

Fender[®]

**R.A.D.
BASS**

**OWNER'S
MANUAL**

MANUAL NO. 038755

T H E S O U N D T H A T C R E A T E S L E G E N D S

INTRODUCTION

The Fender R.A.D. BASS amplifier is the most recent effort in state-of-the-art bass amplifier technology. The Fender design team developed the R.A.D. BASS with the aid of some of today's best players, and represents years of consideration in the determination of performance, features, and specifications. The features included in the R.A.D. BASS make it a viable and tough competitor whether meeting the demands of a serious practice session, recording studio monitor system or just *jammin'!*

The pre-amp section of the R.A.D. BASS features two inputs of differing sensitivity, that allow connection of a variety of signal sources and levels. Built in emphasis circuitry is included to provide enhancement of the extreme low and high ends of the frequency spectrum. Wide range active "HIGH," "MID," and "LOW" controls allow further response tailoring of the high, mid, and low frequency areas of the sounds you and your instrument produce. The rugged 25 watt power amplifier

was designed to give years of reliable service under all conditions and is equipped with a unique implementation of our exclusive DELTACOMP adaptive compression system. When DELTACOMP engages, it is practically impossible to cause the power amplifier to clip (distort). With DELTACOMP, apparent compressor release time is kept short yet waveform distortion is kept to a minimum at low frequencies.

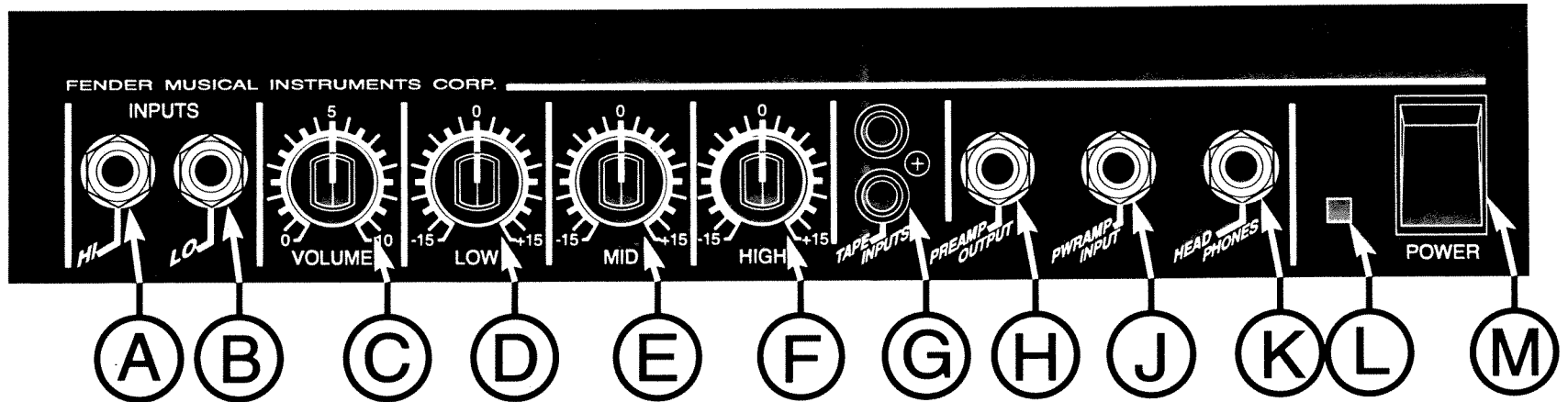
A number of professional features have been added to the R.A.D. BASS like PREAMP OUT AND POWER AMP IN Jacks which can be used as an Effects Loop. The PREAMP OUT is connected to the input of your effect (digital delay or other effects device) and the output from the effect is returned to the POWER AMP INPUT. The PREAMP OUT can also be used to directly connect your R.A.D. BASS to a recording console or sound reinforcement mixer. The HEADPHONE jack automatically mutes the speaker in addition to driving Stereo or Mono headphones.

The selection of a Fender amplifier will reward you with years of quality music in a wide range of sonic possibilities. This manual is designed to familiarize you with the features and functions of your R.A.D. BASS amplifier. Read this manual carefully so you will benefit from these features as soon as you start using your new Fender amplifier.

The built-in quality of a Fender amplifier is the result of over four decades of dedication in the combined skills of the Fender design team. That's why we say, proudly, FENDER, The Sound That Creates Legends.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNIT TO RAIN OR MOISTURE.

FRONT PANEL DESCRIPTION



The front panel contains all items necessary for system operation and observation. Please read this section of the manual carefully to make sure you understand all the operational features of your new FENDER R.A.D. BASS amplifier.

A. HI INPUT

B. LO INPUT

The high gain input (HI INPUT) should be used for most instruments. This input can handle as much as 3.5 volts R.M.S., while the low gain input (LO INPUT) accepts 7 volts R.M.S. without audible distortion. For

both cases, this is greater than any active bass with a 9 volt battery can produce. If you are using a bass with dual 9 volt batteries, or a "hot" passive bass, it might be wise to try INPUT 2. For the rare case where two players want to use one amplifier, or where two instruments are to be used during the performance, both inputs may be used.

C. VOLUME: This control sets the gain of the pre-amp and serves as an adjustment for the "loudness" of the amplifier.

EQUALIZATION: D. LOW—adjusts the low frequency part of the spectrum, the area where "deep" fundamentals reside.

E. MID—adjusts the mid frequency part of the spectrum. Turning the mid down will cause the sound to become "TIGHT" or more "PUNCHY."

F. HIGH—adjusts the high frequency part of the spectrum. Turning the HIGH up will cause the sound to become "BRIGHT" or more "CRISP."

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- G. **TAPE INPUTS:** Plug in connection for any line level (500mV) stereo or mono signal. This signal is mixed into the power amp along with the instrument signal from the preamp. It has fixed gain and is *unaffected* by any of the front panel controls; however, the signal will be affected by any device inserted between the PREAMP OUTPUT and the POWER AMP INPUT. It is useful for patching in a CD or tape player, rhythm machine or other signal source to be used as accompaniment for practice or performance. The output level control of the external VOLUME control is used for the instrument in order to obtain a balance. It is suggested to use a device with a level control on the output to adjust the proper playback level through the R.A.D. BASS. The headphone output on any device will provide an adequate signal.
- H. **PREAMP OUTPUT:** This jack provides an unbalanced output

signal from the preamp. This output can be used in conjunction with the J. PWR AMP INPUT as a patch point for external mono effects devices.

- J. **PWR AMP INPUT:** This unbalanced jack inputs signal directly to the power amp section. It automatically disconnects the pre-amp circuitry when used. This is useful when using the patch point option or when using the R.A.D. BASS as a slave amplifier for an external signal source.
- K. **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!**
- L. **POWER INDICATOR:** When this LED is illuminated, the R.A.D. BASS is receiving power.
- M. **POWER:** Turns the R.A.D. BASS on or off.

REAR PANEL DESCRIPTION

POWER RATING: This tells you how much AC power (75 Watts) the amplifier can "draw" from the wall socket when the amplifier is at full power. The marking directly below tells you what the wall socket Voltage and Frequency must be. Incorrect line voltage will damage your amplifier and **VOID THE WARRANTY.**

LINE CORD: The line cord should be connected to a suitable power source, with the correct voltage and frequency, as shown in the power rating at the amplifier rear. If you are not sure, check some other piece of equipment in your area. **DO NOT ALTER THE 3 PRONG PLUG.**

R.A.D. SPECIFICATIONS

POWER AMPLIFIER SECTION

POWER OUTPUT: 25 Watts

RATED LOAD IMPEDANCE: 8 Ohms

DISTORTION AT RATED POWER: 5%

POWER BANDWIDTH: 20 Hz to 20 kHz

INPUT SENSITIVITY (POWER AMP INPUT): .90 Volt R.M.S.

INPUT IMPEDANCE: >10k Ohms

PREAMP SECTION

INPUT IMPEDANCE: Input 1 >220k Ohms

Input 2 >110k Ohms

SENSITIVITY: Volume at maximum, all tone controls
at "0" detent, power amp at 25 Watts,
8 Ohms — Input 1, 10mV — Input 2, 20mV

EQUALIZATION RANGE: HIGH ± 15 dB at 8 kHz

MID ± 15 dB at 800 Hz

LOW ± 15 dB at 40 Hz

PHYSICAL SPECIFICATIONS

R.A.D. BASS (Fender P/N 022-4300-000)

WIDTH: 14-3/4 inches (37.5 cm)

HEIGHT: 18 inches (45.7 cm)

DEPTH: 10 inches (25.4 cm)

WEIGHT: 32 lbs. (14.5 kg)

SPEAKER: 1 - 10" Fender Special Design (P/N 038657)

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