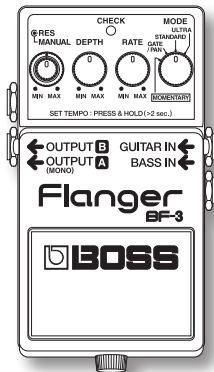


BF-3 Flanger

Owner's Manual



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

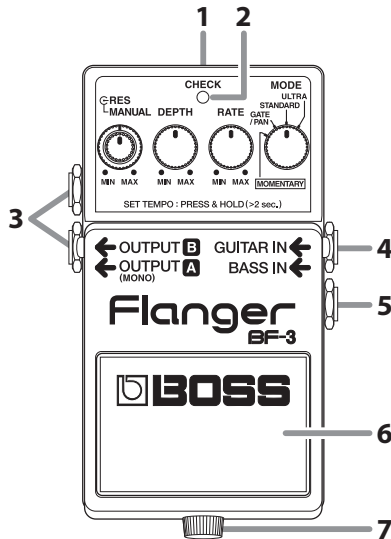
After reading, keep the document(s) where it will be available for immediate reference.

BOSS

Main Features

- Stereo output gives your sound greater breadth along with a deep effect that imparts a sense of three-dimensional rotation.
- Includes a new "ULTRA" mode for a more intense flanging effect.
- Also features a "GATE/PAN" mode. When outputting in mono, a slicer effect is added to the flanging sound, resulting in a "gate flanger" effect; and when using stereo output, you get a flanging effect that is panned three-dimensionally across the sound field.
- Includes a "MOMENTARY" mode, which allows you to apply the flanger effect exactly at the point in a phrase you want.
- Also includes a "Tap Tempo" function that lets you set the RATE to the tempo at which the pedal is pressed.

Panel Descriptions



1. DC IN jack

Accepts connection of an AC Adaptor (PSA series; sold separately). By using an AC Adaptor, you can play without being concerned about how much battery power you have left.

- * As soon as you connect the AC adaptor, the unit is turned on.
- * 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.
- * Use only the specified AC adaptor (PSA-series).
- * If the AC adaptor is connected while power is on, the power supply is drawn from the AC adaptor.

2. CHECK indicator

This indicator shows whether an effect is ON/OFF, indicates the tempo (TEMPO mode: p. 9–p. 11), and also doubles as the Battery Check indicator.

The indicator lights when an effect is ON.

- * If this indicator goes dim or no longer lights while an effect is ON or while the BF-3 is in TEMPO mode, the battery is near exhaustion and should be replaced immediately. For instructions on changing the batteries, refer to "Changing the Battery" (p. 14).
- * The CHECK indicator shows whether the effect is being applied or not, and is used to indicate other effects. It does not

indicate whether the power to the device is on or not.

3. OUTPUT A (MONO) jack, OUTPUT B jack

The output jacks are used to connect the unit to an amplifier or another effects unit. For mono use, make the connection to the OUTPUT A (MONO) jack.

4. GUITAR IN jack

This jack accepts input signals coming from a guitar, some other musical instrument, or another effects unit.

5. BASS IN jack

This jack accepts input signal coming from a bass guitar.

- * BASS IN is disabled when the GUITAR IN jack is used.
- * When running the unit on battery power, the GUITAR IN and BASS IN jacks double as power switches. Power to the unit is turned on when you plug into the GUITAR IN or BASS IN jack; the power is turned off when the cable is unplugged. Be sure to disconnect any cord plugged into the GUITAR IN or BASS IN jack when not using this effects device.

Panel Descriptions

6. Pedal switch

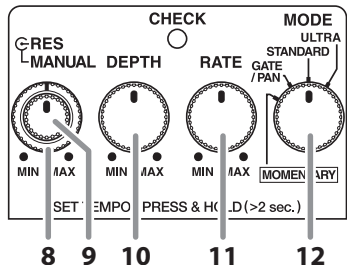
Use this switch to turn the effect on/off or to input the tempo.

- * You cannot input the tempo in **MOMENTARY** mode.

7. Thumbscrew

When this screw is loosened, the pedal will open, allowing you to change the battery.

- * For instructions on changing the batteries, refer to "Changing the Battery" (p. 14).



8. MANUAL knob

Adjusts the center frequency at which to apply the effect.
The range is raised as you turn the knob to the right (clockwise).

- * The settings range varies with the selected mode, as well as when an instrument is connected to **BASS IN**.

9. RES (Resonance) knob

Adjusts the amount of resonance (feedback). The more the knob is turned to the right, the more the flanger sound is emphasized, and the stronger the characteristic effect in the sound becomes.

10. DEPTH knob

Adjusts the sweep depth. The effect deepens as you turn the knob to the right.

- * The **MANUAL** knob has no function when this knob is turned completely clockwise.

11. RATE knob

Adjusts the rate of the flanging. The flange effect speeds up as you turn the knob to the right.

12. MODE knob

Selects the flanger effect and pedal mode.

ULTRA:

Provides a stronger flanger effect than STANDARD.

STANDARD:

Provides a normal flanger effect.

GATE / PAN:

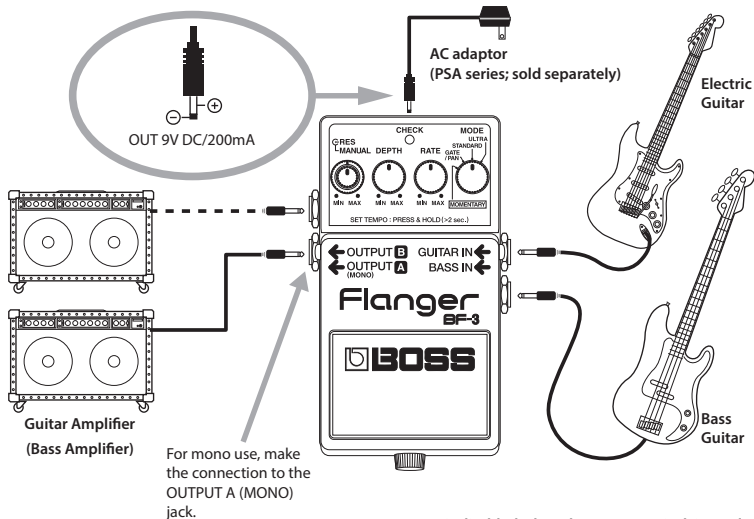
When playing in mono, this creates radical changes in the output volume. When playing in stereo, this alternately pans the output to the left and right, resulting in a flanger effect that imparts a sense of rotation or spinning.

MOMENTARY:

The flanger effect is applied only while the BF-3's pedal is depressed. The STANDARD tone is applied, and flanging starts in the low end.

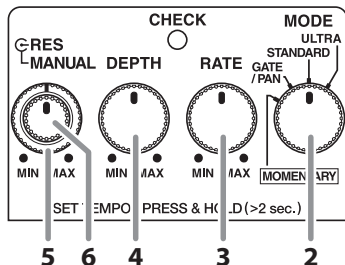
- * You cannot input the tempo in MOMENTARY mode.

Connections



- * Inserting a plug into the GUITAR IN or BASS IN Jack will automatically switch the unit on.
- * The use of an AC adaptor is recommended as the unit's power consumption is relatively high.
- * If operating this unit on batteries, please use alkaline batteries.
- * Noise may be produced if wireless communications devices, such as cell phones, are operated in the vicinity of this unit. Such noise could occur when receiving or initiating a call, or while conversing. Should you experience such problems, you should relocate such wireless devices so they are at a greater distance from this unit, or switch them off.
- * To prevent malfunction and equipment failure, always turn down the volume, and turn off all the units before making any connections.
- * 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.
- * Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.
 - When powering up: **Turn on** the power to your guitar amp **last**.
 - When powering down: **Turn off** the power to your guitar amp **first**.
- * 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.
- * When operating on battery power only, the unit's indicator will become dim when battery power gets too low. Replace the battery as soon as possible.
- * 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" (supplied on a separate sheet).

Operating the Unit



3. Set the flanging rate with the RATE knob.
4. Set the sweep depth with the DEPTH knob.
5. Set the center frequency to which the effect is applied with the MANUAL knob.
6. Turn the RES knob to set the strength of the effect.

1. When you have made the necessary connections (p. 6), depress the pedal switch to turn the effect on. (the CHECK indicator turns red.)

* When MOMENTARY mode is selected, continue pressing the pedal switch. (the effect is on only while the pedal is depressed)










2. Select the mode with the MODE knob.

* When MOMENTARY is selected, the CHECK indicator light goes off, and the effect is switched off. Hold the pedal down when using the following settings in MOMENTARY mode (the effect is on only while the pedal is depressed).

Setting the RATE by Inputting the Tempo with the Pedal Switch

When Switching to Tempo Input with the Effect ON (CHECK indicator: Red)

- * RATE cycles for use with the tempo settings can be made in the range of 0.1–18 seconds.










CHECK Indicator	Red 	Unlit 	Red/Green Blinking 	Red 
Flanger Effects	ON	OFF	ON	ON
Pedal switch		 1 Press and hold the BF-3's pedal switch for at least two seconds.	 ↔  2 Press the BF-3's pedal 3 switch in timing with the tempo.	 3 Press and hold the BF-3's pedal switch for at least two seconds.
RATE	Effect reflects knob positions		Effect synchronized to tempo	

- * If you carry out Step **3** immediately after Step **2**, Step **3** may inadvertently be interpreted as tempo input, thus changing the RATE setting. Allow a brief interval to pass before progressing from Step **2** to Step **3**.
- * If you adjust the RATE knob after completing the settings, the effect then reflects the position of the RATE knob.
- * You cannot input the tempo in MOMENTARY mode.

Setting the RATE by Inputting the Tempo with the Pedal Switch

When Switching to Tempo Input with the Effect OFF (CHECK indicator: Off)

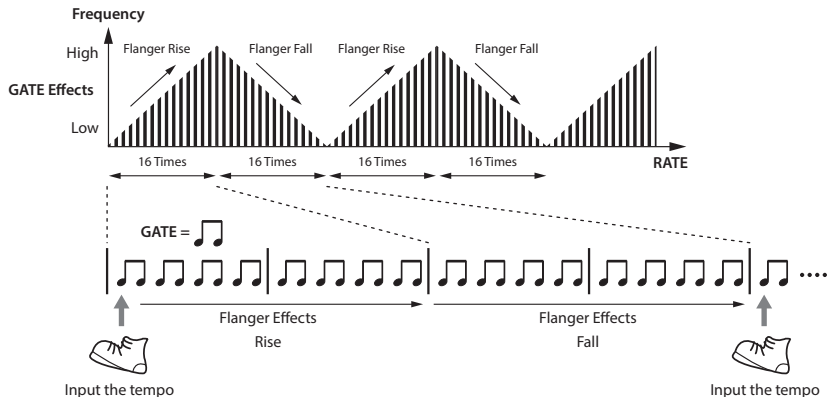
* RATE cycles for use with the tempo settings can be made in the range of 0.1–18 seconds.

CHECK Indicator	Unlit 	Red 	Red/Green Blinking 	Red 
Flanger Effects	OFF	ON	ON	ON
Pedal switch		 1 Press and hold the BF-3's pedal switch for at least two seconds.	 ↔  2 Press the BF-3's pedal 3 switch in timing with the tempo.	 3 Press and hold the BF-3's pedal switch for at least two seconds.
RATE	Effect reflects knob positions		Effect synchronized to tempo	

- * If you carry out Step **3** immediately after Step **2**, Step **3** may inadvertently be interpreted as tempo input, thus changing the RATE setting. Allow a brief interval to pass before progressing from Step **2** to Step **3**.
- * If you adjust the RATE knob after completing the settings, the effect then reflects the position of the RATE knob.
- * You cannot input the tempo in MOMENTARY mode.

Relationship Between the Flanger and Gate Effects

- * The gate effect switches on and off 32 times over the period of the flanger effect's rise and fall.
- * If you want to have the gate working on eighth notes, press the pedal switch at the beginning of the fifth measure of the song you want to have synchronized

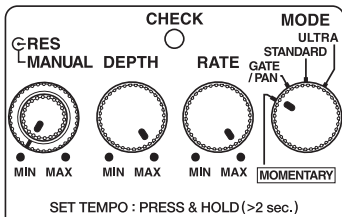


About Sleep Mode

When ten hours have elapsed since the last operation or audio input, the BF-3 will enter sleep mode (power conservation mode; only the bypass sound will be output). From sleep mode, you can press the pedal to return to normal mode.

Disabling Sleep Mode

1. Set the knobs to the positions shown below.



2. While holding down the pedal, turn on the power.

When running on battery power

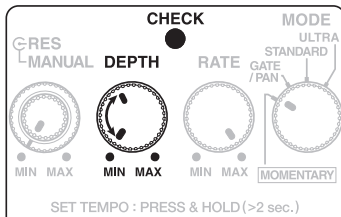
Insert the connection plug into the GUITAR IN jack or BASS IN jack.

When running on power from an AC adaptor

Insert the AC Adaptor plug into the AC Adaptor jack.
The CHECK indicator will start blinking.

3. While continuing to depress the pedal, move the DEPTH knob so it's within the range illustrated below.

The CHECK indicator will go out.

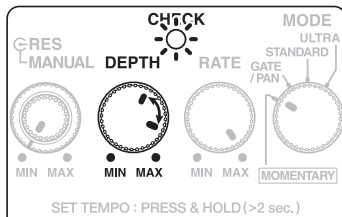


4. Release the pedal to complete the procedure.

Enabling Sleep Mode (default setting)

1. Carry out the same procedure as described in steps 1 and 2 under “Disabling Sleep Mode.”
2. While continuing to depress the pedal, move the DEPTH knob so it's within the range illustrated below.

The CHECK indicator will light.

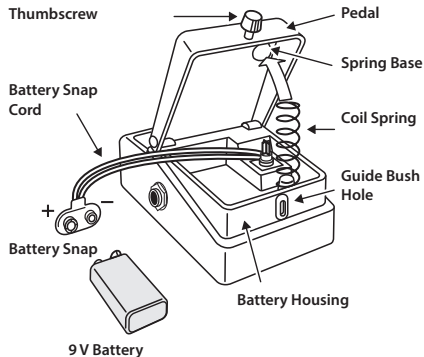


3. Release the pedal to complete the procedure.

* Battery power continues to be consumed even in sleep mode. To prevent battery consumption, turn off the power by removing the plug from the GUITAR IN jack or BASS IN jack.

Changing the Battery

* This device consumes considerable power, so use of the AC adaptor is recommended. When powering the unit with batteries, use alkaline batteries.



then open the pedal upward.

* The pedal can be opened without detaching the thumbscrew completely.

2. Remove the old battery from the battery housing, and remove the snap cord connected to it.

3. Connect the snap cord to the new battery, and place the battery inside the battery housing.

* Be sure to carefully observe the battery's polarity (+ versus -).

4. Slip the coil spring onto the spring base on the back of the pedal, and then close the pedal.

* Carefully avoid getting the snap cord caught in the pedal, coil spring, and battery housing.

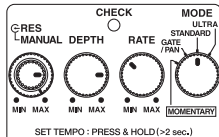
5. Finally, insert the thumbscrew into the guide bush hole and fasten it securely.

1. Hold down the pedal and loosen the thumbscrew,

Setting Samples

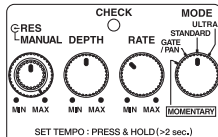
For Guitar

Standard Flanger

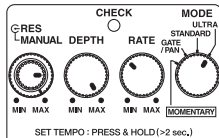


Stereo Flanger (Stereo Out)

← OUTPUT B
← OUTPUT A
(MONO)

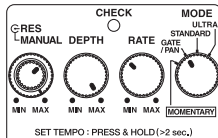


Ultra Flanger



Rotary Flanger (Stereo Out)

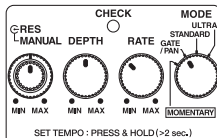
← OUTPUT B
← OUTPUT A
(MONO)



For Guitar

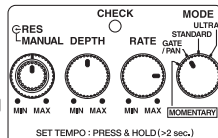
Gate Flanger

← **OUTPUT A**
(MONO)

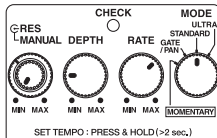


Tremolo Flanger

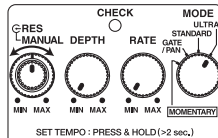
← **OUTPUT B**



Chorus Sound

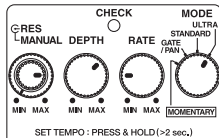


Fixed Flanging

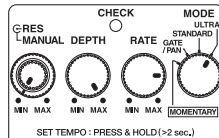


For Bass

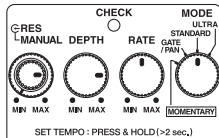
Strong Flanging



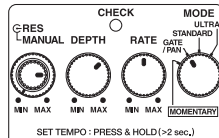
Vibrato Sound



Deep Flanger



Slicer Sound



Main Specifications

BOSS BF-3: Flanger

Nominal Input Level	-20 dBu
Input Impedance	1 M Ω
Nominal Output Level	-20 dBu
Output Impedance	1 k Ω
Recommended Load Impedance	10 k Ω or greater
Power Supply	DC9V: Dry battery 6F22 (9 V) type (carbon)/Dry battery 6LR61 (9 V) type (alkaline), AC Adaptor (PSA-series: optional)
Current Draw	40 mA (DC9V) * Expected battery life under continuous use: Carbon: 3 hours Alkaline: 10 hours These figures will vary depending on the actual conditions of use.
Dimensions	73 (W) x 129 (D) x 59 (H) mm 2-7/8 (W) x 5-1/8 (D) x 2-3/8 (H) inches
Weight	435 g / 1 lb (including Battery)

Accessories	Owner's Manual Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information") Dry battery/9 V type (6F22)
Options	AC adaptor: PSA-100

* 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.