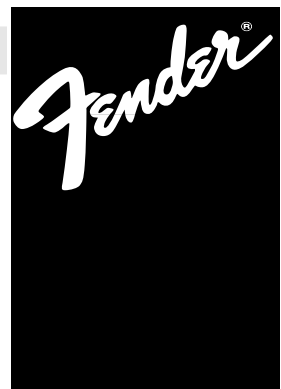


ProsonicTM

Professional
Tube Amplifier

tone - tradition - innovation



Reference and
Owner's Manual

P/N 049991

THE FENDER® HERITAGE

Since 1946, Fender realized the importance of your amplifier. You see, your amplifier is more than a combination of dials, wires and speakers. Your amplifier IS a musical instrument. And like any fine musical instrument, it should be treated with special care and attention to detail.

At Fender, we know what building amplifiers is all about. For over half a century, we have been designing and producing some of the world's best amplifiers helping shape the face of music. In fact, many of the world's most classic and best sounding amplifiers have proudly worn the Fender name.

Whether you're after that classic Fender tone, a clean crisp sound for your Bass or Keyboard or the raw driving power of modern distortion, your decision to purchase a Fender amplifier is one you will appreciate with each passing note for years to come.

Wishing you years of enjoyment and a heartfelt *thank you*.

Bill Schultz

Bill Schultz
Chairman
Fender Musical Instruments Corporation

F e n d e r - T r a d i t i o n

THE FENDER PROFESSIONAL TUBE AMPLIFIER SERIES

Designed for the discriminating musician, Fender Professional Tube Amplifiers cater to the artist who appreciates the full-bodied, rich tones that only tube amplifiers can create. Professional Tube Amplifiers combine that classic Fender sound with a perfect touch of modern, "real world" player conveniences.

Fender Professional Tube Amplifiers feature welded, all-steel chassis capable of handling the most extreme conditions. Covered in genuine Tolex for long life and lasting good looks, our cabinets are constructed from premium, hand-selected birch/maple plywood and employ rugged corner joinery. Only the most road-worthy and musical components are used in the all-tube circuitry. This and much more enables each amplifier to withstand the most demanding performance situations, day in and day out. And last, but certainly not least, Fender's classic all-tube reverb adds that touch of depth and tone that has kept guitarists smiling for generations.

Professional gear for the professional musician. The serious amplifier choice is Fender. So whether you want your blues to "cry like a baby" or your heavy metal leads to "scream like a madman", Fender has a Professional Tube Amplifier for you.

F e n d e r - T o n e

PROSONIC™ REFERENCE AND OWNER'S MANUAL

INTRODUCTION

Congratulations on your purchase of a Fender Prosonic Professional Tube Amplifier. The Prosonic is a unique amplifier offering endless possibilities and numerous features, setting it apart from any other amplifier. Each Prosonic amplifier is individually hand-crafted from the finest components at our Fender amplifier factory in Lake Oswego, Oregon, USA.

The All-Tube Prosonic is available in 2 models, the 2-10" speaker Combo with Reverb and the Prosonic Head amplifier. Both versions feature a 3-way bias/rectifier switch, allowing the player a choice between class A cathode bias, class AB grid bias, as well as the sounds of both tube and solid state rectifiers. The Prosonic is rated at 60 Watts R.M.S. and includes, among its many features, 2 gain controls. Gain 1 functions as a standard gain stage whereas Gain 2 functions similar to a compressor, adding sustain while reducing "Edge" when the volume is increased. This channel produces great high gain sound at any volume - from bedroom to stadium.

The Prosonic combo is designed for the guitarist who requires a portable, medium powered amplifier with reverb capable of producing tones ranging from the crystal clean to a super gain crunch. Equipped with 2 channels, the Prosonic combo offers the flexibility of accessing each channel via the front panel A/B switch or the two button footswitch (provided).

The Prosonic head is designed for the guitarist who requires a medium Wattage head with a wide variety of great tones. Like the Prosonic combo, the Prosonic head features 2 channels with the flexibility of accessing each channel via the front panel A/B switch or the footswitch (also enclosed).

In order to thoroughly understand the operation, features and functions of your amplifier, please read and refer, as needed, to this operation manual. By doing so, your amplifier is sure to provide you with years of trouble-free music making and maximum playing enjoyment.

F e n d e r - I n n o v a t i o n

SUGGESTED PROSONIC SOUND SETTINGS - You Take it from Here

CLASSIC FENDER®

TO TASTE N/A N/A N/A

COWBOY TWANG

TO TASTE N/A N/A N/A

ELEVATOR ROCK

N/A TO TASTE

IN YOUR FACE

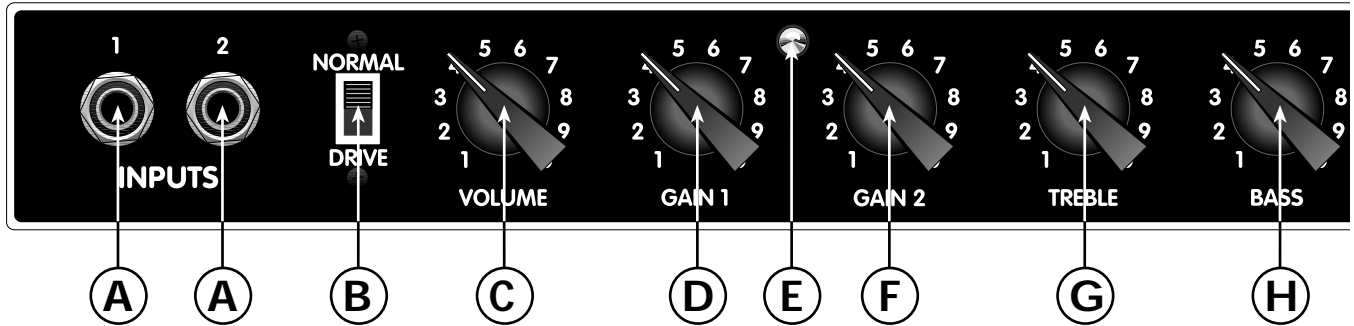
N/A TO TASTE

METAL

N/A TO TASTE

NOSTRIL LEAD

N/A TO TASTE TO TASTE

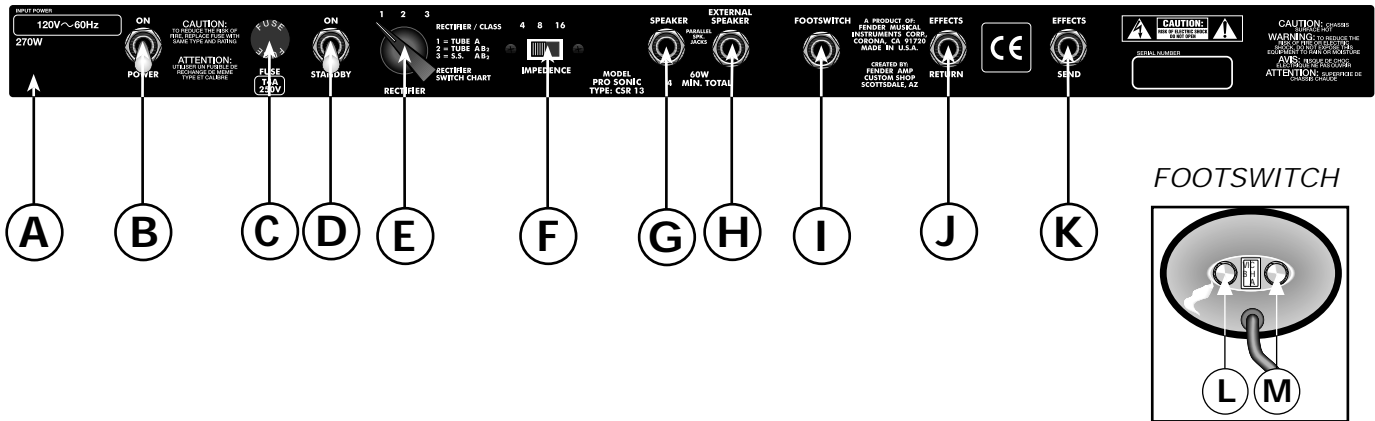


PROSONIC FRONT PANEL FUNCTIONS

- A. INPUTS - Input 1 is the main guitar input for the Prosonic. Input 2 is a -3dB (low sensitivity) input for the Prosonic.
- B. NORMAL/DRIVE - Allows front panel selection of the NORMAL (Vintage sound) or DRIVE (Hi Gain).
SPECIAL NOTE: This switch is deactivated by plugging in the footswitch
- C. VOLUME - Controls the volume level of the NORMAL channel ONLY.
- D. GAIN 1 - 1st control for gain or overdrive of the DRIVE channel ONLY.
- E. LED -Indicates operation of the DRIVE channel.
- F. GAIN 2 - 2nd control for gain or overdrive. This acts much like a compressor when turned up. Operates in the DRIVE channel ONLY. The gain channel will still operate with Gain 2 set at zero.



- G. TREBLE - Adjusts the overall brightness of the amplifier.
- H. BASS - Adjusts the low frequencies of the amplifier.
- I. MID - Adjusts the midrange frequencies of the amplifier.
- J. MASTER- Controls the loudness of the DRIVE channel ONLY.
- K. REVERB- (Combo only) Controls the strength of the Reverb (both channels). This effect may be selected on or off via the footswitch.
- L. PILOT JEWEL - Illuminated when the Prosonic is receiving power. If the lamp burns out, unplug the amplifier, unscrew the green jewel and replace the lamp with a type T47 light bulb.



PROSONIC REAR PANEL FUNCTIONS

- A. **LINE CORD** - Your amplifier is equipped with a 3-prong, grounding type supply cord designed to reduce the possibility of shock due to electrical fault. Be sure to connect the cord to a grounded receptacle. **DO NOT ALTER THE AC PLUG!**
- B. **POWER SWITCH** - Turns the AC POWER on and off. When this switch is in the OFF position the amplifier is completely shut down.
- C. **FUSE** - The fuse, located in the AC supply of the amplifier, helps protect the amplifier in the event of an electrical fault or tube failure. If the fuse blows, replace it with one of the same type and rating. **NEVER** use a fuse of a higher current rating. Doing so could severely damage the unit and present a serious safety hazard. If the amplifier repeatedly blows fuses, take it to an authorized Fender warranty service center.
- D. **STANDBY SWITCH** - Toggles between the operate and stand-by mode. When the switch is in the stand-by mode, no sound will be heard. Power, however, is still supplied to the tube filaments to keep them warmed and the unit ready to play. Using this switch during short breaks will help increase tube life. A good rule of thumb is wait at least 50 seconds after the power switch is on, before turning on the standby switch.
- E. **RECTIFIER/BIAS SWITCH** - Allows for the selection of Rectifier sounds and bias classes to best suit your playing style. (Experiment until you find a preferred setting). *The Class A/TUBE setting at low volume sounds a lot like the Class AB2/Solid State setting at high volume.*
- F. **IMPEDANCE SWITCH**- (Head only) Labeled 4, 8 and 16. This switch serves to set the output impedance of the amplifier to best match the speaker impedance for maximum power and tube life.
- G. **SPEAKER (Combo), SPEAKER 1 (Head)** - Input connection for speakers. This jack is the primary connection for speakers.
- H. **EXTERNAL SPEAKER (Combo), SPEAKER 2 (Head)** - Input connection for an external speaker. This jack is **ONLY** used in conjunction with the main SPEAKER JACK. If the EXTERNAL SPEAKER JACK is used without a cord / speaker plugged into the main SPEAKER JACK, there will be no sound. Using this jack on the Combo automatically switches the amplifier impedance to 8Ω.
- I. **FOOTSWITCH JACK** - Input connection for the footswitch. The footswitch allows remote switching from CHANNEL A (normal) to CHANNEL B (drive), as well as, on and off for the REVERB on the Combo unit **ONLY**. The Head amplifier footswitch has a single button **ONLY**.
- J. **EFFECTS RETURN** - Input jack or "Return" from effects device(s). Inserting a cord here automatically disconnects the internal connection from the pre-amp and power connection.
- K. **EFFECTS SEND** - Output jack for "Send" to effects device(s). This jack can also be used as a line out.
- L. **CHANNEL SWITCH** - Allows the remote switching from CHANNEL A (normal) to CHANNEL B (drive).
- M. **REVERB SWITCH (Combo only)** - Allows the remote switching of the reverb effect.

TUBES

Prosonic Combo

The Prosonic Combo's tube complement consists of 1 pair of Fender special design 5881/6L6WGC's (part #099-5090), 5 Fender special design 12AX7A's (part #099-5091), 1 special design 12AT7 (part #099-5092) and 1 5AR4/GZ34 (part #099-5097).

Prosonic Head

The Prosonic Head's tube complement consists of 1 pair of Fender special design 5881/6L6WGC's (part #099-5090), 4 Fender special design 12AX7A's (part #099-5091) and 1 5AR4/GZ34 (part #099-5097).

Tube Replacement

Tube life varies with playing style and application with power tubes having a much shorter life than pre-amp tubes - which can last for years. For continued optimum performance from your amplifier, the tubes should **ONLY** be replaced with the same type tubes as specified on the tube location label inside the cabinet.

A simple way to check if the tubes are worn is to replace the set in your amp with your spare set. (You do carry spare tubes and fuses, don't you?)

- First, replace the OUTPUT tubes in the amplifier and listen.
- Next, re-insert the original output tubes. Replace the PRE-AMP tubes and listen.
- Finally, try replacing both the OUTPUT and PRE-AMP tubes and listen.

If there is a marked improvement in the tone of your amp at any point in this procedure, leave the new tubes in your amp and purchase another spare set.

When changing the tubes, **ALWAYS** unplug the amplifier and remember **THE TUBES ARE HOT!** Either wait for the tubes to cool or use an insulated oven mitt to remove them from your amplifier.

COVERING CARE

To clean the Tolex covering, use a sponge and a light soapy water solution. (Do not use flammables). ALWAYS unplug the amplifier before cleaning or approaching it with fluids. Avoid spilling liquids on operating surfaces, grill cloths, controls, switches and speakers.

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 to the outlet?
 - Is the fuse blown?
 - Is the speaker(s) properly connected to the amplifier?
 - Is the amp on standby?
 - Is the Rectifier tube lighting? Try switching to the solid-state rectifier (Position 3)
 - Are the amplifier VOLUME, TREBLE, MID and BASS controls above 0?
 - Is the instrument volume control turned up?
 - Is the A/B switch selecting the proper channel? (Try Both volume controls).
 - Is the instrument plugged into the amplifier?
- (Eliminate any effects pedals and try another guitar cord.)

Check under all tube covers to see that the tube filaments are glowing.

If, after checking all of the above, your amplifier is not performing correctly, consult your authorized Fender service center.

PROSONIC SPECIFICATIONS

PART NUMBER- COMBO:	021-1077-x00 (100V) 021-1007-x00 (120V) 021-1047-x00 (230V) UK 021-1067-x00 (230V) 021-1037-x00 (240V) AUSTRALIA / NZ 021-1087-x00 (230V) SCANDINAVIA															
SPEAKER ENCLOSURE:	2-10" Custom Design Celestion® speakers															
PART NUMBER- HEAD:	021-2077-x00 (100V) 021-2007-x00 (120V) 021-2047-x00 (230V) UK 021-2067-x00 (230V) 021-2037-x00 (240V) AUSTRALIA / NZ For x 1 = RED, 2 = GREEN, 0 = BLACK (Combo Only)															
COMPANION SPEAKER ENCLOSURE:	4 12" Celestion® "Vintage 30" speakers 021-3001-100 (RED) 021-3001-200 (GREEN) 021-3001-000 (BLACK)															
POWER OUTPUT:	Class AB2, Solid state rectifier,- 60 W R.M.S. Class AB2, 5AR4/GZ34 rectifier- 50 W R.M.S. Class A, 5AR4/GZ34 rectifier- 30 W R.M.S. minimum into 8 or 16 Ω															
OUTPUT IMPEDANCE:	8 or 16 Ω (Combo), 4, 8 or 16 Ω , (Head).															
INPUT IMPEDANCE:	1 M Ω															
POWER REQUIREMENTS:	100-120V AC, 50-60 Hz, 360W. 230-240V AC, 50 Hz, 360W.															
FUSE TYPE:	100-120V version T3 Amp 250V 230-240V version T1.6 Amp 250V															
DIMENSIONS:	<table><thead><tr><th></th><th>COMBO</th><th>HEAD</th></tr></thead><tbody><tr><td>HEIGHT:</td><td>18.5 in / 47 cm</td><td>9 in / 23 cm</td></tr><tr><td>WIDTH:</td><td>24 in / 61 cm</td><td>24 in / 61 cm</td></tr><tr><td>DEPTH:</td><td>10.5 in / 26.5 cm</td><td>9.5 in / 24 cm</td></tr><tr><td>WEIGHT:</td><td>48 lbs / 22 kg</td><td>42 lbs / 19 kg</td></tr></tbody></table>		COMBO	HEAD	HEIGHT:	18.5 in / 47 cm	9 in / 23 cm	WIDTH:	24 in / 61 cm	24 in / 61 cm	DEPTH:	10.5 in / 26.5 cm	9.5 in / 24 cm	WEIGHT:	48 lbs / 22 kg	42 lbs / 19 kg
	COMBO	HEAD														
HEIGHT:	18.5 in / 47 cm	9 in / 23 cm														
WIDTH:	24 in / 61 cm	24 in / 61 cm														
DEPTH:	10.5 in / 26.5 cm	9.5 in / 24 cm														
WEIGHT:	48 lbs / 22 kg	42 lbs / 19 kg														
SOUND:	VERSATILE AND VOLUPTUOUS															

WARNING:

**No user serviceable parts inside, refer servicing to qualified personnel only.
THIS EQUIPMENT MUST BE EARTH GROUNDED.**



Our manuals are intended to be a reference source throughout the lifetime of your product. We appreciate any suggestions, corrections and/or comments regarding this manual.

Please send your comments to:

Fender Musical Instruments Corp.
Research and Design - Documentation Department
Attn: Technical Writing
7975 North Hayden Road
Scottsdale, Arizona 85258, USA

Product specifications are subject to change without notice.

A Product of:
Fender Musical Instruments Corporation
Corona, CA 91720