

Fender[®]

THE SOUND THAT CREATES LEGENDS

Princeton
112^{Plus}

Type: PR 290

Owner's Manual

P/N 048524

Princeton 112 Plus Owner's Manual

The Fender PRINCETON 112 Plus amplifier presents the player with the best value of any channel switching amplifier in its price class. Besides the basic complement of VOLUME, TREBLE and BASS controls in the NORMAL channel, the DRIVE channel offers *completely independent* tone controls including Fender's exclusive "CONTOUR" control. This control provides midrange "tone shaping" that will continuously vary your sound from smooth and bluesy to a punchy honk, or all the way to 10 for the ultimate heavy metal overdrive! The DRIVE channel also incorporates Fender's innovative 11 smooth clipping" circuit. This circuit concept is designed to simulate the way tubes clip and produce the overdrive distortion sound so popular with musicians today.

In addition to convenient features like *All Front Panel Mounted Controls and Jacks*, the PRINCETON 112 Plus offers exclusive

exclusive multiplexed footswitch circuitry for selecting the DRIVE channel and for activating the lush internal reverb circuitry. Remote switching is accomplished by connecting the optional two-button footswitch to the FOOTSWITCH jack with a standard mono guitar or speaker cable. Also included are PREAMP OUTPUT and POWER AMP INPUT jacks that allow for a variety of external effects connection schemes and amplifier slaving configurations. The HEADPHONES jack automatically mutes the speaker in addition to driving Stereo or Mono headphones.

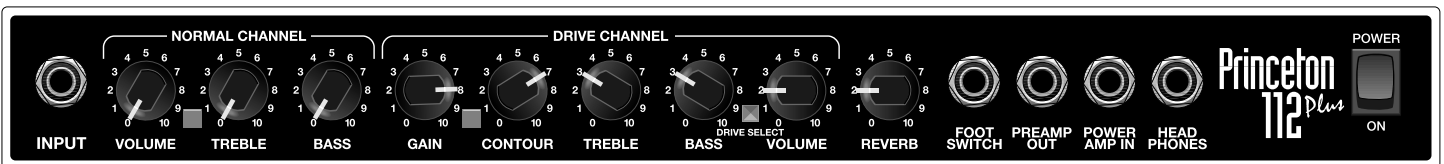
The built in quality of a Fender amplifier is the result of over four decades of dedication in the combined skills of research and development by our engineers and musicians.

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

Standard Strat / General Purpose / Any Pick-Up Combination



Aggression / Any Guitar / Bridge Pickup



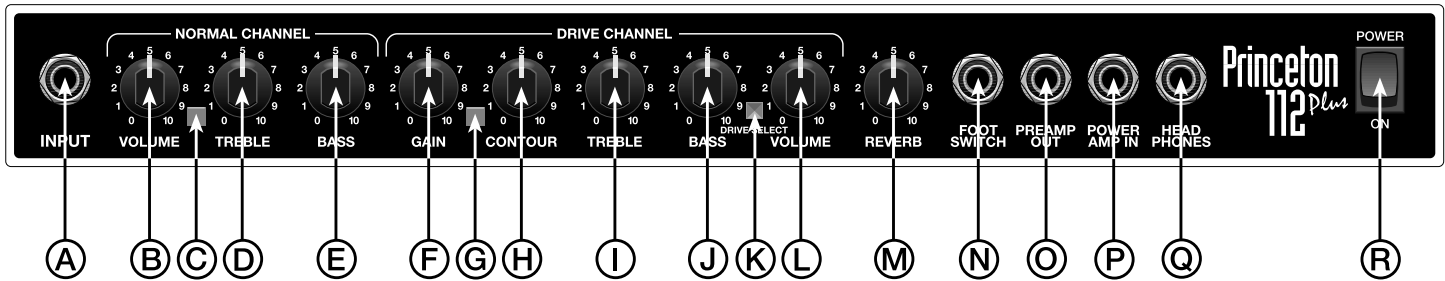
Strat Blues / Neck or Middle Pickup - Chunk Rhythm / Bridge Pickup



Edge Tone / Any Guitar / Any Pickup



Princeton 112 Plus Front Panel Functions



- A. **INPUT** - A high impedance, high sensitivity plug-in connection for instruments.
 - B. **VOLUME** - Adjusts the overall loudness of the Normal Channel.
 - C. **NORMAL CHANNEL INDICATOR** - This LED is illuminated when the Normal Channel is active.
 - D. **TREBLE** - Adjusts the amount of boost or cut in the high frequency range of the Normal Channel.
 - E. **BASS** - Adjusts the amount of boost or cut in the low frequency range of the Normal Channel.
 - F. **GAIN** - Adjusts the amount of preamp amplification in the Drive 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 DRIVE VOLUME control (item L) to set the overall loudness of the Drive Channel.
 - G. **DRIVE CHANNEL INDICATOR** - This LED is illuminated when the Drive Channel is active.
 - H. **CONTOUR** - Adjusts the overall tone quality of the Drive Channel without affecting the signal level. Low CONTOUR settings will provide emphasis in the midrange frequencies whereas a higher setting will notch the midrange to produce sounds characteristics of most "metal" music.
 - I. **TREBLE** - Adjusts the amount of boost or cut in the high frequency range of the Drive Channel.
 - J. **BASS** - Adjusts the amount of boost or cut in the low frequency range of the Drive Channel.
 - K. **DRIVE SELECT** - Activates the Drive Channel. NOTE: This switch disables the optional Channel Select Footswitch and the Normal Channel controls.
 - L. **VOLUME** - Adjusts the overall loudness of the Drive Channel.
 - M. **REVERB** - Adjusts the amount of reverb signal mixed with the original dry signal for both the Normal and Drive Channels.
 - N. **FOOTSWITCH** - Plug in connection for the optional footswitch to select between the Normal and Drive Channels and to switch the Reverb on and off. For proper operation of the footswitch, the DRIVE SELECT switch (item K) should be out. NOTE: Any good quality patch cable will work with the remote footswitch, however, a speaker grade cord is preferable to a coax guitar cable if it is availability.
 - O. **PREAMP OUT** - This jack provides an unbalanced output signal from the preamp and can be used in conjunction with the POWER AMP IN jack (item P) as a patch point for effects units (i.e. as an effects loop). This signal can also be used to feed recording and sound reinforcement mixers. Additionally it can drive another amplifier as a slave by connecting a standard guitar cable 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 when using the PRINCETON 112 Plus as a slave amplifier.
 - 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 SWITCH** - This switch turns the AC power ON and OFF. When the switch is OFF the amplifier is completely shut down.
- 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 receptacle. **DO NOT ALTER THE AC PLUG.**

Princeton 112 Plus Specifications

PART NUMBER:	120V VERSION: 22-6704 230V VERSION: 22-6764
INPUT IMPEDANCE:	Greater than 1 M Ω
NOMINAL INPUT LEVEL:	100 mv
POWER OUTPUT:	65 Watts R. M.S.
RATED LOAD IMPEDANCE:	8 Ω
EFFECTS LOOP:	Nominal Level- -10 dBV Output Impedance- 1k. Ω Input Impedance 16k Ω
POWER REQUIREMENTS:	100V VERSION: 100V AC 50/60 Hz., 180W 120V VERSION: 120V AC 60 Hz., 180W 230V VERSION: 230V AC 50 Hz., 180W 240V VERSION: 240V AC 50 Hz., 180W
SPEAKER COMPLEMENT:	One 8 Ω Special Design 12" Speaker (P/N 025923)
DIMENSIONS:	Height: 16-1/2" (41.9cm) Width: 18-5/8" (47.3cm) Depth: 9" (22.9cm)
WEIGHT:	28 lbs. (12.7kg)
ACCESSORIES:	Remote Dual Footswitch - order Fender P/N 002-8122-000 Amplifier Cover - order Fender P/N 002-9883-000

WARNING:
NO USER SERVICEABLE PARTS INSIDE,
REFER SERVICING TO QUALIFIED
PERSONNEL ONLY.

DO NOT EXPOSE THIS EQUIPMENT
TO RAIN OR MOISTURE.

THIS EQUIPMENT MUST BE EARTHED.

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