

## SPECIFICATIONS

**Input Impedance:** 500 kohms

**Output Impedance:** 1 kohms

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

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

**Gain:** Unity.

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

**Size:** 5" x 3" x 2" (127mm x 76mm x 51mm)

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

## D O D 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.

## D O D Electronics Corporation

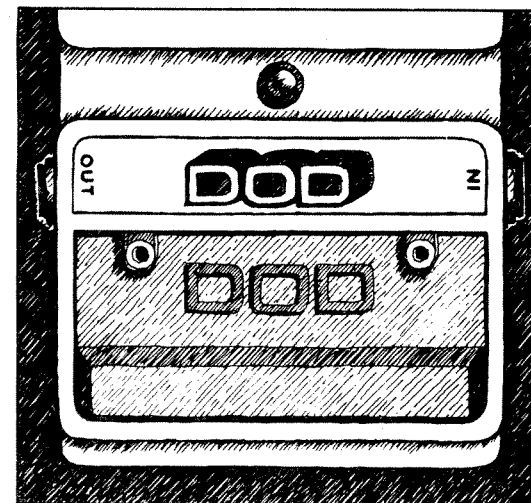
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without notice.



## INSTRUCTION MANUAL

## FX87 EDGE

To get the best results from your FX87 please  
read this manual carefully.

## WHAT THE FX87 EDGE SIGNAL PROCESSOR DOES

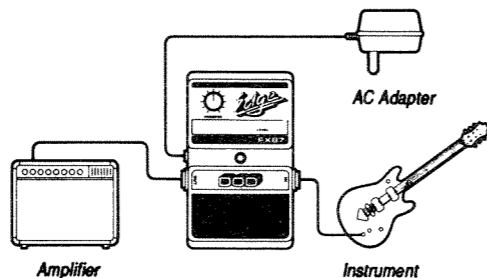
The DOD FX87 EDGE pedal is a signal processor that adds a slight edge to the sound after other signal processing has dulled it. This gives the sound new presence, clarity, and transparency using a unique signal conditioning process that has been re-engineered to fit in DOD's FX pedal chassis.

The EDGE process uses 180° phase cancellation, narrow band delays and indirect frequency pre-emphasis to create a side-chain interference signal. When the FX87 side-chain is mixed back against the original signal, it cancels the specific frequencies where distortion and overload occur, without affecting adjacent frequencies. The EDGE process uses critically spaced (in octaves) tight-time delays to fill the holes left by the 180° phase notching. Indirect frequency accents are used to return the natural presence to the original signal.

## CONNECTING THE FX87

Connect the INPUT of the FX87 with a 1/4 inch mono phone plug to your instrument, or the output of other effects devices you wish to process. Connect the output of the EDGE pedal 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 FX87 be sure to unplug the INPUT jack to save the battery. When the FX87 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 weak. Replace it. Attach

either the DOD PS-3 or the DOD FX-105 power supply to the 3.5 mm A.C. adapter power jack to eliminate the need for a 9 volt battery.



## FEATURES

The FX87 EDGE processor restores the brightness and clarity of an over processed signal.

The FX87 has a simple, single control that adjusts the amount of processing.

- The FX87 also features:
- FET switching for clickless insertion into the signal path.
  - LED indicator shows the status of the effect and battery condition.
  - No tools access to the battery compartment.
  - Adapter jack for A. C. operation.
  - Rugged die cast metal case.
  - Three year limited warranty.
  - Rubber non-skid bottom.

## CONTROLS

**PROCESS LEVEL CONTROL:** Adjusts the amount of signal processing.

**LED PROCESS LEVEL INDICATOR:** Shows the amount of signal processing.

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

**LED INDICATOR:** Lights up when the EDGE signal processor 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.)

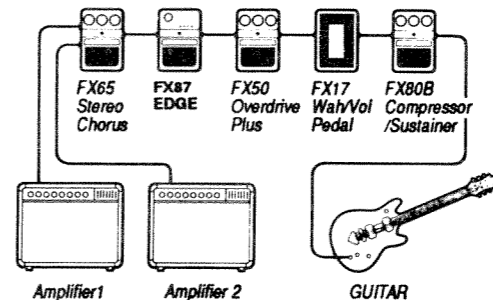
## OPERATION OF THE FX87

A single control on the FX87 EDGE, the PROCESS LEVEL CONTROL, adjusts the amount of signal processing. Your ear determines the appropriate amount of processing according to



what sounds best. The EDGE process is a subtle addition or correction to the sound of your instrument. Over use of the processor will result in an excessive bright or harsh sound. The LED PROCESS LEVEL indicator shows how much processing is being done to the original signal. Flashing of the red LED shows an overload of the processor and should be avoided.

A stereo multiple effects setup using the FX87 might look like this:



## IMPORTANT NOTES

- Rubber non-skid bottom. When you're not going to use the FX87 be sure to unplug the INPUT jack to save the battery.
- When the FX87 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 weak. Replace it.

- If you are not going to use the FX87 for a long time, remove the battery to avoid possible damage to the unit from leaking battery fluids.

- It is a good idea to keep a fresh battery in the battery compartment while you're playing the FX87 so even if the A. C. adapter should accidentally come out, your FX87 will continue to work.

- Unauthorized repair of the FX87 will void the warranty. Should your FX87 require service, contact your DOD FX pedal dealer for return/repair information.

## CHANGING THE BATTERY

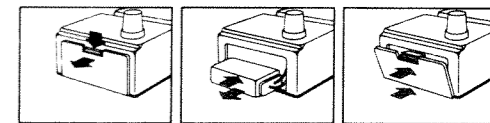


Figure 1

Figure 2

Figure 3

Figure 1: Push battery compartment cover tab down and pull out at top.  
Figure 2: Remove battery, snap on new battery and replace as shown.  
Figure 3: Insert compartment cover in groove and push closed to latch.