



Your new *Fender* custom-engineered Amplifier

## *Operators Guide*

There is a wealth of entertainment, pleasure and satisfaction in knowing you have purchased one of the world's finest amplifiers.

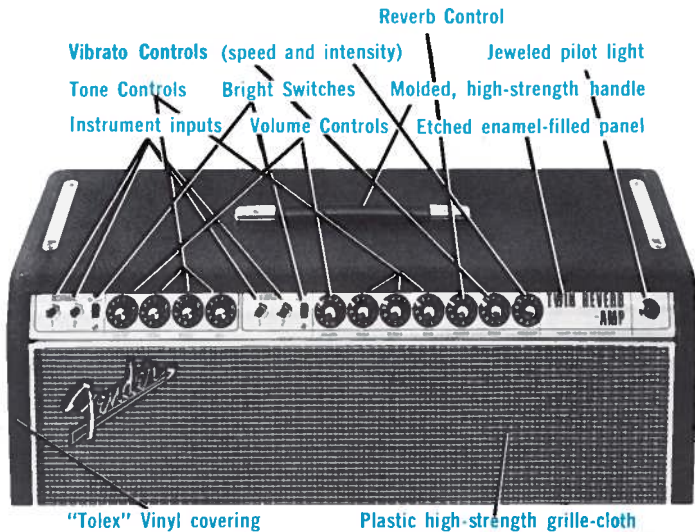
Fender Amps are designed to give the ultimate in the faithful reproduction of any sound, whether it is used with guitar, electric bass, steel guitar, accordion, organ, piano or any other associated instrument. It is also an excellent public address system or hi-fi record reproducer.

With proper knowledge of your new amplifier's many capabilities and superior qualities, you will be provided with continuous trouble-free service over a long period of time. Given proper care and intelligent use this outstanding piece of equipment will give you many hours of personal satisfaction.

Fender Amplifiers employ only the finest component parts, from specially designed transformers and speakers to the customized "Tolex" vinyl covering. Endless effort and thousands of engineering hours have been invested to provide the latest in circuitry as well as the best in styling and construction. The most recent manufacturing techniques assure you of a high-safety factor ruggedized electrical system and of unquestionable mechanical stability.

These are the qualities that keep Fender Amps operating under the most adverse conditions, through thousands of hours of use and countless miles of travel. It's no wonder that top musicians everywhere refuse to take a chance on a substitute . . . Fender costs no more yet lasts and lasts . . . never quits. In addition, each amplifier is backed by the Fender Company with a guarantee of complete customer satisfaction.

Specifications subject to change without notice.



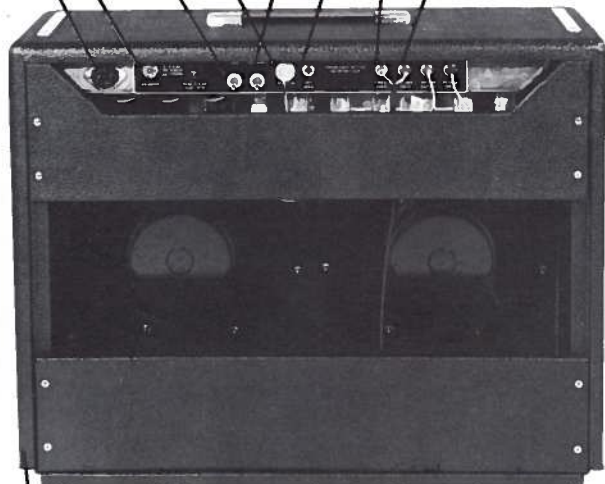
Champ Amp  
 Vibro-Champ Amp  
 Bronco Amp  
 Princeton Amp  
 Princeton/Reverb Amp  
 Deluxe/Reverb Amp  
 Vibrolux/Reverb Amp  
 Bassman Bassman  
 Super/Reverb Amp  
 Pro/Reverb Amp  
 Twin/Reverb Amp

Single Channel-Volume, Treble, Bass Controls  
 Single-Channel Volume, Treble, Bass Controls  
 Single Channel Volume, Treble, Bass Controls  
 Single Channel-Volume, Treble, Bass Controls  
 Dual Channels Volume, Treble, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Middle, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Middle, Bass Controls

Vibrato Controls  
 Vibrato Controls  
 Vibrato Controls  
 Reverb Control - Vibrato Controls  
 Reverb Control - Vibrato Controls  
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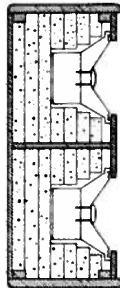
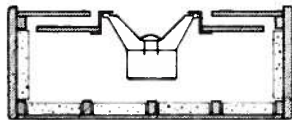
Bandmaster/Reverb Amp  
 Bassman Amp  
 Super Bassman  
 Dual Showman/Reverb Amp

Dual Channels-Bright Switches, Volume, Treble, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Middle, Bass Controls  
 Dual Channels-Bright Switches, Volume, Treble, Middle, Bass Controls



All models UL and CSA approved.

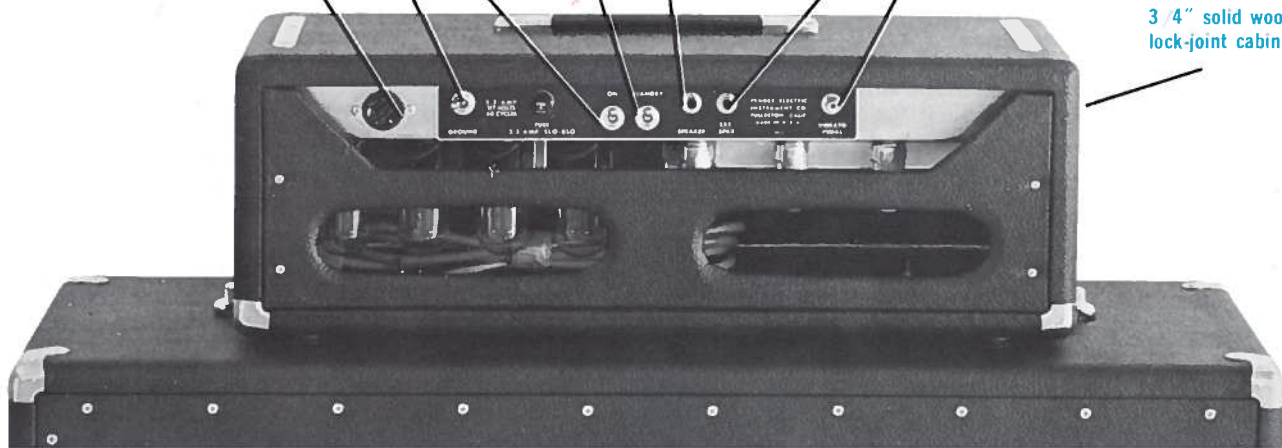
# Piggy-Back Amplifiers



Fender Speaker Enclosures offer the finest in amplified sound reproduction. The Speaker Projection Ring or dual baffles employed eliminate cancellation of front and rear radiation, thus permitting greater speaker efficiency and optimum performance of the enclosures.

- Ground Switch
- Standby Switch
- Speaker jack for external speaker
- AC Plug
- On-off Switch
- Speaker jack for internal speaker
- Vibrato Foot Switch jack

3/4" solid wood lock-joint cabinet



Volume Con  
Instrument i  
"Tolex" Vim



## Controls

**INPUT JACKS:** Instrument, echo or microphone input jacks. When only one instrument is used, place plug in number one jack. Microphones and hi-fi equipment should be used in number two jack.

**BRIGHT SWITCH:** Provides brilliancy to all notes but especially to the higher frequency notes.

**VOLUME CONTROL:** Provides volume settings from zero to full power output.

**TREBLE CONTROL:** Provides additional high frequencies to suit individual. Complimented by Bright Switch.

**MIDDLE CONTROL:** Adds a rich tone and accents middle register.

**BASS CONTROL:** Regulates desired amount of bass response.

**REVERB CONTROL:** Increases amount of reverberation.

**VIBRATO SPEED CONTROL:** Regulates the rapidity of the vibrato effect-variable from zero to extremely fast settings.

**VIBRATO INTENSITY CONTROL:** Provides variance and richness of vibrato tone.

**PILOT LIGHT:** Indicates when amplifier is turned on.

**AC PLUG:** An accessory socket for convenience in connecting an echo, reverb or other amplifier should a wall plug be unavailable.

**GROUND SWITCH:** Change position of this switch to eliminate line noise or hum resulting from an improperly polarized AC line.

**EXTRACTOR FUSE POST:** Fuse is easily accessible for replacement from back panel.

**ON-OFF SWITCH:** Turns the amplifier on and off.

**STANDBY SWITCH:** Allows the filaments of the amplifier to remain heated during standby periods. Amplification is instantly available without additional warm-up time—no danger of unwanted sounds during quiet periods.

**SPEAKER JACK:** Connects internal speaker(s) to amplifier.

**EXTENSION SPEAKER JACK:** Provides a connection to an extension speaker such as the Fender 12", 15" or "piggy-back" units when desired.

Molded, high-strength handle Vibrato Controls (speed and intensity)

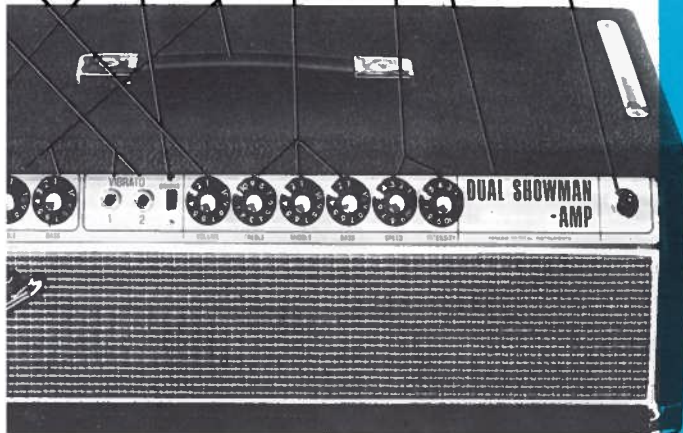
Bright Switches

Tone Controls

Etched enamel-filled panel

Jeweled pilot light

ing



## *Using your Fender Amplifier as a Record Player or FM-AM Reproducer*

Your Fender Amplifier is a superb reproducer for either your record player or radio tuner. Due to the extreme sensitivity of the input circuit of the amplifier it may be necessary to add a volume control in the line from the tuner or record player in order to prevent the overloading of the input stage of the amplifier. This overloading could cause distortion. Any capable radio or sound technician can accomplish this modification for a very nominal charge. Be certain, however, that the amplifier itself is not modified.

## *Using your Fender Amplifier as a Public Address System*

Your Fender Amplifier makes an excellent Public Address System when used in combination with a Fender or other good microphone and when proper audio techniques are employed.

The use of a high-quality microphone cannot be overemphasized, preferably a dynamic, uni-directional type. This type of microphone aids materially in reducing acoustic feedback. Acoustic feedback is the troublesome howl or roar that

occurs when the loudspeaker feeds sound back into the microphone where it is again fed to the amplifier and re-amplified until the sound builds to an earsplitting howl. In order to overcome this condition, several suggestions are offered:

1. Use a high-quality uni-directional microphone. This microphone must be high impedance and preferably of a dynamic type. Plug into number 2 jack in amplifier.
2. Keep the microphone as far from the loudspeaker as possible and always have the speaker cabinet forward and to the side of the microphone position.
3. Acoustic conditions vary in each room or building and experimentation with speaker and microphone placement will assure optimum results.
4. Tone control settings are most important when using an amplifier as a public address system; careful checking of various tone settings will often improve coverage and increase the intelligibility factor.

*Fender Musical Instruments is eager to be helpful in any instance where additional information is needed.*

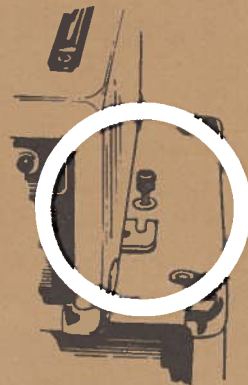
# Operating and Malfunction Tips

1. Turn on "on-off" switch first. Turn on "standby" switch only when amplifier is to be used.
2. Check position of "ground switch" to eliminate line noise, hum and popping noise caused by touching metal parts.
3. Set Volume Control to desired level. To prevent possible speaker damage always turn volume off when plugging instrument into input jack.
4. Set Tone Controls for desired amount of Bass and Treble.
5. When using Vibrato, both Speed and Intensity Controls must be turned on and remote foot switch must be on. If no foot switch is used, Vibrato may be turned off by rotating Intensity Control full counterclockwise to position "1".
6. The Twin/Reverb, Super/Reverb and Pro/Reverb (without Amp Stand) are equipped with Tilt-Back Legs. Simply pull chrome legs to the rear until they reach stops. Legs are now in a position to tilt your amplifier back for greater sound coverage.
7. Fender Amplifier Stands (optional for Super/Reverb and "Piggy-Backs") enable easy movement on and off stage and provide greater sound coverage. To adjust tilt degree, loosen large knobs on either side of stand and tighten again after obtaining desired tilt.
8. When using your Piggy-Back Amp in the "piggy back" manner, unscrew the mounting knobs on the speaker unit approximately  $\frac{3}{4}$  of an inch. Then slide the two metal plates on the underside of the chassis to the most extended position. Slip the inset portion of the metal plates under the mounting knobs. Be certain to tighten the mounting knobs securely to prevent rattle.

Amplifier malfunction is caused over 80 per cent of the time by defective tubes. Some of the following problems arise from improper tube function: loud hissing noise, vibrato failure, popping noises, distortion of tone and general amplifier failure.

Rather than sustain a heavy charge from a repair shop or delay the use of your amplifier by returning it to our factory, two tips are offered in hopes that you may correct any difficulty that might arise and at the same time save an expensive repair bill.

1. If any hissing, popping noise or distortion is in evidence, tap each tube with your finger. A defective tube will often cause noise or a sharp microphonic sound when tapped briskly.
2. In the event of the complete amplifier failure, remove the tubes, then test them on a regulation tube tester.
3. Be certain the loudspeaker of the amplifier is plugged into the proper jack and not into the extension speaker jack.
4. The extension speaker jack will not operate unless a speaker is plugged into the regular speaker jack.
5. Operating the amplifier without the loudspeaker plugged in can cause serious amplifier damage.
6. Your amplifier normally is capable of generating considerably more audio power than can safely be applied to its loudspeaker. This added power is available to allow the operation of additional speakers. (*Application of too much power to any speaker system can eventually cause speaker failure.*)



# Fender

## FINE ELECTRIC AND ACOUSTIC INSTRUMENTS

### Fender Amps One Year Warranty Registration

PURCHASE DATE \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

NAME \_\_\_\_\_

AGE \_\_\_\_\_

MALE \_\_\_\_\_

FEMALE \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

DEALER NAME \_\_\_\_\_

CITY \_\_\_\_\_

STATE \_\_\_\_\_

I play:

- Country/Western
- Folk
- Jazz
- Classic
- Rock 'n Roll
- Pop

Student

I chose a Fender because of

- a Friend
- a Teacher
- a Professional
- Superior Quality
- Company Advertising
- Ease of playing

Professional

I noticed Fender advertising

- on TV (Station) \_\_\_\_\_
- on Radio (Station) \_\_\_\_\_
- in Newspaper (Name) \_\_\_\_\_
- in Magazine ad (Name) \_\_\_\_\_
- Dealer contact
- Direct mail
- Other \_\_\_\_\_

Advanced Guitar Player

I traded my \_\_\_\_\_ on a new Fender \_\_\_\_\_



**WARRANTY** Fender Musical Instruments warrants the parts in any Fender Amplifier to be free from defects in workmanship and material arising from normal usage. Its obligation under this warranty is limited to replacing any such parts of the amplifier which, after regular installation and under normal usage and service, shall be returned within ninety (90) days from the date of original purchase of the amplifier to the authorized dealer from whom the purchase was made and which shall be found to have been thus defective in accordance with the policies established by Fender Musical Instruments.

The obligation of Fender Musical Instruments is limited to making replacement parts available to the purchaser, and does not include either the making or furnishing of any labor in connection with the installation of such replacement parts nor does it include responsibility for any transportation expense.

Fender Musical Instruments assumes no liability and shall not be liable in any respect for failure to perform or delay in performing its obligations with respect to the above warranty if such failure or delay results, directly or indirectly, from any preference, priority or allocation order issued by the Government, or because of any other act of the Government, or by war, conditions of war, inadequate transportation facilities, conditions of weather, acts of God, strikes, lockouts, Governmental controls, or Fender's reasonable requirements for manufacturing purposes, or any cause beyond its control or occurring without its fault, whether the same kind or not.

**CONDITIONS AND EXCLUSIONS** This warranty is expressly in lieu of all other agreements and warranties, expressed or implied, and Fender Musical Instruments does not authorize any person to assume for it the obligations contained in this warranty and neither assumes nor authorizes any representative or other person to assume for it any other liability in connection with such amplifier or parts thereof.

The warranty herein extends only to the original consumer purchaser and is not assignable or transferable and shall not apply to any amplifier or parts thereof which have been repaired or replaced by anyone else than an authorized Fender dealer's service contractor, or which have been subject to alteration, misuse, negligence or accident, or to the parts of any amplifier which have had the serial number or name altered, defaced or removed. This guarantee specifically excludes tubes with broken glass envelopes and loud speakers with torn or ruptured paper diaphragms and open voice coils.

**FENDER MUSICAL INSTRUMENTS**  
CBS Musical Instruments  
Columbia Broadcasting System Inc.