

Bescheinigung des Herstellers/Importeurs

Hiermit wird bescheinigt, daß der/die/das

BOSS SUPER CHORUS CH-1

(Gerät, Typ, Bezeichnung)

in Übereinstimmung mit den Bestimmungen der

Amtsbl. Vfg 1046 / 1984

(Amtsblattverfügung)

funk-entstört ist.

Der Deutschen Bundespost wurde das Inverkehrbringen dieses Gerätes angezeigt und die Berechtigung zur Überprüfung der Serie auf Einhaltung der Bestimmungen eingeräumt.

Roland Corporation Osaka/Japan

Name des Herstellers/Importeurs

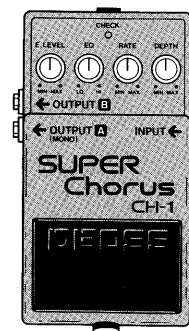
BOSS CH-1

SUPER Chorus

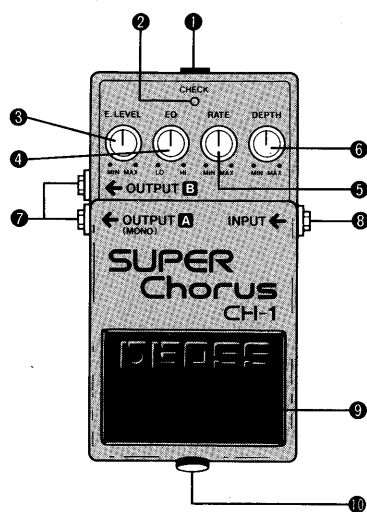
INSTRUCTIONS

Thank you for purchasing the BOSS CH-1. Please read the instructions carefully.

- The BOSS CH-1, featuring stereo output system, creates spacious chorus effect.
- Provided with four controls, Effect Level, Equalizer, Rate and Depth, the CH-1 allows wide variety of chorus sounds.



PANEL DESCRIPTION



1 AC Adaptor Jack

Connect an optional AC adaptor (BOSS PSA-120, 220 or 240) to this jack for AC operation.

* Using the AC adaptor, you can enjoy long and secure operation without having to worry about battery's life. A manganese battery lasts about 20 hours.

2 Check Indicator

This lights up when the effect is turned on, and therefore can be used as an effect on/off indicator.

* The Check Indicator also serves as battery check. When it becomes dimmer or does not light at all, battery replacement is required.

3 Effect Level Knob

This sets the mixing level of the effect sound (whose pitch is changing) to the normal sound. Clockwise rotation (↻) increases the volume of the effect sound, while counterclockwise rotation (↺) decreases it.

4 Equalizer Knob

This controls the tone of the effect sound. Clockwise rotation (↻) boosts higher frequencies and counterclockwise rotation (↺) cuts them.

5 Modulation Rate Knob

This sets the rate of the chorus effect. Clockwise rotation (↻) quickens the rate and counterclockwise rotation (↺) slows down.

6 Modulation Depth Knob

This sets the depth of the chorus effect. Clockwise rotation (↻) deepens the effect and counterclockwise rotation (↺) creates the opposite effect.

7 Output Jacks A/B

Connect an amplifier to these jacks. For monaural output, use only Output A.

8 Input Jack

Connect an electric/electronic musical instrument such as a guitar to this jack.

* Plugging in this jack will automatically switch the unit on. Be sure to disconnect the cord from this jack when the unit is not to be used.

9 Pedal Switch

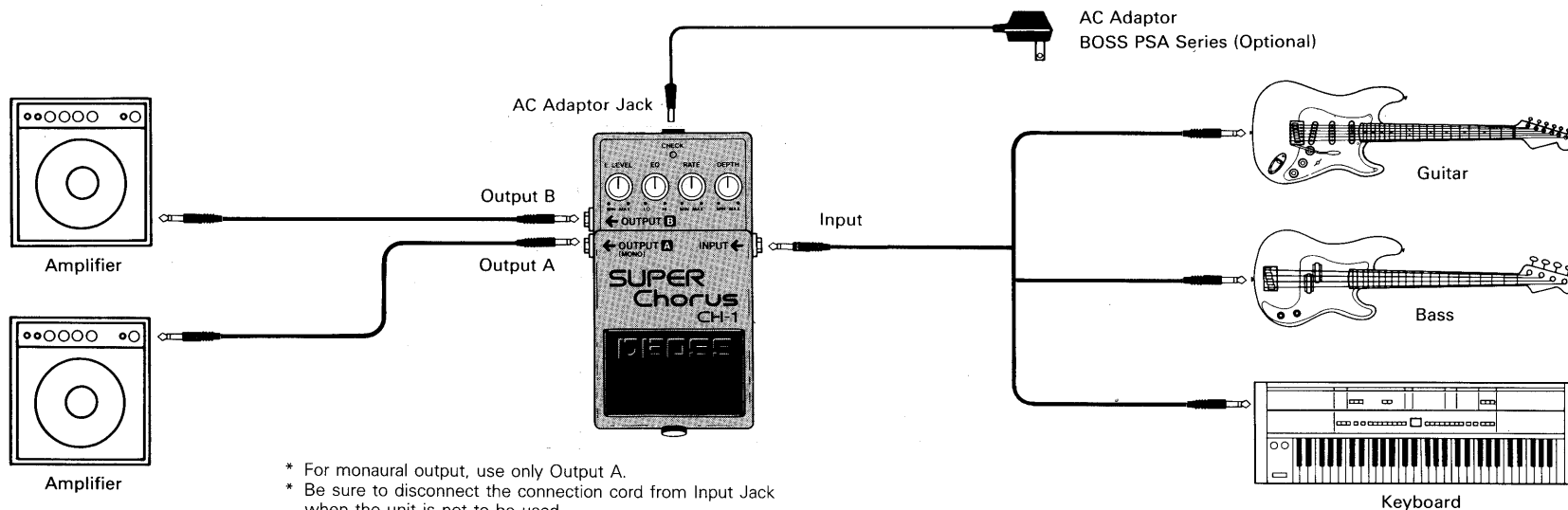
Pressing the pedal turns on or off the effect.

10 Thumb Screw

Loosen this screw to open the cover for battery replacement.

* Do not remove the screw from the cover so that you will not lose it.

CONNECTIONS



- * For monaural output, use only Output A.
- * Be sure to disconnect the connection cord from Input Jack when the unit is not to be used.

SPECIFICATIONS

Power: 9V DC 006P (× 1), AC adaptor (PSA series: optional)
Current Draw: 15mA (9V DC)
Controls: Effect Level, Equalizer, Modulation Rate, Modulation Depth
Indicator: Effect On/Off (Battery Check)
Jacks: Input, Output A, Output B, AC Adaptor
Residual Noise: Less than -95dBm (IHF-A) with EQ set to the center position
Input Impedance: 1MΩ
Output Load Impedance: Over 10kΩ
Dimensions: 70(W) × 55(H) × 125(D) mm/2-3/4" × 2-3/16" × 4-15/16"
Weight: 400g/14 oz

* Specifications are subject to change without notice.

For Canada	
CLASS B	NOTICE
This digital apparatus does not exceed the Class B limits for radio noise emissions set out in the Radio Interference Regulations of the Canadian Department of Communications.	
CLASSE B	AVIS
Cet appareil numérique ne dépasse pas les limites de la classe B au niveau des émissions de bruits radioélectriques fixés dans le Règlement des signaux parasites par le ministère canadien des Communications.	

BOSS
Products of Roland

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RADIO AND TELEVISION INTERFERENCE

Warning – This equipment has been verified to comply with the limits for a Class B computing device, pursuant to Subpart J, of Part 15, of FCC rules. Operation with non-certified or non-verified equipment is likely to result in interference to radio and TV reception.

The equipment described in this manual generates and uses radio-frequency energy. If it is not installed and used properly, that is, in strict accordance with our instructions, it may cause interference with radio and television reception.

This equipment has been tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J, of Part 15, of FCC Rules. These rules are designed to provide reasonable protection against such a interference in a residential installation. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to try to correct the interference by the following measure:

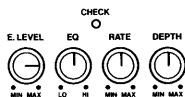
- Disconnect other devices and their input/output cables one at a time. If the interference stops, it is caused by either the other device or its I/O cable.
- These devices usually require Roland designated shielded I/O cables. For Roland devices, you can obtain the proper shielded cable from your dealer. For non Roland devices, contact the manufacturer or dealer for assistance.
- If your equipment does cause interference to radio or television reception, you can try to correct the interference by using one or more of the following measures:
 - Turn the TV or radio antenna until the interferences stops.
 - Move the equipment to one side or the other of the TV or radio.
 - Move the equipment farther away from the TV or radio.
 - Plug the equipment into an outlet that is on a different circuit than the TV or radio. (That is, make certain the equipment and the radio or television set are on circuits controlled by different circuit breakers or fuses.)
 - Consider installing a rooftop television antenna with coaxial cable lead-in between the antenna and TV.

If necessary, you should consult your dealer or an experienced radio/television technician for additional suggestions. You may find helpful the following booklet prepared by the Federal Communications Commission:

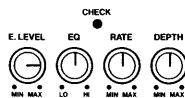
"How to Identify and Resolve Radio-TV Interference Problems"
 This booklet is available from the U.S. Government Printing Office, Washington, D.C., 20402, Stock No. 004-000-00345-4.

OPERATION

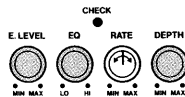
- ① Make all the necessary connections, then set the control knobs on the panel as shown below.



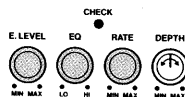
- ② Make the Check Indicator light up (If it is not lit, press the Pedal Switch).



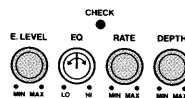
- ③ Set the desired rate with the Modulation Rate Knob.



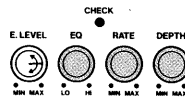
- ④ Set the desired depth with the Modulation Depth Knob.



- ⑤ Adjust the tone of the effect sound with the Equalizer Knob.



- ⑥ Set the volume of the effect sound with the Effect Level Knob.



* For monaural output, use only Output A. Output A sends the mixture of the effect and normal sounds.

* When using the CH-1 in stereo output.

OUTPUT A: Only effect sound (whose pitch is changing) is output.
 OUTPUT B: Only normal sound is output.

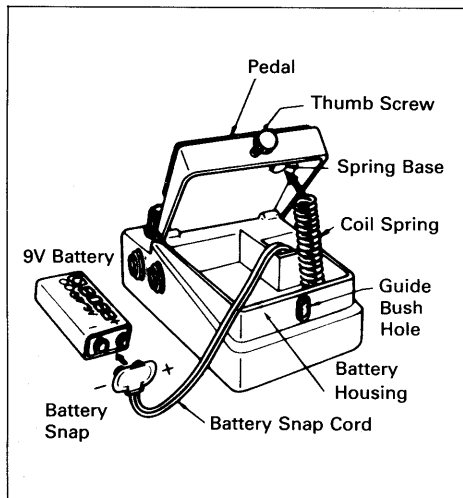
The CH-1 adopts the space compounding stereo system, therefore, the effect will vary depending on the distance between two speakers (L/R). Try playing the instrument to check how it actually sounds like. If you lower the equalizer or effect level, the pan will be moved to Output B.

* Sound may be distorted if a guitar of large output is used. If this happens, decrease the guitar's volume or use a limiter.

BATTERY REPLACEMENT

- Loosen the thumb screw on the pedal to open it (cover).
- Take out the battery from the battery case, then disconnect the battery snap.
- Connect a new battery to the battery snap, then replace the battery in to the battery case.
 - * Make sure that the polarity of the battery is correct.
- Push the coil spring into the spring base on the rear of the pedal (cover), then close the pedal.
 - * Make sure that the snap cord is not caught in the pedal or coil spring.
- Insert the thumb screw into the guide bush hole and firmly tighten the screw.

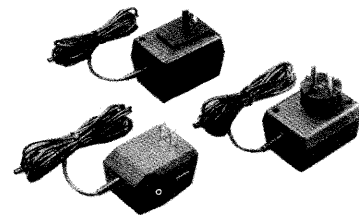
Use one 9-volt battery



IMPORTANT NOTES

- If the battery voltage drops (the Check Indicator lights dimmer), various symptoms are shown, such as the effect becomes weak, no sound is produced, etc. To prevent that, replace the battery immediately.
- Make sure that the polarity of the battery is correct when connecting the battery.
- When the unit is not to be used for a long period of time, remove the battery to prevent battery leakage.
- Be sure to use the AC adaptor BOSS PSA-120, 220 or 240 depending on the voltage system in your country.
- Be sure to keep the battery securely connected even while using the AC adaptor, then the unit will continue to operate even if the AC adaptor cord comes out during performance.
- Plugging in the Input jack will automatically switch the unit on. Be sure to disconnect the cord from this jack when the unit is not to be used.

- Do not let any solid or liquid substance into the unit.
- When the unit is not in use, disconnect the AC adaptor from the socket.
- If this unit does not work properly, switch it off immediately, then call your local Roland service center.



• IN: 120, 220, 240V
 • OUT: 9V 200mA

BOSS PSA-120/220/240 (Optional)