

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 (OPTION)

When you operate TW-1 from AC line, use AC Adaptor for TW-1.



BOSS ACA-120
FOR 117V AC



BOSS ACA-240
FOR 240V AC



BOSS ACA-220
FOR 220V AC

BOSS

TW-1 Touch Wah INSTRUCTIONS

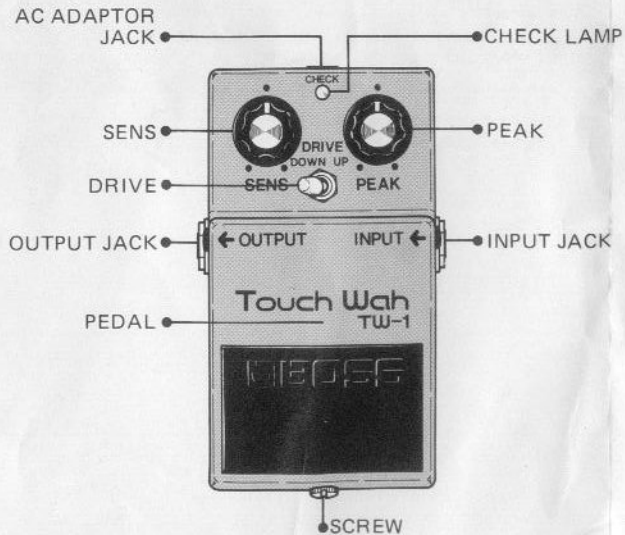


- Please read these instructions carefully for proper operating procedures for the BOSS TW-1.

BOSS Touch Wah gives you wah effects whose sensitivity to picking intensity can be adjustable. The tone can be varied from characteristic to simple sound. TW-1 gives you unique sound which is impossible by conventional wah units.

TW-1 can be used with bass guitar and electronic piano as well as lead guitar.

NAME AND FUNCTIONS



SENS

This knob controls the sensitivity of wah effects to picking intensity. Turning clockwise (↻) gives wah effects with weak picking. Turning counterclockwise (↺), wah is effected only when picking strongly.

* The sensitivity varies depending on the kind of guitars and pickups as well as volume setting. Adjust SENS control properly depending on the kind of guitar and your playing techniques.

PEAK

This knob controls the tone color of wah effects. Turning clockwise (↻) gives you deep effect and counterclockwise (↺) gives you shallow effect.

DRIVE

This controls the mode of tone variation. At UP, the sound shifts from hard to mellow tone, when you pick the strings strongly. At DOWN, from mellow to hard tone.

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

TW-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 long-time 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 TW-1 can be satisfactorily employed even in studio recording.

CHECK LAMP

While pedal is trod down, this lamp lights if battery is normal. Thus this lamp lets you confirm the changeover between Effect and Normal modes, and also battery state.

If the indicator fails to light, replace the battery with a new one.

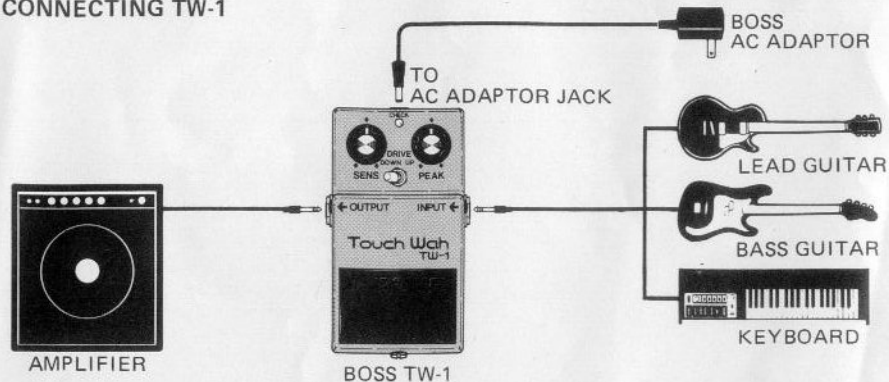
SCREW

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.





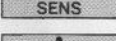

BEFORE USING TW-1

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

CONNECTING TW-1



OPERATING TW-1

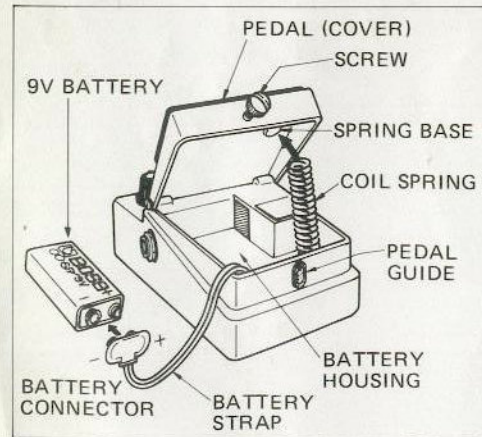
-  After connecting all cords required, set all knobs on the panel as illustrated.
-  Tread the pedal to check battery. If check lamp lights, battery is live.
* If lamp does not light, it means dead battery, replace it with a new battery.
-  Tread pedal to set the unit in the state that sound is effected.
-  Set **DRIVE** switch to **UP** or **DOWN**.
-  Turn **SENS** control to proper position.
-  Turn **PEAK** control to proper position to obtain tone color you like.

SPECIFICATIONS

Power	Battery 9V (1) AC Adaptor
Current draw	DC9V, 6mA
Control	Sens, Peak, Drive
Others	Normal/Effect Changeover Switch, Battery Check Lamp (also for confirmation of Normal/Effect changeover)
Jack	Input, Output, AC Adaptor
S/N ratio	Over 80dB
Input impedance	220K Ω
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.

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.