

BOSS

CS-1 Compression Sustainer

INSTRUCTIONS



• Please read these instructions carefully for proper operating procedures for the BOSS CS-1.

SPECIFICATIONS

Power	Battery DC9V (1) AC Adaptor
Current draw	DC9V, 5mA
Control	Sustain, Level, Mode
Others	Normal/Effect Changeover Switch, Battery Check Lamp (also for confirmation of Normal/Effect changeover)
Jack	Input, Output, AC Adaptor
Equivalent input noise	-100dB
Maximum input	+5dBm
Maximum output	-15dBm
Compression Range	60dB
Output load impedance	Over 10K Ω
Dimensions	70(W) x 55(H) x 125(D)mm
Weight	400g

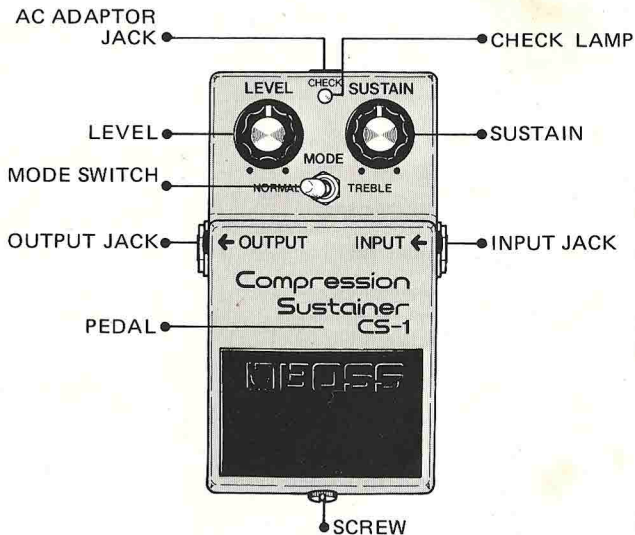
* Specifications are subject to change without notice.

 **BOSS**
Products of Roland

Printed in Japan

BOSS Compression Sustainer CS-1 gives you long sustain without distortion. When the mode switch is set at Treble, sustain of treble sound is emphasized, producing well-balanced sustain especially when playing a chord. The maximum input level is designed to be so high and the compression range to be so big to make it possible to use with any type of instruments. When the sustain control is set at lower position, this unit can be used as a limiter. An LED lights to tell you at a glance when effect is on.

NAME AND FUNCTIONS



SUSTAIN

This knob controls sustain time. It becomes longer when turned clockwise (↻), and shorter when turned counterclockwise (↺).

LEVEL

This knob functions to compensate for the level difference between Normal and Effect settings. Turning clockwise (↻) increases volume of Effect mode and counterclockwise (↺), decreases.

MODE SWITCH

At NORMAL, normal sustain of low noise, long sustain is obtained. At TREBLE, sustain of treble sound is emphasized.

INPUT JACK

This input jack receives output from electric guitar and other electronic instruments.

OUTPUT JACK

This jack feeds signal to amplifier.

AC ADAPTOR JACK

CS-1 operates both from self-contained battery (9V) and from AC line. Connect a BOSS AC Adaptor (DC9V) to this jack, and the battery is disconnected from the circuit, guaranteeing stable longtime performance.

PEDAL SWITCH

This is a changeover switch for Normal or Effect. By use of **FET ELECTRONIC SWITCH**, first in these kinds of small size effect units, pop noise is perfectly eliminated and CS-1 can be satisfactorily employed even in studio recording.

CHECK LAMP

This allows the simultaneous check of NORMAL/EFFECT position and battery level. Depressing the pedal once turns effect on and lights the lamp. By depressing again, effect is turned off (NORMAL mode) and lamp goes off.

* If check lamp fails to light or becomes dim, replace battery.

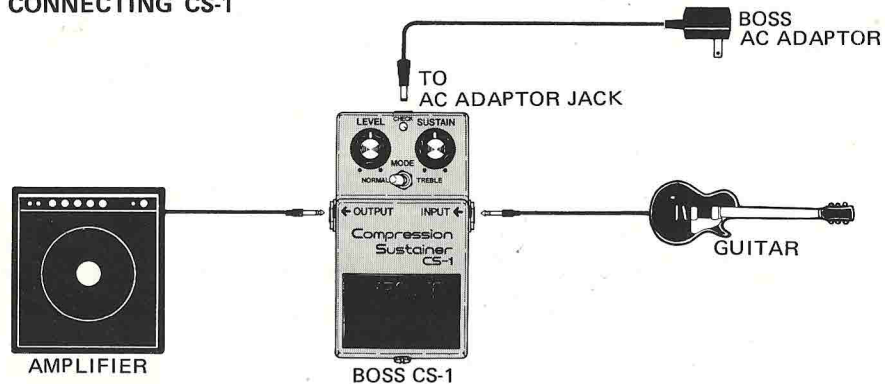
SCREW

When replacing battery, loosen this screw to open the case. Do not remove off the screw from the pedal. If you do, be careful not to lose it.


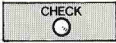


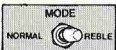
BEFORE USING CS-1

- When operating CS-1 from AC line, use BOSS AC Adaptor for CS-1.
- Avoid using CS-1 at very dusty location or under high temperature or humidity conditions.

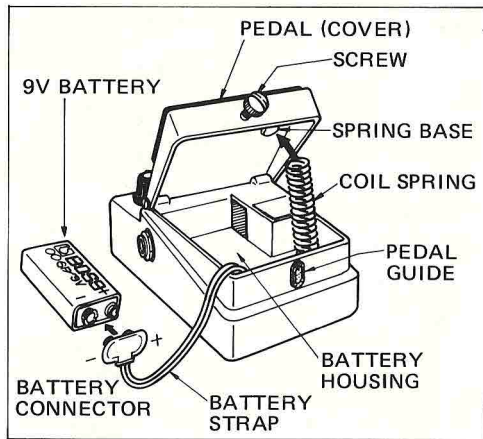
CONNECTING CS-1



OPERATING CS 1

- 1**  After connecting all cords required, set all knobs on the panel as illustrated.
- 2**  Depress the pedal switch. Check lamp lights to indicate "EFFECT ON" and extinguishes to indicate "EFFECT OFF".
* This check lamp is also used to check battery. If lamp fails to light or becomes dim, the battery should be replaced.
- 3**  Turn **SUSTAIN** control to proper position.
- 4**  While switching pedal ON and OFF, turn **Level** knob to proper position where no volume difference between Normal and Effect modes is noticed.
- 5**  Set **MODE** switch at proper position. To intensify treble sustain, set at **TREBLE**.

CAUTIONS FOR REPLACING AND HANDLING BATTERY



REPLACING BATTERY USE ONE 9-VOLT BATTERY.

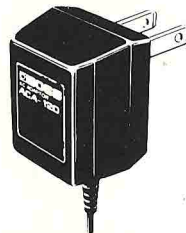
- ① Loosen the screw of pedal to open it and take out battery from its housing.
- ② Replace the battery by a fresh one and put it into position.
- ③ Set coil spring onto the projection on the rear of the pedal and shut the cover (pedal). Finally, insert the screw into the pedal guide and tighten it.
At this time, be careful not to catch the battery strap in the cover or coil spring.

CAUTIONS

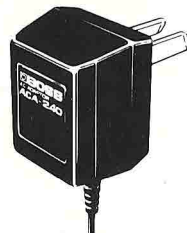
- When you don't use for a long period, remove the battery to prevent current leakage and leaking out of sticky substance.
- If battery voltage drops, effect becomes inferior or no sound is produced. To prevent that, replace the battery a little earlier.

- Be sure to keep the battery snapped by connector into the housing, when using AC adaptor, too.
* Even if AC Adaptor cord comes out during performance, operation immediately changes to battery, causing no trouble in continued performance.
- Power is switched on while a plug is put into input jack. When you do not use, keep the plug off the jack.

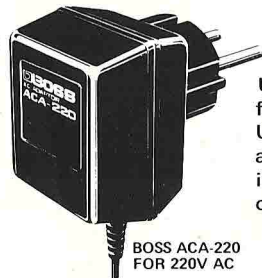
AC ADAPTOR BOSS ACA SERIES (OPTION)



BOSS ACA-120
FOR 117V AC



BOSS ACA-240
FOR 240V AC



BOSS ACA-220
FOR 220V AC

Use BOSS AC adaptor for AC operation. Use of different adaptors may cause improper operation or no sound.