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Before using this unit, carefully read "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (leaflet "USING THE UNIT SAFELY" and Owner's Manual (p. 12)). After reading, keep the document(s) where it will be available for immediate reference.

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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 GT-1B.



PDF Manual (download from the Web)

- **Parameter Guide**  
This explains all parameters of the GT-1B.
- **Sound List**  
This is a list of the sounds built into the GT-1B.



To obtain the PDF manual

1. Enter the following URL in your computer.  
<http://www.boss.info/manuals/>
- ▼
2. Choose "GT-1B" as the product name.

# Getting Ready

## Connecting the Equipment

**1** Turn down the volume of the connected device

**4** Turn on the power of the amp(s)

**2** Connect your equipment to the OUTPUT jack(s)

**3** Connect your bass

**PHONES jack**  
You can connect a set of headphones here.

**OUTPUT jack**  
Connect these to your bass amp or mixer. If using a mono connection, use only the L/MONO jack.

**USB COMPUTER port**  
Use a USB cable to connect to a computer and exchange audio data between the GT-1B and the computer (p. 8).

**INPUT jack**  
Connect your bass. The INPUT jack doubles as the power switch. Power to the unit is turned on when you plug into the INPUT jack; the power is turned off when the cable is unplugged.

**AUX IN jack**  
Use a stereo-mini plug to connect your audio player. Use your audio player's volume control to control the volume of OUTPUT jacks and PHONES jack.

**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.

**CTL2, 3/EXP2 jacks (Connecting to External Pedals)**  
You can control various parameters by connecting an expression pedal (EV-30, Roland EV-5; sold separately) or a footswitch (FS-5U, FS-6, FS-7; sold separately). For details on the settings, refer to "Settings for CTL1, EXP1, and an External Pedal" (p. 9).

**BOSS GT-1B**

POWER ON

INPUT AUX IN PHONES OUTPUT R L/MONO CTL2,3/EXP2 USB COMPUTER DC IN

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

**\* 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.**

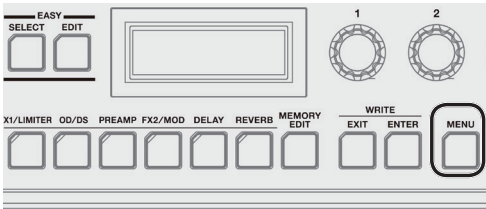
## Installing the Batteries

Install four alkaline batteries (AA, LR6) in the battery compartment located on the bottom of the unit.

- \* When turning the unit over, be careful so as to protect the buttons and knobs from damage. Also, handle the unit carefully; do not drop it.
- \* If you handle batteries improperly, you risk explosion and fluid leakage. Make sure that you carefully observe all of the items related to batteries that are listed in "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (separate sheet "USING THE UNIT SAFELY" and Owner's manual (p. 12)).
- \* We recommend that you keep batteries installed in the unit even though you'll be powering it with the AC adaptor. That way, you'll be able to continue a performance even if the cord of the AC adaptor gets accidentally disconnected from the unit.
- \* To prevent malfunctions or accidents, install or replace the batteries before connecting the unit to other equipment.
- \* "BATTERY LOW" will appear on the display if the batteries are low. Replace them with new ones.

# Specify the Type of Amplifier You Have Connected

1. Press the [MENU] button.



2. Use the [1] knob to select “OUTPUT,” and then press the [ENTER] button.



3. Use the [3] knob to select the type of amp.



| Value            | Explanation                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------------------|
| LINE/PHONES      | Choose this if you're using headphones, or if the GT-1B is connected to monitor speakers, mixer, or digital recorder. |
| AMP NO TWEETER   | Use this setting when connecting to a bass amp that has no tweeter. The high-frequency range is adjusted.             |
| AMP WITH TWEETER | Use this setting when connecting to a tweeter-equipped bass amp.                                                      |

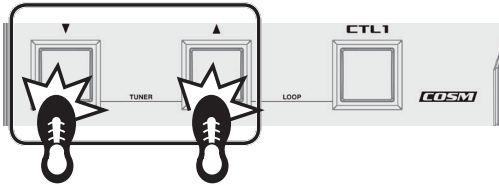
4. Press the [EXIT] button a number of times to return to the play screen (p. 4).

### MEMO

In the play screen (p. 4), you can adjust the output level of the entire GT-1B by turning the [3] knob.

# Tuning the Bass (TUNER)

1. Press the [▲], [▼] switches simultaneously.

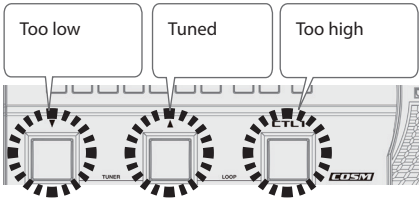


2. Play an open string, and tune it so that only the center indicator in the screen is lit.



### MEMO

You can also tune while watching the [▲], [▼], and [CTL1] switches.



3. When you finish tuning, press once again the [▲], [▼] switches simultaneously.

## Setting the standard pitch

In Tuner mode, you can turn the [1] knob to change the standard pitch of the tuner.

| Pitch                        |
|------------------------------|
| 435–445 Hz (default: 440 Hz) |

## Output setting

In the tuner screen, you can also change the output setting for when the tuner is in use by turning [3] knob

| OUTPUT | Explanation                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------|
| MUTE   | Sound will not be output while tuning.                                                                               |
| BYPASS | While tuning, the sound of the bass being input to the GT-1B will be output without change. All effects will be off. |
| THRU   | Allows you to tune while hearing the current effect sound.                                                           |

English

日本語

Deutsch

Français

Italiano

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Português

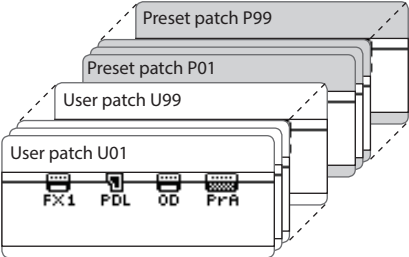
Nederlands

# Playing

Now that you're finished with the preparations, you can get started playing the GT-1B.

## Selecting a Patch

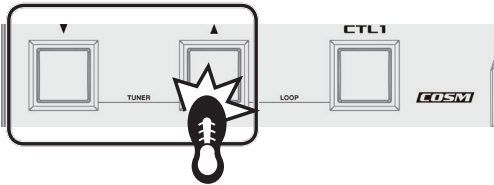
The GT-1B contains numerous effects. A combination of these effects and their settings is called a "patch."



Built in to its memory, the GT-1B has 99 (starting from U01) user patches that can be overwritten, and 99 preset patches (starting from P01) that cannot be overwritten.

## Selecting by Patch Number

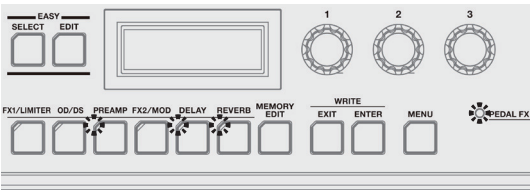
1. Press [▲], [▼] switches to switch patches.



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



When you select a patch, the buttons or PEDAL FX indicator that are turned on for that patch are lit.



### MEMO

You can't switch patches unless you're in the Play screen (p. 4). Press the [EXIT] button to return to the Play screen, and then switch patches.

## Choose a Patch Based on a Category (EASY SELECT)

1. With the play screen displayed, press the [EASY SELECT] button



EASY SELECT screen is displayed.



2. Use the [1] knob to choose the search method (SORT TYPE).



| Value | Explanation                   |
|-------|-------------------------------|
| GENRE | Search by the patch category  |
| DRIVE | Search by the distortion type |

3. Use the [2] knob to choose the patch category or the distortion type.



or



4. Use the [3] knob to choose a patch from the list on the display.



## Patch number display

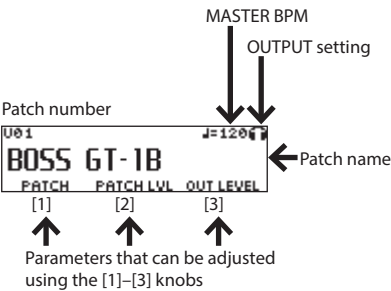
The display shows the currently selected patch number and the patch name.



## About the Play Screen

The screen that appears after you turn on the power is called the "Play screen."

### Icons in the display



| Icon           | Explanation                                                              |
|----------------|--------------------------------------------------------------------------|
| J=120          | Displays the MASTER BPM.                                                 |
| Headphone icon | This is displayed when OUTPUT is set to anything other than LINE/PHONES. |
| Headphone icon | This is displayed when OUTPUT is set to LINE/PHONES.                     |

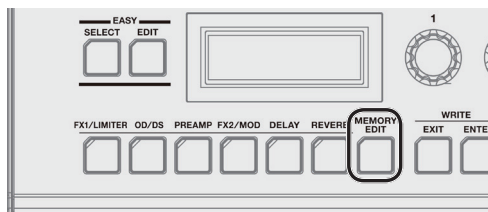
\* For details about MASTER BPM, refer to "Parameter Guide" (PDF file).

# Editing: Effects

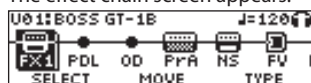
## Basic Procedure for Effect Editing

You can edit an effect by selecting it in the screen that shows the placement of effects (the effect chain screen). It's also possible to edit the settings of effects and controllers that are not represented by panel buttons.

### 1. Press the [MEMORY EDIT] button.

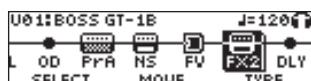


The effect chain screen appears.



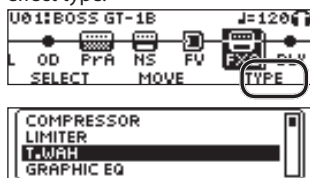
\* You can use the button of each effect to turn that effect on/off. Effects that are turned on are indicated with icons. Effects that are turned off are indicated with "•."

### 2. Use the [1] knob to choose the effect you're going to edit.

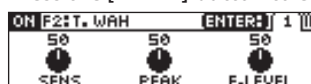


#### MEMO

If you've selected an effect that lets you choose the type, such as FX1 or FX2, use the [3] knob to choose the effect type.

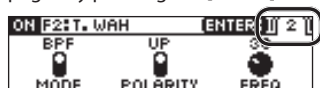


### 3. Press the [ENTER] button to enter the EDIT screen.



### 4. Use the [1]–[3] knobs to edit the value of the parameters shown in the screen.

When tabs are displayed on the screen, you can switch pages by pressing the [ENTER] button.



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

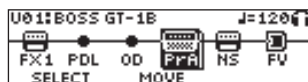
## Changing the Effect Connection Order

Here's how to move the position of a selected effect in the effect chain.

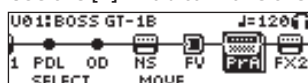
### 1. Press the [MEMORY EDIT] button.

The effect chain screen appears.

### 2. Use the [1] knob to select the effect that you want to move.



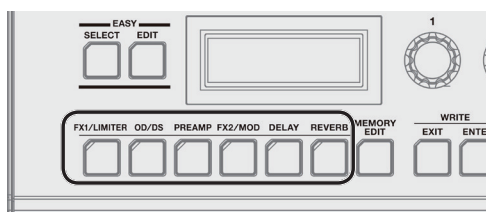
### 3. Use the [2] knob to move the selected effect.



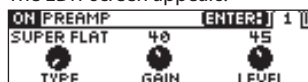
## Editing from the Play Screen

You can also edit an effect from the Play Screen (p. 4).

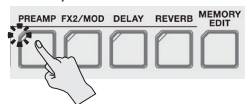
### 1. Long press the button of the effect that you want to edit.



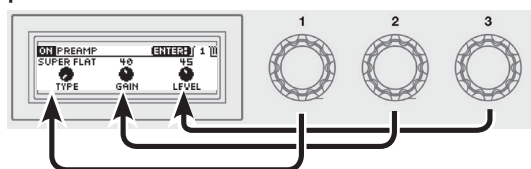
The EDIT screen appears.



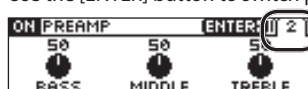
\* With the edit screen displayed, pressing the effect button again turns that effect on/off. When an effect is on, the button is lit.



### 2. Use the [1]–[3] knobs to edit the value of the parameters shown in the screen.



Use the [ENTER] button to switch pages of the edit screen.



### 3. Press the [EXIT] button to return to the play screen.

English

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Italiano

Español

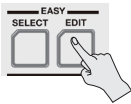
Português

Nederlands

## EASY EDIT

You can use EASY EDIT to change the type of distortion (TONE) for the current sound, add or modify a modulation-type effect (VIBES), or change the reverberation (ECHO).

1. With the play screen displayed, press the [EASY EDIT] button



The EASY EDIT screen appears.



2. Use the [1]–[3] knobs to adjust “TONE,” “VIBES,” and “ECHO” to your taste.

With the EASY EDIT screen displayed, you can press the [ENTER] button to make the following detailed settings.

## Saving a Patch

When you want to save a patch you have created, save it as a user patch by following the procedure below. If you do not save the patch, the edited settings will be lost when you turn off the power or switch to another patch.

1. Press the [EXIT] button and [ENTER] button simultaneously.

The WRITE UTILITY screen appears.

2. Choose “WRITE” (PATCH RIGHT) with the [1] knob, and press the [ENTER] button.

3. Choose the patch write destination (U01–U99) with the [1] knob.

4. Press the [ENTER] button.

Here you can edit the name.

| Controller | Operation                      |
|------------|--------------------------------|
| Knob [1]   | Changes the character          |
| Knob [2]   | Moves the cursor               |
| Knob [3]   | Selects the type of characters |

5. Press the [ENTER] button.

Here you can specify the category of the patch.  
Use the [1] knob to select the category.

6. Press the [ENTER] button once again.

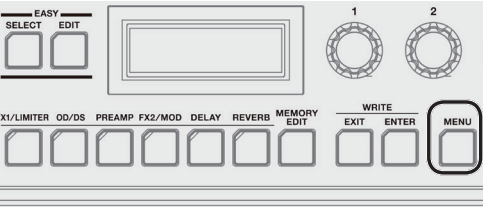
Once the patch has been saved, you are returned to the Play screen.

Basic MENU Operations

Here you can make settings that are common to the entire GT-1B (System parameters). Here you can make settings for output, USB, as well as assign the functions of the [1]–[3] knobs, etc.

For details on the parameter, refer to the “GT-1B Parameter Guide” (PDF file).

1. Press the [MENU] button.

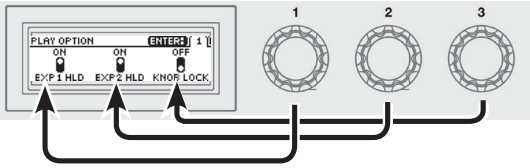


2. Use the [1] knob to choose the item that you want to edit.

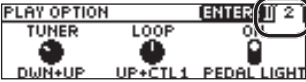


3. Press the [ENTER] button.

4. Use the [1]–[3] knobs to edit the value of the parameters shown in the screen.



Use the [ENTER] button to switch pages of the edit screen.



5. Press the [EXIT] button to return to the play screen.

In this manual, the order of operations is written as follows.

<Example>  
Press the [MENU] button.  
Rotate the [1] knob and choose “USB,” and then press the [ENTER] button.

Choose [Menu] → “USB.”

Assigning Favorite Parameters to [1]–[3] Knobs

You can assign the parameters that are controlled by parameter knobs [1]–[3] when the Play Screen (p. 4) is displayed.

1. Choose [MENU] → “KNOB.”



2. Use the [1]–[3] knobs to specify the parameters to be controlled by each knob.



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

Adjusting the Contrast (Brightness) of the Display

You can adjust the brightness of the display.

1. Choose [MENU] → “DISPLAY.”

2. Adjust the value with the [1] knob.

Restoring the Factory Default Settings (Factory Reset)

Restoring the GT-1B'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 GT-1B 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. Choose [MENU] → “F. RESET” (FACTORY RESET).  
2. Choose the type of settings to be restored to the factory default settings with knobs [1] and [3].

| Knob | Parameter | Value   | Explanation                        |
|------|-----------|---------|------------------------------------|
| [1]  | FROM      | SYSTEM  | System parameter settings          |
| [3]  | TO        | U01–U99 | Settings for Patch Numbers U01–U99 |

3. Press the [ENTER] button.

If you decide not to execute the factory reset, select “CANCEL” and press the [ENTER] button.

4. To execute the factory reset, use the [1] knob to select “EXECUTE,” and press the [ENTER] button.  
Once the Factory Reset is complete, you are returned to the Play screen.

# Connecting to a Computer

By connecting the GT-1B to a computer via USB, you can do the following.

- Transmit and receive digital audio signals between the computer and the GT-1B
- Edit and manage patches, and display the “GT-1B Parameter Guide” (PDF file) on a computer using the dedicated software
- Download patches from our dedicated BOSS TONE CENTRAL (<http://bosstonecentral.com/>) website

## Installing the USB Driver

**You must install the USB driver before connecting to a computer.**

Please download the USB driver from the website shown below.

Install this special driver before making a USB connection. For further details, refer to the Readme.htm file that comes with the download.

➔ <http://www.boss.info/support/>

The program you need to use, and the steps you need to take to install the USB driver will differ depending on your computer setup, so please carefully read and refer to the Readme.htm file that comes with the download.

## Making use of the GT-1B’s dedicated software

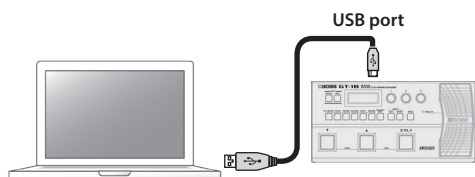
You can easily download dedicated software from our BOSS TONE CENTRAL (<http://bosstonecentral.com/>) website. For details on how to use the software, refer to the Readme.htm file that comes with the download.

Using the dedicated software allows you to do the following:

- Easily download patches from our BOSS TONE CENTRAL website.
- Edit patch settings
- Name patches
- Organize patches in order and switch them around
- Back up patches and system settings, and return to the backed up settings
- Display the “GT-1B Parameter Guide” (PDF file) on your computer

## Connecting to a Computer

1. Using a commercially available USB 2.0 cable, connect the USB port of your computer with the USB port of the GT-1B.



## Using the GT-1B as an Audio Interface

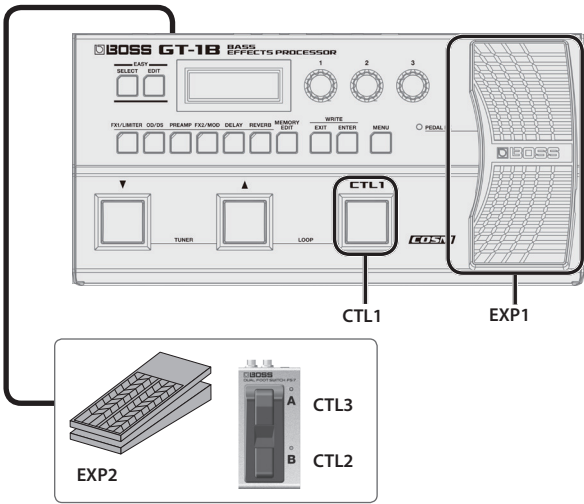
You can record the sound of the GT-1B on your computer, or have sound from your computer be output from the OUTPUT jacks.

- \* For details of the audio signal flow when connected via USB and instructions on how to make settings, refer to “GT-1B Parameter Guide” (PDF file).
- \* Refer to the instruction manual for the software you are using to learn how to switch the input source of the software.



# Settings for CTL1, EXP1, and an External Pedal

You can assign various functions to the top panel [CTL1] switch, expression pedal (EXP1) as well as footswitches or an expression pedal connected to the rear panel CTL2, 3/ EXP2 jack.

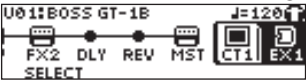


## Assigning a Function

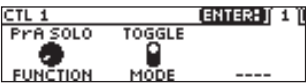
1. Press the [MEMORY EDIT] button.
2. Use the [1] knob to select the controller.

| Name | Icon | Explanation                                                    |
|------|------|----------------------------------------------------------------|
| CTL1 |      | Top panel [CTL1] switch                                        |
| EXP1 |      | Top panel expression pedal                                     |
| CTL2 |      | Footswitch connected to the rear panel CTL2, 3/EXP2 jack       |
| CTL3 |      | Footswitch connected to the rear panel CTL2, 3/EXP2 jack       |
| EXP2 |      | Expression pedal connected to the rear panel CTL2, 3/EXP2 jack |

"CT1"-"EX2" are located to the right of the effect chain.



3. Press the [ENTER] button to enter the EDIT screen.



4. Use the [1]-[3] knobs to edit the value of the parameters shown in the screen.

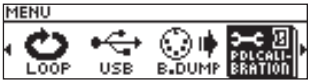
Use the [ENTER] button to switch pages of the edit screen.

For details on the parameter, refer to the "GT-1B Parameter Guide" (PDF file).

## Adjusting the Expression Pedal (Pedal Calibration)

Although the GT-1B's expression pedal has been set for optimum operation at the factory, extended use and the operating environment can result in the pedal going out of adjustment. If you encounter problems such as being unable to fully cut off the sound with the volume pedal or being unable to switch the PEDAL FX, you can use the following procedure to readjust the pedal.

1. Choose [MENU] → "PDL CALIBRATION"



The PEDAL CALIBRATION screen appears.



2. Press the heel end of the pedal, and press the [ENTER] button.

The screen will indicate "OK," and then a screen like the following will appear.



3. Press the toe end of the pedal, and press the [ENTER] button.

The screen will indicate "OK," and then a screen like the following will appear.



4. Strongly press the toe end of the pedal.

Verify that the EXP PEDAL SW indicator lights when you strongly press the toe end.

\* If you want to change the lighting sensitivity of the PEDAL FX indicator, repeat step 4 while you adjust the THRESHOLD value with knob [3].

5. Press the [ENTER] button.

The screen will indicate "COMPLETE!"



English

日本語

Deutsch

Français

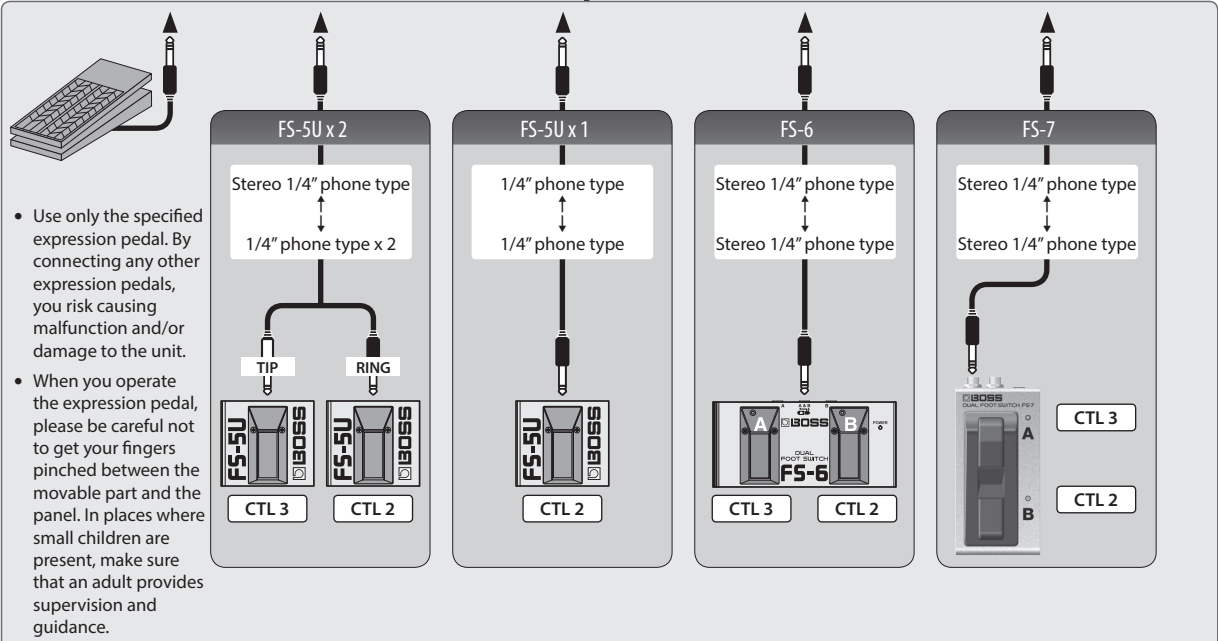
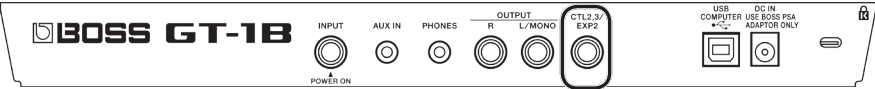
Italiano

Español

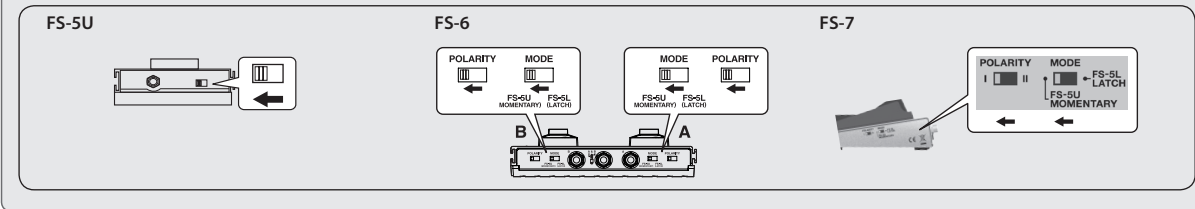
Português

Nederlands

# Connecting External Pedals

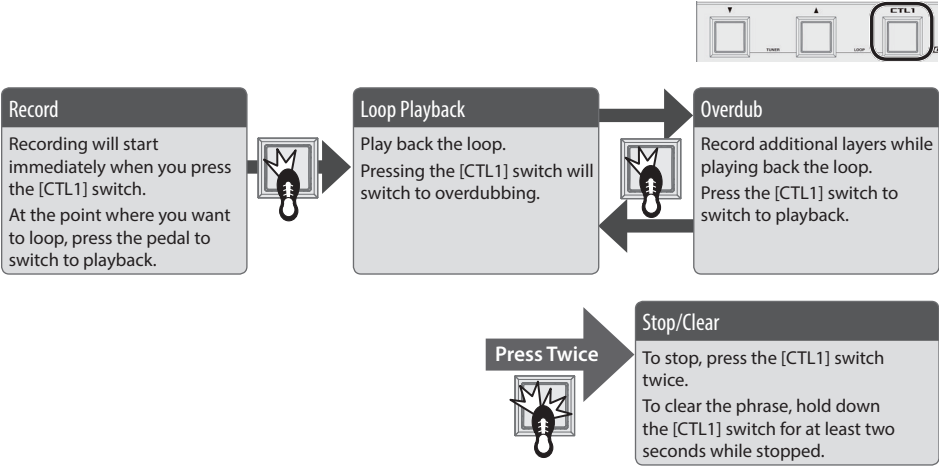


MODE/POLARITY switch



# Looper

You can record up to 32 seconds (MONO) of a performance and play back the recorded section over and over. You can also layer additional performances with the recording as it plays back (overdubbing). This lets you create real-time backing performances on the fly. Press the [▲] switch and [CTL1] switch simultaneously to turn on the Looper.



\* The settings for CTL1 saved in patches will be ignored while the Looper is on.

## Loop Playback Level Setting

If you set the playback level at 100 (default value), the volume of the performance and that of the loop playback will be identical. If you set the playback level to a value lower than 100, the volume of the playback will be lower than that of the performance. As a result, the sound of the performance won't get buried by the loop playback sound, even if you record a multiple number of times.

1. Choose [MENU] → "LOOP."
2. Adjust the value of "LEVEL" with the [1] knob.

## [CTL1] Switch Color

| Color        | Status                  |
|--------------|-------------------------|
| Red          | Recording/Overdub       |
| Blue         | Playback                |
| Blue (blink) | Stopped (phrase exists) |
| Unlit        | Stopped (no phrase)     |

### MEMO

- \* The recording time is 32 seconds (MONO).
- \* The recorded content will be lost when you turn off the Looper or turn off the power.

# Error Message List

| Display                 | Problem                                                                                                                                                                           | Action                                                                                                                                                                                                                                                            |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USB OFFLINE!            | Transmissions from the connected device have been interrupted. This message also appears when the power to the connected device has been turned off. It does not indicate damage. | Check to make sure no cable is disconnected and that there are no shorts.                                                                                                                                                                                         |
| DATA WRITE ERROR!       | Writing to the memory for storage of user data failed.                                                                                                                            | The unit may be damaged. Consult the nearest Roland service center.                                                                                                                                                                                               |
| OUT OF RANGE! SET AGAIN | The [EXP] pedal cannot be calibrated.                                                                                                                                             | Confirm the calibration by carrying out the procedure once more (p. 9). If the message continues to appear even after the calibration is correctly performed, it may indicate damage or malfunction. Consult your Roland dealer or contact Roland Service Center. |
| KNOB IS LOCKED!         | The knobs are locked.                                                                                                                                                             | Turn "KNOB LOCK" off. For details, refer to the "GT-1B Parameter Guide" (PDF file).                                                                                                                                                                               |
| BATTERY LOW!            | Batteries are low.                                                                                                                                                                | Replace them with new ones.                                                                                                                                                                                                                                       |

# Main Specifications

## BOSS GT-1B: Bass Effects Processor

|                            |                                                                                                                                                                                           |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sampling Frequency         | 44.1 kHz                                                                                                                                                                                  |
| AD Conversion              | 24 bits + AF method<br>AF method (Adaptive Focus method) This is a proprietary method from Roland & BOSS that vastly improves the signal-to-noise (SN) ratio of the AD and DA converters. |
| DA Conversion              | 24 bits                                                                                                                                                                                   |
| Patches                    | 99 (User) + 99 (Preset)                                                                                                                                                                   |
| Phrase Loop                | 32 sec.                                                                                                                                                                                   |
| Nominal Input Level        | INPUT: -10 dBu<br>AUX IN: -20 dBu                                                                                                                                                         |
| Maximum Input Level        | INPUT: +7 dBu<br>AUX IN: 0 dBu                                                                                                                                                            |
| Input Impedance            | INPUT: 1 M $\Omega$<br>AUX IN: 27 k $\Omega$                                                                                                                                              |
| Nominal Output Level       | OUTPUT L/MONO, R: -10dBu<br>PHONES: -10 dBu                                                                                                                                               |
| Output Impedance           | OUTPUT L/MONO, R: 1 k $\Omega$<br>PHONES: 44 $\Omega$                                                                                                                                     |
| Recommended Load Impedance | OUTPUT L/MONO, R: 10 k $\Omega$ or greater<br>PHONES: 44 k $\Omega$ or greater                                                                                                            |
| Display                    | Graphic LCD (132 x 32 dots, backlit LCD)                                                                                                                                                  |

|                                            |                                                                                                                  |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Connectors                                 | INPUT jack: 1/4-inch phone type                                                                                  |
|                                            | OUTPUT (L/Mono, R) jacks: 1/4-inch phone type                                                                    |
|                                            | CTL2, 3/EXP2 jack: 1/4-inch TRS phone type                                                                       |
|                                            | PHONES jack: Stereo miniature phone type                                                                         |
|                                            | AUX IN jack: Stereo miniature phone type                                                                         |
|                                            | USB  port: USB type B           |
| Power Supply                               | DC IN jack                                                                                                       |
|                                            | Alkaline battery (AA, LR6) x 4                                                                                   |
| Current Draw                               | AC adaptor (sold separately)                                                                                     |
| Expected battery life under continuous use | 200 mA                                                                                                           |
| Dimensions                                 | Alkaline: Approx. 7 hours<br>(These figures will vary depending on the actual conditions of use.)                |
|                                            | 305 (W) x 152 (D) x 56 (H) mm                                                                                    |
|                                            | 12-1/16 (W) x 6 (D) x 2-1/4 (H) inches                                                                           |
|                                            | Maximum height:<br>305 (W) x 152 (D) x 74 (H) mm                                                                 |
| Weight                                     | 12-1/16 (W) x 6 (D) x 2-15/16 (H) inches                                                                         |
|                                            | 1.3 kg                                                                                                           |
| Accessories                                | 2 lbs 14 oz                                                                                                      |
|                                            | Owner's Manual, Leaflet "USING THE UNIT SAFELY,"<br>Alkaline battery (AA, LR6) x 4                               |
| Options (sold separately)                  | AC adaptor: PSA series, Footswitch: FS-5U, FS-5L, FS-6, FS-7, Expression Pedal: EV-30, FV-500L/500H, Roland EV-5 |

- \* 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/IMPORTANT NOTES

**CAUTION**

**Take care so as not to get fingers pinched**

When handling the following moving parts, take care so as not to get fingers, toes, etc., pinched. Whenever a child uses the unit, an adult should be on hand to provide supervision and guidance.

- Expression pedal (p. 9)



### Power Supply: Use of Batteries

- Batteries should always be installed or replaced before connecting any other devices. This way, you can prevent malfunction and damage.
  - The life of the supplied batteries may be limited, since its primary purpose was to enable testing.
  - If the batteries run extremely low, the sound may distort, but this does not indicate a malfunction. If this occurs, please replace the batteries.
- If operating this unit on batteries, please use alkaline batteries.

### Placement

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

### Repairs and Data

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

### Additional Precautions

- Any data stored within the unit can be lost as the result of equipment failure, incorrect operation, etc. To protect yourself against the irretrievable loss of data, 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.
- Use only the specified expression pedal. By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.
- Do not use connection cables that contain a built-in resistor.

### Intellectual Property Right

- It is forbidden by law to make an audio recording, video recording, copy or revision of a third party's copyrighted work (musical work, video work, broadcast, live performance, or other work), whether in whole or in part, and distribute, sell, lease, perform or broadcast it without the permission of the copyright owner.
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- Company names and product names appearing in this document are registered trademarks or trademarks of their respective owners.
- The product names mentioned in this document are registered trademarks or trademarks of their respective owners. In this manual, these names are used because it is the most practical way of describing the sounds that are simulated using COSM technology.