

Fender[®]

THE SOUND THAT CREATES LEGENDS

BASS
EXTENDED
RANGE **BXR**
Two hundred
Owner's Manual

P/N 048951

INTRODUCTION

Congratulations on your purchase of the Fender BXR™ 200 Bass amplifier. The BXR 200 is Fender's most recent effort in state-of-the-art bass amplifier technology, and is a member of the FENDER BXR series. The design of the BXR 200 was carried out with the aid of some of today's best bass players, and represents years of thought and consideration in determining features and specifications. The features included in the BXR 200 will provide a forum for almost every conceivable playing style, from "traditional" to "contemporary", and those yet to come.

The preamp section of the BXR 200 features two inputs of differing sensitivities, allowing for the use of a wide variety of input sources and levels. A trio of ENHANCEMENT buttons are provided to enhance the low, mid, and high end of the frequency spectrum. HIGH and LOW shelving controls allow response tailoring of the high and low frequency sounds you and your instrument produce. The 9-band GRAPHIC EQ allows for up to 12 decibels of boost or cut in nine bands between 80 Hz and 8kHz. Processors from simple battery powered devices to professional rack mounted studio effects may be used at will. This facility is accomplished through the use of the back panel EFFECTS LOOP SEND and RETURN.

The rugged power amplifier is designed to give years of reliable service under all conditions. It is equipped with our exclusive DELTACOMP™ adaptive compressor system. With DELTACOMP, it is practically impossible to clip (distort) the power amplifier. The apparent release time of the compressor is short, yet distortion at low frequencies is kept to a minimum.

The inclusion of CHORUS infinitely widens the range of tonalities the BXR 200 can produce. By incorporating the chorus circuitry within the power-amp/compressor loop, the need for complicated and expensive compounding (quieting) circuitry has been eliminated.

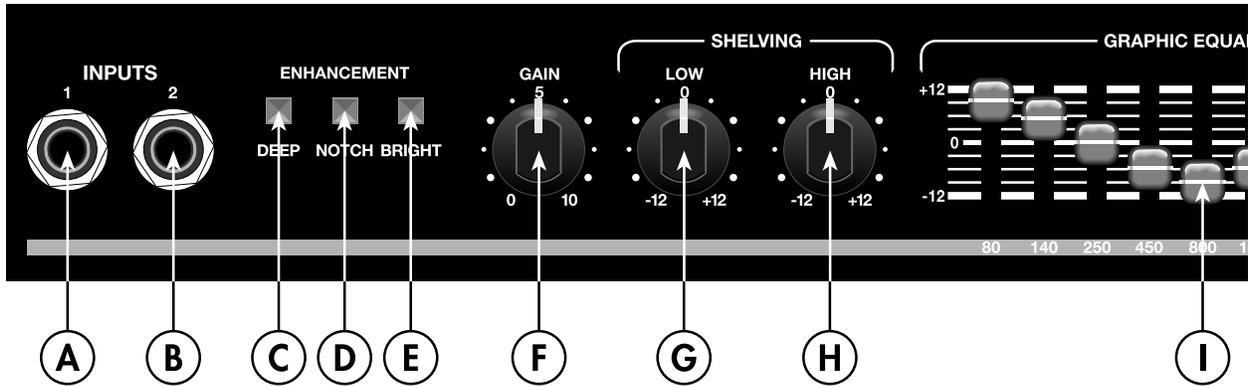
The BXR 200 incorporates a highly efficient, computer-designed, tuned-port cabinet, and delivers a full 200 watts R.M.S. to its single fifteen inch Fender Special design driver. The BXR 200 HEAD is designed to perform well with any high quality speaker system, but performs best when used with members of the FENDER BXR series, which include various combinations of ten inch and fifteen inch speaker enclosure systems.

The selection of a Fender amplifier will reward you with years of quality performance and a wide range of musical sounds. This manual is designed to familiarize you with the equipment and to acquaint you with its many features. Please read it carefully so 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 four decades of dedication, and the combined skills of research and development by our engineers and musicians.

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

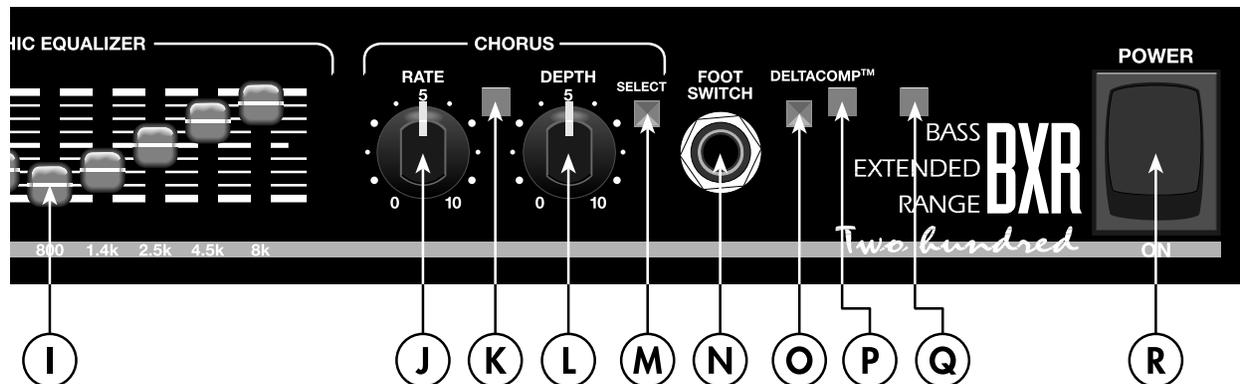
WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.



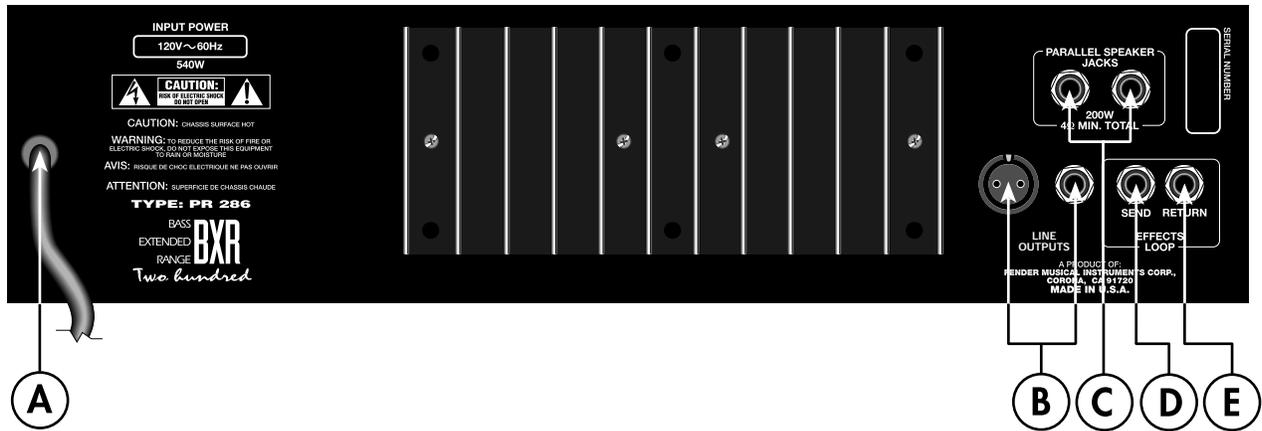
BXR 200 FRONT PANEL FUNCTIONS

The front and rear 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 for your new FENDER BXR 200 bass amplifier.

- A. **INPUT 1** - A high impedance, high sensitivity plug-in connection for instruments. This input can handle as much as 2.5 volts R.M.S., and should be used with most instruments.
- B. **INPUT 2** - Plug-in connection for instruments. This input is recommended for basses with active pickups, and can handle as much as 5 volts R.M.S..
- C. **DEEP** - Boosts and extends the low frequency response of the amplifier.
- D. **NOTCH** - Removes midrange, making the amp sound "punchy." This switch is good for "thump and pluck" playing.
- E. **BRIGHT** - adds high frequency "sparkle."
- F. **GAIN** - Adjusts the gain of the pre-amplifier and serves as an adjustment for the "loudness" of the amplifier.
- G. **LOW** - Adjusts the low part of the frequency spectrum, where the deep "fundamentals" reside.
- H. **HIGH** - Adjusts the high end of the frequency spectrum. Turning up the HIGH control will add "sparkle" to the sound.
- I. **GRAPHIC EQUALIZER** - Allows precise adjustment of the tonal characteristics of the amplifier. Each control provides a 12 dB boost or cut to narrow bands of frequencies centered about 80, 140, 250, 450, 800, 1.4k, 2.5k, 4.5k, and 8k Hz. The 80, 140, and 250 Hz controls are used to adjust the low, mid, and high fundamental notes of the bass. The 450, 800, 1.4k, 2.5k, 4.5k, and 8k controls allow adjustment of the timbre of the instrument, allowing for a very wide variety of tonal characteristics.
- J. **RATE** - Adjusts the sweep rate of the chorus generating circuitry. A lower number corresponds to a slower rate of sweep.



- K. **CHORUS INDICATOR** - This LED is illuminated when the chorus is active. The intensity of the LED is modulated by the chorus sweep low frequency oscillator (LFO) to give a visual indication of the sweep rate.
- L. **DEPTH** - Adjusts the intensity of the chorus effect. A lower setting will introduce a subtle yet distinct effect whereas a higher setting will create a more dramatic effect. With both the RATE (item J) and DEPTH controls set midway or higher, a variety of vibrato/tremolo type effects can be achieved.
- M. **SELECT** - Activates the chorus generating circuitry for a fuller, more colorful sound. NOTE: This switch disables the Chorus Select FOOTSWITCH (item N).
- N. **FOOTSWITCH** - Plug-in connection for remote footswitch to switch the CHORUS on and off. For proper operation of the footswitch, the CHORUS SELECT (item M) switch should be out. 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 is available.
- O. **DELTACOMP** - DELTACOMP is Fender's exclusive compressor circuit used in the BXR 200. This circuit is designed to prevent the power amplifier section from clipping and causing unwanted distortion. With the button "OUT," DELTACOMP is OFF. With the button "IN," DELTACOMP is ON, and a special ASYMMETRIC LIMITER circuit is enabled. The Asymmetric Limiter is designed to "smooth-out" any distortion caused when the power amplifier clips by adding even-order harmonics.
- P. **DELTACOMP INDICATOR LED** - This LED, when lit, indicates that the power amplifier has reached full power and that either DELTACOMP or LIMITING has occurred, depending on the position of the switch. The unit may seem louder without DELTACOMP, since the power amp will be allowed to go into clipping. With DELTACOMP on, your volume level will be rather loud before the compressor turns on; this is normal.
- Q. **POWER INDICATOR** - When this LED is illuminated, the BXR 200 unit is receiving power.
- R. **POWER** - Turns the BXR 200 unit "ON" or "OFF."



BXR 200 REAR PANEL

The above diagram corresponds to the BXR 200 HEAD. Orientation differs slightly on the BXR 200 COMBO.

- A. **LINE CORD** - This amplifier is equipped with a grounding type supply cord to reduce the possibility of shock hazard. Be sure to connect it to a grounded AC receptacle. The line cord should be connected to a suitable power source, in accordance with the voltage and frequency as shown in the power rating on the rear panel. **DO NOT ALTER THE THREE PRONG PLUG.**
- B. **LINE OUTPUTS** - These two outputs are derived from the speaker outputs, and are at line level, similar to that of the EFFECT LOOP SEND jack (item D). LINE OUT includes the effects of DELTACOMP and CHORUS if selected, and can be used to drive slave amplifiers for more output. It can also be used in the studio, with proper equalization, as a recording output.
- C. **SPEAKER OUTPUTS (Head Only)**- Speaker connections are four ohms minimum total. The two jacks are wired in parallel. The BXR 200 HEAD is not designed for speaker loads lower than 4 ohms total.
- D. **EFFECTS LOOP SEND** - This jack provides an unbalanced mono output signal from the preamp at a point before the internal chorus circuits. This output can be used in conjunction with the RETURN (item E) as a patch point for external mono effects devices. The

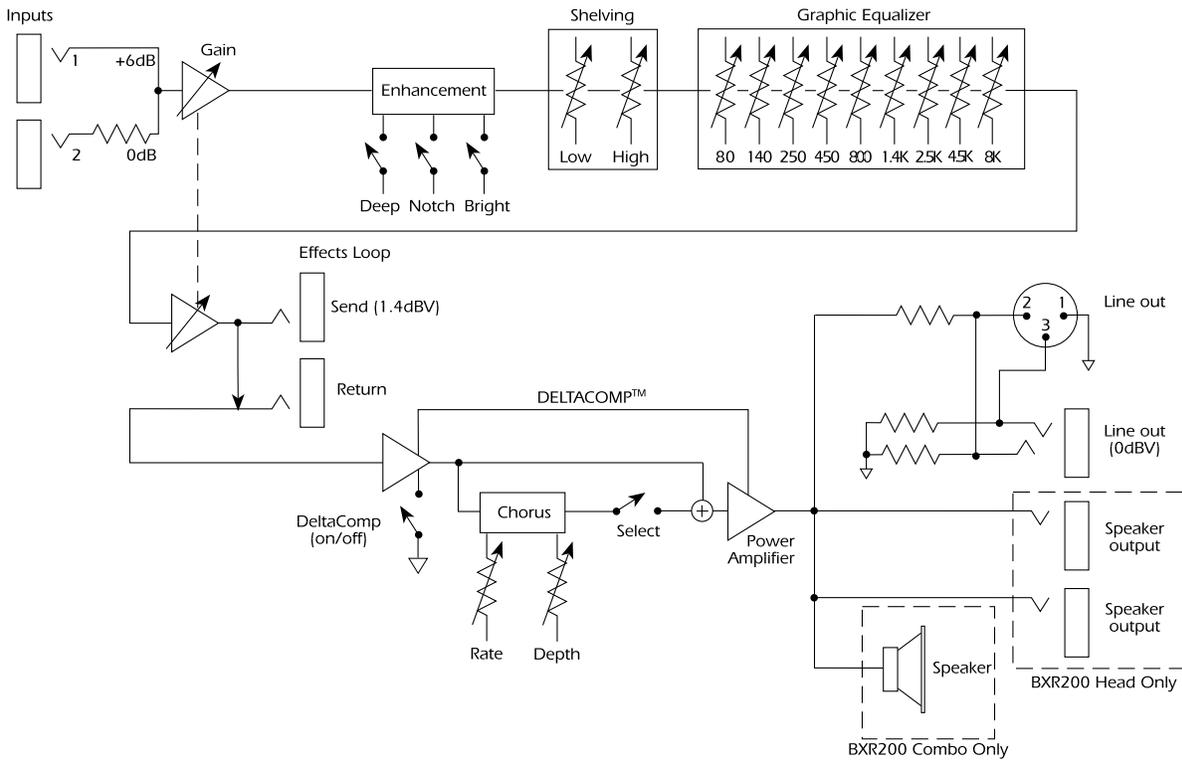
SEND can also be used to feed recording and sound reinforcement mixers a dry signal. For a signal with internal CHORUS, use the rear panel LINE OUT jack, (item C). Additionally this output can be used to drive another BXR 200 as a slave amp. This is done by connecting a standard guitar cord from the SEND jack of the master amplifier to the RETURN jack of the slave.

- E. **EFFECTS LOOP RETURN** - This unbalanced jack inputs signal directly to the chorus generating circuitry, which then drives the power amp section. It automatically disconnects the preamp circuitry when used. This is useful when using the Effects Loop option or when using the BXR 200 as a slave amplifier for a mono signal source. The CHORUS is active in the slave so that a chorused signal will be generated if selected.

COVERING CARE

The exclusive vinyl covering 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 in the fabric. Be careful not to let any liquid come in contact with operating surfaces. **UNPLUG THE POWER CORD BEFORE CLEANING.**

BXR 200 BLOCK DIAGRAM



TROUBLESHOOTER'S CHECKLIST

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

- Is the amp power cord 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?
- 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.

BXR 200 SPECIFICATIONS

Part Number:	COMBO	HEAD
100V	022-4475-000	022-4476-000
120V	022-4405-000	022-4406-000
230V	022-4465-000	022-4466-000
230V UK	022-4445-000	022-4446-000
240V AUSTRALIA	022-4435-000	022-4436-000

Type Specification: PR286

Power Requirements: 100V Version: 100VAC, 50/60Hz, 540W
120V Version: 120VAC, 60Hz, 540W
230V Version: 230VAC, 50Hz, 540W
240V Version: 240VAC, 50Hz, 540W

POWER AMPLIFIER SECTION:

Power output: 200W R.M.S.
Rated load impedance: 4 Ω
Distortion at 200 watts: Less than .1% @ 1 kHz, below compression
Less than 1% @ 1 kHz, maximum compression
Sensitivity: 1.03V R.M.S.
Input impedance: 22 k Ω
DELTA COMP (tm) range: 20 dB

PREAMP SECTION:

Input impedance: Input 1 - Greater than 420 k Ω (typically greater than 1 M Ω in the passband)
Input 2 - 136 k Ω
Sensitivity for 200 W: Input 1 - 2.2 mV
GAIN at maximum, all Input 2 - 4.4 mV
tone controls at "0" detent, no enhancement activated.
Shelving tone controls: LOW +/- 12 dB at 60 Hz
HIGH +/- 12 dB at 10 kHz
Graphic equalizer: +/- 12 dB at 80, 140, 250, 450, 800, 1.4k, 2.5k, 4.5k, and 8 kHz.

PHYSICAL SPECIFICATIONS:

BXR 200 COMBO	BXR 200 HEAD
Height: 25-1/2 inches (64.8 cm)	Height: 6-29/32 inches (17.5 cm)
Width: 21-1/2 inches (54.6 cm)	Width: 21-1/2 inches (54.5 cm)
Depth: 13-1/2 inches (34.3 cm)	Depth: 13-1/2 inches (34.3 cm)
Weight: 72 lbs. (32.7 kg)	Weight: 27 lbs. (12.3 kg)

Speaker: 15" 4 Ohm Fender Special Design (P/N 048941), Combo only.

WARNINGS: NO USER SERVICEABLE PARTS INSIDE, REFER SERVICING TO QUALIFIED PERSONNEL ONLY. THIS EQUIPMENT MUST BE EARTH GROUNDED.

A PRODUCT OF:
**FENDER MUSICAL INSTRUMENTS CORP.,
CORONA, CA 91720**