

■ It is a good idea to keep a fresh battery in the battery compartment while you're playing the FX80B or FX82 so that even if the A.C. adapter should accidentally come out, your FX80B or FX82 will continue to work.

■ Unauthorized repair of the FX80B or FX82 will void the warranty. Should your compressor/sustainer require service, contact your DOD FX pedal dealer for return/repair information.

#### CHANGING THE BATTERY

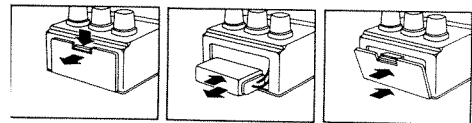


Figure 1

Figure 2

Figure 3

Figure 1: Push battery compartment cover tab down and pull out at top.

Figure 2: Remove old battery. Replace with an EVEREADY® 9 volt battery No. 216 (NEDA 1604). Snap on new battery and replace as shown.

Figure 3: Insert compartment cover in groove and push closed to latch.

#### SPECIFICATIONS

**Input Impedance:** 500K ohms.

**Output Impedance:** 1K ohms.

**Compression Range:** 0 to 40 dB.

**Attack Time:** 5 to 200 milliseconds.

**Released Time:** 150 milliseconds

**Band Width:** 40 hz to 16 khz.

**Signal to Noise Ratio:** >90 dB.

**Gain:** Variable  $\pm 12$  dB.

**Power Supply:** One 9 volt battery or DOD PS-3 or DOD FX 105 A.C. adapter.

**Maximum Output Level:** 6 vpp.

**Size:** 5"×3"×2" (127mm×76mm×51mm).

**Weight:** 1.2 lbs. (.55 kg).

#### DOD WARRANTY

1. The warranty registration card must be mailed within ten days after purchase date to validate this warranty.
2. DOD warrants this product, when used solely within the U.S., to be free from defects in material and workmanship under normal use and service.
3. DOD Electronics liability under this warranty is limited to repairing or replacing defective materials

that show evidence of defect, provided the product is returned through the original dealer, where all parts and labor will be covered up to a period of three years. The company shall not be liable for any consequential damage as a result of the product's use in any circuit or assembly.

4. Proof of date of purchase is considered to be the burden of the consumer.
5. If this product is battery operated: Batteries are not covered by this warranty. Please remove weak or dead batteries in order to prevent corrosion damage.
6. DOD reserves the right to make changes in design or make additions to or improvements upon this product without incurring any obligation to install the same on PRODUCTS PREVIOUSLY MANUFACTURED.
7. The foregoing is in lieu of all other warranties, expressed or implied, and DOD neither assumes nor authorizes any person to assume for it any obligation or liability in connection with the sale of this product. In no event shall DOD or its dealers be liable for special or consequential damages or from any delay in the performances of this warranty due to causes beyond their control.

#### DOD Electronics Corporation

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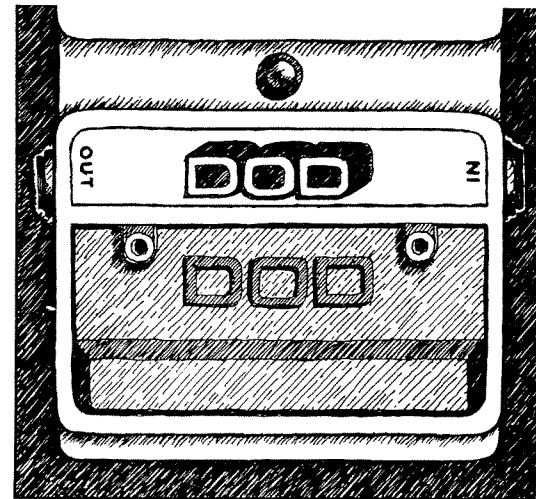
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The specifications in this manual are subject to change without notice.



## INSTRUCTION MANUAL

### FX80B COMPRESSOR/ SUSTAINER

### FX82 BASS COMPRESSOR

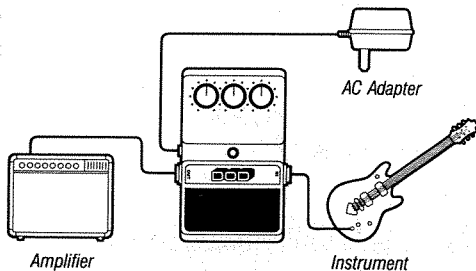
To get the best results from your FX80B and FX82, please carefully read the instructions in this manual.

## WHAT THE FX80B COMPRESSOR/SUSTAINER AND THE FX82 BASS COMPRESSOR DO.

The FX80B Compressor/Sustainer and the FX82 Bass Compressor reduce the dynamic range of the input signal from an instrument. Dynamic range is the difference between the loudest and quietest portions of an instrument's sound. By "compressing" or squeezing the loudest and quietest portions of the instrument's sound into a more compact range, you can control the signal better. Since the loudest and quietest portions of your notes are compressed, your notes sustain longer, the sound seems tighter, and you can help avoid clipping going into other effects or your amplifier.

## CONNECTING THE FX80B AND FX82

Connect the INPUT of the FX80B or FX82 to your instrument or the output of other effects devices you wish to compress with a 1/4 inch mono phone plug.



Connect the output of the compressor/sustainer to your amplifier or other down stream effects devices. Pushing the foot switch on the compressor puts the unit in the circuit and lights the LED indicator. When you're not going to use the FX80B or FX82, be sure to **unplug the INPUT jack so as to not waste the battery**. When the FX80B or FX82 fails to switch in or out, or the LED indicator stays lighted, or there is a lot of distortion present in the signal, the battery is probably used up and needs to be replaced. To eliminate the need for a 9 volt battery, attach either the DOD PS-3 or the DOD FX-105 power supply to the 3.5 mm A.C. adapter power jack.

## CONTROLS

**LEVEL CONTROL:** Adjusts the output of the compressor to match the dry instrument level.

**ATTACK CONTROL:** Varies the time it takes for compression to occur.

**COMPRESSION CONTROL:** Adjusts the amount of compression (from 0 to 40 dB) before limiting occurs.

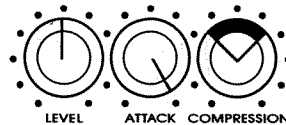
**FOOT SWITCH:** Switches the compression IN/OUT of the signal path.

**LED INDICATOR:** Lights up when the compression unit is enabled.

**JACKS:** INPUT, OUTPUT, A.C. ADAPTER. (Use either the DOD PS-3 or DOD FX-105 power supply to eliminate the need for batteries.)

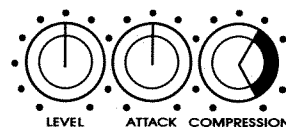
## OPERATION OF THE FX80B OR THE FX82

For a smooth, clean sustain: set the ATTACK control at its full clockwise position, adjust the COMPRESSION control from 30% to 60% to get a moderate amount of dynamic range reduction, and match the dry input level with the output of the compressor.



SETTINGS FOR A SMOOTH, CLEAN SUSTAIN

For a bright, solid chorused new music sound: set the attack to about 50%, adjust the COMPRESSION to 75% to 90%, and adjust the LEVEL control so that the dry input and compressed output match in level. Then take the output of the compressor into the input of a chorus effect.

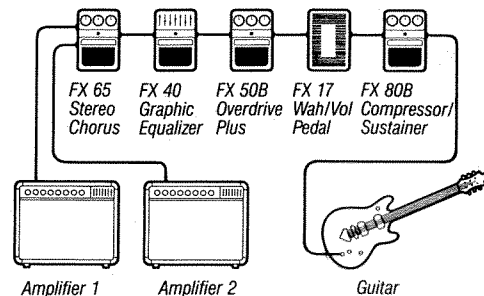


SAMPLE SETTING FOR A SOLID SOUND THAT HAS LITTLE DYNAMIC RANGE

Envelope filters and envelope followers use the variation in dynamic range to work. If you limit the dynamic range with a compressor the envelope filters and followers may not work properly. You need to experiment with your effects to see what order makes the sound you want.

Use a compressor to give a volume pedal a more consistent and predictable level by packaging the sound into a tighter range. Put the compressor before the volume pedal.

A stereo multiple effects setup using the FX80B might look like this:



## FEATURES

The FX80B Compressor/Sustainer is useful for compressing most amplified musical instruments.

The FX82 Bass Compressor is made especially for use with the bass guitar.

Three controls are provided on the FX80B and the FX82, allowing wide uses of the compressors. The compressors allow up to 40 dB of dynamic range reduction.

The FX80B and FX82 also feature:

- FET switching for clickless insertion into the signal path.
- LED battery indicator shows the status of the effect and battery condition.
- No tools, easy access battery compartment.
- Adapter jack for A.C. operation.
- Rugged die cast metal case.
- Three year limited warranty.
- Rubber non-skid bottom.

## IMPORTANT NOTES

■ When you're not going to use the FX80B or FX82 be sure to unplug the INPUT jack so as to not waste the battery.

■ When the FX80B or FX82 fails to switch in or out or the LED indicator stays lighted, or there is a lot of distortion present in the signal, the battery is probably used up and needs to be replaced.

■ If you are not going to use the FX80B or FX82 for an extended period of time, remove the battery to avoid possible damage to the unit from leaking battery fluids.