

Fender[®]

**M-80 PRE-AMP
OWNER'S MANUAL**

P/N 038772

FENDER

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The FENDER M-80 PRE-AMP is a masterful combination of radical new distortion technology and time tested **Classic FENDER Sounds** packaged together in a one rack space configuration which is both easy to use and inherently reliable.

The M-80 PRE-AMP Clean Channel features the standard compliment of Volume, Treble, Mid and Bass and the Overdrive Channel features Gain, Volume, and separate EQ consisting of Contour and Presence controls. The FENDER Contour control will continuously vary your sound from smooth and bluesy to a honky bite or all the way or all the way to ten for the crunchiest metal sounds around. You get *searing smooth* highs backed by *deep* punch. The presence control gives you continuous adjustment of the highs to allow the M-80 to cut through in any playing situation without being overbearing. The extreme sensitivity of the overdrive channel defies comparison. With its unending sustain capability you may find that playing on ten is just too much; but it's still there if you want it.

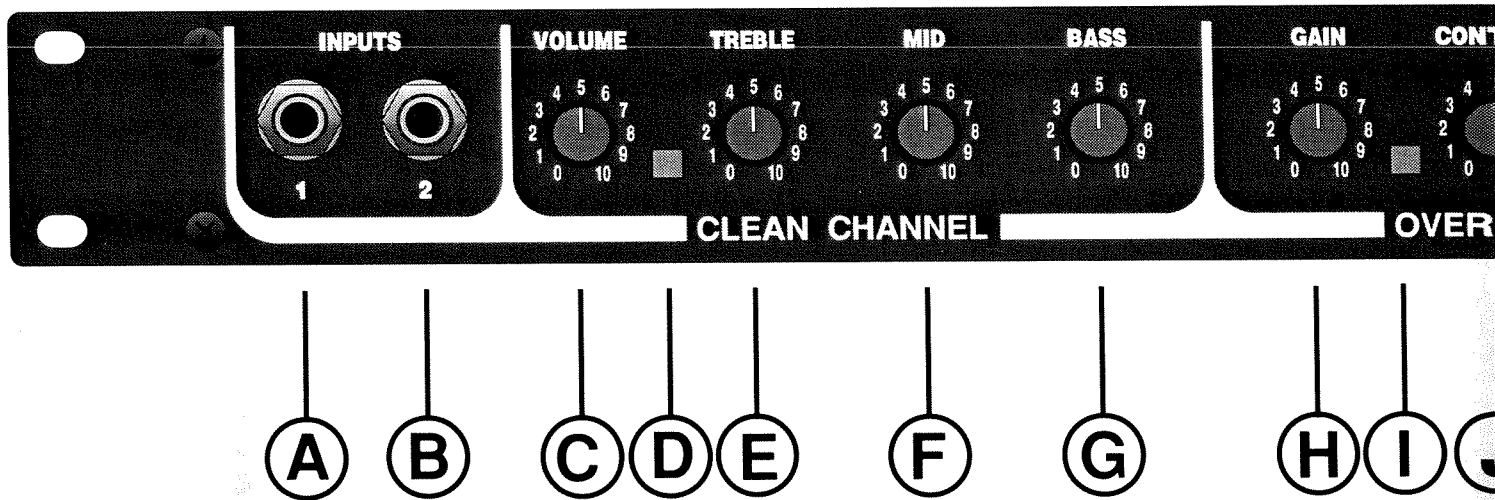
The M-80 PRE-AMP features a detachable 2 button footswitch for selecting the Overdrive Channel and switching the Effects Loop on and off. Standard 1/4 inch phone jacks are used for ease of connection or extension of the footswitch to remote pedal boards. The Effects Loop in the M-80 PRE-AMP can be used in both mono and stereo applications. The addition of "stereo returns" allows stereo effects units to be interfaced perfectly to the M-80 PRE-AMP and the stereo signal then sent to the power amplifier. The Effects Loop includes FENDER'S exclusive 3 position Level Selector Switch and Gain Offset Control to precisely match the correct level requirements for your personal set of outboard effects. This will insure optimum signal to noise performance for your system. A dedicated Level Control connected to the Headphone Output gives maximum flexibility during private practicing.

The selection of a FENDER electronic product will reward you with years of quality music in a wide range of controlled sounds. This manual is designed to familiarize you with the equipment and to acquaint you with its many fine features. Read it carefully so that you will benefit from all the features as soon as you start using the amplifier.

The built in quality of FENDER products is the result of over three and a half decades of dedication in the combined skills of research and development by our engineers and leading musicians around the world.

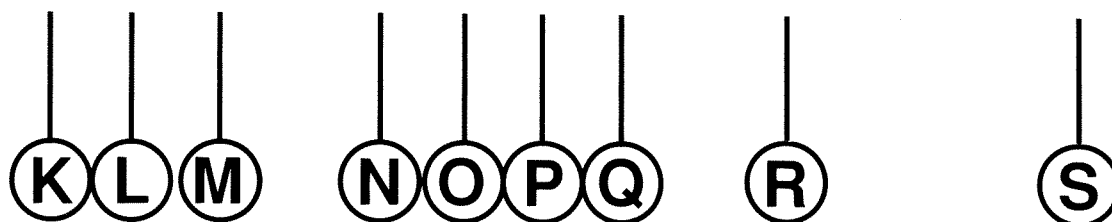
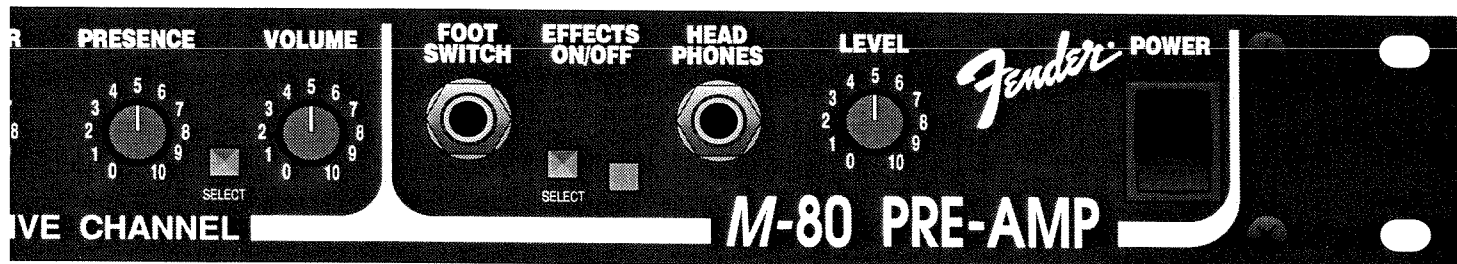
That is why we say, proudly...**FENDER, The Sound That Creates Legends.**

WARNING: TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE AMPLIFIER TO RAIN OR MOISTURE.



M-80 PRE-AMP FRONT PANEL FUNCTIONS

- A. INPUT 1-** A high impedance, high sensitivity plug-in connection for instruments.
- B. INPUT 2-** A plug-in connection for instruments. This input exhibits a lower input impedance and sensitivity than **INPUT 1** and is useful with active preamp guitars, and will provide a darker tone with passive guitars. Both inputs are identical when used simultaneously.
- C. VOLUME-** Adjusts the overall loudness while in the **CLEAN** channel.
- D. CLEAN MODE INDICATOR-** This LED is illuminated when operating in the **CLEAN** channel.
- E. TREBLE-** Adjusts the amount of boost (accentuation) or cut (attenuation) in the high frequency range of the **CLEAN** channel.
- F. MID-** Adjusts the amount of boost or cut in the mid frequency range of the **CLEAN** channel.
- G. BASS-** Adjusts the amount of boost or cut in the low frequency range of the **CLEAN** channel.
- H. GAIN-** Adjusts the amount of preamp amplification while in the **OVERDRIVE** channel. Cleaner sound is achieved at lower gain settings, high gain settings will produce more sustain and distortion. This control works in conjunction with the **OVERDRIVE-VOLUME** control to set the overall loudness at the output.
- I. OVERDRIVE INDICATOR-** This LED is illuminated when operating in the **OVERDRIVE** channel.
- J. CONTOUR-** Adjusts the overall tone quality of the **OVERDRIVE** channel. Low contour settings will provide emphasis in the midrange frequencies whereas a higher setting will notch the midrange to produce a "Crunch" sound, characteristic of most Heavy Metal music.



K. PRESENCE- Adjusts the amount of boost or cut in the upper high frequency range while in the OVERDRIVE channel. This control occurs post preamp distortion and is useful in adjusting the distortion characteristic from smooth to brash.

L. CHANNEL SELECT- Activates the OVERDRIVE channel. **NOTE: This switch disables the Channel Select Footswitch.**

M. VOLUME- Adjusts the overall loudness while in the OVERDRIVE channel.

N. FOOTSWITCH- Plug-in connection for remote footswitch to switch between the CLEAN channel and the OVERDRIVE channel, also switches the effects loop on and off.

NOTE: Any good quality patch cord will work with the remote footswitch, however a speaker grade cord is preferable to a coax guitar cord when it's available.

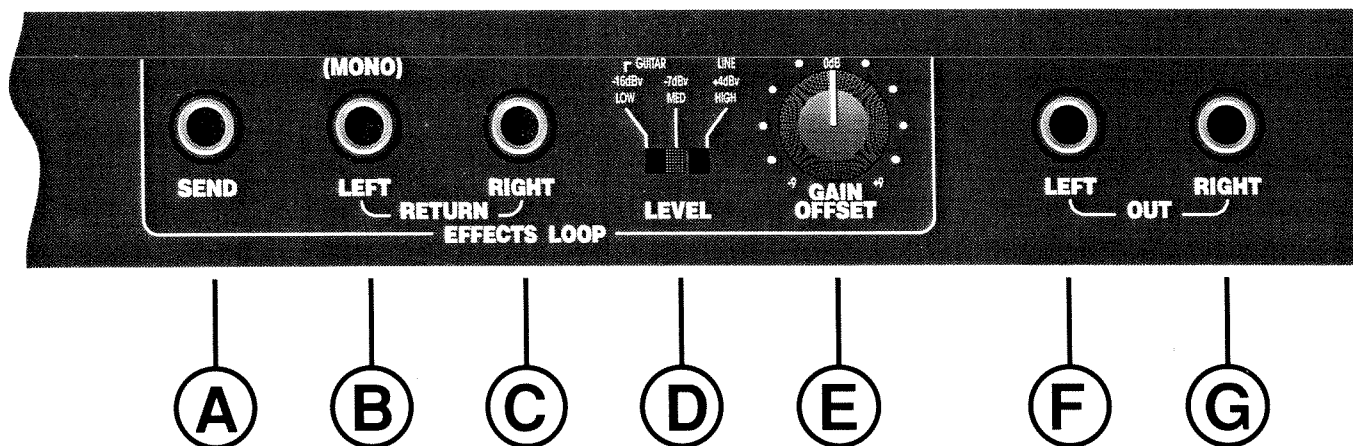
O. EFFECTS SELECT- Activates effects loop. **NOTE: This switch disables the Effects On/Off Footswitch.**

P. EFFECTS INDICATOR- This LED is illuminated when the effects loop is activated.

Q. HEADPHONES- This jack provides an output to standard stereo or mono headphones for private listening. **CAUTION: Prolonged listening at high levels may be hazardous to your hearing!** This jack can also be used as an unbalanced line output, which is post effects-loop, by using either a stereo or mono 1/4 inch phone plug connection.

R. HEADPHONE LEVEL CONTROL- Adjusts the loudness of the headphones.

S. POWER SWITCH- Turns AC power ON and OFF. When the switch is OFF the amplifier is completely shut down.



M-80 PRE-AMP REAR PANEL FUNCTIONS

A. SEND- This unbalanced jack provides an output signal from the preamp. It is used to patch into effects.

B. RETURN LEFT- This balanced jack provides a return from effects gear. This jack can be used alone to get the same “wet” (effects) signal out of both LEFT OUTPUT and RIGHT OUTPUT jacks when the EFFECTS INDICATOR is on.

C. RETURN RIGHT- This balanced jack provides a return from effects gear. This jack can be used alone to get the “wet” signal at RIGHT OUTPUT and the “dry” (pre-effects loop) signal at LEFT OUTPUT when the EFFECTS INDICATOR is on.

(If both RETURN jacks are used, the OUTPUTS will be in stereo when the EFFECTS INDICATOR is on.)

D. LEVEL SWITCH- This switch directly affects the SEND jack by boosting or attenuating the signal sent to the effects.

E. GAIN OFFSET- This control adjusts the gain of the signal coming in from LEFT RETURN and/or RIGHT RETURN.

F. LEFT OUTPUT- This is a quasi-balanced final output signal from the preamp that will carry either the “wet” LEFT RETURN signal (if EFFECTS INDICATOR is on) or the “dry” signal (with EFFECTS INDICATOR off).

G. RIGHT OUTPUT- This is a quasi-balanced final output signal from the preamp that can be used with the LEFT OUTPUT in mono applications (if nothing is plugged into RIGHT RETURN or EFFECTS INDICATOR is off) or as a separate stereo channel (when RIGHT RETURN is used and the EFFECTS INDICATOR is on).

IN EFFECTS LOOP

NOTE: USE STEREO PATCH CORDS WHENEVER POSSIBLE.

LINE CORD

This amplifier is equipped with a grounding type supply cord to reduce the possibility of leakage current. Be sure to connect it to a grounded receptacle. Operation from an ungrounded (two pronged) AC receptacle requires a three to two contact grounding type adapter. Be sure to connect the adapter's grounding lead to a good earth ground.

DO NOT ALTER THE AC PLUG.

TROUBLESHOOTER'S CHECKLIST:

If the amp is set up but does not function, check the following items:

- Is the amp power cord properly plugged into an electrical outlet?
- Is there power at the outlet?
- Are all the control knobs turned up above four?
- Is the volume control on the instrument turned up?
- Is your instrument properly plugged into the amplifier?
(Eliminate any effect pedals and try another guitar cord.)

If, after checking all of the above, the system is still not performing correctly, consult your Fender Service Dealer.

SPECIFICATIONS

INPUT IMPEDANCE: INPUT 1 only: Greater than 1 Meg Ohm.
INPUT 2: 65k Ohm.

OUTPUT IMPEDANCE: LEFT OUTPUT.....1k Ohm
RIGHT OUTPUT...1k Ohm

NOMINAL LEVEL: INPUT 1 only: 100 mV.
INPUT 2: 200 mV.

EFFECTS LOOP: Nominal Level -4, +7, +16dBV.
(With output at "0"dBV) Send Impedance 3.9k Ohm Max.
Gain Offset Max. Input (Return) Impedance.. 41k Ohm.

POWER REQUIREMENTS: 120 Volts AC 60 Hz.
.250 Amps Max., 30 Watts Max.

DIMENSIONS: HEIGHT: 1 23/32" (44cm)
WIDTH (BODY): 17 1/8"
WIDTH (PANEL): 19"
DEPTH: 5 1/2"
WEIGHT: 6 lbs.

SOUND: "KICKS*!".

BLOCK DIAGRAM

