

FX-17 WAH/VOLUME CONTROLLER PEDAL

Instruction Manual

5. If this product is battery operated: Batteries are not supplied by this warranty. Please remove used batteries in order to prevent 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 previously manufactured units.

7. The foregoing is in lieu of all other warranties, expressed or implied, and DOD neither assumes nor authorizes any dealer 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 performance of the warranty due to causes beyond their control.

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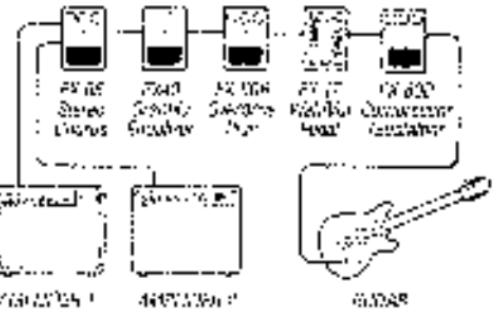
H A Harman International Company

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Printed in USA

Made in USA

A stereo Wah/volume effect setup using the FX-17 WAH/volume control pedal might look like this:



IMPORTANT NOTES

- When you're not going to use the FX-17 be sure to unplug the AC power cord to save the battery.
- When there is a lot of vibration present in the unit, the battery is probably used up and needs to be replaced.
- If you are not going to use the FX-17 for an extended period of time, remove the battery to avoid possible damage to the unit from leaking battery acids.
- It is a good idea to keep a fresh battery in the battery compartment while you're playing the FX-17 even if the AC adapter should accidentally come out; your FX-17 will continue to work.

- The use of any other AC adapter other than a DOD P-2-3 or DOD X-105 will void the warranty of this product.
- Unauthorized repair of this FX-17 will void the warranty. Should your WAH/volume pedal require service, contact your DOD AC pedal dealer for return/repair information.

CHANGING THE BATTERY

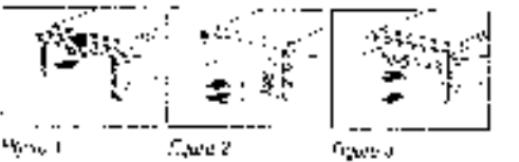


Figure 1: Push battery compartment cover flat, cover and push unit at top.

Figure 2: Remove used battery. Replace with an EVERLITH® 9-volt Ni-Cd 215 (NEDA 1044) or EVERLITH® 9V Ni-Cd P* 9-volt battery (no. 522). 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
Band Width: 40 Hz to 15 KHz

Resonance Range: 230 Hz to 4.1 KHz
Gain: Variable, -40 dB to +20 dB
Maximum Output Level: 6 dBu
Control Voltage Range: 0.1 to 400 mV with 4.7K
Control Voltage Output Resistance: 1 ohm
Signal to Noise Ratio: >90 dB
Power Supply: One 9 volt battery or DOD P-2-3 or
DOD FX-105 AC adapter
Size: 5 inches L x 3 inches W x 2 inches H
(127 mm x 76 mm x 51 mm)
Weight: 1.2 lbs. (550 g)

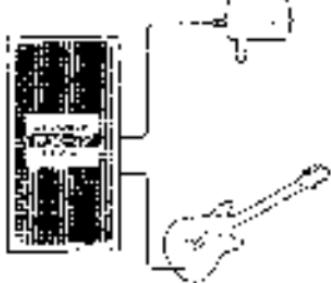
DOD WARRANTY

- The warranty registration card must be mailed within ten days after purchase date to validate this warranty.
- DOD warrants this product, when used solely within the U.S., to be free from defects in materials and workmanship under normal use and service.
- 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 products use in any circuit or assembly.
- Proof of date of purchase is considered to be the burden of the consumer.

DESCRIPTION OF THE FX-17 WATT/VOLUME CONTROL PEDAL

The FX-17 is unique in having three functions: a VOLUME foot switch, a VOLUME control pedal, and a 1/4" GUITAR output jack. The VOLUME of the volume control is selected by a push switch located on the side of the pedal. The FX-17 is an "industrial" design pedal. Using proprietary techniques, this two-wheeler-style pedal does away with the strings and the knobs that cover up internal parts that wouldn't normally be exposed so easily. When the foot pedal is pushed all the way back to the "VOLUME" mode, a switch is depressed bypassing the VOLUME effect. The 0 to +5 volt output can be used as a synth, sequencer pedal as well as play devices that require a volume control. The FX-17 is battery or A.C. power protected, and will fit heavy gauge steel to get a better feel.

HOW TO CONNECT THE FX-17



Connect the INPUT jack of the FX-17 to your instrument with a 1/4-inch audio phone plug. To use the 5 to -5 volt control voltage output, connect the switch you wish to connect to the FX-17 with a mono 35mm binding post. If you're not going to use the FX-17 be sure to unplug the INPUT jack so as not to waste the battery. When 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 your 9V AC/DC 120mA or the 110V FX-100 power supply to the 110 mm A.C. adapter cover jack.

CONTROLS

FOOT PEDAL, INPUT JACK. The action of the 100% PEDAL in the VOLUME mode creates the "WALL-WALL" effect. The position of the FOOT PEDAL in the VOLUME CONTROL mode determines the amount of silence or volume of the signal allowed to pass. The position of the FOOT PEDAL also determines the voltage output from the 1/4" control voltage jacks.

JACKS INPUT, A.C. ADAPTER. Use either the DOD PS-2 or 110V FX-100 power supply to eliminate the need for batteries. INPUT is 110 to -5 VOLTS CONTROL VOLTAGE OUTPUT

IMPORTANT NOTE: Do not try other A.C. adaptors with a 110V PS-2 or 110V FX-100 and the success of the pedal!

FEATURES

The FX-17 is capable:

- as a "WALL-WALL" effect for the electric guitar voice, horn, any electrically amplified instrument
- as a volume control for electrically amplified instruments, etc.
- as a 0 to +5 volt control pedal for devices which use a 0 to -5 volt to control a operating "fader"
- The FX-17 uses proprietary techniques to operate the WALL volume and control voltage functions eliminating metal knobs that could reheat, pit the laminate scratches, or mechanisms that wear out.

The FX-17 also features:

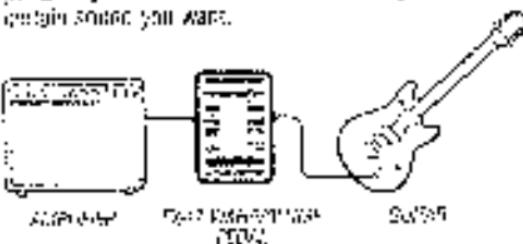
- Rubber non-slip foot pad
- No tools, easy access battery compartment
- Adapter jack for A.C. operation
- Rugged heavy gauge steel case
- Three-year limited warranty
- 10 other non-skid options

OPERATION OF THE FX-17

Wall-Wall Mode

To put the FX-17 into the VOLUME/WALL mode press the switch on the right side of the pedal. (i.e. Tipping the foot pedal all the way over firmly depresses a small switch in the base of the pedal and disengages the VOLUME effect). To re-engage the VOLUME effect

tip the foot pedal up so it was back to the right to re-engage the switch. The VOLUME switch engages a circuit charge up and down the second capacitor. The position of the foot pedal determines where the frequency boost occurs. The WALL/WALL effect is usually a sustained changing of the tone as you play. The pedal may not be set in one position to get a certain sound you want.



SETUP FOR USE AS A VOLUME PEDAL

Volume Control Mode

To operate the FX-17 pedal as the volume control, be sure to move the button on the right side of the pedal clockwise to the LEFT position. The position of the foot pedal determines the output level of the signal. When the pedal is tipped at the very back the output level is at its lowest. When the pedal is tipped at the very forward the output level is at maximum. You may wish to use a compressor (see the DOD FX-100 Compressor/Sustainer or Fender Bass Compressor) to give the volume pedal a more consistent and predictable level by packing

the source into a higher range. Note, the compressor below the FX-17 is a VCA. This is imperative when the FX-17's VOLUME control mode.

The 0 to +5 volt control output is active in either the WALL/WALL or volume control modes. This output is used to control some functions of synthesizers or other pieces of equipment. Connect the SWING output jack to the piece of equipment you want to control. The FX-17's 0 to -5 volt control will not operate if you are using a battery due to legal power requirements. You must use 3 DOD PS-2, 600V AC/DC 120mA or equivalent to use this function.

