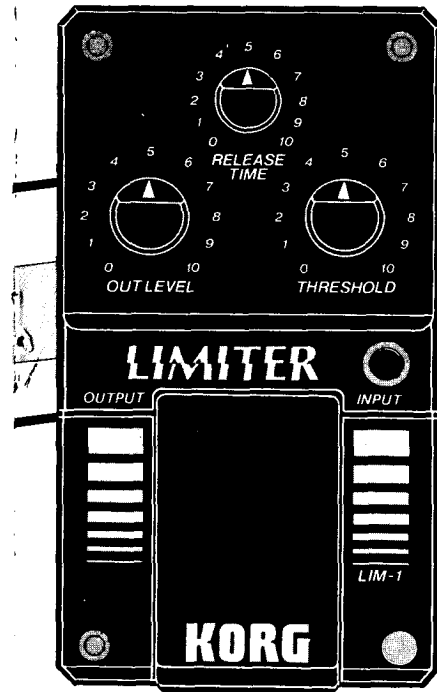


KORG®

KEIO ELECTRONIC LABORATORY CORPORATION
15-12, Shimotakaido 1-chome, Suginami-ku, Tokyo Japan.

©KEIO ELECTRONIC LABORATORY CORP 1984

5910ETH PRINTED IN JAPAN



KORG EFFECTS SERIES LIM-1
LIMITER
OWNER'S MANUAL

Thank you for purchasing a Korg Effects Series product. Please read the following instructions on proper use to maintain maximum performance for many years.


FEATURES OF THE LIM-1

The LIM-1 Limiter is designed to attenuate large strong signal input without degrading original sound quality. This is due to the quick VCA response design in the LIM-1. The effect protects the amplifier against overload and prevents the original sound from being distorted during multi-track recording.

BEFORE USING THE EFFECTS

1 For extended battery life, disconnect the instrument's plug from the input jack when the effect is not being used.

2 A dim indicator light during effect operation indicates battery depletion. Replace the battery.

3 For external power supply, be sure to use Korg's AC adapter (9V, 100mA, polarity ).

SPECIFICATIONS

- **Input impedance:** 1M Ω
- **Output impedance:** 10k Ω
- **Maximum input level:** +5dBm (THRESHOLD 0)
- **Maximum output level:** +1dBm (THRESHOLD)
- **Minimum input for compression:** -13.5dBm ~ +5dBm (THRESHOLD 10~0, at 250Hz, 3dB compression)
- **Operation characteristics:** -20dBm ~ 0dBm (INPUT), -12dBm ~ 8dBm (OUTPUT) (THRESHOLD 10, at 250Hz)
- **Maximum compression ratio:** 13dB (maximum input, at 250Hz)
- **Release time:** 0.5 ~ 10sec. (RELEASE TIME 0~10)
- **Frequency response[EFFECT OFF]:** 20Hz ~ 20kHz +0/-1.5dB
- **Frequency response[EFFECT ON]:** 20Hz ~ 7.5kHz +0/-3dB (THRESHOLD 10, RELEASE TIME 10, -30dBm input)
- **Frequency response [EFFECT ON]:** 20Hz ~ 7.5kHz +0/-6dB (THRESHOLD 10, RELEASE TIME 10, -10dBm input)
- **Noise level:** -95dBm (THRESHOLD 0, equivalent input noise, input short-circuited, IHF-A)

- **Operating voltage:** 10 ~ 7.5V
- **Power consumption:** 6.5mA
- **Pedal switch life:** Over 10,000 times of switching
- **Functions:** THRESHOLD, RELEASE TIME, OUT LEVEL, EFFECT ON/OFF LED, FOOT SW, INPUT, OUTPUT
- **Power supply:** 006P 9V battery/DC jack
- **Dimensions:** 70(W) x 67(H) x 129(D) mm
- **Weight:** 450 g (including battery)

(All values are typical.)

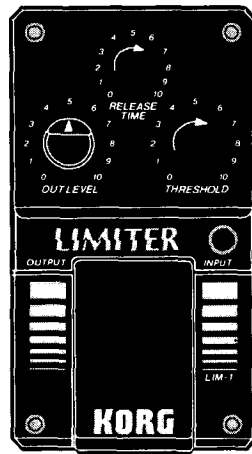
N O T I C E

Korg products are manufactured under strict specifications and voltages required by each country. These products are warranted by the Korg distributor only in each country. Any Korg product not sold with a warranty card or carrying a serial number disqualifies the product sold from the manufacturer's/distributor's warranty and liability. This requirement is for your own protection and safety.

CHART OF SETTINGS

EX.1

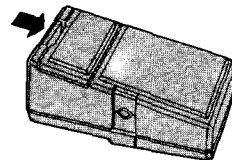
- (1) Adjust the volume of the connected instrument to the maximum level.
- (2) Turn the THRESHOLD control knob toward "10" until the level of the sound to be compressed is set.
- (3) Turn the RELEASE TIME control knob toward "10" and set it so that the sound trails off naturally.
- (4) Set the OUT LEVEL control so that the original and effect sound have the same level. Check the levels by turning the pedal switch on and off.



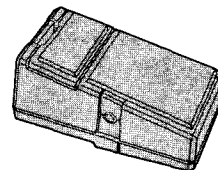
BATTERY REPLACEMENT

- If the indicator light dims, indicating battery depletion, replace the battery according to the following procedures as soon as possible.

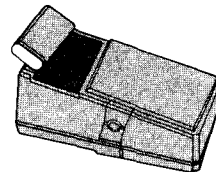
- 1 Press the battery compartment cover, at the bottom of the effect body, in direction indicated by the arrow, and remove it.



- 3 Reset the removed cover back.



- 2 Replace the depleted battery with a new one (006P 9V).



Caution:

★ If a depleted battery is left or if the effect is not used for a long period, possible chemical leakage may cause effect malfunction. Therefore, replace the depleted battery as soon as possible.

NAMES AND FUNCTIONS OF CONTROLS AND JACKS

1. AC ADAPTER JACK

Connector for AC adapter.

2. RELEASE TIME

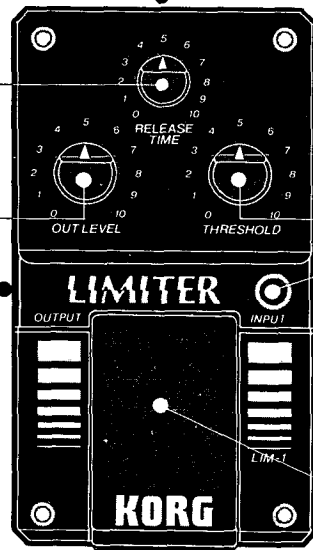
Control knob for the time period in which limited sound is restored to the original level. Turning toward "10" increases restoration time.

3. OUTLEVEL

Volume control knob for effect sound. Set this control for an effect sound level identical to the original sound level. Check both levels by turning the pedal switch on and off.

4. OUTPUT JACK

Output terminal connected to an amplifier or the like.



5. THRESHOLD

Control knob to set the level of the sound to be limited. Turning toward "10" lowers the level. This enables a sound at a lower volume to be limited.

6. INDICATOR

Lights when the effect function is activated. A dim indicator light during effect operation indicates battery depletion. Replace the battery.

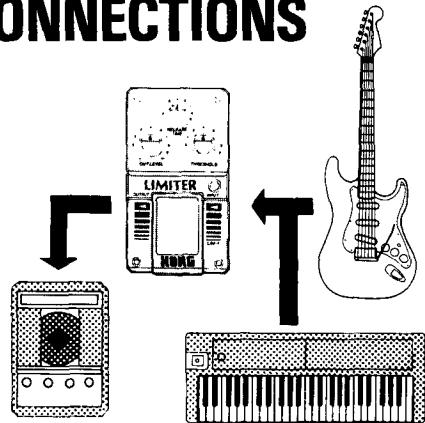
7. INPUT JACK

Connector for an electric guitar or electronic instrument. Plugging in an instrument automatically switches on effect power.

8. PEDAL SWITCH

Switch to turn the effect function on/off.

MAKING CONNECTIONS



- 1 For an external power supply, be sure to use Korg's AC adapter (9V, 100mA, polarity $\oplus \ominus \ominus$).
- 2 When the effect is not being used, disconnect the instrument's plug from the input jack to save battery power.