Please read these instructions carefully for proper operating procedures for the BOSS BF-1.
BF-1 produces a variety of flanging effects, incorporating controls like: Manual, Depth, Rate and Resonance. A unique effect unit that can be connected to keyboard as well as guitar and also it is efficiently applied for tape-dubbing. By use of AC power, BF-1 guarantees your performance at stable tone for hours.

**NAME AND FUNCTIONS**

**MANUAL CONTROL**
This knob controls the delay time of sound. The time becomes shorter when turned clockwise (↑) and longer when turned counterclockwise (↓). The time can be varied between 0.5mS and 16mS.
- At Center .................. 3mS
- At full clockwise position ........................................ 0.5mS
- At full counterclockwise position ................................. 16mS

**DEPTH CONTROL**
This knob controls the sweep range with the delay time set with Manual Control as the center. The sweep range becomes wider when turned clockwise (↑) and narrower, counterclockwise (↓).
- At full clockwise (↑) position, the Manual Control does not operate.

**INSTRUMENT JACK**
This input jack receives output from guitar, synthesizer, electronic piano and others.

**OUTPUT JACK**
This jack feeds effected output to amplifier, mixer, etc.

**AC ADAPTOR JACK (DC-9V)**
Connect BOSS AC adaptor to this jack to supply power.

**RESONANCE CONTROL**
This knob controls resonance. It becomes intensified when turned clockwise (↑), and reduced, counterclockwise (↓). The sound unique to flanger becomes more emphasized the more this knob is turned clockwise (↑).
- A limited frequency range is emphasized to create specific sound spectrum.

**RATE CONTROL**
This knob controls the sweep rate. When turned clockwise (↑), it becomes faster, counterclockwise (↓), slower.
- At full clockwise position .................................. 100mS
- At full counterclockwise position ............................ 20mS

**EFFECT/NORMAL SWITCH**
Simply treading this switch, changeover between Effect and Normal is accomplished. To change from normal sound to effect sound, tread the switch once. To turn back to normal sound, tread the switch again.
BEFORE USING BF-1
- Avoid using BF-1 in very dusty location, or under high temperature or humidity conditions.

CONNECTING BF-1
- CONNECTING LEAD/BASS GUITAR OR KEYBOARD
  - LEAD GUITAR
  - BASS GUITAR
  - SYNTHESIZER

- FOR MULTIPERFORMANCE
  - GUITAR AMP
  - BOSS BF-1
  - BOSS GE-10
  - BOSS KM-4
  - SYNTHESIZER

- FOR TAPE DUBBING
  - CASSETTE TAPE RECORDER
  - BOSS BF-1
  - OPEN TAPE RECORDER

- Use exclusive BOSS AC Adaptor for BF-1.
- When not in use, pull off AC Adaptor from the outlet.
OPERATING BF-1

1. After connecting all cords required, set all knobs on the panel as illustrated. Now, BF-1 is ready to produce sound. Connect AC Adaptor cord to BF-1 and AC plug into outlet.

2. Set knobs to required position to suit the sound you like. (See Examples of Tone Setting.)

3. Set Effect/Normal Switch to proper position to meet the purpose.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>BOSS AC Adaptor</td>
</tr>
<tr>
<td>Input impedance</td>
<td>220KΩ</td>
</tr>
<tr>
<td>Output impedance</td>
<td>More than 600Ω</td>
</tr>
<tr>
<td>Frequency response</td>
<td>20Hz ~ 20KHz</td>
</tr>
<tr>
<td>Delay time</td>
<td>0.5mS ~ 16mS</td>
</tr>
<tr>
<td>Sweep oscillator rate</td>
<td>100mS ~ 20S</td>
</tr>
<tr>
<td>Gain</td>
<td>UNITY 1</td>
</tr>
<tr>
<td>S/N ratio</td>
<td>Better than 80dB</td>
</tr>
<tr>
<td>Dimensions</td>
<td>115(W) x 65(H) x 205(D)mm</td>
</tr>
<tr>
<td>Weight</td>
<td>650g</td>
</tr>
</tbody>
</table>

*Specifications are subject to change without notice.
EXAMPLES OF TONE SETTING (LEAD GUITAR)
Create your own unique sound in the light of the examples illustrated below.
The blank panel drawings may serve you as your memo of best setting.

- **PHASE SOUND**

- **CHORUS SOUND**

- **VIBRATO SOUND**

- **STRONG FLANGING SOUND**

- **FUNKY SOUND**