose your favorite sounds to create your own patches.

First, select the drum set or SFX set that you wish to play. Next, select the sounds that will be heard when you strike each pad.

HINT

If you are unable to make the changes you wand, you can return the SPD-6 it to the original factory-settings. Refer to "Restoring the Factory Settings (Factory Reset)" (p. 33).

Make Settings for Each Patch

You can set Program Change and Bank Select that each patch transmit.

Specifying the Combination of Program Change and Bank Select to be Transmitted

Select the drum set or SFX set of the General MIDI 2 or GS sound module that you want to play from the SPD-6.

1. Hold down [OTHERS/U4] and press [POWER] to turn on the power of the SPD-6. (User Group)

2. Press and hold down the two buttons of the user patch that you wish to edit, and release them when [OTHERS/U4], [1], [2] and [3] begin to blink.

HINT

To cancel the operation, press [OTHERS/U4] (flashing). The user patch you selected in step **2** can now be played.

3. Press [3].

[OTHERS/U4] flashes, and the buttons light according to the drum set setting.

4. In the following table, find the drum set that you wish to use, and successively press the buttons listed beside it.

Play the pads or press the pedals to hear the results of editing the drum set.

Drum sets	SPD-6 operation	MSB	LSB	PC
GS Standard Set	[DRUMS/U1] → [1]	00	00	1
GS Room Set	[DRUMS/U1] → [2]	00	00	9
Power Set	[DRUMS/U1] → [3]	00	00	17
Electronic Set	[DRUMS/U1] → [4]	00	00	25
TR-808 Set	[PERC/U2]→ [1]	00	00	26
Jazz Set	[PERC/U2]→ [2]	00	00	33
GS Brush Set	[PERC/U2]→ [3]	00	00	41
Orchestral Set	[PERC/U2]→ [4]	00	00	49
SFX Set	[SFX/U3]→ [1]	00	00	57
Standard Set	[SFX/U3]→ [2]	00	64	1
OFF	[SFX/U3]→ [3]	Not transmitted		
User Set	[SFX/U3]→ [4]	Setting Desired Values (p. 29)		

** MSB: Transmitted Bank Select MSB (controller number 0)*
LSB: Transmitted Bank Select LSB (controller number 32)
PC: Transmitted Program Change (program number)

HINT

- The **OFF** setting prevents the drum set of the electronic piano from changing when you select a patch.
- Use a **User Set** when you wish to use a drum set that does not appear in the table. If you wish to use a user set, edit the user set as described in "Input the Program Change and Bank Select MSB/LSB" (p. 29). For a user set, different settings can be made for each user patch.

NOTE

- If your electronic piano does not have a standard set ([SFX/U3]→[2]), there may be no sound if you select this set, or a different drum set may sound.
- For SFX set, there may be no sound when you strike the pad. To hear the sound, refer to "Changing the Transmitted Note Numbers" (p. 30) and set the note number.

5. Press [OTHERS/U4] (flashing) to save the settings.

After the buttons that you selected in step **4** flashes, you can perform using the edited settings.

NOTE

Do not turn off the power after you press [OTHERS/U4] until after the button of the edited patch has lit.

HINT

Canceling changes BEFORE saving

- When you wish to play immediately
  → Hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, the patch you selected in step **2** can be played in its unedited state.
- When you wish to turn off the power
  → Press [POWER] to turn off the power. When you hold down [OTHERS/U4] and turn on the power once again, and select the user patch, it can be played in its unedited state.

Input the Program Change and Bank Select MSB/LSB

Use decimal notation to input the Program Change and Bank Select MSB/LSB that will be transmitted by the SPD-6 when you select the user patch.

You can make independent settings for each of the sixteen user patches.

NOTE

- When you make this setting, the settings of "Specifying the Combination of Program Change and Bank Select to be Transmitted" (p. 28) will automatically become the user set.
- When making these settings, the Auto Power Off function is disabled.

For details on the Program Change and Bank Select, refer to the owner's manual of the device connected to the SPD-6.

1. Press [POWER] to turn off the power of the SPD-6.

2. Hold down the two buttons of the user patch that you wish to edit, and press the [POWER] to turn on the power.

The two buttons of the user patch to be edited flash.

HINT

To cancel the operation, press [OTHERS/U4]. The user patch you selected in step **2** can now be played.

3. Refer to the following table, and select the parameter that you wish to edit.

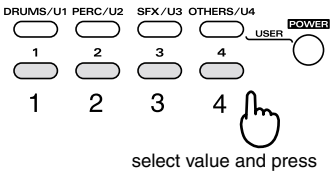
Parameter	SPD-6 operation
Program Change	Hold down [PERC/U2] and press [1].
Bank Select (MSB)	Hold down [PERC/U2] and press [2].
Bank Select (LSB)	Hold down [PERC/U2] and press [3].

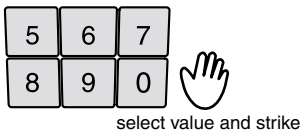
[OTHERS/U4] flashes, and [PERC/U2] lights.

4. Set the parameter that you selected in step **3**.

Use the patch select buttons and the pads to input the Program Change and Bank Select MSB/LSB values.

Button/pad	Input value
[1]	1
[2]	2
[3]	3
[4]	4
Pad 1	5
Pad 2	6
Pad 3	7
Pad 4	8
Pad 5	9
Pad 6	0





HINT

- **Example: Input "127"**
  Press [1] → [2], and strike the Pad 3.
- If you've input the wrong value, press [SFX/U3]. The value that was entered is canceled, and you're given a chance to input the value over again, from the beginning.

NOTE

When striking a pad to input a value, accurately strike the center of the pad a little more strongly than usual. The setting cannot be made accurately by striking another pad or the case.

5. Press [OTHERS/U4] (flashing) to save the edited value.

After [PERC/U2] flashes, you will once again be able to select a parameter (the state of step **2**).

At this time, the SPD-6 will transmit the Program Change and Bank Select MSB/LSB (all messages).

NOTE

Do not turn off the power after pressing [OTHERS/U4] until after the buttons of the patch that you selected in step **2** have flashed.

HINT

Canceling changes BEFORE saving

- If you wish to continue and set other parameters, hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, you will be able to select the desired parameter. (The two buttons of the user patch that you selected in step **2** flash.)
- If you wish to turn off the power, press [POWER].

6. If you wish to edit other parameters, repeat steps **3**–**5**.

7. When you have finished making all settings, press [OTHERS/U4].

Now you can play the user patch that you edited.

Bank Select MSB/LSB (Controller Number 0/32)

Range: 0–127

Program Change (Program Number)

Range: 1–128

Make Settings for Each Pad

Changing the Transmitted Note Numbers

You can change the sounds that are played by the six pads and two pedal switches (sold separately: DP-2).

MEMO

You can select note numbers 20–99 of each drum set.

1. Hold down [OTHERS/U4] and press [POWER] to turn on the power of the SPD-6. (User Group)

2. Press and hold down the two buttons of the user patch that you wish to edit, and release them when [OTHERS/U4], [1], [2] and [3] begin to blink.

HINT

To cancel the operation, press [OTHERS/U4] (flashing). The user patch you selected in step 2 can now be played.

3. Press [2].

[OTHERS/U4] flashes and one of the [1]–[4] buttons lights.

4. Strike a pad to select the pad whose sound you wish to change.

Strike the center of the pad accurately, and slightly harder than usual.

Only one of the buttons [1]–[4] will light according to the struck pad setting

5. Make the setting for the pad that you selected in step **4**.

The note number will be sent when you operate the buttons, pads, or pedals.

Operation	Amount of change	Range of available note numbers
Press [1]	Increases by one; after reaching the maximum value, returns to the minimum value	20–39
Press [2]		40–59
Press [3]		60–79
Press [4]		80–99
Press [DRUMS/U1]	Decreases by one; stops at the minimum value	99–20
Press [PERC/U2]	Increases by one; stops at the maximum value	20–99

- The last-transmitted note number will be assigned to the pad or pedal switch.
- Continue holding down the button, and the value changes consecutively.
- If you press an unlit button [1]–[4], the minimum note number value that can be set for each button will be transmitted.
- If you hold down [PERC/U2] and press [DRUMS/U1], the value will increase rapidly. If you hold down [DRUMS/U1] and press [PERC/U2], the value will decrease rapidly.

HINT

- When the note number 42 is assigned to a pad, you can control open (note number 46) and close (note number 42) of the hi-hat using a pedal switch.
- If you do not want sound to be heard when you press the pedal switch used to control the hi-hat, assign it to a note number that produces no sound.

6. Repeat steps **4** and **5**.

To make settings for a pedal switch, press that pedal switch instead of striking a pad in each step.
When you have finished making settings for all pads, proceed to step **7**.

7. Press [OTHERS/U4] (flashing) to save the edited value.

After the button you selected flashes, you can perform using the edited settings.

NOTE

Do not turn off the power after you press [OTHERS/U4] until the button of the edited patch has lit.

HINT

Canceling changes BEFORE saving

- When you wish to play immediately
  → Hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, the patch you selected in step **2** can be played in its unedited state.
- When you wish to turn off the power
  → Press [POWER] to turn off the power. When you hold down [OTHERS/U4] and turn on the power once again, and select the user patch, it can be played in its unedited state.

Setting the Gate Time

For each pad or pedal, you can specify the length of time the note will "hold" during transmission from MIDI OUT.

General-purpose sound modules or samplers do receive the note-off messages that are transmitted and respond by turning off the sound.

This setting is necessary when playing SFX set or melodic sounds, loops in samplers etc.

NOTE

When making these settings, the Auto Power Off function is disabled.

1. Press [POWER] to turn off the power of the SPD-6.

2. Hold down the two buttons of the user patch that you wish to edit, and press the [POWER] to turn on the power.

The two buttons of the user patch to be edited flash.

HINT

To cancel the operation, press [OTHERS/U4]. The user patch you selected in step **2** can now be played.

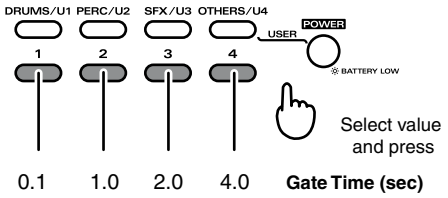
3. Hold down [DRUMS/U1] and press [2].

[OTHERS/U4] flashes, and [DRUMS/U1] and one of the [1]–[4] buttons light.

4. Strike a pad to select the pad whose sound you wish to change.

Strike the center of the pad accurately, and slightly harder than usual.
Only one of the buttons [1]–[4] will light according to the struck pad or pedal switch setting.

5. Refer to the following diagram, and press [1]–[4] to make settings.



6. Repeat steps **4** and **5**.

To make settings for a pedal switch, press that pedal switch instead of striking a pad in each step.
When you have finished making settings for all pads, proceed to step **7**.

7. Press [OTHERS/U4] (flashing) to save the edited value.

After the button you selected flashes, you will once again be able to select a parameter (the state of step **2**).

NOTE

Do not turn off the power after pressing [OTHERS/U4] until after the buttons of the patch that you selected in step **2** have flashed.

HINT

Canceling changes BEFORE saving

- If you wish to continue and set other parameters, hold down [SFX/U3] and press [OTHERS/U4]. After the button corresponding to the value of the setting prior to editing is flashing, you will be able to select the desired parameter. (The two buttons of the user patch that you selected in step **2** flash.)
- If you wish to turn off the power, press [POWER].

8. When you have finished making all settings, press [OTHERS/U4].

Now you can play the user patch that you edited.

Gate Time

The factory setting is "2.0 (sec.)."

Range: 0.1, 1.0, 2.0, 4.0 (sec.)

Troubleshooting

If you have a problem, please check the following points.

Also check the owners manuals for other equipment you might be using. (MIDI or Audio)

HINT

You can restore the factory settings of the SPD-6. See "Restoring the Factory Settings (Factory Reset)" (p. 33).

Problems Concerning the Entire SPD-6

Power Does Not Turn On

- Are the batteries installed correctly? (p. 11)
- Battery power is weak?

  If battery power is low, the [POWER] button will blink.
- If you are using an AC adapter, is it connected properly? (p. 12)

Sound is Not Heard

- Just after turning on the power, did you touch a pad before [DRUMS/U1] and [1] were lit?

  Turn the power on once more as explained p. 16.
- Volume level is adjusted correctly on the SPD-6 and your audio system (stereo system/digital piano etc.)? (p. 17)
- Are the SPD-6 and the other device(s) connected correctly? (p. 14)
- Is the power of all devices turned on? (p. 16)
- Did you specify internal sound "114 Off"?

  Specify "114 Off" when you do not want sound to be produced.

  Refer to p.46 and "Internal Sounds List" (p. 38), and select the desired sound.

Volume is Insufficient When You Play the SPD-6/ The Sound is Not As You Expect

- Is the rear panel [SENS] switch set correctly? (p. 18)
- Are you accurately striking the center of the pad?

  Striking the case or the edge of a pad may cause the sound of another pad to be heard.
- Is the patch (sound set) selected correctly? (p. 18)
- Did you create your own patch?

  Refer to p. 22 and make sure that the patch and sound settings are correct.

Buttons are Blinking

- Buttons will blink to inform you of an error.

MIDI-Related Problems

No Sound When You Play the SPD-6

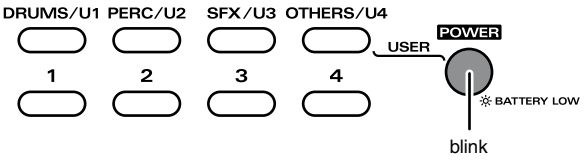
- Did you create your own patch?

  There may be no sound if you specify a drum set or sound that does not exist on the device connected to the SPD-6. Refer to p. 26–p. 31, and to the owner's manual of the device connected to the SPD-6, and make sure that the patch and sound settings are correct.

Error Message List

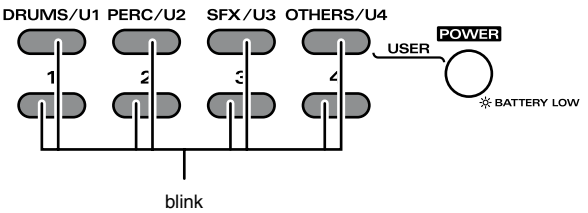
The SPD-6 will indicate an error message by blinking two or more of its buttons.

The batteries have run down



Turn off the power of the SPD-6 (p. 17), and replace the batteries (p. 11). Do not mix new batteries with partially used batteries, and do not mix batteries of differing types.

It is possible that the internal memory of the SPD-6 has been corrupted



Press one of the Patch select buttons, and you can execute Factory Reset (p. 33). Press [OTHERS/U4] (flashing) to execute the Factory Reset.

If this does not resolve the problem, contact your dealer or a nearby Roland service center.

NOTE

All settings you've made on the SPD-6 will be lost. All values will revert to what they were originally, when the unit was shipped from the factory.

Restoring the Factory Settings (Factory Reset)

This procedure restores the original, factory-set values of the MIDI; internal sounds; sensitivity etc. settings stored in the SPD-6.

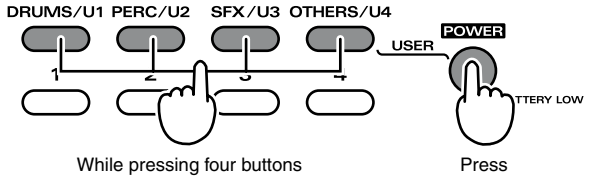
NOTE

All settings you've made on the SPD-6 will be lost. All values will revert to what they were originally, when the unit was shipped from the factory. Before you begin the following procedure, make a note of any important settings, so that you will be able to reproduce them.

1

Hold down [DRUMS/U1], [PERC/U2], [SFX/U3], and [OTHERS/U4], and press [POWER] to turn on the power of the SPD-6.

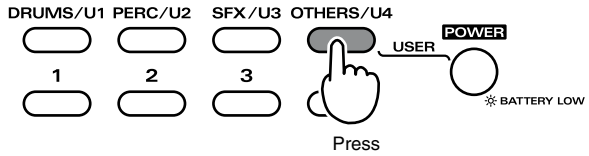
[OTHERS/U4] flashes.



2

Press [OTHERS/U4] (flashes) to execute the operation.

[OTHERS/U4] lights.



NOTE

Press [OTHERS/U4], and then do not turn off the power of the SPD-6 until [DRUMS/U1] and [1] have lit.

HINT

To cancel Factory Reset

- When you wish to play immediately
  → Hold down [SFX/U3] and press [OTHERS/U4].
- When you wish to turn off the power
  → Press [POWER] to turn off the power.

3

The SPD-6 will return to its factory settings, and can be played.

[DRUMS/U1] and [1] light.

Patch List (Preset Group)

When Playing the Internal Sounds of the SPD-6

How to Use the Table

- The SPD-6 internal sound number is given within the parentheses ( ) next to the sound name.
- *: When you have a pedal switch connected to the [PEDAL SW] 1 jack, you can switch the sound of the pad. When a pedal switch is not connected, the left sound will be heard.
- Order of sound names

Pad 1	Pad 2	Pad 3
Pad 4	Pad 5	Pad 6
Pedal Switch 1		Pedal Switch 2

DRUMS-1 (Drum Standard)

Crash Cymbal 1 (54)	High Tom 1 (24)	Low Tom 1 (28)
Kick (1)	Standard Snare (10)	Closed Hi-Hat (48) / Open Hi-Hat (50)*
Pedal Hi-Hat (49)		Mix Kick (2)

DRUMS-2 (Drum Power)

Crash Cymbal 1 (54)	Power Mid Tom 1 (31)	Power Low Tom 1 (37)
MONDO Kick (5)	Dance Snare (11)	Closed Hi-Hat (48) / Open Hi-Hat (50)*
Pedal Hi-Hat (49)		HipHop Kick (6)

DRUMS-3 (Drum Brush)

Brush Roll Snare (21)	Brush Swish Snare (22)	Ride Cymbal1 (57)
Jazz Kick 1 (3)	Brush Slap Snare (23)	Closed Hi-Hat (48) / Open Hi-Hat (50)*
Pedal Hi-Hat (49)		Jazz Kick 2 (4)

DRUMS-4 (TR-808 (Analog))

808 Cymbal (59)	808 Mid Tom 1 (41)	808 Low Tom 1 (43)
808 Kick 1 (7)	808 Snare (16)	808 Closed Hi-Hat 2 (52) / 808 Open Hi-Hat (53)*
808 Closed Hi-Hat 1 (51)		808 Kick 2 (8)

PERC-1 (Conga and Bongo)

Claves (67)	High Bongo (61)	Low Bongo (62)
Open High Conga (63)	Mute High Conga (64)	Low Conga (65)
Shaker (71)		Cowbell (66)

PERC-2 (Timbales)

High Wood Block (83)	Low Wood Block (84)	Splash Cymbal (56)
Low Timbale (74)	High Timbale (73)	Cowbell (66)
Maracas (70)		Tambourine (72)

PERC-3 (Samba)

Open Cuica (78)	Low Agogo (77)	Open Surdo (80)
Mute Cuica (79)	High Agogo (76)	Mute Surdo (81)
Whistle (82)		Shaker (71)

PERC-4 (Latin Toys)

Vibra-Slap (75)	Short Guiro (69)	Tambourine (72)
Open Triangle (86)	Long Guiro (68)	Hand Clap (90)
Maracas (70)		Bell Tree (85)

SFX-1 (Dance)

Slap (95)	Guitar Slide (96)	Scratch Push (93)
Hand Clap (90)	High Q (94)	Scratch Pull (92)
String Slap (97)		Scratch (91)

SFX-2 (Human)

Foot Step (106)	Heart Beat (107)	Screaming (108)
Door Creaking (104)	Door (105)	Punch (109)
Thunder (111)		Car-Crash (103)

SFX-3 (Crash)

Car-Engine (101)	Car-Stop (102)	Car-Crash (103)
Telephone (98)	Gun Shot (112)	Lasergun (113)
High Q (94)		Slap (95)

SFX-4 (Kids)

Dog (99)	Kitty (100)	Laughing (110)
Thunder (111)	Metronome Click (89)	Metronome Bell (88)
Hand Clap (90)		Heart Beat (107)

OTHERS-1 (Drum with Pedal)

Crash Cymbal 1 (54)	High Tom 1 (24)	Mid Tom 1 (26)
Standard Snare (10)	Closed Hi-Hat (48) / Open Hi-Hat (50)*	Low Tom 1 (28)
Pedal Hi-Hat (49)		Mix Kick (2)

OTHERS-2 (Drum Electronic)

Crash Cymbal 1 (54)	Electronic Mid Tom (46)	Electronic Low Tom (47)
808 Kick 1 (7)	Electronic Snare 1 (17)	Closed Hi-Hat (48) / Open Hi-Hat (50)*
Pedal Hi-Hat (49)		Electronic Kick (9)

OTHERS-3 (Cymbal Set)

Crash Cymbal 1 (54)	Crash Cymbal 2 (55)	Ride Cymbal 1 (57)
808 Cymbal (59)	Splash Cymbal (56)	Ride Cymbal 2 (58)
Pedal Hi-Hat (49)		808 Closed Hi-Hat1 (51)

OTHERS-4 (TR-808 (Analog) Tom Set)

808 High Tom 1 (39)	808 High Tom 2 (40)	808 Mid Tom 1 (41)
808 Mid Tom 2 (42)	808 Low Tom 1 (43)	808 Low Tom 2 (44)
808 Kick 1 (7)		808 Kick 2 (8)

When Playing a Drum Set of an External MIDI Sound Module (Via MIDI)

When you connect the SPD-6 to a General MIDI 2/GS sound module, you can play with following instruments.

How to Use the Table

- The name of the drum set used is listed beside the patch name.
- From the left, the parentheses ( ) beside the drum set name give the bank select MSB, bank select LSB, and program number.
- The note number transmitted by the SPD-6 is given within the parentheses ( ) next to the sound name.
- *: When you have a pedal switch connected to the [PEDAL SW] 1 jack, you can switch the sound of the pad. When a pedal switch is not connected, the left sound will be heard.
- Order of sound names

Pad 1	Pad 2	Pad 3
Pad 4	Pad 5	Pad 6
Pedal Switch 1		Pedal Switch 2

DRUMS-1 (Drum Standard)	GS Standard Set (00, 00, 1)	
Crash Cymbal 1 (49)	High Tom 1 (50)	Low Tom 1 (43)
Std Kick 1 (36)	Snare Drum 1 (38)	Closed Hi-hat 1 (42) / Open Hi-Hat 1 (46)*
Pedal Hi-Hat 1 (44)		Std Kick 2 (35)

DRUMS-2 (Drum Power)	Power Set (00, 00, 17)	
Crash Cymbal 1 (49)	Room Mid Tom 1 (47)	Room Low Tom 1 (43)
MONDO Kick (36)	Dance Snare (38)	Closed Hi-Hat 1 (42) / Open Hi-Hat 1 (46)*
Pedal Hi-Hat (44)		Std Kick 2 (35)

DRUMS-3 (Drum Brush)	GS Brush Set (00, 00, 41)	
Brush Swirl (40)	Brush Tap (38)	Ride Cymbal1 (51)
Std Kick 1 (36)	Brush Slap (39)	Closed Hi-Hat 1 (42) / Open Hi-Hat 2 (46)*
Pedal Hi-Hat 1 (44)		Std Kick 2 (35)

DRUMS-4 (TR-808 (Analog))	TR-808 Set (00, 00, 26)	
808 Cymbal (49)	808 Mid Tom 1 (47)	808 Low Tom 1 (43)
808 Bass Drum 1 (36)	808 Snare Drum (38)	808 CHH (42) / 808 OHH (46)*
808 CHH (44)		808 Bass Drum 1 (36)

PERC-1 (Conga and Bongo)	GS Standard Set (00, 00, 1)	
Claves (75)	High Bongo (60)	Low Bongo (61)
Open High Conga (63)	Mute High Conga (62)	Low Conga (64)
Shaker (82)		Cowbell (56)

PERC-2 (Timbales)	GS Standard Set (00, 00, 1)	
High Wood Block (76)	Low Wood Block (77)	Splash Cymbal (55)
Low Timbale (66)	High Timbale (65)	Cowbell (56)
Maracas (70)		Tambourine (54)

PERC-3 (Samba)	GS Standard Set (00, 00, 1)	
Open Cuica (79)	Low Agogo (68)	Open Surdo (87)
Mute Cuica (78)	High Agogo (67)	Mute Surdo (86)
Long Low Whistle (72)		Shaker (82)

PERC-4 (Latin Toys)	GS Standard Set (00, 00, 1)	
Vibra-Slap (58)	Short Guiro (73)	Tambourine (54)
Open Triangle (81)	Long Guiro (74)	Hand Clap (39)
Maracas (70)		Bell Tree (84)

SFX-1 (Dance)	SFX Set (00, 00, 57)	
Slap (40)	Guitar Sliding Finger (47)	Scratch Push (41)
Sticks (43)	High Q (39)	Scratch Pull (42) / Metronome Bell (46)*
String slap of double bass (50)		Scratch (61)

SFX-2 (Human)	SFX Set (00, 00, 57)	
Footsteps 1 (56)	Heart Beat (55)	Screaming (53)
Door Creaking (59)	Door (60)	Punch (54)
Thunder (80)		Car-Crash (66)

SFX-3 (Crash)	SFX Set (00, 00, 57)	
Car-Engine (63)	Car-Stop (64)	Car-Crash (66)
Siren (67)	Gun Shot (72)	Lasergun (74)
High Q (39)		Slap (40)

SFX-4 (Kids)	SFX Set (00, 00, 57)	
Dog (76)	Cat (85)	Laughing (52)
Thunder (80)	Metronome Click (45)	Metronome Bell (46)
Slap (40)		Heart Beat (55)

OTHERS-1 (Drum with Pedal)	GS Standard Set (00, 00, 1)	
Crash Cymbal 1 (49)	High Tom 1 (50)	Mid Tom 1 (47)
Snare Drum 1 (38)	Closed Hi-Hat 1 (42) / Open Hi-Hat 1 (46)*	Low Tom 1 (43)
Pedal Hi-Hat 1 (44)		Std Kick 2 (35)

OTHERS-2 (Drum Electronic)	Electronic Set (00, 00, 25)	
Crash Cymbal 1 (49)	Elec Mid Tom 1 (47)	Elec Low Tom 1 (43)
Elec BD (36)	Elec SD (38)	Closed Hi-Hat 1 (42) / Open Hi-Hat 1 (46)*
Pedal Hi-Hat 1 (44)		Std Kick 2 (35)

OTHERS-3 (Cymbal Set)	GS Standard Set (00, 00, 1)	
Crash Cymbal 1 (49)	Crash Cymbal 2 (57)	Ride Cymbal 1 (51)
Chinese Cymbal (52)	Splash Cymbal (55)	Ride Cymbal 2 (59)
Pedal Hi-Hat 1 (44)		Ride Bell (53)

OTHERS-4 (TR-808 (Analog) Tom Set)	TR-808 Set (00, 00, 26)	
808 High Tom 1 (50)	808 High Tom 2 (48)	808 Mid Tom 1 (47)
808 Mid Tom 2 (45)	808 Low Tom 1 (43)	808 Low Tom 2 (41)
Std Kick 2 (35)		808 Bass Drum 1 (36)

Internal Sounds List

Kick

1 Kick
2 Mix Kick
3 Jazz Kick 1
4 Jazz Kick 2
5 MONDO Kick
6 HipHop Kick
7 808 Kick 1
8 808 Kick 2
9 Electronic Kick

Snare

10 Standard Snare
11 Dance Snare
12 HipHop Snare 1
13 HipHop Snare 2
14 Dopin' Snare
15 Gated Snare
16 808 Snare
17 Electronic Snare 1
18 Electronic Snare 2
19 Cross Stick
20 Snare Roll
21 Brush Roll Snare
22 Brush Swish Snare
23 Brush Slap Snare

Tom

24 High Tom 1
25 High Tom 2
26 Mid Tom 1
27 Mid Tom 2
28 Low Tom 1
29 Low Tom 2
30 Room High Tom
31 Room Mid Tom
32 Room Low Tom
33 Power High Tom 1
34 Power High Tom 2
35 Power Mid Tom 1
36 Power Mid Tom 2
37 Power Low Tom 1
38 Power Low Tom 2
39 808 High Tom 1
40 808 High Tom 2
41 808 Mid Tom 1
42 808 Mid Tom 2
43 808 Low Tom 1
44 808 Low Tom 2
45 Electronic High Tom
46 Electronic Mid Tom
47 Electronic Low Tom

Hi-Hat

48 Closed Hi-Hat [EXC 1]
49 Pedal Hi-Hat [EXC 1]
50 Open Hi-Hat [EXC 1]
51 808 Closed Hi-Hat 1 [EXC 1]
52 808 Closed Hi-Hat 2 [EXC 1]
53 808 Open Hi-Hat [EXC 1]

Cymbal

54 Crash Cymbal 1
55 Crash Cymbal 2
56 Splash Cymbal
57 Ride Cymbal 1
58 Ride Cymbal 2
59 808 Cymbal
60 Reverse Cymbal

Percussion

61 High Bongo
62 Low Bongo
63 Open High Conga
64 Mute High Conga
65 Low Conga
66 Cowbell
67 Claves
68 Long Guiro [EXC 2]
69 Short Guiro [EXC 2]
70 Maracas
71 Shaker
72 Tambourine
73 High Timbale
74 Low Timbale
75 Vibra-Slap
76 High Agogo
77 Low Agogo
78 Open Cuica [EXC 3]
79 Mute Cuica [EXC 3]
80 Open Surdo [EXC 4]
81 Mute Surdo [EXC 4]
82 Whistle
83 High Wood Block
84 Low Wood Block
85 Bell Tree
86 Open Triangle [EXC 5]
87 Mute Triangle [EXC 5]
88 Metronome Bell
89 Metronome Click

Dance

90 Hand Clap
91 Scratch
92 Scratch Pull [EXC 6]
93 Scratch Push [EXC 6]
94 High Q
95 Slap
96 Guitar Slide
97 String Slap

SFX

98 Telephone
99 Dog
100 Kitty
101 Car-Engine
102 Car-Stop
103 Car-Crash
104 Door Creaking
105 Door
106 Foot Step
107 Heart Beat
108 Screaming
109 Punch
110 Laughing
111 Thunder
112 Gun Shot
113 Lasergun

No Sound

114 Off

MEMO

[EXC *]: Sounds of the same number will not play simultaneously.

About MIDI

MIDI (Musical Instrument Digital Interface) is a standard that allows performance data and other information to be exchanged among electronic musical instruments and computers. By using a MIDI cable to connect devices that have MIDI connectors, you can create an ensemble in which a single MIDI keyboard can play multiple instruments, or change settings automatically as the song progresses.

Detailed knowledge of MIDI is not necessary when you use a MIDI cable to connect the SPD-6 to a GM2/GS devices, or when playing the SPD-6's internal sounds.

About MIDI OUT Connector



This connector is used to transmit MIDI messages to an external MIDI device. This connector transmits messages that select drum sets on the device connected to the SPD-6's MIDI OUT connector, and messages that indicate pad strikes.

NOTE

The MIDI channel on which the SPD-6 transmits music data is fixed at channel 10.

About General MIDI/ General MIDI 2/GS

The SPD-6 is designed to be easily used in conjunction with a GM2/GS-compatible device.

GM/General MIDI (GENERAL MIDI)

General MIDI is a set of recommendations which seeks to provide a way to go beyond the limitations of proprietary designs, and standardize the MIDI capabilities of sound generating devices. Sound generating devices and music files that meet the General MIDI standard bear the General MIDI logo (GENERAL MIDI). Music files bearing the General MIDI logo can be played back using any General MIDI sound generating unit to produce essentially the same musical performance.

GM2/General MIDI 2 (GENERAL MIDI2)

The upwardly compatible General MIDI 2 (GENERAL MIDI2) recommendations pick up where the original General MIDI left off, offering enhanced expressive capabilities, and even greater compatibility. Issues that were not covered by the original General MIDI recommendations, such as how sounds are to be edited, and how effects should be handled, have now been precisely defined. Moreover, the available sounds have been expanded. General MIDI 2 compliant sound generators are capable of reliably playing back music files that carry either the General MIDI or General MIDI 2 logo. In some cases, the conventional form of General MIDI, which does not include the new enhancements, is referred to as "General MIDI 1" as a way of distinguishing it from General MIDI 2.

GS Format (GS)

The GS Format (GS) is Roland's set of specifications for standardizing the performance of sound generating devices. In addition to including support for everything defined by the General MIDI, the highly compatible GS Format additionally offers an expanded number of sounds, provides for the editing of sounds, and spells out many details for a wide range of extra features, including effects such as reverb and chorus. Designed with the future in mind, the GS Format can readily include new sounds and support new hardware features when they arrive.

MIDI Implementation

Model SPD-6
Version 1.00
October.18 2000

Transmit data

■Channel Voice Messages

●Note off

Status	2nd byte	3rd byte
8nH	kkH	vvH

n = MIDI channel number: 9H (ch.10)
kk = note number: 14H - 63H (20 - 99)
vv = note off velocity: 40H (64)

* Transmitted after the Gate Time specified for the pad.
* Transmitted as the note number specified for the pad.

●Note on

Status	2nd byte	3rd byte
9nH	kkH	vvH

n = MIDI channel number: 9H (ch.10)
kk = note number: 14H - 63H (20 - 99)
vv = note on velocity: 01H - 7FH (1 - 127)

* Note On message is transmitted when you strike the pad.
* Transmitted as the note number specified for the pad.

●Control Change

❍Bank Select (Controller number 0, 32)

Status	2nd byte	3rd byte
BnH	00H	mmH
BnH	20H	llH

n = MIDI channel number: 9H (ch.10)
mm = Bank number MSB:
ll = Bank number LSB:
mm, ll = Bank number: 00 00H - 7F 7FH (bank.1 - bank.16384)

* When a patch is selected, the bank select corresponding to the Drum Set number for the patch will be transmitted.
* The bank select messages corresponding to the Drum Set number are as follows.

Drum Set No.	Bank Select MSB	Bank Select LSB	Program No.	
1:GS Standard Set	00H	00H	1(00H)	
2:GS Room Set	00H	00H	9(08H)	
3:Power Set	00H	00H	17(10H)	
4:Electronic Set	00H	00H	25(18H)	
5:TR-808 Set	00H	00H	26(19H)	
6:Jazz Set	00H	00H	33(20H)	
7:GS Brush Set	00H	00H	41(28H)	
8:Orchestra Set	00H	00H	49(30H)	
9:SFX Set	00H	00H	57(38H)	
10:Standard Set	00H	40H	1(00H)	
11:OFF	---	---	-------	*1
12:USER SET	mmH	llH	pp	*2

* 1: Not transmitted.
* 2: Transmit the values of the Bank Select MSB, Bank Select LSB, and Program Number parameter settings of the patch.
* The bank select and program number of each patch are as follows.

Group	Patch No.	Bank Select MSB	Bank Select LSB	Program No.	Drum Set No.
DRUMS/U1	1	00H	00H	1(00H)	1:GS Standard Set
	2	00H	00H	17(10H)	3:Power Set
	3	00H	00H	41(28H)	7:GS Brush Set
	4	00H	00H	26(19H)	5:TR-808 Set
PERC/U2	1	00H	00H	1(00H)	1:GS Standard Set
	2	00H	00H	1(00H)	1:GS Standard Set
	3	00H	00H	1(00H)	1:GS Standard Set
	4	00H	00H	1(00H)	1:GS Standard Set
SFX/U3	1	00H	00H	57(38H)	9:SFX Set
	2	00H	00H	57(38H)	9:SFX Set
	3	00H	00H	57(38H)	9:SFX Set
	4	00H	00H	57(38H)	9:SFX Set
OTHERS/U4	1	00H	00H	1(00H)	1:GS Standard Set
	2	00H	00H	25(18H)	4:Electronic Set
	3	00H	00H	1(00H)	1:GS Standard Set
	4	00H	00H	26(19H)	5:TR-808 Set

●Program Change

Status	2nd byte
CnH	ppH

n = MIDI channel number: 9H (ch.10)
pp = Program number: 00H - 7FH (prog.1 - prog.128)

* When a patch is selected, the program number for the Drum Set assigned to the patch will be transmitted.

■System Realtime Messages

●Active Sensing

Status
FEH

* This will be transmitted constantly at intervals of approximately 200ms.

PERCUSSION PAD
Model SPD-6

MIDI Implementation Chart

Date : Oct. 18, 2000
Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic	Default	10	X	
Channel	Changed	X	X	
Mode	Default	Mode 3	X	
	Messages	X	X	
	Altered	**********		
Note Number :	True Voice	20–99 **********	X X	
Velocity	Note On	O 99H, v=1–127	X	
	Note Off	O 89H, v=64	X	
After Touch	Key's	X	X	
	Channel's	X	X	
Pitch Bend		X	X	
Control Change	0, 32	O	X	Bank select
Program Change	: True Number	O 0–127	X X	Program No. 1–128
System Exclusive		X	X	
System Common	: Song Position	X	X	
	: Song Select	X	X	
	: Tune Request	X	X	
System Real Time	: Clock	X	X	
	: Commands	X	X	
Aux Messages	: All Sound Off	X	X	
	: Reset All Controllers	X	X	
	: Local On/Off	X	X	
	: All Notes Off	X	X	
	: Active Sensing	O	X	
	: System Reset	X	X	
Notes				

Mode 1 : OMNI ON, POLY
Mode 2 : OMNI ON, MONO
Mode 3 : OMNI OFF, POLY
Mode 4 : OMNI OFF, MONO

O : Yes
X : No

Specifications

SPD-6: Percussion Pad

Number of Pads

6 (velocity sensitive)

MIDI Control

MIDI Channel: 10 (Fixed)
Note Number: 20–99
Bank Select MSB (CC0): 0–127
Bank Select LSB (CC32): 0–127
Program Change: 1–128

Maximum Polyphony

4 voices

Internal Sounds

113

Patches

Preset patches: 16
User patches: 16

Panel Control

Volume knob: 1
Sensitivity select switch: 1
Patch select buttons: 8
Power button: 1

Connectors

Output jacks: 1 (PHONES), 2 (MONO)
MIDI OUT connector
Pedal switch jacks: 1, 2
AC adaptor jack

Power Supply

DC 9 V: Dry battery (R6 (AA) type x 6) or AC adaptor

MEMO

Expected battery life under continuous use:
Carbon: 8 hours
Alkaline: 20 hours
These figures will vary depending on the actual conditions of use.

Current Draw

100 mA

Dimensions

318 (W) x 241 (D) x 67 (H) mm
12-9/16 x 9-1/2 x 2-11/16 inches

Weight

1.6 kg (including batteries)
3 lbs 9 oz

Accessories

MIDI cable
Dry battery (R6 (AA) type) x 6
Stand holder mounting screw (M5 x 20) x 4
** Attached to the bottom panel*
Owner's Manual

Options

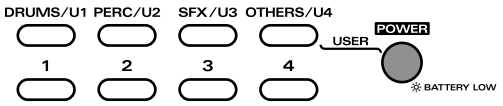
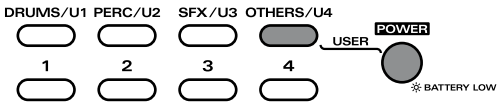
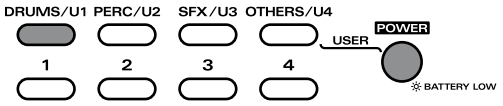
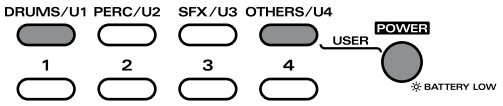
AC adaptor (BOSS PSA series)
Pedal Switch (DP-2)
Foot Switch (BOSS FS-5U)
Pad Stand (PDS-15)
All Purpose Clamp (APC-33)

NOTE

In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

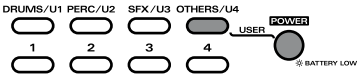
Operation List

Power-on Functions

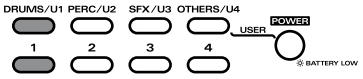
Operations when the power is turned on	Patch	Auto Power Off
	Preset Group	O
	User Group	O
	Preset Group	X
	User Group	X

Edit Functions

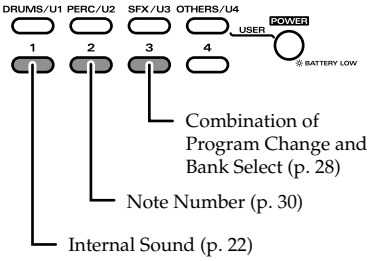
1. Turn on the power.



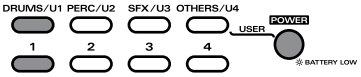
2. Hold down the two buttons of the user patch.



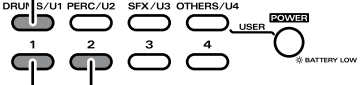
3. Select the parameter.

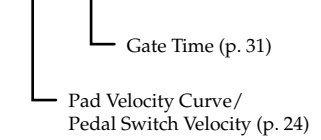


1. Hold down two buttons of the user patch, and press [POWER].

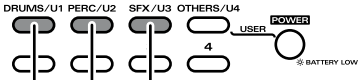


Continue pressing

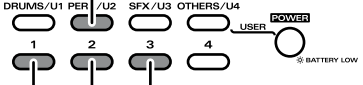


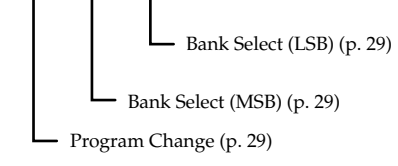


2. Select the parameter.

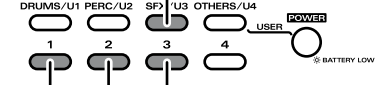


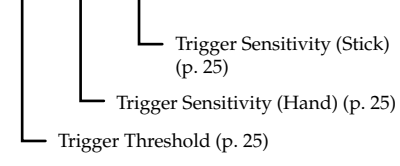
Continue pressing





Continue pressing





Blank Chart

		Instrument No.	Note No.	Velocity Curve/ Velocity	Gate Time	Drum Set No.	User Set		
							Bank Select		Program Change
							MSB	LSB	
U1-1	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U1-2	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U1-3	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U1-4	Pad 1								
	Pad 2								
	Pad3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								

		Instrument No.	Note No.	Velocity Curve/ Velocity	Gate Time	Drum Set No.	User Set		
							Bank Select		Program Change
							MSB	LSB	
U2-1	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U2-2	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U2-3	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U2-4	Pad 1								
	Pad 2								
	Pad3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								

Trigger Threshold	Trigger Sensitivity (Hand)	Trigger Sensitivity (Stick)

		Instrument No.	Note No.	Velocity Curve/ Velocity	Gate Time	Drum Set No.	User Set		
							Bank Select		Program Change
							MSB	LSB	
U3-1	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U3-2	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U3-3	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U3-4	Pad 1								
	Pad 2								
	Pad3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								

		Instrument No.	Note No.	Velocity Curve/ Velocity	Gate Time	Drum Set No.	User Set		
							Bank Select		Program Change
							MSB	LSB	
U4-1	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U4-2	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U4-3	Pad 1								
	Pad 2								
	Pad 3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								
U4-4	Pad 1								
	Pad 2								
	Pad3								
	Pad 4								
	Pad 5								
	Pad 6								
	Pedal 1								
	Pedal 2								

Index

A

AC adaptor
- AC adaptor jack 9
- Connection 12

Auto Power Off Function 12

B

Bank select MSB/LSB 29

Battery
- Battery cover 8
- Getting too low 32
- Install 11

Blank chart 44

Bottom panel 8

C

Controller Numbers 0/32 29

E

Error message 32

F

Factory reset 33

Front panel 8

G

Gate time (duration) 31

GM (General MIDI) 39

GM2 (General MIDI 2) 39

GS Format 39

H

Headphones 14

I

Internal sounds
- Internal sounds list 38
- Selecting the internal sounds 22

M

MicroSaver Security Slot 9

MIDI 39

MIDI implementation 40

MIDI OUT connector 9, 39

N

Note number 30

O

OUTPUT 1(PHONES)/2(MONO) jacks 9

P

Pad 8

Pad velocity curve 24

Patch
- About the Patch Name 10
- Patch select buttons 8
- Selecting 18
- What is a patch? 10

Patch list
- Internal sounds 34
- Via MIDI 36

Pedal switch
- Connecting 15
- PEDAL SW jacks 9
- Using 15

Pedal switch velocity 24

Power
- POWER button 8
- Power off 17
- Power on 16

Program change (program number) 27, 29

R

Rear panel 9

Restoring the factory settings 33

S

SENS select switch 9

Stand
- Attaching 13
- Stand holder mounting screw 8

T

Trigger sensitivity (Hand/Stick) 25

Trigger threshold 25

V

VOLUME knob 9

For EU Countries

CE

This product complies with the requirements of European Directive 89/336/EEC.

For the USA

FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT

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

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

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT
Al Fanny Trading Office
P.O. Box 2904,
El Horrieh Heliopolos, Cairo,
EGYPT
TEL: (02) 4185531

REUNION
Maison FO - YAM Marcel
25 Rue Jules Hermann,
Chaudron - BP79 97 491
Ste Clotilde Cedex,
REUNION ISLAND
TEL: 28 29 16

SOUTH AFRICA
That Other Music Shop (PTY) Ltd.
11 Melle St., Braamfontein,
Johannesbourg
Republic of SOUTH AFRICA

P.O.Box 32918, Braamfontein 2017
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont 7700
Republic of SOUTH AFRICA

P.O. Box 23032
Claremont, Cape Town
SOUTH AFRICA, 7735
TEL: (021) 674 4030

ASIA

CHINA
Beijing Xinghai Musical Instruments Co., Ltd.
6 Huangmuchang Chao Yang District, Beijing, CHINA
TEL: (010) 6774 7491

HONG KONG
Tom Lee Music Co., Ltd. Service Division
22-32 Pun Shan Street, Tsuen Wan, New Territories,
HONG KONG
TEL: 2415 0911

INDIA
Rivera Digitec (India) Pvt. Ltd.
409, Nirman Kendra Mahalaxmi Flats Compound Off. Dr. Edwin Moses Road, Mumbai-400011,
INDIA
TEL: (022) 498 3079

INDONESIA
PT Citra IntiRama
J1. Cideng Timur No. 15J-150
Jakarta Pusat
INDONESIA
TEL: (021) 6324170

KOREA
Cosmos Corporation
1461-9, Seocho-Dong,
Seocho Ku, Seoul, KOREA
TEL: (02) 3486-8855

MALAYSIA
Bentley Music SDN BHD
140 & 142, Jalan Bukit Bintang
55100 Kuala Lumpur,MALAYSIA
TEL: (03) 2443333

PHILIPPINES
G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

SINGAPORE
Swee Lee Company
150 Sims Drive,
SINGAPORE 387381
TEL: 748-1669

CRISTOFORI MUSIC PTE LTD
Blk 3014, Bedok Industrial Park E,
#02-2148, SINGAPORE 489980
TEL: 243 9555

TAIWAN
ROLAND TAIWAN ENTERPRISE CO., LTD.
Room 5, 9fl. No. 112 Chung Shan N.Road Sec.2, Taipei, TAIWAN, R.O.C.
TEL: (02) 2561 3339

THAILAND
Theera Music Co. , Ltd.
330 Verng NakornKasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

VIETNAM
Saigon Music
138 Tran Quang Khai St.,
District 1
Ho Chi Minh City
VIETNAM
TEL: (08) 844-4068

AUSTRALIA/ NEW ZEALAND

AUSTRALIA
Roland Corporation Australia Pty., Ltd.
38 Campbell Avenue
Dee Why West. NSW 2099
AUSTRALIA
TEL: (02) 9982 8266

NEW ZEALAND
Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

CENTRAL/LATIN AMERICA

ARGENTINA
Instrumentos Musicales S.A.
Florida 656 2nd Floor
Office Number 206A
Buenos Aires
ARGENTINA, CP1005
TEL: (54-11) 4- 393-6057

BRAZIL
Roland Brasil Ltda.
R. Coronel Octaviano da Silveira 203 05522-010
Sao Paulo BRAZIL
TEL: (011) 3743 9377

COSTA RICA
JUAN Bansbach Instrumentos Musicales
Ave.1. Calle 11, Apartado 10237,
San Jose, COSTA RICA
TEL: (506)258-0211

CHILE
Comercial Fancy S.A.
Avenida Rancagua #0330
Providencia Santiago, CHILE
TEL: 56-2-373-9100

EL SALVADOR
OMNI MUSIC
75 Avenida Notre YY Alameda,
Juan Pablo 2, No. 4010
San Salvador, EL SALVADOR
TEL: (503) 262-0788

MEXICO
Casa Veerkamp, s.a. de c.v.
Av. Toluca No. 323, Col. Olivar de los Padres 01780 Mexico D.F.
MEXICO
TEL: (525) 668 04 80

La Casa Wagner de Guadalajara s.a. de c.v.
Av. Corona No. 202 S.J.
Guadalajara, Jalisco Mexico
C.P.44100 MEXICO
TEL: (3) 613 1414

PANAMA
SUPRO MUNDIAL, S.A.
Boulevard Andrews, Albrook,
Panama City,
REP. DE PANAMA
TEL: (507) 315-0101

PARAGUAY
Distribuidora De Instrumentos Musicales
J.E. Olear y ESQ. Manduvira
Edeficio, El Dorado Planta Baja
Asuncion PARAGUAY
TEL: 595-21-492147

PERU
VIDEO Broadcast S.A.
Portinari 199 (ESQ. HALS),
San Borja, Lima 41,
REP. OF PERU
TEL: 51-14-758226

URUGUAY
Todo Musica S.A.
Cuareim 1844, Montevideo,
URUGUAY, CP11200
TEL: 5982-924-2335

VENEZUELA
Musicland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel C2 Local 20 Caracas
VENEZUELA
TEL: (02) 285 9218

EUROPE

AUSTRIA
Roland Austria GES.M.B.H.
Siemensstrasse 4, P.O. Box 74,
A-6063 RUM, AUSTRIA
TEL: (0512) 26 44 260

BELGIUM/HOLLAND/ LUXEMBOURG
Roland Benelux N. V.
Houtstraat 3, B-2260, Oevel (Westerlo) BELGIUM
TEL: (014) 575811

DENMARK
Roland Scandinavia A/S
Nordhavnsvej 7, Postbox 880,
DK-2100 Copenhagen
DENMARK
TEL: (039)16 6200

FRANCE
Roland France SA
4, Rue Paul Henri SPAAK,
Parc de l'Esplanade, F 77 462 St. Thibault, Lagny Cedex FRANCE
TEL: 01 600 73 500

FINLAND
Roland Scandinavia As, Filial Finland
Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
TEL: (9) 682 4020

GERMANY
Roland Elektronische Musikinstrumente HmbH.
Oststrasse 96, 22844 Norderstedt,
GERMANY
TEL: (040) 52 60090

GREECE
STOLLAS S.A. Music Sound Light
155, New National Road
26422 Patras, GREECE
TEL: 061-435400

HUNGARY
Intermusica Ltd.
Warehouse Area 'DEPO' Pf.83
H-2046 Torokbalint, HUNGARY
TEL: (23) 511011

IRELAND
Roland Ireland
Audio House, Belmont Court,
Donnybrook, Dublin 4.
Republic of IRELAND
TEL: (01) 2603501

ITALY
Roland Italy S. p. A.
Viale delle Industrie 8,
20020 Arese, Milano, ITALY
TEL: (02) 937-78300

NORWAY
Roland Scandinavia Avd. Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 273 0074

POLAND
P. P. H. Brzostowicz
UL. Gibraltarska 4.
PL-03664 Warszawa POLAND
TEL: (022) 679 44 19

PORTUGAL
Tecnologias Musica e Audio, Roland Portugal, S.A.
RUA DE SANTA CARARINA
131/133, 4000-450 PORTO
PORTUGAL
TEL: (022) 208 4456

ROMANIA
FBS LINES
Plata Libertatii 1.
RO-4200 Cheorgheni
TEL: (066) 164-609

RUSSIA
Slami Music Company
Sadojava-Triumfalnaja st., 16
103006 Moscow, RUSSIA
TEL: 095 209 2193

SPAIN
Roland Electronics de España, S. A.
Calle Bolivia 239, 08020
Barcelona, SPAIN
TEL: (93) 308 1000

SWEDEN
Roland Scandinavia A/S SWEDISH SALES OFFICE
Danvik Center 28, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

SWITZERLAND
Roland (Switzerland) AG
Musitronic AG
Gerberstrasse 5, Postfach,
CH-4410 Liestal, SWITZERLAND
TEL: (061) 921 1615

UKRAINE
TIC-TAC
Mira Str. 19/108
P.O. Box 180
295400 Munkachevo, UKRAINE
TEL: (03131) 414-40

UNITED KINGDOM
Roland (U.K.) Ltd.
Atlantic Close, Swansea Enterprise Park, SWANSEA
SA7 9FJ,
UNITED KINGDOM
TEL: (01792) 700139

MIDDLE EAST

BAHRAIN
Moon Stores
Bab Al Bahrain Road,
P.O. Box 20077
State of BAHRAIN
TEL: 211 005

CYPRUS
Radex Sound Equipment Ltd.
17 Diagorou St., P.O. Box 2046,
Nicosia CYPRUS
TEL: (02) 453 426

ISRAEL
Halilit P. Greenspoon & Sons Ltd.
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN
AMMAN Trading Agency
Prince Mohammed St. P.O. Box 825 Amman 11118 JORDAN
TEL: (06) 4641200

KUWAIT
Easa Husain Al-Yousifi
Abdullah Salem Street,
Safat KUWAIT
TEL: 5719499

LEBANON
A. Chahine & Fils
P.O. Box 16-5857 Gergi Zeidan St.
Chahine Building, Achrafieh
Beirut, LEBANON
TEL: (01) 335799

QATAR
Al Emadi Co. (Badie Studio & Stores)
P.O. Box 62,
DOHA QATAR
TEL: 4423-554

SAUDI ARABIA
aDawliah Universal Electronics APL
Corniche Road, Aldossary Bldg., 1st Floor
SAUDI ARABIA

P.O.Box 2154, Alkhobar 31952
SAUDI ARABIA
TEL: (03) 898 2081

SYRIA
Technical Light & Sound Center
Khaled Ibn Al Walid St.
P.O. Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

TURKEY
Barkat muzik aletleri ithalat ve ihracat Ltd Sti
Siraselviler cad.Guney is hani 84-86/6, Taksim. Istanbul. TURKEY
TEL: (0212) 2499324

U.A.E.
Zak Electronics & Musical Instruments Co. L.L.C.
Zabeel Road, Al Sherooq Bldg., No. 14, Grand Floor DUBAI
U.A.E.
TEL: (04) 3360715

NORTH AMERICA

CANADA
Roland Canada Music Ltd. (Head Office)
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (0604) 270 6626

Roland Canada Music Ltd. (Toronto Office)
Unit 2, 109 Woodbine Downs Blvd, Etobicoke, ON
M9W 6Y1 CANADA
TEL: (0416) 213 9707

U. S. A.
Roland Corporation U.S.
5100 S. Eastern Avenue
Los Angeles, CA 90040-2938,
U. S. A.
TEL: (323) 890 3700

As of November 1, 2000 (Roland)