BOSS

SY-1000 GUITAR SYNTHESIZER

Owner's Manual

English

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📖 Owner's Manual (this document)

Read this first. It explains the basic things you need to know in order to use the SY-1000.

💻 PDF Manual (download from the Web)

- **Reference Manual**
  This explains the all parameters of the SY-1000.

- **Sound List**
  This is a list of the sounds built into the SY-1000.

- **MIDI Implementation**
  This is detailed information about MIDI messages.

💻 To obtain the PDF manual

1. **Enter the following URL on your computer.**
   http://www.boss.info/manuals/

   ▼

2. **Choose "SY-1000" as the product name.**

Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's Manual (p. 21)).
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Contents

Getting Ready

Connecting the Equipment

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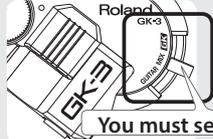
GK IN connector

Connect a guitar or bass equipped with the Roland Divided Pickup (Roland GK-3/GK-3B) or a GK-compatible guitar such as the Roland V-Guitar GC-1 to this connector.

In addition to the signal from the divided pickup, the conventional guitar signal (normal pickup) is also input to the GK IN connector.
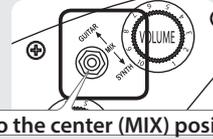
* Never connect anything other than the dedicated GK cable.

Roland GK-3 users   **Roland V-Guitar GC-1 users**

You must set this to the center (MIX) position!

GUITAR INPUT jack

Use this control if you're directly inputting a conventional guitar.

* If you use a 1/4" phone plug to make connections, instruments other than DYNAMIC SYNTH and the alternate tuning function will not operate.

DC IN jack

Connect the included AC adaptor here.

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

Indicator →

SEND/RETURN jacks

Connect an external effect processor here.

(USB) port

Use a commercially available USB 2.0 cable to connect this port to your computer. It can be used to transfer USB MIDI and USB audio data.

You must install the USB driver when connecting the unit to your computer.

Download the USB driver from the BOSS website. For details, refer to Readme.htm which is included in the download.

http://www.boss.info/support/

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

Turning the Power On/Off

This turns the power on/off.

* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

Auto Off Function

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

* Any settings that you are in the process of editing will be lost when the power is turned off. If you have any settings that you want to keep, you should save them beforehand.

* To restore power, turn the power on again.

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

MAIN OUTPUT jack / SUB OUTPUT jack

Connect these jacks to your guitar amp, headphones (sold separately), or to PA (LINE).

* Connect your headphones to the MAIN OUTPUT L/PHONES jack.

* If your system is mono, use only the R/MONO jack.

* If you're using headphones, don't connect anything to R/MONO jack.

MIDI IN, MIDI OUT/THRU jacks

Connect an external MIDI device here.

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

Ground Terminal

Connect this to an external earth or ground if necessary.

CTL 3, 4/EXP 1, CTL 5, 6/EXP 2 jacks

You can connect an expression pedal (EV-30, FV-500L, FV-500H, or EV-5: sold separately) or footswitch (FS-5U, FS-6, FS-7: sold separately), and use it to control various functions.

➜ For details on the settings, refer to "Reference Manual" (PDF).

To use these as EXP 1, EXP 2 jacks

Connect an expression pedal.

* Use only the specified expression pedal (EV-30, FV-500L, FV-500H, or EV-5: sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

To use these as CTL 3,4 or CTL 5,6 jacks

Connect a footswitch.

FS-5U x 1	FS-5U x 2	FS-6	FS-7
1/4" phone type ↕ 1/4" phone type	Stereo 1/4" phone type ↕ 1/4" phone type x 2	Stereo 1/4" phone type ↕ Stereo 1/4" phone type	Stereo 1/4" phone type ↕ Stereo 1/4" phone type
CTL 3 CTL 5	CTL 4 CTL 6 / CTL 3 CTL 5	CTL 4 CTL 6 / CTL 3 CTL 5	CTL 4 CTL 6 / CTL 3 CTL 5
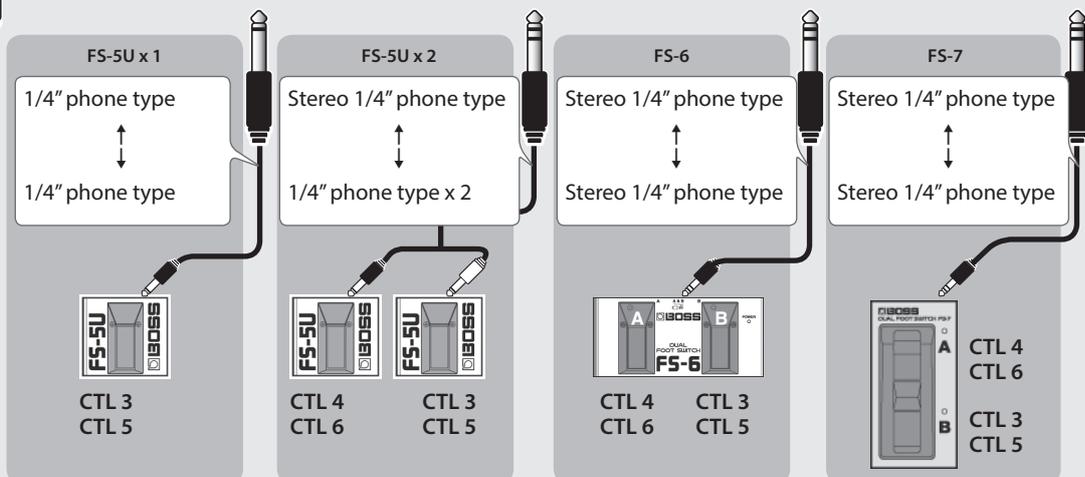
MODE / POLARITY switch

FS-5U   FS-6   FS-7
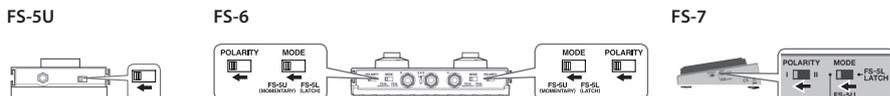
Panel Descriptions

No.	Name	Explanation	Page
1	**Display**	Various information regarding the SY-1000 is indicated here.	p. 10
2	**[1]–[6] knobs**	Use this to select or edit the value of the parameter that's shown in the display.	p. 11
3	**[OUTPUT LEVEL] knob**	This adjusts the volume level for the MAIN OUTPUT jack. * Depending on how you switch the settings, you can also adjust the MAIN OUTPUT and SUB OUTPUT volumes simultaneously. [SYSTEM] button → HARDWARE SETTING → KNOB → OUTPUT LEVEL KNOB	–
4	**[INST] button**	Specifies the sound of the INST (sound engine).	p. 13
5	**[EFFECTS] button**	Specifies the effect settings and the order in which effects are connected.	p. 15
6	**[CTL] button**	Accesses the CTL screen, where you can assign functions to the buttons and switches.	p. 17
7	**[EXIT] button**	Used to return previous screens and to undo operations.	–
8	**[WRITE] button**	Use for storing settings in patches and executing operations.	p. 18
9	**[SYSTEM] button**	Used for making settings related to the SY-1000's operating	p. 19
10	**[◄] [►] (PAGE) buttons**	This switches the screens displayed in the display.	p. 10
11	**BANK [▼], BANK [▲] switches**	Switch banks.	p. 12
12	**[CTL 1] [CTL 2] switches**	By default, the [CTL 1] and [CTL 2] pedals control a function that's assigned by each patch.	–
13	**[1]–[4] switches**	Switch patches.	–

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Selecting the Instrument (Guitar/Bass) to Use (MODE SETTING)

Here you can select whether you're connecting a guitar or a bass to the SY-1000.

Choose guitar mode (GUITAR) if you're using a guitar, or choose bass mode (BASS) if you're using a bass.

1. Press the [SYSTEM] button.

2. Use the [◄] [►] (PAGE) buttons to access the "MODE SETTING" icon.

3. Press the [2] knob.

The message appears.

4. To change the mode, press the [6] knob.

If you decide to cancel, press the [5] knob. When you press the [6] knob, a message appears.

5. Turn the power of the SY-1000 off, then on again.

If you decide to cancel, press the [EXIT] button. Verify that the SY-1000 has started with the mode that you specified.

MEMO

- With the factory settings, this is set to "GUITAR."
- The SY-1000 starts with the specified mode until the next time you change the mode.
- Some parameters are displayed differently depending on the selected mode.
- Patches are saved separately for guitar mode and bass mode.

Specifying the Device Connected to OUTPUT Jacks (OUTPUT SELECT)

Use this procedure to set the type of device connected to the output jacks (MAIN OUT, SUB OUT).

This applies the optimal adjustments for the device that is connected.

1. Press the [SYSTEM] button.

2. Use the [◄] [►] (PAGE) buttons to access the "IN/OUT SETTING" icon.

3. Press the [2] knob.

The IN/OUT SETTING screen appears.

4. Press the [3] knob or [4] knob.

The MAIN OUT screen or SUB OUT screen appears.

Press the [1] knob.

The OUTPUT SELECT screen appears.

5. Turn the [1] knob.

Select the connected device (type of amp).

OUTPUT SELECT	Explanation
LINE/PHONES	Choose this setting if you're using headphones, or if the SY-1000 is connected to a keyboard amp, mixer, or digital recorder.
JC-120 RETURN	Choose this setting if the SY-1000 is connected to the RETURN jack of the Roland JC-120 guitar amp.
JC-120 INPUT	Choose this setting if the SY-1000 is connected to the guitar input jack of a JC-120 guitar amp.
COMBO AMP 1 RETURN	Choose this setting if the SY-1000 is connected to the RETURN jack of a combo type amp (with amp and speaker in a single unit) equipped with one speaker.

OUTPUT SELECT	Explanation
COMBO AMP 1 INPUT	Choose this setting if the SY-1000 is connected to the guitar input jack of a combo type amp (with amp and speaker in a single unit) equipped with one speaker.
COMBO AMP 2 RETURN	Choose this setting if the SY-1000 is connected to the RETURN jack of a combo type amp (with amp and speaker in a single unit) equipped with two speakers.
COMBO AMP 2 INPUT	Choose this setting if the SY-1000 is connected to the guitar input jack of a combo type amp (with amp and speaker in a single unit) equipped with two speakers.
STACK AMP RETURN	Set this when connecting to the RETURN jack on a stack-type amp.
STACK AMP INPUT	Set this when connecting to the guitar input jack on a stack-type amp.
BASS AMP WITH TWEETER	Use this setting when connecting to a tweeter-equipped bass amp.
BASS AMP NO TWEETER	Use this setting when connecting to a bass amp that has no tweeter. The high-frequency range is adjusted.

6. Press the [EXIT] button.

You'll be returned to the Play screen.

Making Pickup Settings (GK SETTING)

Make settings for the divided pickup in order to ensure that you'll always be playing the SY-1000 in the optimal state.

The SY-1000 can save ten types of these settings (GK SETTING).

Here we explain the example of saving pickup settings in SETTING: [1].

MEMO

The GK SETTING is saved even when the power is turned off. You don't need to make this setting again each time you perform.

1. Press the [SYSTEM] button.

2. Use the [◄] [►] (PAGE) buttons to access the "IN/OUT SETTING" icon.
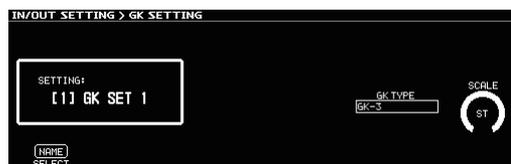
3. Press the [2] knob.

The IN/OUT SETTING screen appears.

4. Press the [1] knob.

The GK SETTING screen appears.

5. Turn the [1] knob to select SETTING: [1].

The pickup settings will be saved in SETTING: [1].

MEMO

Pickup settings are automatically saved in the number (SETTING: [1]–[10]) that you selected in step 5.

Specifying the Pickup Type

Choose the type of pickup that's installed on your guitar (bass).

6. If using guitar mode, turn the [5] knob. If using bass mode, turn the [4] knob.

| GK PU TYPE (GUITAR MODE)	Explanation	
GK-3	Choose this if you're using a Roland GK-3.	
GK-2A	Choose this if you're using a Roland GK-2A, or if you're using a (commercially available) guitar with a built-in divided pickup.	
GC-1	Choose this if you're using a Roland V-Guitar GC-1.	
PIEZO	Piezo Pickup	(flat response)
PIEZO F		Fishman
PIEZO G		Graph Tech
PIEZO L		L.R. Baggs
PIEZO R		RMC

| GK PU TYPE (BASS MODE)	Explanation	
GK-3B	Choose this if you're using a GK-3.	
GK-2B	Choose this if you're using a Roland GK-2B, or if you're using a (commercially available) bass with a built-in divided pickup.	
PIEZO	Piezo Pickup	(flat response)
PIEZO G		Graph Tech
PIEZO R		RMC

MEMO

- A piezo pickup is a type of pickup that is mounted on the bridge of the guitar, and uses a piezoelectric element to detect the vibrations of the strings.
- If you don't know the type of your piezo pickup, try selecting different choices while you play your guitar, and choose the setting that produces the most natural sound.
- If you've chosen piezo type, you'll be able to make further adjustments to the tone quality of the high range and low range.

Specifying Your Guitar's (Bass's) Scale Length

Specify your guitar's (bass's) scale length (the distance from the bridge to the nut).
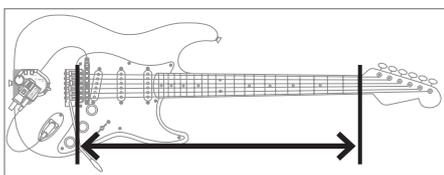
Guitar
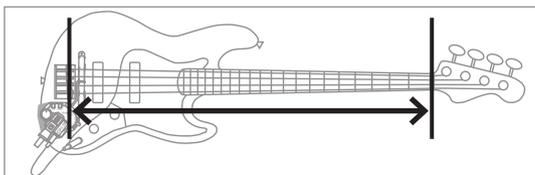
Bass

7. If using guitar mode, turn the [6] knob.
If using bass mode, turn the [5] knob.

Specify the length that is correct for your guitar (bass).

If you're using GUITAR MODE, choose "ST (648mm)" for a standard Stratocaster type, or choose "LP (628mm)" for a Les Paul type.

If you're using BASS MODE, For a standard Jazz Bass type or Precision Bass type, choose LONG JB/PB (864 mm).

MEMO

This parameter is not shown if GK PU TYPE is set to "Roland V-Guitar GC-1."

Specifying the Pickup Position (Bass Mode Only)

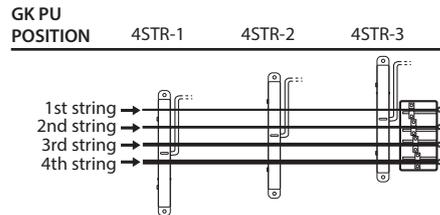Specify the position of the divided pickup that's installed on your bass.

MEMO

If you've installed a divided pickup on your guitar, proceed to step 9 "Specifying the Distance from the Bridge" (p. 9) (this step is not needed).
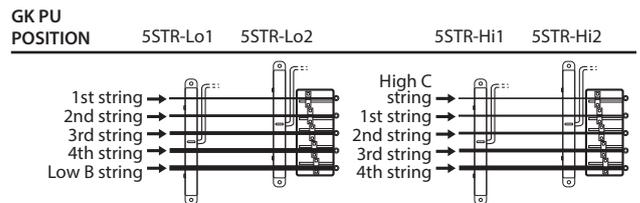
8. Turn the [6] knob

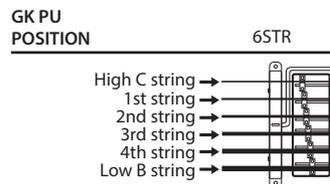Specify the GK PU POSITION according to the position of the divided pickup that's installed.

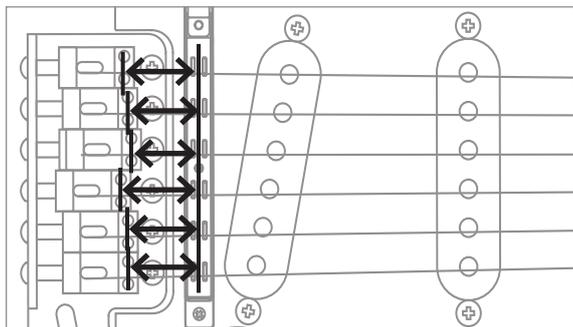**For a 4-string bass**

For a 5-string bass
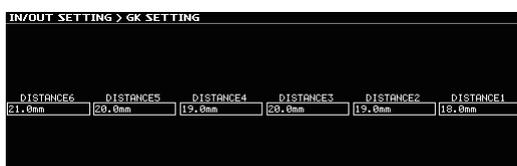

For a 6-string bass

Specifying the Distance from the Bridge

For each string, specify the distance from the bridge to the center of the pickup.

9. Use the [◄] [►] (PAGE) buttons to access the DISTANCE screen.

10. Turn the [1]–[6] knobs.

Specify the distance from the bridge to the center of the pickup.

MEMO

This setting is not needed if GK PU TYPE is "Roland V-Guitar GC-1" or if you selected a piezo type pickup.

Adjusting the Pickup Sensitivity

The volume will differ if the distances between each string and the divided pickup are different. Specify the sensitivity of the pickup to compensate for this volume difference.

11. Use the [◄] [►] (PAGE) buttons to access the SENS screen.
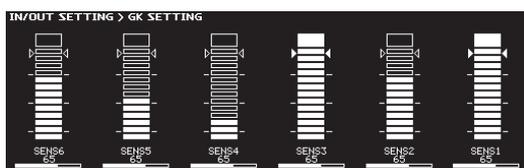
12. While playing the strings strongly, turn the [1]–[6] knobs so that the level meters reach the triangular marks.

MEMO

Depending on the guitar (bass) you're using, the level meter might reach full-scale even if the sensitivity is at minimum. If this is the case, adjust the distance between the divided pickup and the string so it's somewhat greater than the recommendation.

Tuning the Guitar (TUNER)

Tune the guitar (bass).

The SY-1000 is equipped with a conventional monophonic tuner which lets you tune your instrument one string at a time (SINGLE MODE), and a polyphonic tuner which lets you play and tune all of your open strings simultaneously (MULTI MODE).

1. Press the BANK [▼] switch and BANK [▲] switch simultaneously.

The TUNER screen appears.

2. Use the [◄] [►] (PAGE) buttons to select the tuner mode.

TUNER MODE	Explanation
MULTI MODE	You can play and tune six strings simultaneously
SINGLE MODE	You can play one individual string to tune that string.

3. Play an open string, and tune it so that only the center indicator in the screen is lit.

Making Tuner Settings

These settings specify how the tuner operates.

| Parameter	Value		Explanation
PITCH	435–445Hz (default: 440Hz)		Specifies the reference pitch.
OUTPUT	MUTE		Sound will not be output while tuning.
	BYPASS		While tuning, the sound from the GK IN connector/GUITAR INPUT jack will be output without change. All modelings and effects will be off.
	THRU		Allows you to tune while hearing the current effect/modeling sound.

Basic Operation

Here we explain how you can use the buttons and knobs to operate the SY-1000, and how to switch screens.

Display (Play Screen)

The screen that appears after you start the SY-1000 is called the "play screen."

Screen 1

This screen shows the bank number and patch number in especially large characters.

Bank number | Patch number
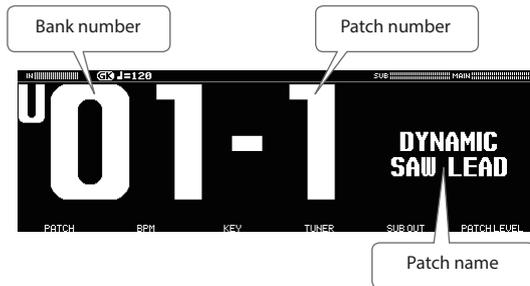
Patch name

Screen 2

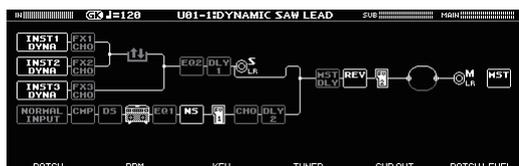This screen shows the bank number, patch number, and patch name.

Screen 3

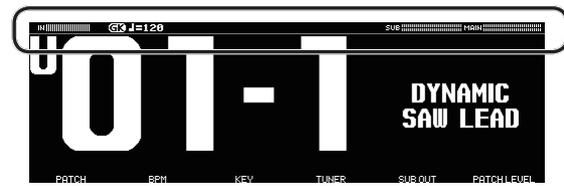This screen shows the functions that are assigned to the pedal switches of the unit.

Screen 4

This screen shows how the INST and effects are connected (CHAIN).
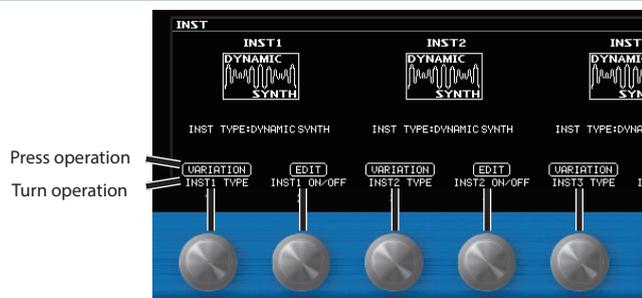

About the Icons

Icon	Explanations
IN ‖‖‖‖‖‖‖‖	Indicates the input level of the GK IN connector. * When using a normal patch (p. 12), this indicates the level of the guitar signal.
MAIN ‖‖‖‖‖‖‖‖‖‖ SUB ‖‖‖‖‖‖‖‖‖	Indicates the output level of the MAIN OUTPUT jacks and SUB OUTPUT jacks.
RTN ‖‖‖‖‖‖‖‖‖‖	Indicates the input level of the RETURN jack. * Shown in the EFFECTS edit screen.
SND ‖‖‖‖‖‖‖‖‖‖	Indicates the output level of the SEND jack. * Shown in the EFFECTS edit screen.
OUT ‖‖‖‖‖‖‖‖‖‖‖‖ OUT ‖‖‖‖‖‖‖‖‖‖	Indicates the output level of the selected effect block. * Shown in the EFFECTS edit screen.
BAL ‖‖‖‖‖‖‖‖‖‖‖	Indicates BALANCER1–3 and MIXER BALANCE. * Shown in the EFFECTS edit screen.
♩=120	Indicates the BPM.
◻◼ ↔ ◼◻	Blinks in time with the BPM.
GK	Shown when a GK patch (p. 12) is selected. When using a normal patch (p. 12), this icon goes dark.
◁◼◼◼◼◼▷	When the screen contains multiple pages, this indicates the position of the current page. Indicates the page to which you navigate using the [◀] [▶] (PAGE) buttons (edit screen).

Screen Operations

In the play screen, you can turn or press the [1]–[6] knobs to adjust the parameters that are shown in the lower part of the display.

Operating Example 1 (INST Screen)

Press operation
Turn operation

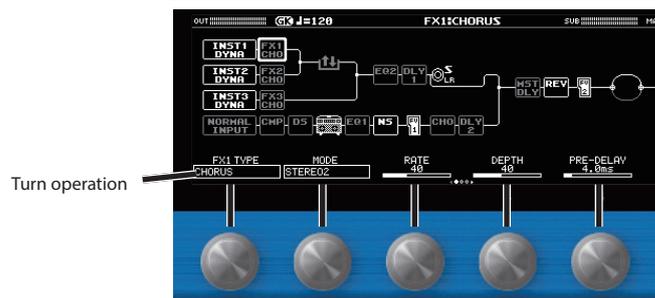| Operation	Explanation
Turn the [1] knob	Changes the INST TYPE of INST1.
Press the [1] knob	Accesses a screen where you can switch the INST TYPE variation of INST1.
Turn the [2] knob	Turns INST1 on/off. When off, the icon is shown in gray.
Press the [2] knob	Accesses the edit screen for INST1.

MEMO

As for INST1, you can operate INST2 with the [3] knob and [4] knob, and operate INST3 with the [5] knob and [6] knob.

Operating Example 2 (INST Edit Screen)
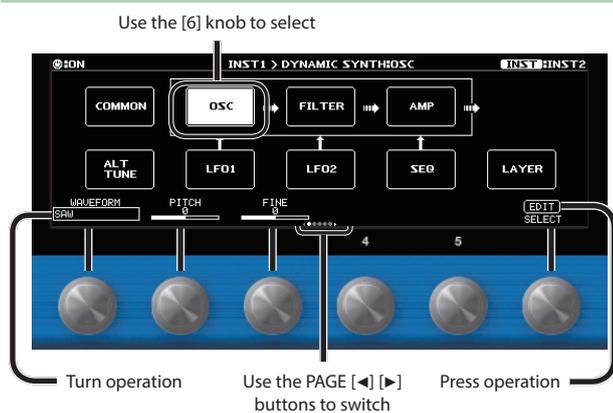
Use the [6] knob to select

Turn operation   Use the PAGE [◄] [►]   Press operation
buttons to switch

Operation	Explanation
Turn the [1]–[5] knobs	Changes the value of the setting for the parameter
Turn the [6] knob	Selects the block to edit.
Press the [6] knob	Shows a list with all parameters of the selected block.
Press the [◄] [►] (PAGE) buttons	Switches the parameters to show.

Operating Example 3 (EFFECT Edit Screen)

Turn operation

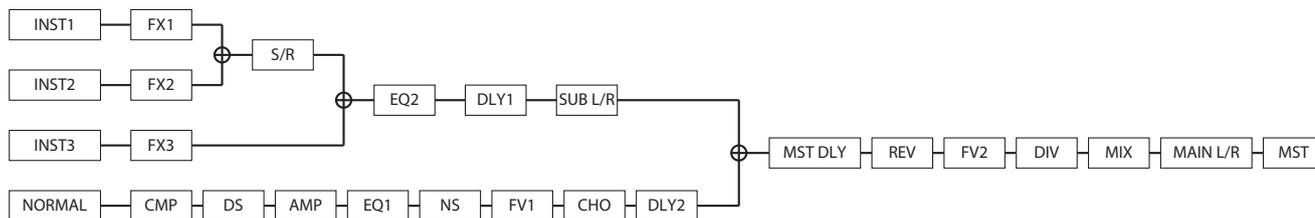| Operation	Explanation
Turn the [1]–[5] knobs	Changes the value of the setting for the parameter
Turn the [6] knob	Selects the block to edit.
Press the [6] knob	Turns the selected block on/off.
Long-press the [6] knob	Shows a list with all parameters of the selected block.
Turn the [6] knob while pressing it	Changes the position of the selected block.

MEMO

To change a value in larger steps, turn a [1]–[5] knob while pressing it.

Switching Patches (Tone)
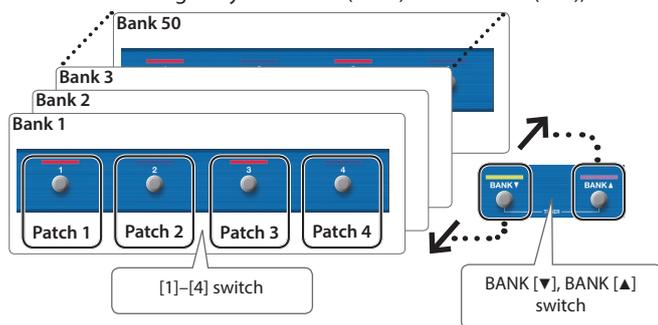
The Structure and Patches of the SY-1000

The SY-1000 consists of three sound engines (the INST blocks) and effects whose connections you are free to change (the FX block).

```
INST1 — FX1 ─┐
INST2 — FX2 ─┼─ S/R ─┐
INST3 — FX3 ─┘       ├─ EQ2 — DLY1 — SUB L/R ─┐
                     │                         ├─ MST DLY — REV — FV2 — DIV — MIX — MAIN L/R — MST
NORMAL — CMP — DS — AMP — EQ1 — NS — FV1 — CHO — DLY2 ─┘
```

The INST settings together with the combination of effects are collectively called a "patch."

A set of four patches is called a "bank."

Patches are managed by their bank (1–50) and number (1–4); the SY-1000 can store 200 patches.

Bank 50
Bank 3
Bank 2
Bank 1

Patch 1　Patch 2　Patch 3　Patch 4

[1]–[4] switch

BANK [▼], BANK [▲] switch

Types of Bank

The SY-1000 has two types of bank.

| Types of bank	Explanation
Preset bank (P01–P50)	Cannot be overwritten, however, you can write a patch into the User bank, modify the settings to your needs and store your modified version in the User bank.
User bank (U01–U50)	Can be overwritten.

## Types of Patch

The SY-1000 has two types of patch.

Types of patch	Explanation
GK patch	Patches for a guitar (bass) that uses a divided pickup. If these patches are selected, the display shows the GK icon **GK**.
Normal patch	Patches for a conventional guitar (bass) that is connected to the GUITAR INPUT. These can be used even if you don't have a divided pickup. You can also use these patches with the conventional guitar (bass) signal (normal pickup) that is routed through the divided pickup. If you're using Normal patch, the GK icon goes dark. * DYNAMIC SYNTH is the only INST TYPE that can be selected for normal patches.

Selecting a Patch

When you switch patches, the tonal character changes.

BANK [▼] [▲] switches
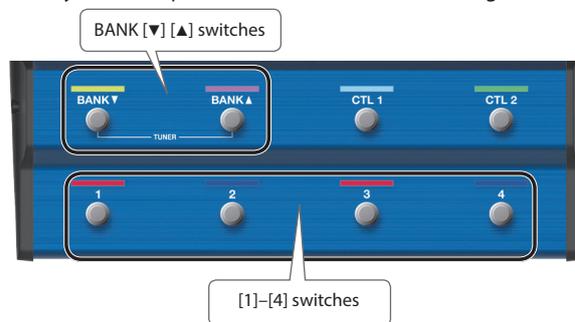
[1]–[4] switches

1. **Use the BANK [▼] [▲] switches to select a bank.**

2. **Use the [1]–[4] switches to select a patch within the selected bank.**

Bank number

Patch number

Patch name
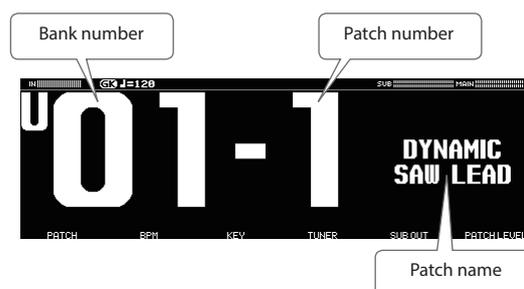
MEMO

You can also change patches by turning [1] knob below the display.

Editing a Patch

Here's how to create a patch by editing the parameters of the INST blocks and the effect block, and combining them.

Changing the INST

1. Press the [INST] button.

The INST screen appears.

2. Turn the [1]–[6] knobs.

The INST screen shows the INST TYPE for INST1–INST3.

Operation	Explanation
Turn the [1] knob	Changes the INST TYPE of INST1.
Press the [1] knob	Accesses a screen where you can switch the INST TYPE variation of INST1.
Turn the [2] knob	Turns INST1 on/off. When off, the icon is shown in gray.
Press the [2] knob	Accesses the edit screen for INST1.

MEMO

As for INST1, you can operate INST2 with the [3] knob and [4] knob, and operate INST3 with the [5] knob and [6] knob.

Editing the INST
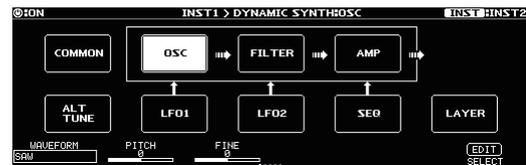
You can edit each INST in detail.

Here we explain using the example of the DYNAMIC SYNTH screen of INST1.

1. In the INST screen, press the [2] knob.

The INST1 screen appears.

* The pages differs depending on the INST TYPE.

2. Turn the [6] knob to select the block that you want to edit.

The selected block is shown in white.

3. Turn the [1]–[5] knobs to edit the setting of the parameter.

MEMO

- To change a value in larger steps, turn a knob while pressing it.
- You can use the PAGE [◀] [▶] buttons to switch between the parameters.
- The number of parameters and pages differs depending on the effect.
- In the edit screen, you can press the [INST] button to switch to the edit screen of another INST.

Viewing All Parameters While You Edit

You can also edit while viewing a list of all parameters for the selected block.

1. In the edit screen, press the [6] knob.

Shows a list with all parameters of the selected block.

**2. Turn the [1]–[6] knobs to edit the setting of the parameter.**

MEMO

You can use the PAGE [◀] [▶] buttons to switch between the parameters.

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Saving the Edited INST Settings (VARIATION)

Your preferred settings for each instrument can be saved as a "VARIATION." Since a variation can also be used from another patch, it is convenient for sound design.

1. In the INST screen, press the [1] knob.

The VARIATION screen appears.
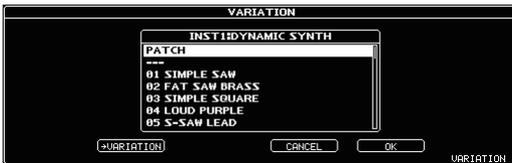
> **MEMO**
>
> From the INST edit screen, you can also access the variation screen using the following methods.
>
> **1.** In the edit screen, select the "COMMON" block.
>
>
>
> **2.** Use the PAGE [▶] buttons to move to the last page.
>
> **3.** Press the [5] knob.

4. Press the [2] knob.

The VARIATION WRITE screen appears.

5. Turn the [1] knob to select the save-destination number.

6. Use the [3]–[6] knobs to specify the variation name.

7. Press the [WRITE] button.

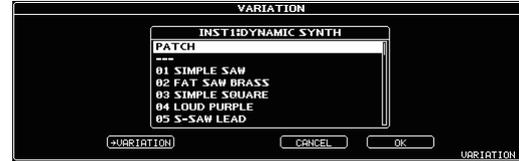The variation is saved.

To cancel this procedure, press the [4] knob.

Recalled a Saved INST Variation

1. In the INST screen, press any one of the knobs [1] (INST1), [3] (INST2), or [5] (INST3).

The VARIATION screen appears.

2. Turn the [6] knob to select a variation.

You can also audition the sound while selecting a variation.

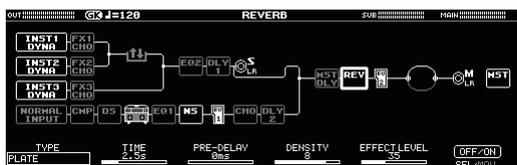**3.** Press the [5] knob to recall the selected variation.

Editing the Effects

You can edit the effect settings, and change the order of blocks such as output and send/return (the effect chain).

Basic Operation for Effect Editing

1. Press the [EFFECT] button.

The edit screen (effect chain) appears.

2. Turn the [6] knob to select the block that you want to edit.

The selected block is enclosed by a thick frame.

* By pressing the [6] knob you can turn the selected effect on/off. Effects that are off are shown in gray. When the effect is turned on, it is shown in white.

Off   On

3. Use knobs [1]–[5] to adjust the parameters that are shown below the screen.

Use the PAGE [◄] [►] buttons to switch between the parameters that you want to edit. The current page is indicated in the lower center of the screen.
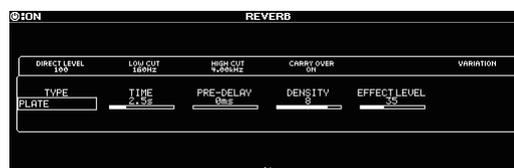
* To change a value in larger steps, turn a knob while pressing it.

* The number of parameters and pages differs depending on the effect.

Editing While Viewing All Parameters

You can also edit while viewing a list of all parameters for the selected block.
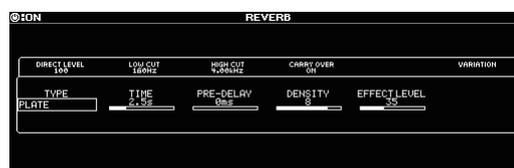
1. In the edit screen, long-press the [6] knob.

Shows a list with all parameters of the selected block.

2. Turn the [1]–[6] knobs to edit the parameter settings.

MEMO

You can use the PAGE [◄] [►] buttons to switch between the parameters.

↑ Use the PAGE [◄] [►] buttons to switch

Changing the Effect Order

By moving blocks such as effects, output, and send/return, you can freely change the order in which the effects are placed, or arrange them in parallel.

MEMO

- You can change the order of the INST1–3 blocks and the NORMAL block.
- The MST (MASTER) block cannot be moved.
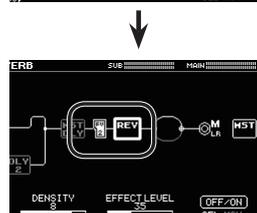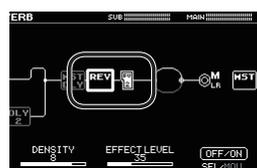
1. Press the [EFFECT] button.

The effect chain is shown.

2. Use the [6] knob to select the block that you want to move.

3. While pressing the [6] knob, turn it left or right.

The selected block moves left or right.

Saving the Edited Effect Settings (VARIATION)

Your preferred settings for each effect can be saved as a "VARIATION."

Since a variation can also be used from another patch, it is convenient for sound design.

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

2. **Use the [6] knob to choose the effect you're going to edit.**

3. **Use the PAGE [◄] [►] buttons to move to the last page.**

4. **Press the [5] knob.**
   The VARIATION screen appears.

5. **Press the [2] knob.**
   The VARIATION WRITE screen appears.

6. **Turn the [1] knob to select the save-destination number.**

7. **Use knobs [3]–[6] to name the VARIATION.**

8. **Press the [WRITE] button.**
   The variation is saved.

   To cancel this procedure, press the [4] knob.

Recalled a Saved Effect Variation

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

2. **Use the [6] knob to choose the effect you're going to edit.**

3. **Use the PAGE [◄] [►] buttons to move to the last page.**

4. **Press the [5] knob.**
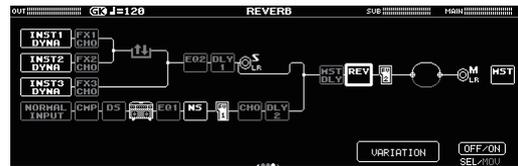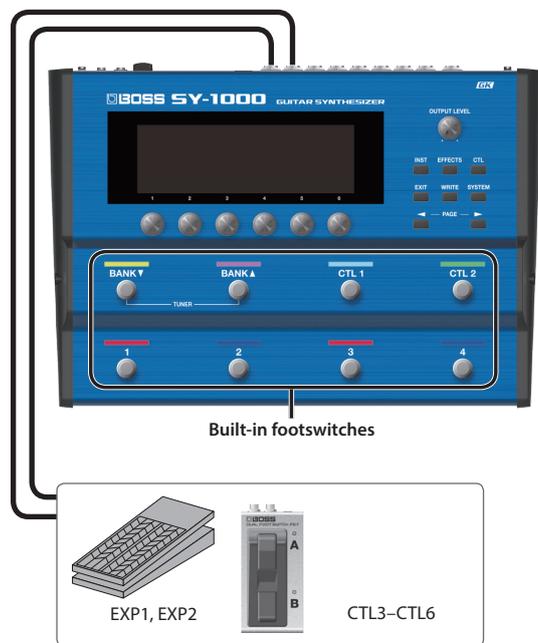   The VARIATION screen appears.

5. **Turn the [6] knob to select a variation.**
   You can also audition the sound while selecting a variation.

6. **Press the [5] knob to recall the selected variation.**

Assigning Functions to the Foot Switches and Expression Pedal

A variety of functions can be assigned to each of the top panel footswitches, and expression pedals or footswitches that are connected to the rear panel CTL3, 4/EXP1 jack and CTL5, 6/EXP2 jack (p. 4).

Built-in footswitches

EXP1, EXP2   CTL3–CTL6

1. Press the [CTL] button.

The CONTROL/ASSIGN screen appears.

2. Press the [1] knob.

The CONTROL FUNCTION screen appears.

3. Turn the [1] knob to select the item that you want to set.

Turning the knob will move the selected item vertically.
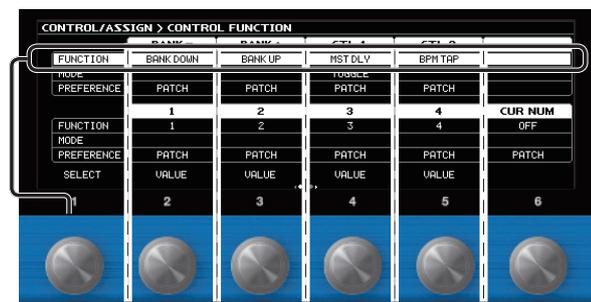
The settings of the selected item can now be edited.

4. Turn knobs [2]–[6] to edit the value of the item selected for each switch.

MEMO

- You can use the PAGE [◀] [▶] buttons to switch between the parameters.
- The footswitch and expression pedal functions must be specified for each patch; however, if you set PREFERENCE to SYSTEM, all patches will use those functions in common.

Making Assignments from the Effect Edit Screen (Quick Assign)

In the effect edit screen (p. 15), you can select an effect parameter and assign that parameter to the switch of your choice.

1. Press the [EFFECT] button.

2. Turn the [6] knob to select the block that you want to edit.

3. Long-press the [1]–[5] knobs for the parameter that you want to assign.

The ASSIGN MATRIX screen appears.

* You can also access the ASSIGN MATRIX screen in the same way from the all-parameter list screen (p. 13). You can also access it by selecting the [CTL] button → "ASSIGN SETTING."

4. Press the [1] knob to turn the SW on.

5. Turn knobs [2]–[6] to edit parameters.

If necessary, use the PAGE [◀] [▶] buttons to switch between pages of settings.

Use SOURCE to specify the pedal or MIDI message that you will operate.

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Saving a Patch

The INST settings and the combination of effects can be saved in a patch, and recalled at any time.

If you select a different patch or turn off the power after editing the settings, edited settings will be lost. If you want to keep the data, you must save it.

1. Press the [WRITE] button.

WRITE

WRITE   EXCHANGE   INITIALIZE   INSERT
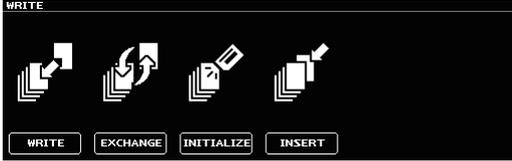
2. Press the [1] knob to select "WRITE" (PATCH WRITE).

WRITE > PATCH NAME   WRITE:EXECUTE

U01-1 **DYNAMIC SAW LEAD**

_ABCDEFGHIJKLMNOPQRSTUVWXYZ

U01-1
DYNAMIC SAW LEAD   DELETE   INSERT
WRITE TO   Aa0!   A<>a   CHAR   CURSOR

3. Use the [1] knob to select the save-destination (U01-1–U50-4).

You can use knobs [3]–[6] to edit the name.

Editing a name

To edit the patch name, use the [6] knob to move the cursor and use the [5] knob to change the character.

Operation	Explanation
Turn the [3] knob	Selects the type of characters
Press the [3] knob	Delete one character (delete)
Turn the [4] knob	Switch uppercase/lowercase
Press the [4] knob	Insert one space (insert)
Turn the [5] knob	Changes the character
Turn the [6] knob	Moves the cursor

4. Press the [WRITE] button.

The patch is written.

To cancel this procedure, press the [4] knob.

Settings for the Entire SY-1000 (System Parameters)

Settings for the SY-1000

Here you can make settings that are common to the entire SY-1000 (system parameters).

> For details on each parameter, refer to "SY-1000 Reference Manual" (PDF).

1. Press the [SYSTEM] button.

MEMO

You can use the PAGE [◄] [►] buttons to see additional items.

2. Press a [1]–[6] knob to select the item that you want to edit.

A sub-menu appears.

3. Once again press a [1]–[6] knob to select the item that you want to edit.

4. Use knobs [1]–[6] to select parameters or edit the values.

MEMO

The method of selecting parameters and editing their value will differ depending on the item.

Restoring the Factory Default Settings (Factory Reset)

Restoring the SY-1000's settings to their original factory default settings is referred to as "Factory Reset."

Not only can you return all of the settings to the values in effect when the SY-1000 was shipped from the factory, you can also specify the items to be reset.

* When you execute "Factory Reset," the settings you made will be lost. Save the data you need to your computer using the dedicated software.

1. Press the [SYSTEM] button.

2. Use the [◄] [►] (PAGE) buttons to select "FACTORY RESET."

3. Choose the type of settings to be restored to the factory default settings with knobs [1] and [6].

Knob	Explanation
[1]	Specifies FROM.
[6]	Specifies TO.

Value	Explanation
SYSTEM	System parameter settings
U01-1–U50-4	Settings for Patch Numbers U01-1–U50-4
VARIATION	Settings for VARIATION

4. Press the [WRITE] button.

Press the [6] knob to execute the factory reset.

To cancel factory reset, press the [5] knob.

Once the Factory Reset is complete, you are returned to the Play screen.

Turning Off the Auto Off Function

The SY-1000 can turn off its power automatically. The power will turn off automatically when 10 hours have passed since you last played or operated the unit. The display will show a message approximately 15 minutes before the power turns off.

With the factory settings, this function is turned "ON" (power-off in 10 hours). If you want to have the power remain on all the time, turn it "OFF."

1. Press the [SYSTEM] button.

2. Choose "HARDWARE SETTING" → "OTHER."

3. Use the [1] knob to select "OFF."

4. Press the [EXIT] button a number of times to return to the play screen.

Main Specifications

BOSS SY-1000: Guitar Synthesizer

Patch Memory	Guitar mode	200 (preset) + 200 (user)	
	Bass mode	200 (preset) + 200 (user)	
AD Conversion	Divided pickup	32 bits + AF method	* AF method (Adaptive Focus method) is a proprietary method from Roland & BOSS that vastly improves the signal-to-noise (SN) ratio of the AD and DA converters.
	Normal pickup	32 bits + AF method	
DA Conversion	32 bits		
Sample Rate	48 kHz		
Normal Input Level	GUITAR INPUT	-10 dBu	
	RETURN	-10 dBu	
Maximum Input Level	GUITAR INPUT	+16 dBu	
	RETURN	+8 dBu	
Input Impedance	GUITAR INPUT	1 MΩ	
	RETURN	1 MΩ	
Normal Output Level	MAIN OUTPUT (L/PHONES, R/MONO)	-10 dBu	
	SUB OUTPUT (L, R/MONO)	-10 dBu	
	SEND	-10 dBu	
Output Impedance	MAIN OUTPUT (L/PHONES, R/MONO)	44 Ω	
	SUB OUTPUT (L, R/MONO)	1 kΩ	
	SEND	1 kΩ	
Recommended Load Impedance	MAIN OUTPUT (L/PHONES, R/MONO)	10 kΩ or greater (when using headphones: 44 Ω or greater)	
	SUB OUTPUT (L, R/MONO)	10 kΩ or greater	
	SEND	10 kΩ or greater	
Display	Graphic LCD (512 x 160 dots, backlit LCD)		
Connectors	GK IN connector	13-pin DIN type	
	GUITAR INPUT jack, SEND jack, RETURN jack, MAIN OUTPUT (L/PHONES, R/MONO) jacks, SUB OUTPUT (L, R/MONO) jacks	1/4-inch phone type	
	CTL3, 4/EXP1 jack, CTL5, 6/EXP2 jack	1/4-inch TRS phone type	
	USB COMPUTER port	USB B type (supports High-Speed USB, USB Audio, and USB MIDI)	
	MIDI (IN, OUT/THRU) connectors		
	DC IN jack		
Power Supply	AC adaptor		
Current Draw	800 mA		
Dimensions	345 (W) x 245 (D) x 67 (H) mm 13-5/8 (W) x 9-11/16 (D) x 2-11/16 (H) inches		
Weight (excluding AC adaptor)	2.5 kg 5 lbs 9 oz		
Accessories	AC Adaptor Owner's Manual Leaflet "USING THE UNIT SAFELY"		
Options (sold separately)	Divided pickup: GK-3 (for guitar), GK-3B (for bass guitar) GK cable: GKC-5 (5 m, 15 feet), GKC-10 (10 m, 30 feet) Footswitch: FS-5U, FS-5L, FS-6, FS-7 Expression Pedal: EV-30, FV-500L, FV-500H, Roland EV-5 Unit selector: Roland US-20		

* 0 dBu = 0.775 Vrms

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

USING THE UNIT SAFELY

⚠ WARNING

Concerning the Auto Off function

The power to this unit will be turned off automatically after a predetermined amount of time has passed since it was last used for playing music, or its buttons or controls were operated (Auto Off function). If you do not want the power to be turned off automatically, disengage the Auto Off function (p. 3).

⚠ WARNING

Use only the supplied AC adaptor and the correct voltage

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

Use only the supplied power cord

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

⚠ CAUTION

Handle the ground terminal carefully

If you remove the screw from the ground terminal, be sure to replace it; don't leave it lying around where it could accidentally be swallowed by small children. When refastening the screw, make that it is firmly fastened, so it won't come loose.

IMPORTANT NOTES

Repairs and Data

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

Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, try to make a habit of creating regular backups of the data you've stored in the unit.

- Roland assumes no liability concerning the restoration of any stored content that has been lost.

- Never strike or apply strong pressure to the display.

- Do not use connection cables that contain a built-in resistor.

Intellectual Property Right

- ASIO is a trademark and software of Steinberg Media Technologies GmbH.

- This product contains eParts integrated software platform of eSOL Co.,Ltd. eParts is a trademark of eSOL Co., Ltd. in Japan.

- This Product uses the Source Code of µT-Kernel under T-License 2.0 granted by the T-Engine Forum (www.tron.org).

- Roland and BOSS are either registered trademarks or trademarks of Roland Corporation in the United States and/or other countries.

- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.

- In this manual, company names and product names of the respective owners are used because it is the most practical way of describing the sounds that are emulated using DSP technology.

For the U.K.

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.

        BLUE: NEUTRAL
        BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
Under no circumstances must either of the above wires be connected to the earth terminal of a three pin plug.

For the USA

SUPPLIER'S DECLARATION OF CONFORMITY
Compliance Information Statement

Model Name : SY-1000
Type of Equipment : Guitar Synthesizer
Responsible Party : Roland Corporation U.S.
Address : 5100 S. Eastern Avenue Los Angeles, CA 90040-2938
Telephone : (323) 890-3700

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