BOSS

Amp & Cabinet

IR-2

Owner's Manual

Table of contents

Panel descriptions

Name		Function
1	DC IN jack	Accepts connection of an AC adaptor (PSA series; sold separately). * Use only the specified AC adaptor (PSA series; sold separately), and connect it to an AC outlet of the correct voltage. * 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 the effect is ON/OFF, and also shows the channel as well as the battery state (battery check). When the effect is ON, the indicator switches between green (lit) and red (lit) each time you press the pedal switch. (The indicator goes dark when the effect is OFF.) * The brightness of the CHECK indicator (LED) will dim as the battery lowers. Replace the battery when the LED is dim or does not light. For details on how to replace, refer to "Changing the battery(P.21)".
3 4	SEND jack RETURN jack	Connect an external effect unit here. This unit sends signals from the SEND jack to an external effect unit, and receives signals from an external effect unit via the RETURN jack. * When using the RETURN jack, you must change the setting (mono/stereo) to match the input signal. For details, refer to "Selecting the input signal for RETURN(P.18)".
5	OUTPUT A (MONO), OUTPUT B jacks	Connect these to your mixer, guitar amp or other audio equipment. If you're using this unit in mono, connect only the A (MONO) jack. * To maximize the performance of the IR-2, make sure that the amp type setting matches the amp you've connected. For details, refer to "Specifying the amp to connect(P.9)".
6	INPUT jack	Connect your guitar or effect unit here. Use a 1/4" phone type (TS) ↔ 1/4" phone type (TS) cable to connect to this jack. * This unit does not feature IR for bass guitar amps/cabinets, so the sound does not effectively change when you plug in a bass guitar. **Turning the power on/off** 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. * When you're not using this unit, disconnect the plug from the INPUT jack to prevent the battery from draining.

7	CH SEL jack	Connect a footswitch (FS-5U, FS-6, FS-7; sold separately) to switch between channels. When a footswitch is connected, the pedal switch only activates the bypass function. * When you connect an FS-6 or FS-7, you can only use them for momentary operations.
8	Pedal switch	Switches between channels. Hold down the switch to activate bypass, which turns the effect off. * For details, refer to "Switching between the channels(P.12)".
9	[AMBIENCE] knob	Adjusts how much ambience is applied.
10	[LEVEL] knob	Adjusts the amp's output level.
11	[GAIN] knob	Adjusts the amp gain (amount of distortion).
12	[BASS] knob	Adjusts the tonal character of the low frequency range for the amp.
13	[MIDDLE] knob	Adjusts the tonal character of the midrange frequencies for the amp.
14	[TREBLE] knob	Adjusts the tonal character of the high frequency range for the amp.
15	Type knob	Switches between the amp and speaker cabinet combinations. For details, refer to "Amp/cabinet list(P.5)".
16	PHONES jack	Connect your headphones here.
17	USB port	You can connect this port to a computer or similar device and use it as a USB audio interface, or connect the dedicated IR Loader app to load the IR files you like. * Use a commercially available USB cable that supports USB 2.0. * Do not use a USB cable that is designed only for charging. Charge-only cables cannot transmit data. Download IR Loader from the BOSS website. https://www.boss.info/global/products/ir-2/downloads/

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

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

Using the USB port or PHONES jack

The batteries tend to drain faster when the USB port or the PHONES jack is being used, so we recommend using an AC adaptor.

Turning the power on/off

Once everything is properly connected, be sure to follow the procedure below to turn on their power. If you turn on equipment in the wrong order, you risk causing malfunction or equipment failure.

* 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 turning the power on

Turn on the power to your amp or similar equipment last.

When turning the power off

Turn off the power to your amp or similar equipment first.

Amp/cabinet list

Amp

Type knob	Explanation
CLEAN	An unembellished, clean sound that minimizes the amp's idiosyncrasies, such as its trebly character and boomy low end.
TWN	This models a Fender Twin Reverb.
TWEED	This models a Fender Bassman 4 x 10" Combo.
DIAMOND	This models a VOX AC30.
CRUNCH	Crunch sound that uses MDP to deliver a crisp tone from all strings.
BRIT	This models a Marshall 1959.
HI-GAIN	High-gain sound that uses MDP to obtain high-gain sound with a wide range and a great-feeling sense of separation.
SLDN	This models a Soldano SLO-100.
BROWN	Lead sound with a distinct edge.
MODDED	Core sound that uses MDP to preserve the definition of the sound even with extreme gain.
RFIER	Models the sound of the Channel 2 MODERN Mode on the MESA/Boogie DUAL Rectifier.

Cabinet

This unit comes preset with the Celestion IR data,which lets you play with high-quality sound right away using the factory settings.

| Type knob	Speaker	Cabinet type	MIC	IR File Name
CLEAN	1 x 12" Celestion V-Type	CLOSED	ROYER R-121	V-Type 112 C R-121 Balanced Celestion.wav
TWN	2 x 12" Celestion A-Type	OPEN	SENNHEISER MD421 + ROYER R-121	A-Type 212 O Lo-Gn 421+121 Celestion.wav
TWEED	4 x 10" Celestion G10 Gold	CLOSED	ROYER R-121 + SHURE SM57	G10 Gold 410 C Lo-Gn 121+57 Celestion.wav
DIAMOND	2 x 12" Celestion Blue	OPEN	SENNHEISER MD421 + ROYER R-121	Cel Blue 212 O Hi-Gn 421+121 Celestion.wav
CRUNCH	2 x 12" Celestion G12-65	OPEN	SENNHEISER MD421 + ROYER R-121	G12-65 212 O Lo-Gn 421+121 Celestion.wav
BRIT	4 x 12" Celestion G12M-Heritage	CLOSED	SENNHEISER MD421	G12M-Heritage 412 C MD421 Balanced Celestion.wav
HI-GAIN	4 x 12" Celestion G12M Creamback	CLOSED	SENNHEISER MD421	G12M Creambk 412 C MD421 Balanced Celestion.wav
SLDN	4 x 12" Celestion Vintage 30	CLOSED	SENNHEISER MD421	V30 412 C MD421 Balanced Celestion.wav

BROWN	4 x 12" Celestion G12M-Heritage	CLOSED	SENNHEISER MD421	G12M-Heritage 412 C MD421 Balanced Celestion.wav
MODDED	4 x 12" Celestion G12K-100	CLOSED	SENNHEISER MD421	G12K-100 412 C MD421 Balanced Celestion.wav
RFIER	4 x 12" Celestion Vintage 30	CLOSED	SENNHEISER MD421	V30 412 C MD421 Balanced Celestion.wav

Using the IR-2

This unit features a high-quality preamp/cabinet IR, which gives you just the sound you want in all kinds of situations such as practicing, recording and playing live onstage.

Practicing

When you connect a pair of headphones to the PHONES jack, you can listen to your playing in headphones with the pedalboard settings applied as-is.

This unit also supports USB audio, so you can connect your computer or iOS device to play back the backing tracks.

   * A Lightning-USB Camera Adapter (commercially available) is required to connect to an iOS device.
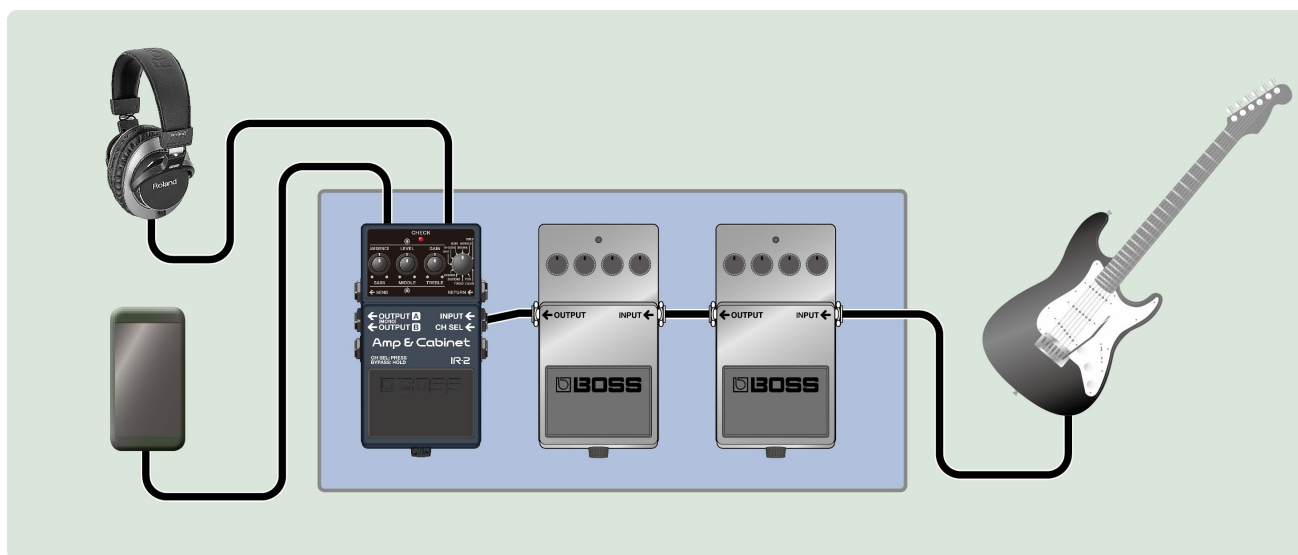

Recording

When you connect the USB port of this unit to a computer or iOS device, you can record what you play with the pedalboard settings applied as-is.

   * A Lightning-USB Camera Adapter (commercially available) is required to connect to an iOS device.
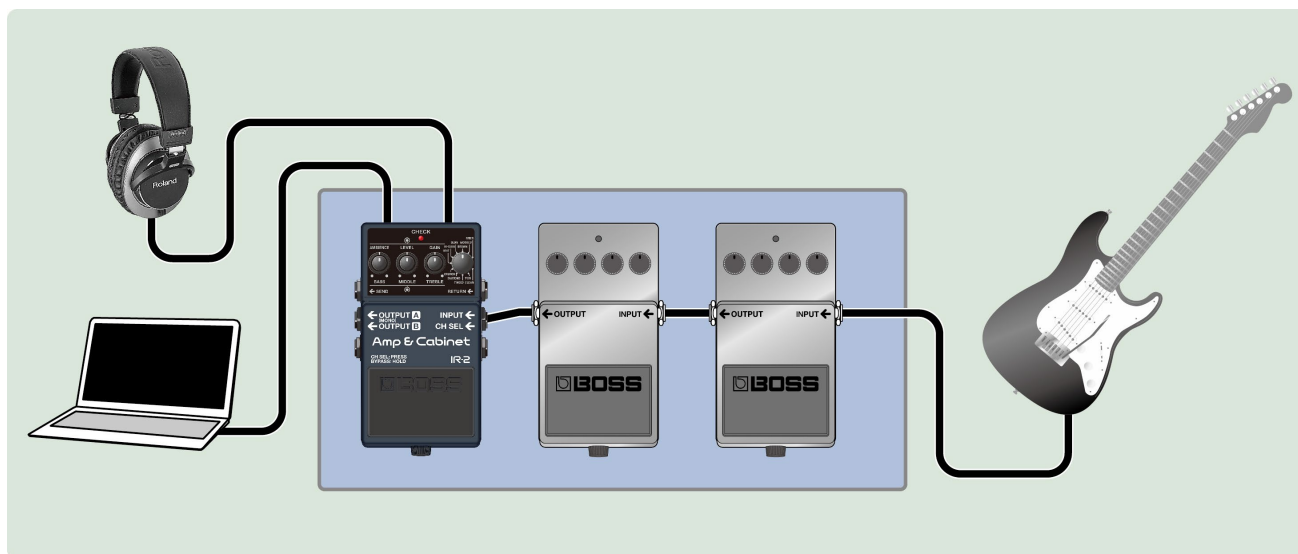
Studio and onstage

By connecting the OUTPUT A (MONO)/OUTPUT B jacks to your mixer or guitar amp, you can enjoy playing with the pedalboard settings applied as-is.
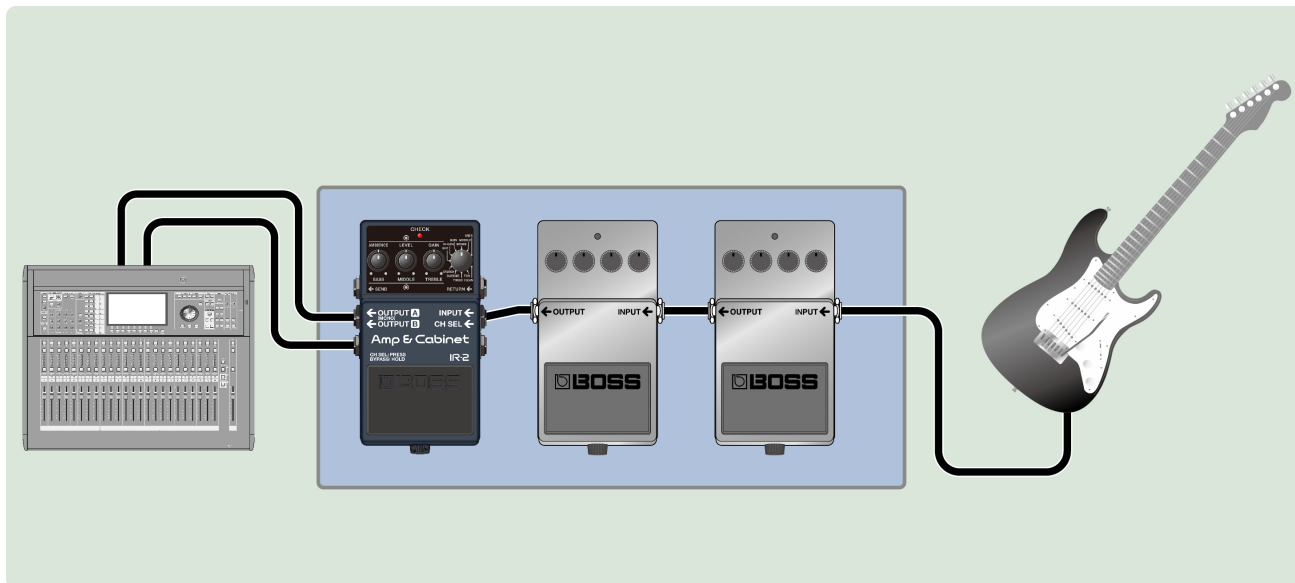
* To maximize the performance of the IR-2, make sure that the amp type setting matches the amp you've connected. For details, refer to "Specifying the amp to connect(P.9)".

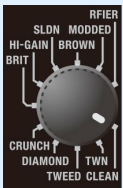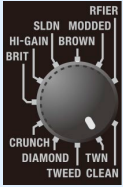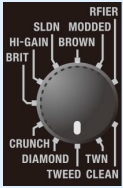# Specifying the amp to connect
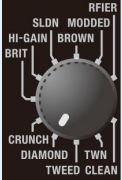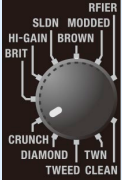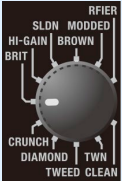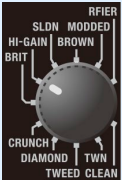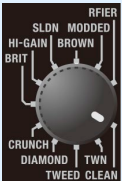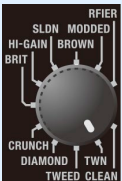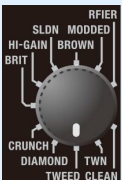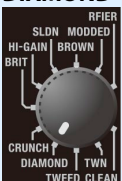
Here's how to set the type of amp that's connected to the OUTPUT (A/MONO, B) jacks. This lets you calibrate the sound to give you the optimal sound for that amp.
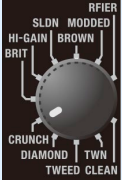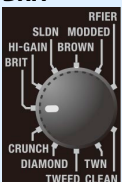
1. **Turn off the power (unplug the cable from the INPUT jack).**

2. **Set the type knob to "TWEED".**

3. **Turn the [AMBIENCE], [LEVEL] and [GAIN] knobs all the way counterclockwise, and turn the [BASS], [MIDDLE] and [TREBLE] knobs all the way clockwise.**

4. **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

   After the CHECK indicator lights up green, it cycles between blinking orange three times and staying lit.

5. **Use the type knob and the [AMBIENCE] knob to select the type of amp that's connected.**

Type knob	[AMBIENCE] knob	Explanation
CLEAN	Turn all the way counterclockwise	**LINE:** Use this setting when connecting to a PC audio interface, keyboard amp, mixer, or digital recorder. * This is the factory setting.
TWN	Turn all the way counterclockwise	**JC-120 RETURN:** Use this setting when connecting to the RETURN jack of the Roland JC-120 guitar amp.
TWEED	Turn all the way counterclockwise	**JC-120 INPUT:** Use this setting when connecting to the guitar input of a JC-120 guitar amp.

DIAMOND	Turn all the way counterclockwise	**KATANA-100 RETURN:** Use this setting when connecting to the RETURN jack of a BOSS KATANA-100 guitar amp.
CRUNCH	Turn all the way counterclockwise	**KATANA-100 INPUT:** Use this setting when connecting to the INPUT jack of a BOSS KATANA-100 guitar amp.
BRIT	Turn all the way counterclockwise	**NEXTONE Artist RETURN:** Use this setting when connecting to the RETURN jack of a BOSS NEXTONE Artist guitar amp. The sound is calibrated according to the characteristics when the POWER AMP SELECT switch is set to EL34.
HI-GAIN	Turn all the way counterclockwise	**NEXTONE Artist INPUT:** Use this setting when connecting to the INPUT jack of a BOSS NEXTONE Artist guitar amp. The sound is calibrated according to the characteristics when the POWER AMP SELECT switch is set to EL34.
CLEAN	All the way clockwise	**TUBE COMBO 112 RETURN:** Use this setting when connecting to the RETURN jack of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12-inch speaker.
TWN	All the way clockwise	**TUBE COMBO 112 INPUT:** Use this setting when connecting to the INPUT jack of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with one 12-inch speaker.
TWEED	All the way clockwise	**TUBE COMBO 212 RETURN:** Use this setting when connecting to the RETURN jack of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with two 12-inch speakers.
DIAMOND	All the way clockwise	**TUBE COMBO 212 INPUT:** Use this setting when connecting to the INPUT jack of a vacuum tube combo amp (in which the amp and speakers are in a single unit) equipped with two 12-inch speakers.

CRUNCH RFIER SLDN MODDED HI-GAIN BROWN BRIT CRUNCH DIAMOND TWN TWEED CLEAN	All the way clockwise AMBIENCE BASS	**TUBE STACK 412 RETURN:** Use the setting when connecting to the RETURN jack of a vacuum tube guitar amp stack (in which the amp and speaker are separate units). This assumes that the connected speaker cabinet is equipped with four 12-inch speakers.
BRIT RFIER SLDN MODDED HI-GAIN BROWN BRIT CRUNCH DIAMOND TWN TWEED CLEAN	All the way clockwise AMBIENCE BASS	**TUBE STACK 412 INPUT:** Use the setting when connecting to the INPUT jack of a vacuum tube guitar amp stack (in which the amp and speaker are separate units). This assumes that the connected speaker cabinet is equipped with four 12-inch speakers.

* You can't use separate settings for the OUTPUT A (MONO) and OUTPUT B jacks.

* When a pair of headphones is connected to the PHONES jack, the LINE setting is used, regardless of the type knob and [AMBIENCE] knob settings.

* When connecting to a PA system onstage, use monitor speakers or in-ear monitors to check the sound.

6.   Press the pedal switch.

The CHECK indicator rapidly blinks red, and the settings are saved.
You can play normally with this unit after around two to three seconds.

Operating the channels

Two channels are available on this unit, green and red.

You can save the changes to the sound that you make using the knobs for each channel.

This lets you set different sounds beforehand and switch between them when you play to match the situation, like the channel function on an actual amp head.

* Settings are saved for all of the knobs.

Switching between the channels

1. **Press the pedal switch to select either the green channel or the red channel.**

   The channel switches each time you press the pedal.
   When the CHECK indicator lights up green, the green channel is in use; and when the CHECK indicator lights up red, the red channel is in use.

Green channel   Red channel

* The sound for the channel you select is recalled when you switch between channels, so the current knob position may not reflect what you hear.

Using an external footswitch to switch between channels

You can use a footswitch (FS-5U, FS-6, FS-7; sold separately) connected to the CH SEL jack to switch between channels.

MEMO

When a footswitch is connected, the pedal switch only activates the bypass function.
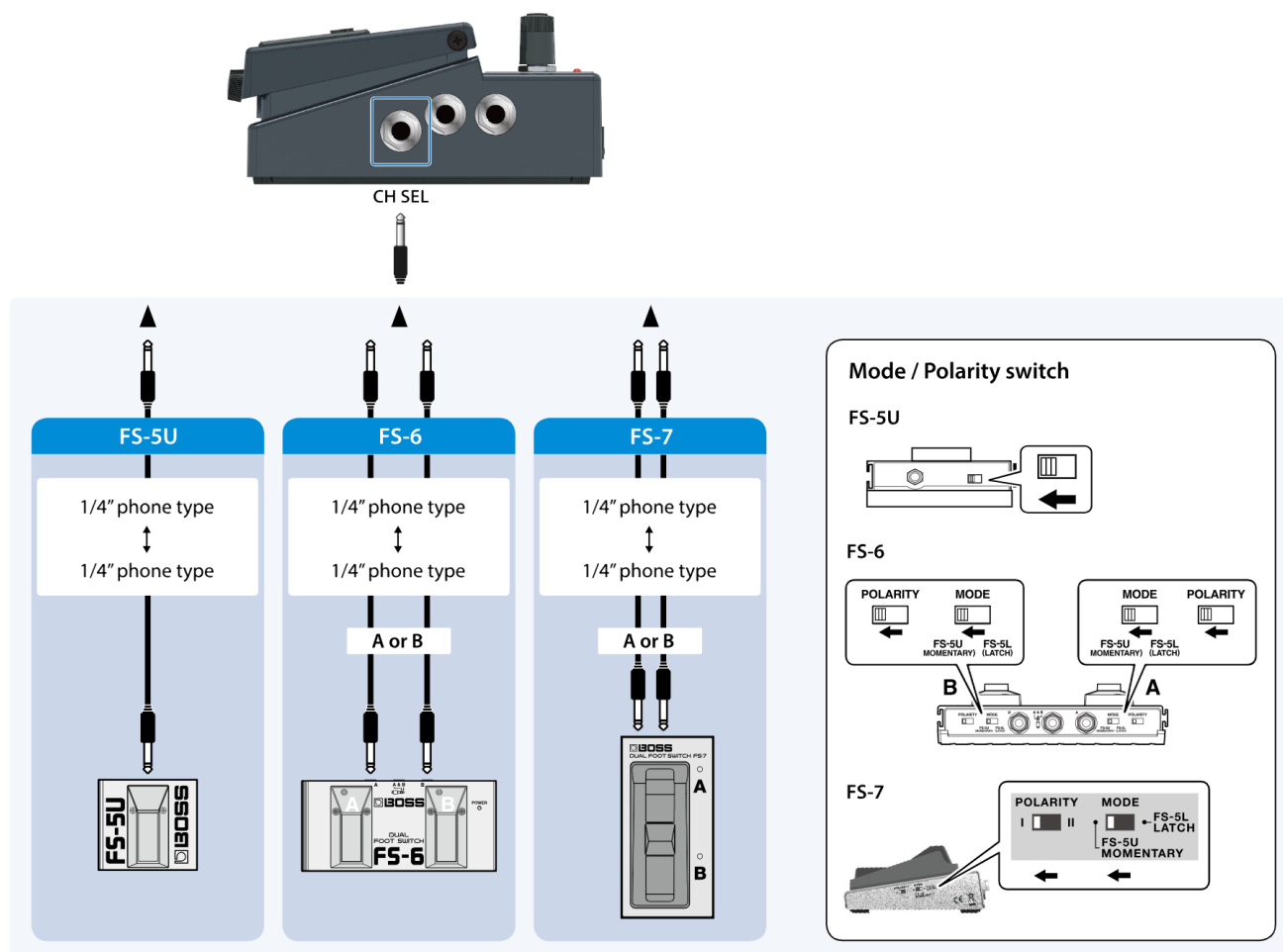
* When a stereo cable is connected to A & B (jacks) on the FS-6 or FS-7, use pedal switch B.

Editing and saving tones

When you operate a knob, the edited setting is immediately applied to the sound.

When you've edited the sound saved to a channel by operating the knobs, the sound is automatically saved to the channel that's currently selected.

NOTE

However, the settings are not saved if you switch between channels or turn the power off right after editing.
To make sure that the settings are properly saved, wait about two seconds before you switch between channels or turn off the power.

Example of editing and saving

1. **For the green channel, turn the type knob to "BRIT", and adjust the settings of the various knobs.**

This sound is automatically saved to the green channel.

2. **Press the pedal switch to select the red channel.**

This recalls the sound for the red channel.

3. **Turn the type knob to "BROWN", and adjust the settings with the various knobs.**

This sound is automatically saved to the red channel.

4. **Press the pedal switch to select the green channel.**

The "BRIT" sound that you made the settings for in step 1 is recalled.

* The sound for the channel you select is recalled when you switch between channels, so the current knob position may not reflect what you hear.

Turning the amp or cabinet on/off

It's possible to turn on only the amp or cabinet.

1.   **Turn off the power (unplug the cable from the INPUT jack).**

2.   **Set the type knob to "CLEAN".**

3.   **Turn the [AMBIENCE], [LEVEL] and [GAIN] knobs all the way counterclockwise, and turn the [BASS], [MIDDLE] and [TREBLE] knobs all the way clockwise.**

4.   **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

   After the CHECK indicator lights up green, it cycles between blinking orange once and staying lit.

5.   **Use the type knob to select the settings.**

Type knob	Explanation
CLEAN	**AMP ON / CAB ON:** Turns on both the amp and cabinet. * This is the factory setting.
TWN	**AMP ON / CAB OFF:** Turns on only the amp. Select this when you want to use an external cabinet simulator or the like.
TWEED	**AMP OFF / CAB ON:** Turns on only the cabinet. Select this when you want to use IR Loader by itself.

6.   **Press the pedal switch.**

   This saves the settings.
   Also, the CHECK indicator rapidly blinks red.
   You can play normally with this unit after around two to three seconds.

Setting the ambience type

You can change the ambience type to the setting you like.

1. **Turn off the power (unplug the cable from the INPUT jack).**

2. **Set the type knob to "TWN".**

3. **Turn the [AMBIENCE], [LEVEL] and [GAIN] knobs all the way counterclockwise, and turn the [BASS], [MIDDLE] and [TREBLE] knobs all the way clockwise.**

4. **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

    After the CHECK indicator lights up green, it cycles between blinking orange twice and staying lit.

5. **Use the type knob to select the ambience type.**

Type knob	Explanation
CLEAN	**ROOM:** Simulates the reverberations of a small room. This offers a warm reverberation sound. * This is the factory setting.
TWN	**HALL:** Simulates the reverberations in a concert hall. This offers a milder reverberation sound.
TWEED	**PLATE:** Simulates plate reverb (a reverb unit with a metallic plate that vibrates to create reverb). Provides a metallic sound with a distinct upper range.

6. **Press the pedal switch.**

    This saves the settings.
    Also, the CHECK indicator rapidly blinks red.
    You can play normally with this unit after around two to three seconds.

Selecting the input signal for RETURN

The RETURN jack on this unit is a stereo (TRS) jack.

When using the RETURN jack, change the setting (mono/ stereo) to match the input signal.

1. **Turn off the power (unplug the cable from the INPUT jack).**

2. **Set the type knob to "DIAMOND".**

3. **Turn the [AMBIENCE], [LEVEL] and [GAIN] knobs all the way counterclockwise, and turn the [BASS], [MIDDLE] and [TREBLE] knobs all the way clockwise.**

4. **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

   After the CHECK indicator lights up green, it cycles between blinking orange four times and staying lit.

5. **Use the type knob to select the input signal for RETURN.**

Type knob	Explanation
CLEAN	**MONO:** Select this when you have connected a mono (TS) plug to input a mono signal. * This is the factory setting.
TWN	**STEREO:** Select this when you have connected a stereo (TRS) plug to input a stereo signal.

6. **Press the pedal switch.**

   This saves the settings.
   Also, the CHECK indicator rapidly blinks red.
   You can play normally with this unit after around two to three seconds.

Setting the USB mode

If you are using USB audio, set the USB mode to match the device you've connected, so that this unit works correctly.

1. **Turn off the power (unplug the cable from the INPUT jack).**

2. **Set the type knob to "CRUNCH".**

3. **Turn the [AMBIENCE], [LEVEL] and [GAIN] knobs all the way counterclockwise, and turn the [BASS], [MIDDLE] and [TREBLE] knobs all the way clockwise.**

4. **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

   After the CHECK indicator lights up green, it cycles between blinking orange five times and staying lit.

5. **Use the type knob to set the USB mode.**

Type knob	Explanation
CLEAN	**GENERIC:** This uses the standard driver of the respective OS. Use this setting when you connect an iOS device. * A Lightning-USB Camera Adapter (commercially available) is required to connect to an iOS device.
TWN	**VENDOR:** This uses a dedicated driver. Use this setting when you connect to a Windows or macOS device. Install the IR-2 driver that you downloaded from the Roland website. * This is the factory setting.

6. **Press the pedal switch.**

   This saves the settings.
   Also, the CHECK indicator rapidly blinks red.
   You can play normally with this unit after around two to three seconds.

   NOTE
   This setting is not applied when a USB cable is plugged into the USB port. Disconnect and the reconnect the USB cable to apply the setting.

Restoring the factory settings (Factory Reset)

This shows you how to return the IR-2 to its factory settings.

1. **Turn off the power (unplug the cable from the INPUT jack).**

2. **Set the type knob to "BROWN".**

3. **Turn the other knobs besides the type knob all the way counterclockwise.**

4. **While holding down the pedal switch, turn on the power by inserting a plug into the INPUT jack.**

   After the CHECK indicator lights up green, it switches to blinking orange.

5. **Press the pedal switch.**

   The CHECK indicator rapidly blinks orange.
   Once the CHECK indicator lights up orange continuously, the IR-2 is restored to its factory settings.

6. **Turn off the power (unplug the cable from the INPUT jack).**

Changing the battery

When operating on battery power only, the CHECK indicator gets dimmer when battery power gets too low. Replace the battery as soon as possible.

* Batteries should always be installed or replaced before connecting any other devices. This way, you can prevent malfunction and damage.
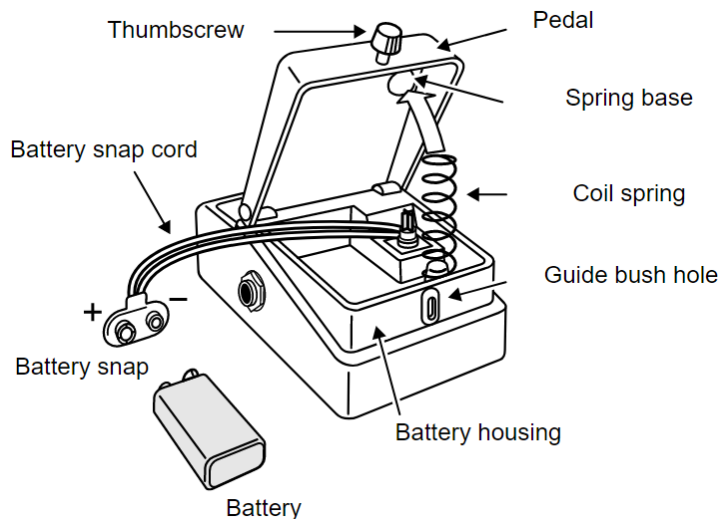
1. **Hold down the pedal and loosen the thumbscrew, then open the pedal upward.**

   You don't need to take the thumbscrew out completely to open the pedal.

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

3. **Connect the battery snap 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, hold down the pedal while tightening the thumbscrew into the guide bush hole.**

Use of battery

- Use alkaline batteries if you are running the unit on battery power.

- If you handle the battery 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" (the leaflet "USING THE UNIT SAFELY").

- This device already contains a battery when shipped from the factory. This is a test battery, which may not last as long as a new one.

- The sound may distort if the battery is nearly depleted. This is not a malfunction. If this happens, replace the battery or use the AC adaptor (sold separately).

- The batteries tend to drain faster when the USB port or the PHONES jack is being used, so we recommend using an AC adaptor.

Main Specifications

Nominal Input Level	INPUT	-20 dBu
	RETURN	-20 dBu
Maximum Input Level	INPUT	+7 dBu
	RETURN	+7 dBu
Input Impedance	INPUT	1 MΩ
	RETURN	1 MΩ
Nominal Output Level	OUTPUT A (MONO), OUTPUT B	-20 dBu
	SEND	-20 dBu
	PHONES	-20 dBu
Maximum Output Level	OUTPUT A (MONO), OUTPUT B	+7 dBu
	SEND	+7 dBu
	PHONES	+7 dBu
Output Impedance	OUTPUT A (MONO), OUTPUT B	1 kΩ
	SEND	1 kΩ
	PHONES	44 Ω
Recommended Load Impedance	OUTPUT A (MONO), OUTPUT B	10 kΩ or greater
	SEND	10 kΩ or greater
	PHONES	44 Ω or greater
Bypass	Buffered bypass	
Indicator	CHECK indicator (Used for indication of Channel and check battery)	
Connectors	INPUT jack	1/4-inch phone type
	OUTPUT A (MONO), OUTPUT B jacks	1/4-inch phone type
	SEND jack	1/4-inch phone type
	RETURN jack	1/4-inch TRS phone type
	PHONES jack	Stereo miniature phone type
	CH SEL jack	1/4-inch phone type
	USB port	USB Type-C®
	DC IN jack	
Power Supply	Alkaline battery (9 V, 6LR61 or 6LF22, commercially available)	
	AC adaptor (PSA series: sold separately)	
Current Draw	160 mA	
Expected battery life under continuous use	Alkaline: Approx. 3.5 hours (6LR61) * 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 (including battery)	450 g 1 lb	
Accessories	Leaflet ("USING THE UNIT SAFELY," "IMPORTANT NOTES," and "Information") Dry battery (9 V, 6LR61 or 6LF22)	
Options (sold separately)	AC adaptor: PSA series Footswitch: FS-5U Dual footswitch: FS-6, FS-7	

* 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.

IMPORTANT NOTES

- **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. You must turn off the power before you connect or disconnect the power cord or AC adaptor.**

- **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.**

- **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, be sure to make a backup of the data stored within it; or you may prefer to write down the needed information.**

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

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Owner's Manual

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