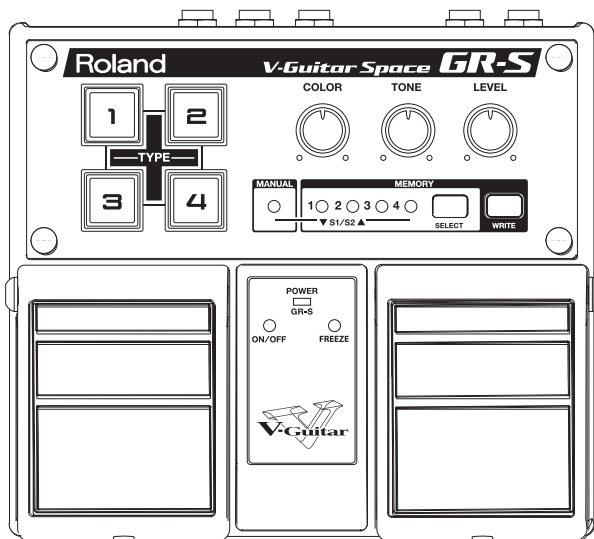




# GR-S

## V-Guitar Space

Owner's Manual



# Roland

\* **With the factory settings, this device will enter Sleep mode (power conservation mode) when ten hours have elapsed since the last operation, or since the last audio input while in Stop mode.**

If you want to prevent the device from entering Sleep mode, hold down the left pedal while you turn on the power, and continue holding down it down for five seconds (p. 9).

\* Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (supplied on a separate sheet). 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.

# Main Features

## Dedicated effects unit for the V-Guitar/GK pickup

The GR-S is an effects unit specifically designed for the GK pickup, which individually extracts the signal of each string. Since each string's signal is processed individually, you'll be able to experience completely new sounds that could not be produced by guitars with conventional pickups of the past.

## Richly expressive sounds

The GR-S processes the signal from each string individually, generating sparkling and spacious sounds that have never been heard until now. You'll obtain expressive and extraordinary sounds not only when playing chords and arpeggios, but even for single notes.

## Simple operation

Operation is effortless. Just twist the knobs and press the pedals to obtain cutting-edge V-Guitar sounds.

## Memory function

Four effects settings can be stored (in memory) in the unit. You can switch memory slots using the [S1] [S2] buttons of the GK pickup for instant sound selection during your live performances.

### Check the following points before using the GR-S

#### You'll need a GK-compatible guitar

In order to use the GR-S, you'll need a guitar equipped with a GK pickup or a GK-compatible guitar such as the GC-1 V-Guitar. (Hereafter, we'll refer to such a guitar as a **"GK-compatible guitar."**)

\* The GR-S does not support basses (GK-3B).

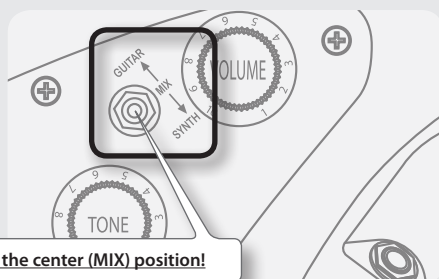
#### You must set the GK pickup select switch to the "MIX" position!

If the switch is set to any position other than MIX, the unit won't operate correctly (there will be no sound).

##### GK-3 users



##### V-Guitar GC-1 users



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

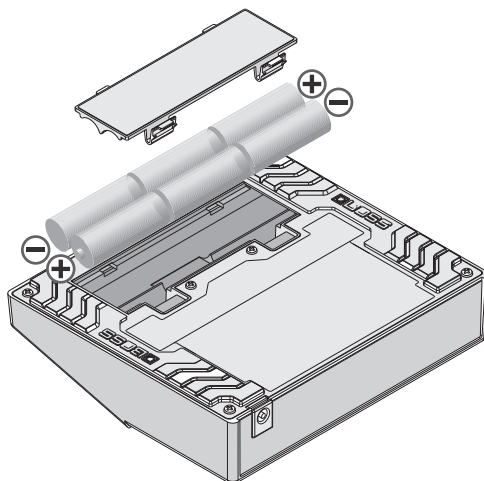
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# Installing Batteries

Insert the included batteries (AA x 6) as shown in the diagram, being careful to observe the correct polarity.



## WARNING

### Handle batteries carefully

- Batteries must never be recharged, heated, taken apart, or thrown into fire or water.
- Never expose batteries to excessive heat such as sunshine, fire or the like.
- Incorrect handling of batteries can cause leakage, overheating, fire, or explosion. Before use, you must read and strictly observe all of the precautions that accompany the batteries.
- 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.
  - 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.

### Handle leaking batteries carefully

- If fluid has leaked from a battery, make sure not to touch it with your bare hands.
- If any of the leaking fluid gets into your eyes, the loss of vision may result. Do not rub your eyes; use clean water to flush them thoroughly. Then, promptly see a doctor.
- Burning of the skin or dermatitis may result if fluid has gotten onto your skin or clothing. Use clean water to flush affected areas thoroughly; then, promptly see a doctor.
- Using a soft cloth, carefully wipe any remaining fluid from the inside of the battery compartment. Then, install new batteries.

## Notes Concerning Batteries

- When operating on battery power only, the POWER indicator will become dim when battery power gets too low. Replace the battery as soon as possible.
- 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 this unit off and disconnect any other devices you may have connected. This way, you can prevent malfunction and damage.
- If operating this unit on batteries, please disconnect the AC adaptor from this unit.
- Even if batteries are installed, the unit will turn off if you connect or disconnect the power cord from the AC outlet while the unit is turned on, or if you connect or disconnect the AC adaptor from the unit. When this occurs, unsaved data may be lost. You must turn off the power before you connect or disconnect the power cord or AC adaptor.
- When turning the unit upside down, position stacks of magazines (or other materials) under the unit in such a way that they will support its four corners, thus preventing damage to the buttons, knobs, etc.

## Expected battery life under continuous use

- Alkaline: 7 hours
  - Carbon: 2 hours
- (These figures will vary depending on the specifications of the batteries and the actual conditions of use.)

# Panel Descriptions

## [TYPE] buttons

Selects the effect type.

[TYPE] buttons		
1	CRYSTAL	A sound with a metallic resonance and a transparent character
2	RICH MODULATION	Rich and spacious modulation sound
3	SLOW PAD	Deep, fantasy-like pad-type sound
4	BRILLIANT CLEAN	Bright, sparkling sound like a multiply-strung guitar

## [COLOR], [TONE] knobs

The [COLOR] knob will operate differently depending on the type you select, as follows.

[COLOR] knob	[TONE] knob
Adjusts the tonal character of the high-frequency range. Turning the knob toward the right will make the tonal character more metallic.	Adjusts the brightness of the sound. Turning the knob toward the right will brighten the sound.
Adjusts the depth of the effect. Turning the knob toward the right will make the modulation effect stronger.	
Adjusts the strength of the attack. Turning the knob toward the right will strengthen the attack.	
Adjusts the resonance of the sound. Turning the knob toward the right will strengthen the effect.	

## [LEVEL] knob

Adjusts the volume.

## [SELECT] button

Switches you between MANUAL, in which the current positions of the knobs determine the sound that's output, and MEMORY 1–4, which provide for use of the stored settings.

\* For details, refer to "Selecting the MANUAL/MEMORY" (p. 8).

## [WRITE] button

Press this to store settings in MEMORY.

\* For details, refer to "Storing the MEMORY" (p. 8).

## [ON/OFF], [FREEZE] pedal/indicator

The [ON/OFF] (left) pedal turns the effect on/off.

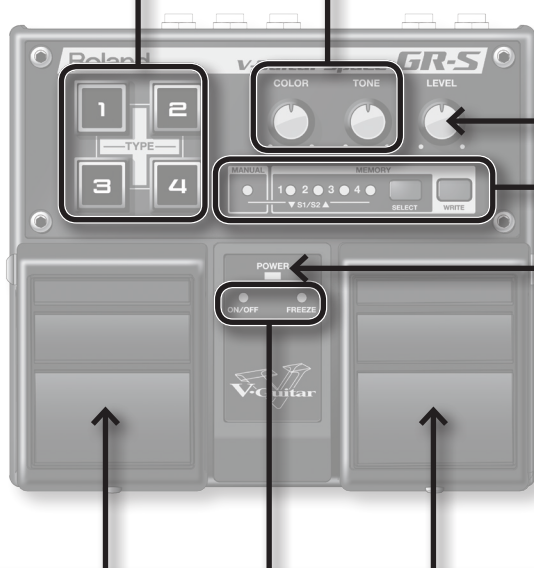
Turning on the [FREEZE] (right) pedal will turn on the Freeze function which sustains the sound of the guitar. The effect will apply only while you hold down the pedal.

When a pedal is on, its indicator (ON/OFF, FREEZE) will light.

## POWER indicator

This lights up when the power is on.

If this gets dim or fails to light up when the unit is running on battery power, it means that the batteries are depleted. Replace promptly with fresh batteries.



# Connections

## MIX/GUITAR INPUT jacks

The sound of other devices can be input here. This input sound will be mixed with the sound of the GR-S and output via the OUTPUT jacks.

\* If nothing is connected to the GK IN connector, the L/ MONO jack will function as the GUITAR INPUT jack. You can connect a non-GK-compatible guitar using a 1/4" phone plug. \*1

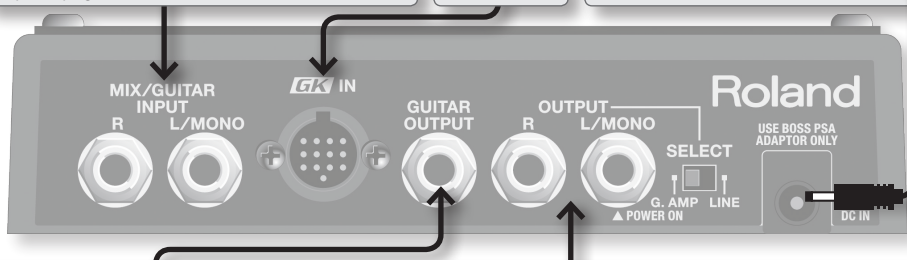
## GK IN connector

Connect the GK-compatible guitar using dedicated GK cable (sold separately).

## DC IN jack

This jack is for connecting an AC adaptor (BOSS PSA series; sold separately).

\* Use only the specified AC adaptor (PSA series), and connect it to an AC outlet of the correct voltage. Do not use any other AC adaptor, since this may cause malfunction.



## GUITAR OUTPUT jack

Normal pickup signals of the GK-compatible guitar are output.

By connecting another effects unit and returning its signal to the MIX INPUT jacks, you can use the unit for send/return applications.

## OUTPUT jacks

Connect these jacks to your guitar amp or to another effects unit.

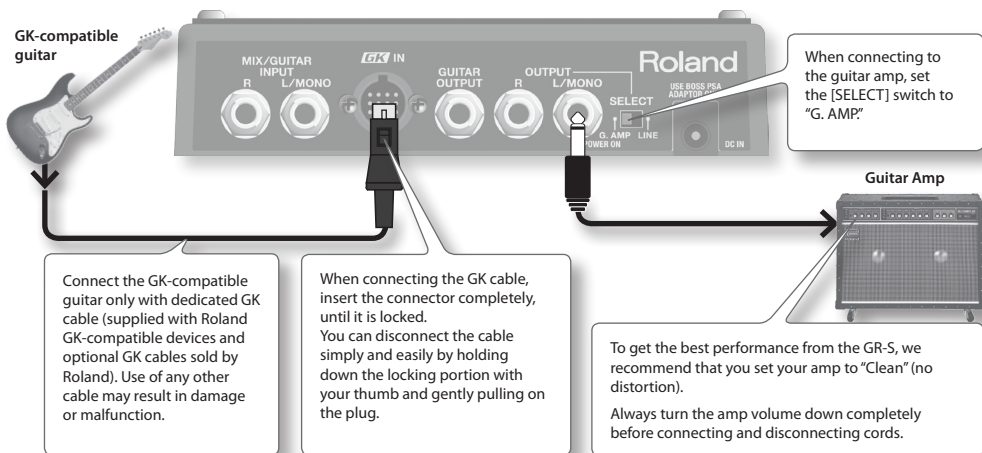
\* Use the [SELECT] switch to specify whether these jacks are connected to a guitar amp (G. AMP) or to a line-level device (LINE).

\* **The OUTPUT L jack also operates as a power switch.** The power will be on if a plug is inserted in the OUTPUT L jack. Remove the plug when you're not using the GR-S.

\*1 If you've connected your guitar to the GUITAR INPUT jack using a 1/4" phone plug, the signal from each string cannot be processed individually, so you won't be able to enjoy the full potential of the GR-S.

## Basic Connection

Connect the GR-S to the GK-compatible guitar using dedicated GK cable.



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

## Connections

### Turning On the Power

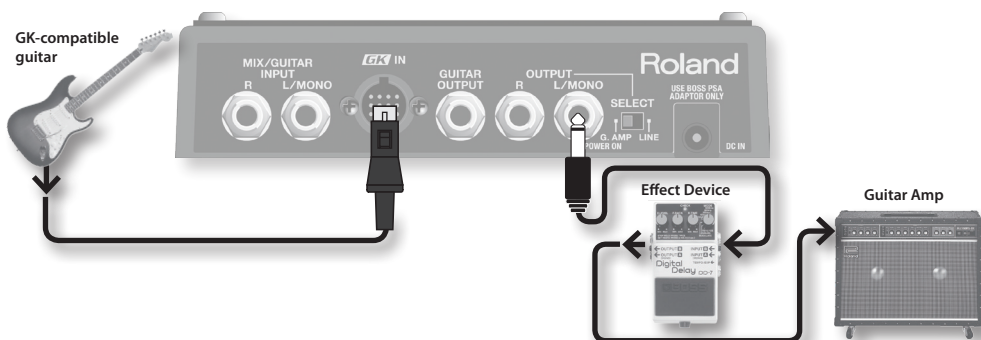
Be sure to observe the following order when connecting devices and switching on the power to your equipment. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

**Connect the GK-Compatible Guitar → (Connect the AC Adaptor) → Connect the Amp → Turn On Amp Power**

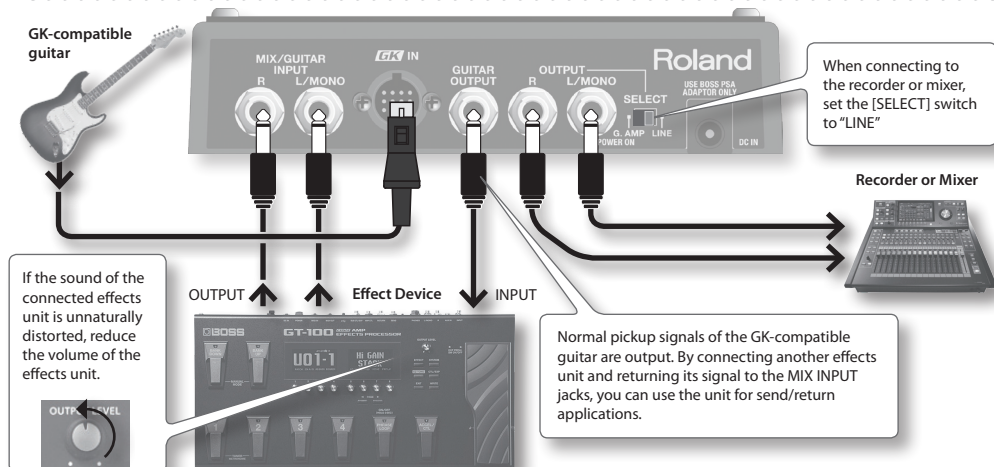
- \* This unit is equipped with a protection circuit. A brief interval (a few seconds) after turning the unit on is required before it will operate normally.
- \* Before turning the unit on/off, always be sure to turn the volume down. Even with the volume turned down, you might hear some sound when switching the unit on/off. However, this is normal and does not indicate a malfunction.

### Application Examples

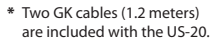
#### Connecting another effects unit following the GR-S



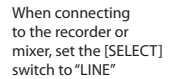
#### Using in combination with other effect devices (send/return)



- \* When connection cables with resistors are used, the volume level of equipment connected to the inputs (MIX/GUITAR INPUT jacks) may be low. If this happens, use connection cables that do not contain resistors.



### Using in combination with the GR-55

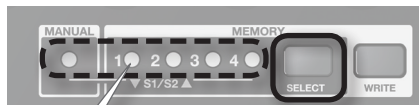


# Operating

## Selecting the MANUAL/MEMORY

The [SELECT] button switches you between MANUAL, in which the current positions of the knobs determine the sound that's output, and MEMORY 1–4, which provide for use of the stored settings.

### 1. Press the [SELECT] button.



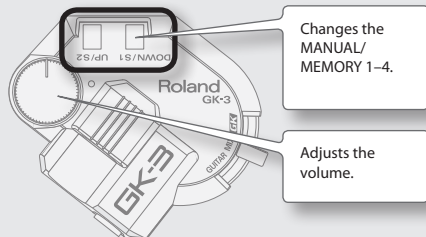
Pressing the button cycles you through the choices like this:  
MANUAL → MEMORY 1 → 2 → 3 → 4 → MANUAL.

- \* When MEMORY is selected, to avoid sudden inadvertent changes in sound, the knobs are designed so that the setting does not change unless the knob is first turned as far as the stored setting value. Once the position of the knob matches the setting value stored in memory, the sound starts to change.

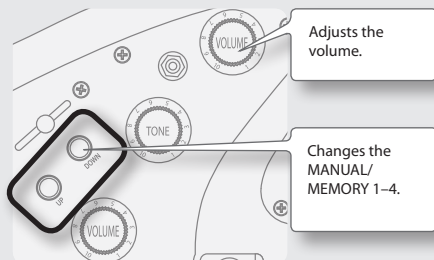
## GK-pickup controllers

You can also use [S1] (DOWN)/[S2] (UP) buttons of the GK-pickup to change the MANUAL/MEMORY.

### GK-3 users



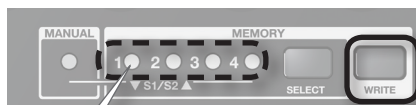
### V-Guitar GC-1 users



## Storing the MEMORY

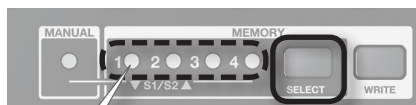
Here's how to store your settings in MEMORY.

1. Operate the knobs to create the sound you want.
2. Press the [WRITE] button.



The indicator for the currently selected MEMORY number start to flash, and the GR-5 is put into write standby.

3. Press the [SELECT] button to select the MEMORY (number) to which you want to store the sound.



The indicator for the selected MEMORY number flashes.

4. Press the [WRITE] button.

The write operation is completed after the indicator for the write-destination memory flash more rapidly.

To cancel the write operation before you press the [WRITE] button, rotate the knob.

### NOTE

- \* Do not switch off the power while a write operation is in progress.
- \* 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.

# Setting

## About Sleep Mode

When ten hours have elapsed since the last operation or audio input, the GR-S will enter sleep mode (power conservation mode). From sleep mode, you can press the pedal to return to normal mode.

- \* Battery power continues to be consumed even in sleep mode. To prevent battery consumption, turn off the power by removing the plug from the OUTPUT L jack.

### Disabling sleep mode

1. While holding down the left pedal, turn on the power (insert a plug into the OUTPUT L jack).
2. Continue holding down the left pedal for five seconds.  
The POWER indicator will blink.
3. Release the left pedal; the GR-S will resume normal operation.

### Enabling sleep mode (default setting)

1. While holding down the left pedal, turn on the power (insert a plug into the OUTPUT L jack).
2. Within two seconds after the POWER indicator lights up, step on the left pedal two more times.

The POWER indicator will blink.

After two seconds, the GR-S will resume normal operation; sleep mode will be enabled.

## Restoring the Factory Settings (Factory Reset)

Here's how to restore the GR-S's settings to their factory-set condition.

- \* When you execute "Factory Reset," the settings you made will be lost.

1. While holding down the [WRITE] button, turn on the power (insert a plug into the OUTPUT L jack).

All MEMORY indicators (1–4) will blink.

2. Press the [WRITE] button to execute Factory Reset.

All MEMORY indicators (1–4) will blink rapidly. When Factory Reset is completed, the GR-S will return to normal operation.

- \* Never turn off the power while MEMORY indicators are blinking rapidly.

## Turning the FX On/Off

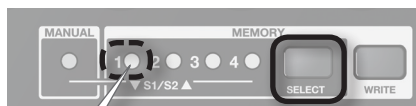
The GR-S includes spatial-type effects (FX) that provide a pleasant sound even when you're not using any other equipment.

Here's how to turn the FX on/off.

1. While holding down the right pedal, turn on the power (insert a plug into the OUTPUT L jack).

The FREEZE indicator will blink.

2. Press the [SELECT] button to turn the FX on/off.



3. Press the [WRITE] button to decide the setting.

## Adjust the Pickup Sensitivity

If you feel that the volume balance between the strings is incorrect or the sound is unnaturally distorted, check the way in which the GK pickup is attached.

### Check Is the GK-pickup correctly installed?

- After reading the instructions in the GK-pickup Owner's Manual, check the installation once more.
- On the Roland website, the "How to install the GK pickup" page provides an explanation and photos on how to attach a GK pickup. Be sure to take a look!

<http://www.roland.com/GK/>

If this does not solve the problem, you can adjust the pickup sensitivity as described below.

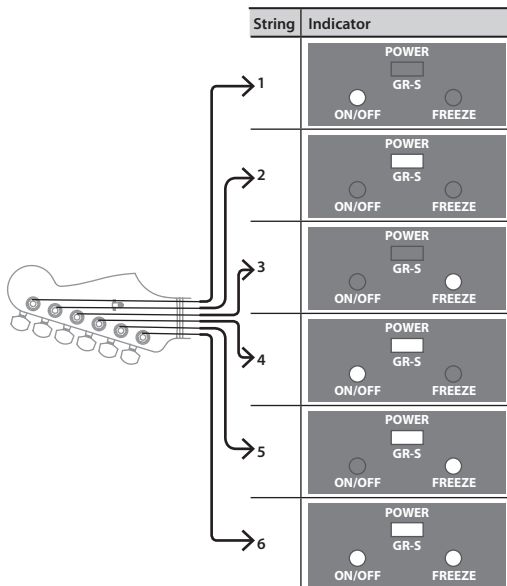
\* Normally, you should use the factory settings.

### 1. While holding down the [SELECT] button, turn on the power (insert a plug into the OUTPUT L jack).

The unit will be in pickup sensitivity adjustment mode.

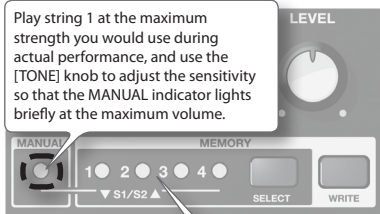
### 2. Press the [ON/OFF] pedal to select a string.

Start by selecting string 1.



### 3. Play a string, and use the [TONE] knob to adjust the Pickup Sensitivity.

Play string 1 at the maximum strength you would use during actual performance, and use the [TONE] knob to adjust the sensitivity so that the MANUAL indicator lights briefly at the maximum volume.



The MEMORY indicator shows the current sensitivity setting.

Sensitivity	Indicator
1 (low)	1 ○ 2 ○ 3 ○ 4 ○
2	1 ● 2 ○ 3 ○ 4 ○
3	1 ● 2 ● 3 ○ 4 ○
4	1 ○ 2 ● 3 ○ 4 ○
5	1 ○ 2 ○ 3 ● 4 ○
6	1 ○ 2 ○ 3 ○ 4 ●
7	1 ○ 2 ○ 3 ○ 4 ●
8 (high)	1 ○ 2 ○ 3 ○ 4 ●

\* If the sound is unnaturally distorted, lower the sensitivity.

### 4. In the same way, adjust the sensitivity for the 2nd through 6th strings as well.

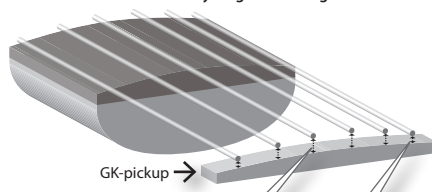
### 5. Check the volume balance of the six strings.

Play each of the strings 6–1 at normal strength; if a string sounds unusually loud, lower the sensitivity of that string to minimize any discrepancy in volume between the strings.

### 6. Press the [WRITE] button to decide the setting.

### What is Pickup Sensitivity?

Cutaway diagram of the guitar neck



If the distance between each string and the GK pickup is different, the volume will also be different. The pickup sensitivity adjustment allows you to compensate for this difference in volume.

# Troubleshooting

Problem	Check	Action
The power doesn't come on	Have the batteries run down?	Replace with fresh batteries. * The life of the supplied batteries may be limited, since its primary purpose was to enable testing.
	Is the external device connected correctly to the OUTPUT L jack?	Check the connections again. * The unit won't switch on unless there's something plugged into the OUTPUT L jack.
	Is the specified AC adaptor (PSA series; sold separately) connected correctly?	Check the connections again. Never use any AC adaptor other than the adaptor specified.
No sound/volume is low	Is the other equipment connected correctly?	Check the connections again.
	Is the volume turned down on the connected guitar amp, effects processor, or other device?	Check the settings on the connected equipment.
	Is the GK-pickup's selection switch set to "MIX"?	When set to "GUITAR" or "SYNTH," the necessary signals may not be input to the unit, which may prevent sounds from being produced.
	Is the GK-pickup's GK Volume turned down?	Check to make sure the GK-pickup's GK Volume is not lowered.
	Is the GK-pickup correctly installed and connected?	After reading the instructions in the GK-pickup Owner's Manual, check the installation once more.
Noise is produced	Is the external device connected to the MIX/ GUITAR INPUT jack working properly?	The sound of the external device connected to the MIX/ GUITAR INPUT jacks will be mixed with the sound of the GR-S and output to the OUTPUT jacks. This means that noise from the external device may be output.
	Is the GK cable securely connected?	When connecting the GK cable, insert the connector completely, until it is locked.
Effect not applied to the MIX/ GUITAR INPUT jacks	If a GK-compatible guitar is connected to the GK IN connector, no effect will be applied to the MIX/ GUITAR INPUT jacks.	If you want to apply an effect to the guitar that's connected to the GUITAR INPUT jacks, don't connect anything to the GK IN connector.

# Specifications

## Roland GR-S: V-Guitar Space

Nominal Input Level	MIX INPUT: -10 dBu
	GUITAR INPUT: -20 dBu
Input Impedance	MIX INPUT: 1 M $\Omega$
	GUITAR INPUT: 1 M $\Omega$
Nominal Output Level	OUTPUT: -20 dBu
	GUITAR OUTPUT: -20 dBu
Output Impedance	OUTPUT: 2 k $\Omega$
	GUITAR OUTPUT: 2 k $\Omega$
Recommended Load Impedance	10 k $\Omega$ or greater
Controls	ON/OFF pedal
	FREEZE pedal
	TYPE buttons
	COLOR knob
	TONE knob
	LEVEL knob
	SELECT button
	WRITE button
	OUTPUT SELECT switch
Indicators	POWER indicator (serves also as battery check indicator)
	ON/OFF indicator
	FREEZE indicator
Connectors	MIX/GUITAR INPUT (R, L/MONO) jacks
	GK IN connector
	GUITAR OUTPUT jack
	OUTPUT (R, L/MONO) jacks
	DC IN jack
Memory	4
Effect Type	CRYSTAL, RICH MODULATION, SLOW PAD, BRILLIANT CLEAN
Power Supply	Alkaline battery (AA, LR6) or Carbon-zinc battery (AA, R6) x 6
	AC Adaptor (PSA-series: optional)
Current Draw	200 mA (9 V, when used with GK-3)
Expected Battery Life Under Continuous Use	Alkaline battery: Approx. 7 hours
	Carbon-zinc battery: Approx. 2 hours
	* These figures will vary depending on the actual conditions of use.

Dimensions	173 (W) x 158 (D) x 57 (H) mm
	6-13/16 (W) x 6-1/4 (D) x 2-1/4 (H) inches
Weight	1.2 kg
	2 lbs 11 oz (including batteries)
Accessories	Owner's Manual
	Leaflet (USING THE UNIT SAFELY, IMPORTANT NOTES, and Information)
	Alkaline Battery (AA, LR6) x 6
Options (sold separately)	AC Adaptor: BOSS PSA-series
	Divided Pickup: GK-3 (for guitar)
	V-Guitar: GC-1 GK-Ready Stratocaster®
	GK Cable: GK-C-10 (10 m), GK-C-5 (5 m)
	Unit Selector: US-20

\* 0 dBu=0.775 Vrms

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

