

Fender[®]

THE SOUND THAT CREATES LEGENDS

Performer
650

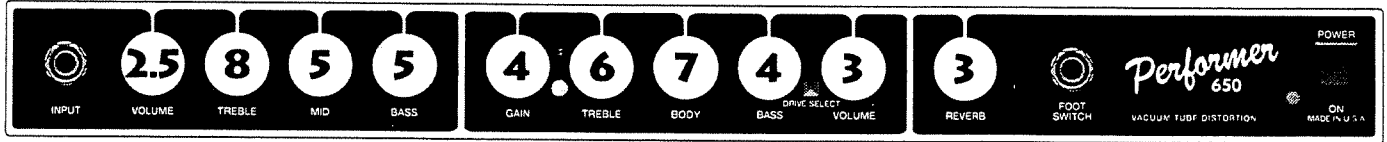
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Owner's Manual

P/N 041491

Performer 650 Sound Settings

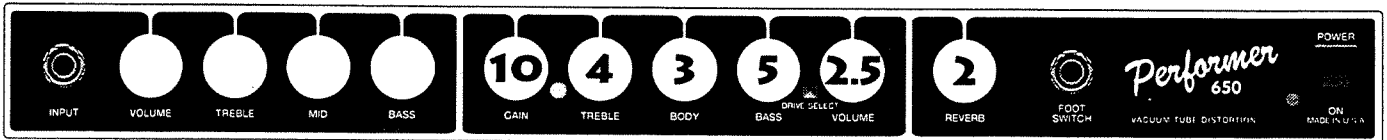
Standard Strat (normal channel) / Texas Flood (drive channel)



Control panel settings for Standard Strat (normal channel) / Texas Flood (drive channel):

- INPUT: Standard
- VOLUME: 2.5
- TREBLE: 8
- MID: 5
- BASS: 5
- GAIN: 4
- TREBLE: 6
- BODY: 7
- BASS: 4
- DRIVE SELECT: 3
- VOLUME: 3
- REVERB: 3
- FOOT SWITCH: Off
- VACUUM TUBE DISTORTION: Off
- POWER: ON
- MADE IN U.S.A.

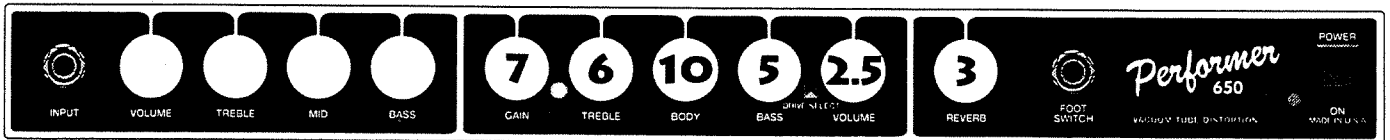
Totally Tubular / Any Guitar / Bridge Pick-up



Control panel settings for Totally Tubular / Any Guitar / Bridge Pick-up:

- INPUT: Standard
- VOLUME: 0
- TREBLE: 0
- MID: 0
- BASS: 0
- GAIN: 10
- TREBLE: 4
- BODY: 3
- BASS: 5
- DRIVE SELECT: 2.5
- VOLUME: 2.5
- REVERB: 2
- FOOT SWITCH: Off
- VACUUM TUBE DISTORTION: Off
- POWER: ON
- MADE IN U.S.A.

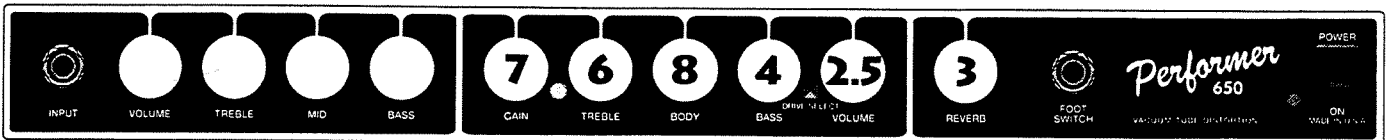
Fat Strat / Any Pick-up Combination



Control panel settings for Fat Strat / Any Pick-up Combination:

- INPUT: Standard
- VOLUME: 0
- TREBLE: 0
- MID: 0
- BASS: 0
- GAIN: 7
- TREBLE: 6
- BODY: 10
- BASS: 5
- DRIVE SELECT: 2.5
- VOLUME: 2.5
- REVERB: 3
- FOOT SWITCH: Off
- VACUUM TUBE DISTORTION: Off
- POWER: ON
- MADE IN U.S.A.

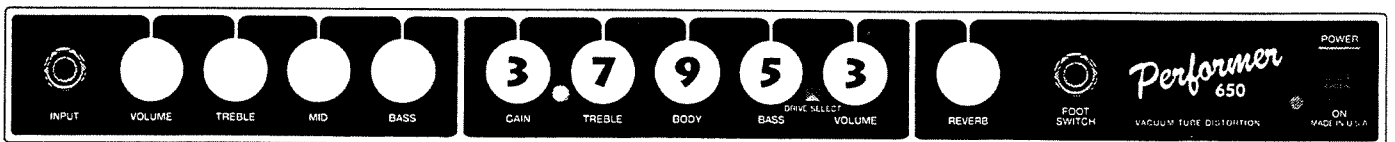
70's Strat Chunk / Bridge Pick-up



Control panel settings for 70's Strat Chunk / Bridge Pick-up:

- INPUT: Standard
- VOLUME: 0
- TREBLE: 0
- MID: 0
- BASS: 0
- GAIN: 7
- TREBLE: 6
- BODY: 8
- BASS: 4
- DRIVE SELECT: 2.5
- VOLUME: 2.5
- REVERB: 3
- FOOT SWITCH: Off
- VACUUM TUBE DISTORTION: Off
- POWER: ON
- MADE IN U.S.A.

Bluesbreaker Deluxe / Humbucking Bridge



Control panel settings for Bluesbreaker Deluxe / Humbucking Bridge:

- INPUT: Standard
- VOLUME: 0
- TREBLE: 0
- MID: 0
- BASS: 0
- GAIN: 3
- TREBLE: 7
- BODY: 9
- BASS: 5
- DRIVE SELECT: 3
- VOLUME: 3
- REVERB: 0
- FOOT SWITCH: Off
- VACUUM TUBE DISTORTION: Off
- POWER: ON
- MADE IN U.S.A.

The Fender PERFORMER 650 is a radical combination of aggressive Vacuum Tube Distortion sounds and time-tested Signature Fender Clean sounds, packaged together in a unique "Hybrid" configuration, bringing together the best of Tube and Solid-State technology.

The PERFORMER 650 Normal channel features the standard complement of Volume, Treble, Mid, and Bass controls for ultra clean sounds. The Drive channel utilizes a single **12AX7 Vacuum Tube** for its distortion characteristics. The Drive channel controls include Gain, Treble, Body, Bass, and Volume. The almost unlimited combinations of Gain and Tone controls will vary your sound from a sweet, singing sustain to the most gnarly growl imaginable.

The PERFORMER 650 features a detachable two-button footswitch for Channel Select, and Reverb On/Off. Standard 1/4 inch phone jacks are used for ease of connection or extension of the footswitch to remote pedal boards. The "three-way" variable EFFECTS LOOP allows the use of virtually any effects device, from simple stomp boxes to sophisticated rack equipment, without annoying input distortion.

Last, but definitely not least, the PERFORMER 650 packs a 70 watt power amp based on a radically

underdamped design that interacts with the speaker in much the same way as a tube amplifier, producing sparkle and punch with an increase in apparent loudness and power that defies comparison to other similarly rated units. Also included is a sophisticated, transparent protection scheme designed to completely prevent amplifier failure due to bad speaker cords or incorrectly connected speaker jacks. This amp is VERY LOUD and can reliably put it out night after night.

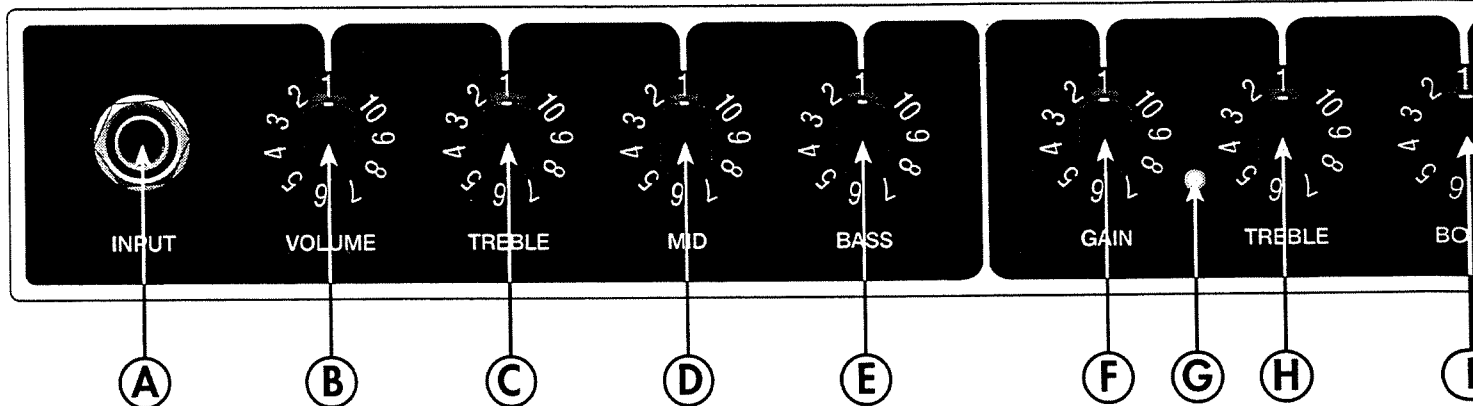
The selection of a Fender amplifier will reward you with years of quality performance and a wide range of musical sounds. This manual is designed to familiarize you with the equipment and to acquaint you with its many features. Please read it carefully so you will benefit from all the features as soon as you start using the amplifier.

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

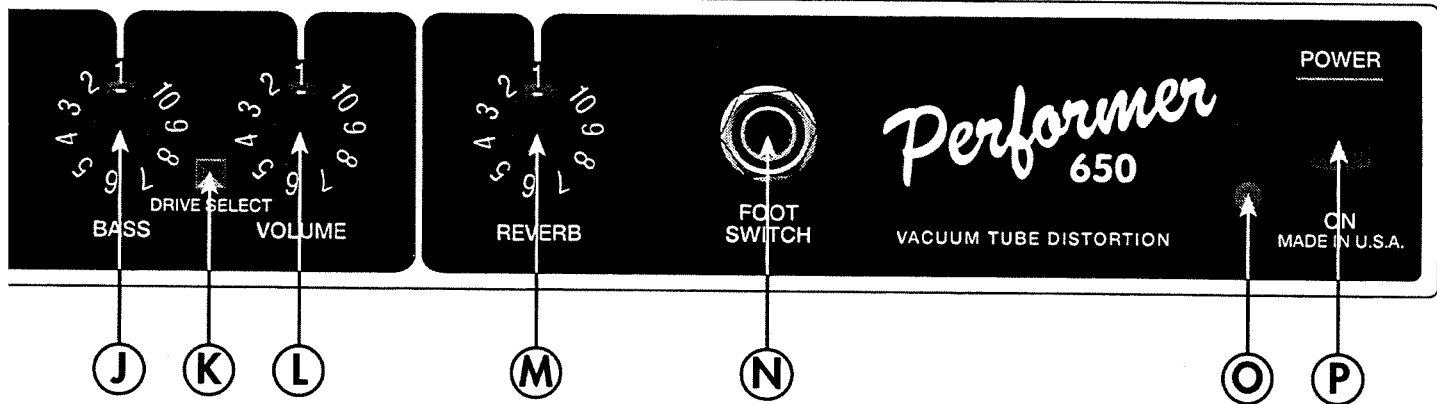
That is why we proudly say...**FENDER, The Sound That Creates Legends.**

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

Performer 650 Front Panel Functions

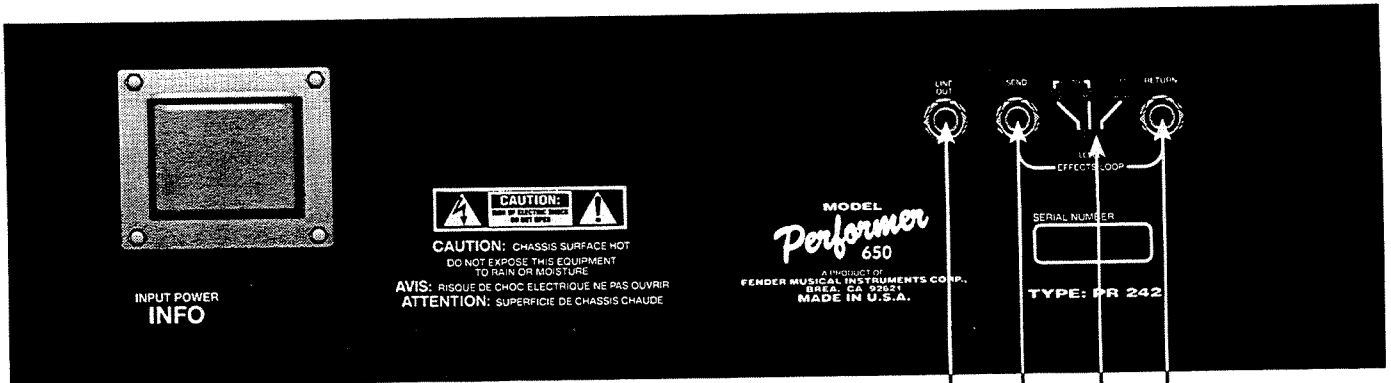


- A. **INPUT** – A high impedance, high sensitivity plug-in connection for instruments.
- B. **VOLUME** – Adjusts the overall volume of the NORMAL channel.
- C. **TREBLE** – Adjusts the amount of high frequency boost or cut in the NORMAL channel.
- D. **MID** – Adjusts the amount of mid frequency boost or cut in the NORMAL channel.
- E. **BASS** – Adjusts the amount of low frequency boost or cut in the NORMAL channel.
- F. **GAIN** – Adjusts the amount of distortion in the DRIVE channel. Lower settings provide a gradual compression distortion, while higher settings provide more sustain.
- G. **DRIVE CHANNEL INDICATOR** – This LED is illuminated while in the DRIVE channel.
- H. **TREBLE** – Adjusts the amount of high frequency boost or cut in the DRIVE channel. This control is post-distortion and is useful in adjusting the distortion from smooth to brash.
- I. **BODY** – Adjusts the overall tone quality of the DRIVE channel. This control is post-distortion. High BODY settings will emphasize mid frequencies. A lower setting will notch the midrange to produce the "crunch" sound characteristic in most heavy metal music.



- J. **BASS** – Adjusts the amount of low frequency boost or cut in the DRIVE channel. This control is post-distortion and is useful for adjusting the amount of "thump" or "chunk" produced by the DRIVE channel.
- K. **DRIVE SELECT** – When this button is depressed, the amp switches from the NORMAL channel to the DRIVE channel.
- L. **VOLUME** – Adjusts the overall volume of the DRIVE channel.
- M. **REVERB** – Adjusts the amount of reverb present in both the DRIVE channel and the NORMAL channel.
- N. **FOOTSWITCH**– Plug-in connection for a remote footswitch to switch between the NORMAL and the DRIVE channel, and to turn the REVERB on and off. 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's available. Using the footswitch overrides the front panel select buttons.
- O. **POWER INDICATOR** – This LED is illuminated when the power is ON.
- P. **POWER SWITCH** – Turns the AC power ON and OFF. When the switch is in the OFF position, the amplifier is completely shut down.

Performer 650 Rear Panel Functions



- Q. LINE CORD**— The PERFORMER 650 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. **DO NOT ALTER THE AC PLUG.**
- R. LINE OUT** — This jack provides an output signal taken directly off the amplifier output and is used for direct connection to recording and sound reinforcement equipment. Using a stereo cord in this jack will provide a quasi-balanced signal. A mono cord will provide an unbalanced signal.

- S. SEND** — This unbalanced jack provides an output signal from the preamp, pre-reverb. It is used to patch into effects.
- T. LEVEL SWITCH** — This switch directly affects the SEND (item S) jack by boosting or attenuating the signal sent to the effects. External rack effects usually require -7dB or +4dB settings. Effects pedals usually require a -16dB setting.
- U. RETURN** — This jack provides a return from effects gear, pre-reverb.

Troubleshooter's Checklist

- Is the power cord properly 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 above four?
- Is the volume control on the instrument turned up?
- Is the instrument properly plugged into the amplifier?
(Eliminate all effects and try another guitar cord.)

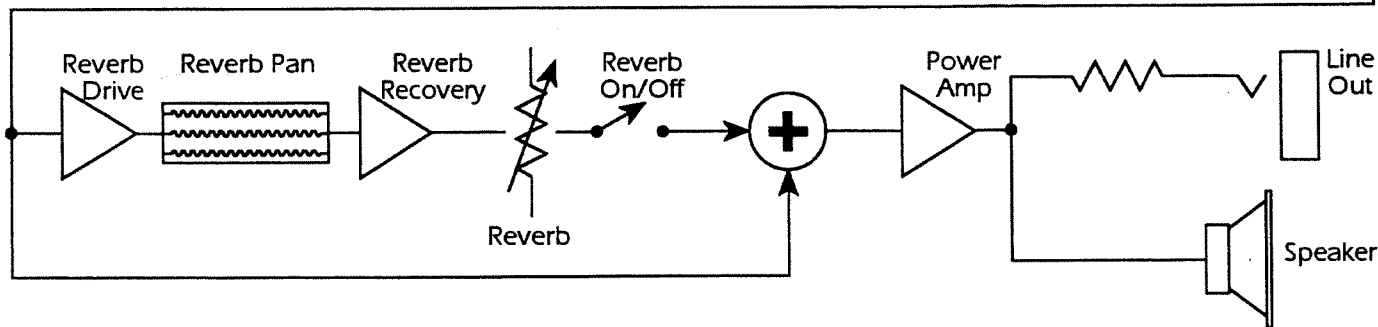
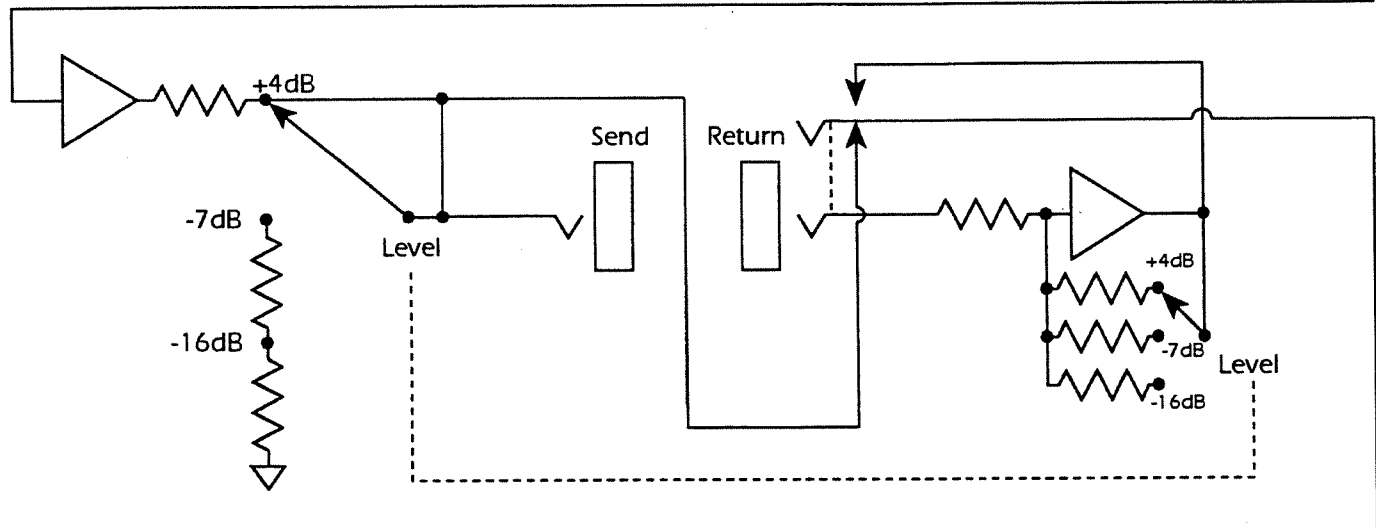
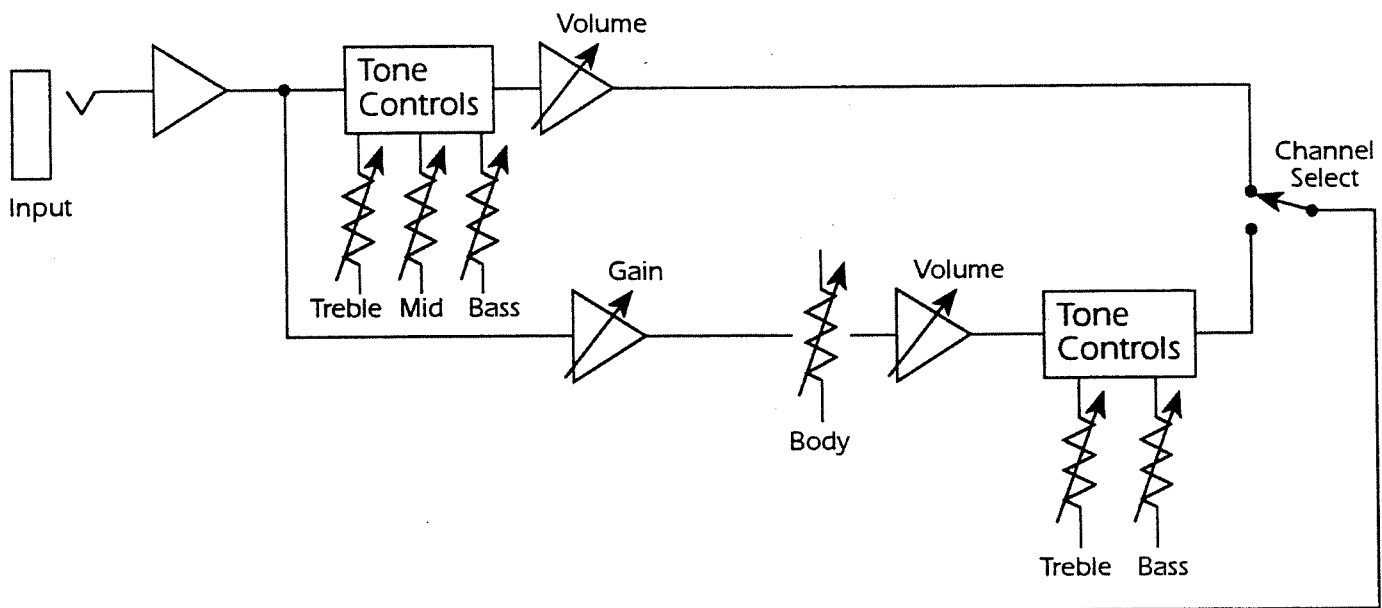
If, after checking all of the above, the amplifier is still not working correctly, consult your Fender Service Dealer.

Performer 650 Specifications

Part Number:	120V Version: 22-6805 230V Version: 22-6865
Input Impedance:	>1 Meg Ohm
Nominal Level:	100mv
Power Output:	65Watts into 8Ω at 5% THD
Effects Loop:	Nominal level: Selectable +4, -7, -16dBv Output Impedance: 1.2k Ohm Max. Input Impedance: 100k Ohm
Power Requirements:	120V Version: 120 Volts AC, 60 Hz, 1.7Amps Max. 230V Version: 230 Volts AC, 50 Hz, 0.9Amps Max.
Speaker:	8Ω 12" Fender Special Design (P/N 025923)
Dimensions:	Height: 16 1/2" (41.9 cm) Width: 20 5/8" (52.4 cm) Depth: 9 5/8" (24.4 cm) Weight: 30 Lbs. (13.6 Kg.)
Sound:	120V Version: "kicks 120V @\$\$" 230V Version: "kicks 230V @\$\$"

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

Performer 650 Block Diagram



A PRODUCT OF:
FENDER MUSICAL INSTRUMENTS CORP.,
 BREA, CA 92621