

**Fender<sup>®</sup>**

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**M-80 SERIES  
OWNER'S MANUAL**

P/N 032079

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# M-80 OWNER'S MANUAL

The Fender M-80 amplifier is a straight ahead combination of radical new distortion sounds and time tested *Classic Fender Sounds* packaged together in a Solid-State configuration which is both easy to use and inherently reliable.

The M-80 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 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.

In addition to convenience features like *All Front Panel Mounted Controls and Jacks*, the M-80 features a detachable footswitch for selecting the Overdrive Channel. Standard 1/4 inch phone jacks are used for ease of connection or extension of the footswitch to remote pedal boards. The PREAMP-OUT & POWER AMP-IN jacks can be used as an EFFECTS LOOP or as Send and Return points while slaving multiple amps together or for direct connection to recording and sound reinforcement mixers. The possibilities are endless (ie: by inserting a Chorus pedal between the PREAMP-OUT of one amp and the POWER AMP-IN of another, a true stereo image effect can be achieved.) The HEADPHONE jack automatically mutes the speaker in addition to driving Stereo or Mono headphones and can also be used as a line out.

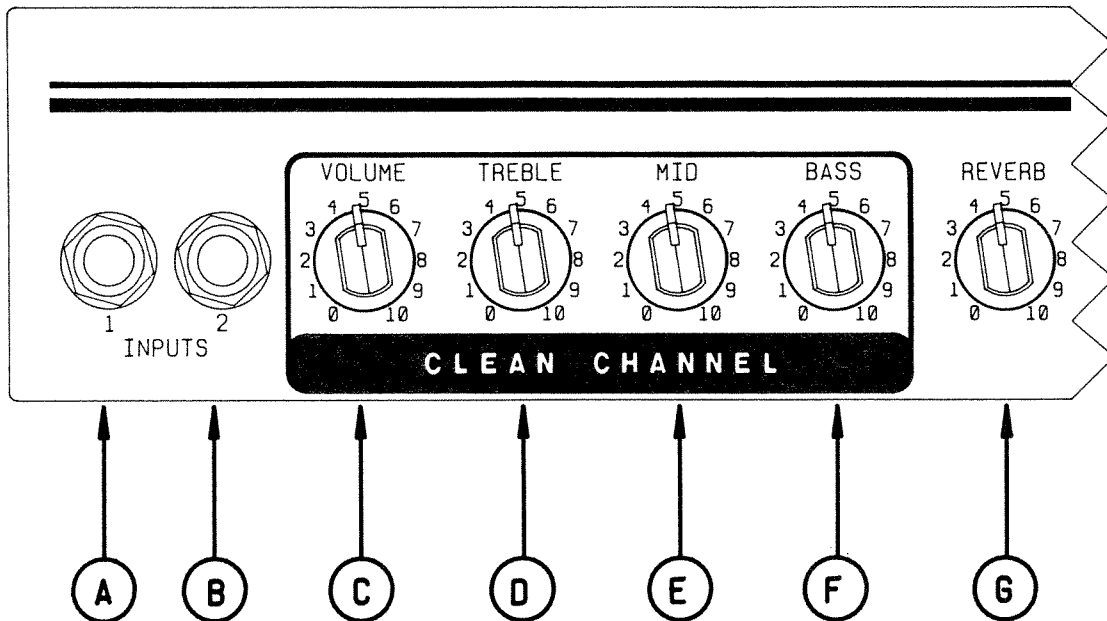
Last, but definitely not least, the Fender M-80 packs a new power amp that is based on a radically underdamped design that interacts with the speaker in much the same way as a tube amplifier does, producing sparkle and punch with an increase in apparent loudness and power that defies comparison to other similarly rated units. Also included is a sophisticated, transparent protection scheme designed to completely prevent amplifier failure due to bad speaker cords or incorrectly connected speaker jacks. These amps are LOUD, and can reliably put it out, night after night.

The selection of a Fender amplifier 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 a Fender amplifier is the result of over three and a half decades of dedication in the combined skills of research and development by our engineers and musicians.

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

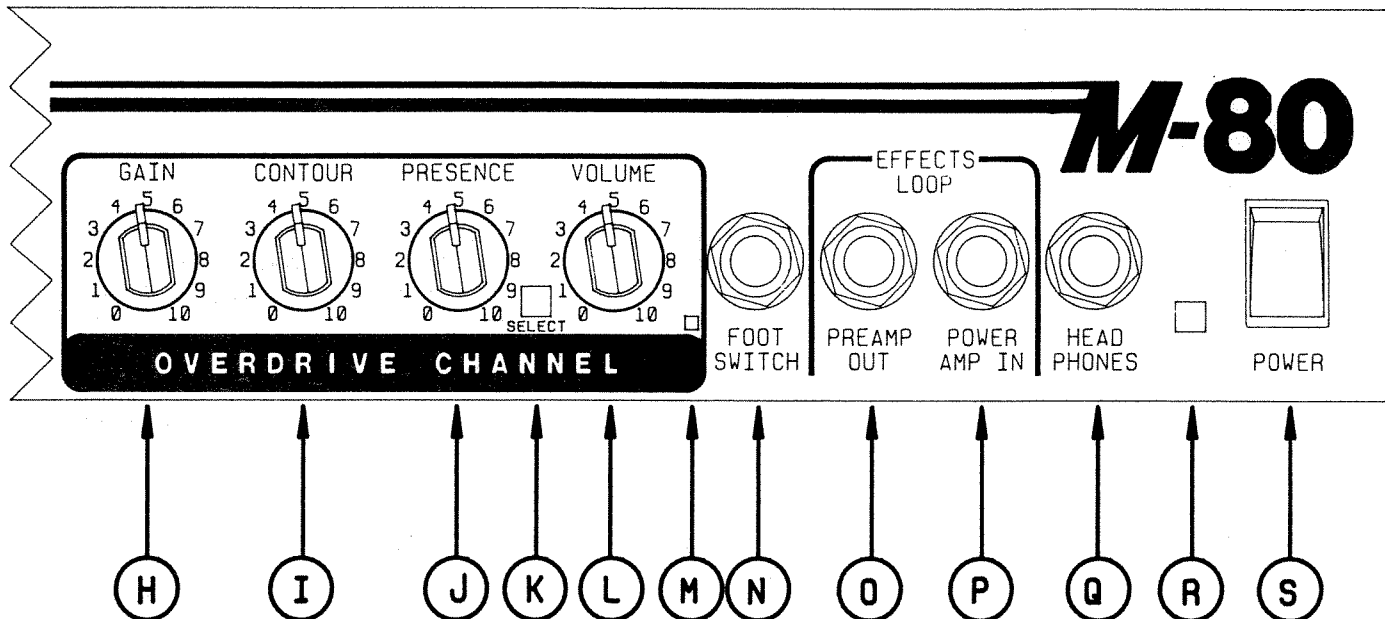
**WARNING:** TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE AMPLIFIER TO RAIN OR MOISTURE.



## M-80 FRONT PANEL FUNCTIONS

*(The diagram above corresponds to the M-80 combo amp. The front panel functions are identical for the M-80 head, only the order is reversed.)*

- A. **INPUT 1**—A high impedance, high sensitivity plug-in connection for instruments.
- B. **INPUT 2**—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 of the *CLEAN* channel.
- D. **TREBLE**—Adjusts the amount of boost (accentuation) or cut (attenuation) in the high frequency range of the *CLEAN* channel.
- E. **MID**—Adjusts the amount of boost or cut in the mid frequency range of the *CLEAN* channel.
- F. **BASS**—Adjusts the amount of boost or cut in the low frequency range of the *CLEAN* channel.
- G. **REVERB**—Adjusts the overall amount of reverberated signal mixed with the original dry signal for both the *CLEAN* and *OVERDRIVE* channels.
- 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. **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.
- J. **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.
- K. **SELECT**—Activates the *OVERDRIVE* channel. **NOTE: This switch disables the Channel Select Footswitch.**



- L. VOLUME**—Adjusts the overall loudness while in the *OVERDRIVE* channel.
- M. OVERDRIVE INDICATOR**—This LED is illuminated when in the *OVERDRIVE* channel.
- N. FOOTSWITCH**—Plug-in connection for remote footswitch to switch between the *CLEAN* channel and the *OVERDRIVE* channel. **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. PREAMP OUT**—This jack provides an unbalanced output signal from the preamp. This output can be used in conjunction with the **POWER AMP IN** jack as a patch point for effect units. This signal can also be used to feed recording and sound reinforcement mixers or to drive other M-80 amplifiers as slaves. This is done by connecting a standard guitar cord from the **PREAMP OUT** jack of the master amplifier to the **POWER AMP IN** jack of the slave.
- P. POWER AMP IN**—This unbalanced jack inputs signal directly to the power amp. It automatically disconnects the preamp signal when used. This is useful when using the effects loop option or using the M-80 as a slave amp.
- Q. HEADPHONES**—This jack provides an output to standard stereo or mono headphones for private listening. **NOTE: Use of this jack automatically disables the main speaker. 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. POWER INDICATOR**—When this indicator is illuminated the M-80 is receiving power.
- S. POWER SWITCH**—Turns AC power ON and OFF. When the switch is OFF the amplifier is completely shut down.
- 8-OHM EXT. SPEAKER JACK**—(On Combo and Head models.) Plug-in connection on rear panel for 8 Ohm speakers only.
- 4-OHM EXT. SPEAKER JACK**—(On Head models only.) Plug-in connection on rear panel for a single 4 Ohm speaker or a second 8 Ohm speaker in addition to an 8 Ohm speaker connected to the other **SPEAKER JACK**.

## 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 adaptor. Be sure to connect the adaptor's grounding lead to a good earth ground. **DO NOT ALTER THE AC PLUG.**

## FABRIC CARE

The exclusive Fender fabric covering on your cabinet has been especially designed for years of lasting beauty. A very light soapy solution on a sponge may be used to remove dirt and residue that may accumulate on the surfaces. Be careful not to let any liquid come in contact with operating surfaces. **DO NOT** have the amplifier plugged into the power outlet when cleaning.

## 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?
- Is the speaker properly connected to the amplifier?
- 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.

# M-80 SPECIFICATIONS

**INPUT IMPEDANCE:** INPUT 1 only—Greater than 1 meg Ohm. INPUT 2—65k Ohm.

**NOMINAL LEVEL:** INPUT 1 only—100 mv., INPUT 2—200 mv.

**POWER OUTPUT:** 94 Watts R.M.S.

**RATED LOAD IMPEDANCE:** 4 Ohms.

**EFFECTS LOOP:** Nominal Level—-10dBv.  
Output Impedance—1k Ohm.  
Input Impedance—41k Ohm.

**POWER REQUIREMENTS:** 120 Volts AC 60 Hz. 2.5 Amps Max., 300 Watts Max.

## DIMENSIONS:

MODEL	PART NUMBER	HEIGHT	WIDTH	DEPTH	WEIGHT
M-80 Combo	22-5900	18 $\frac{1}{4}$ " (46cm)	19 $\frac{1}{2}$ " (50cm)	9 $\frac{1}{2}$ " (24cm)	32 lbs. (14.5kg)
M-80 Head	22-5907	11 $\frac{1}{4}$ " (29cm)	29 $\frac{3}{4}$ " (76cm)	9 $\frac{3}{4}$ " (25cm)	30 lbs. (13.6kg)

**SPEAKER COMPLEMENT:** M-80 Combo: One 8 Ohm Fender Special Design 12 inch speaker (P/N 025923).  
M-80 Head: HM 4-12A Slant Front (P/N 21-1618) & HM 4-12B Straight Front (P/N 21-1619).

**SOUND:** "KICKS \*!".