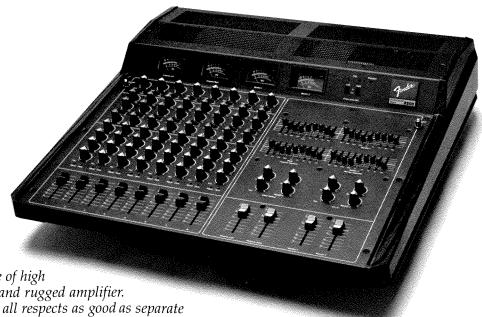


## Powered Mixer MODEL #3208



One of a family of four powered mixers in the Fender Pro-Sound line, the 3208 is a state-of-the-art mixing console of high quality combined with a powerful and rugged amplifier. The 3208 achieves performance in all respects as good as separate

components, allowing its use in even the most demanding professional applications.

## **FEATURES**

Each of the eight input channels features balanced transformerless Lo-z and Hi-z inputs and a channel "insertion" point. The insertion point is effectively "moveable" between pre and post EQ positions by the use of the front panel "pre-post insertion" control.

Input channels have three band, five frequency, input EQ (mid-band switchable 750Hz, 1.5kHz, 3.0kHz), signal present and peak LEDs, a trim control with 40dB range to optimize pre-amp gain and a pan control between the main output busses plus two monitors, one effects buss and a 60mm slide fader.

The effects bus is normaled through an internal spring reverb, but accessible as an echo send and return on the rear panel. Lo-z XLR mic connectors carry 48 volt Phantom power selected through an on/off switch on the rear of the mixer.

The meter panel carries four Vu meters with "peak" LEDs, these meters monitor main and monitor outputs, while the power amp output is monitored by two clip LEDs. Under the clip LEDs are the switches for the power amplifier "AGC" (Automatic Gain Control), for each amp channel.

Four nine band graphic equalizers, two main, two monitor, a program and effects return input and pan control and the four master faders complete the front panel controls.

Extensive system interstage patch points allow the rearrangement of many of the features of the mixer to allow specific requirements to be met. All input and output levels and impedances are matched and suitable for this purpose.

The mixer section of the 3200 series is of the highest

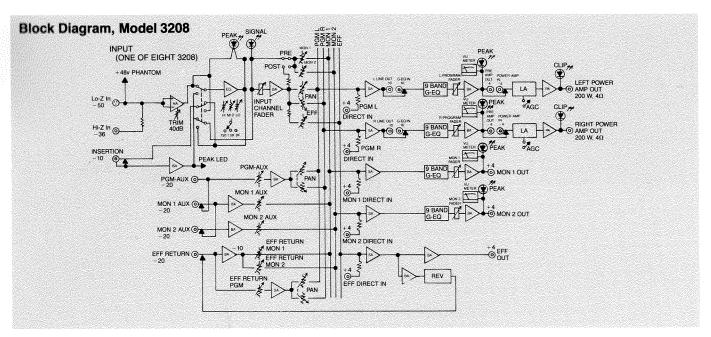
quality with very low distortion and noise, allowing the use of this kind of product for professional sound contracting and high quality live sound reinforcement.

*The built-in amplifiers are of essentially the same* design as the highly acclaimed Fender 2224 and 2244 series power amplifiers. These amplifiers are designed to produce their rated power into highly reactive and low impedance loads, and are provided with forced-air cooled heat dissipators. Delivering in excess of 200 watts per channel into 4 ohms with great sonic accuracy, the amplifiers exceed the specs and performance of many of the best "separate" products available. The "AGC" limiting circuit effectively eliminates clipping, without degrading the quality of the signal.

The 3200 series has exceptional stability even well beyond its normal intended operational limits, allowing its successful use in high demand situations. High headroom and correct internal grounding procedures add to the overall sonic performance of the line.

Packaged in a compact enclosure and fitted with unique "pointer" type color-coded knobs and BNC connectors, for optional panel light, the powered mixer presents itself as an attractive and professional product that will give many years of reliable service.

The 3200 series powered mixers are supplied with an extensive 73 page "Owners/Applications" manual that is a most valuable resource for the user and operator in not only the operation of the 3200 series but all aspects of sound reinforcement. For the sound contractor this manual offers an effective means of training the operator and assuring the best operation of a system as it was designed and installed.



Frequency response:

Power amplifier:

20Hz to 20kHz, +0,  $-\frac{1}{2}dB$  @ 200 watts

output.

Mixer:

20Hz to  $20kHz \pm 2dB$ .

T.H.D.:

Power amplifier:

Less than 0.1% 20Hz to 20kHz at 200 watts

output.

Mixer:

Less than 0.1% from 20Hz to 20kHz at +18dB

output at pre-amp out. Typically 0.05%.

Hum and Noise:

Mixer:

EIN - 129dBm, 20Hz - 20kHz. 150

termination.

Power amp:

Greater than 100dB (signal to noise ratio).

Crosstalk: C.M.R.R.: -60dB @ 1kHz, between all signal paths. 60dB at 1000Hz (external noise rejection).

Channel Equalization:

High: ±15dB @ 10kHz, shelving.

Mid:  $\pm 12dB$  @ .750, 1.5, 3.0kHz. Peaking and

dipping. Low: ±15dB @ 100Hz, Shelving.

Graphic Equalization:

Metering:

4 illuminated Vu.

Program Left and Right.

Monitor 1 and 2.

Indicators:

Channel Signal present and peak. Vu meter peak @ 10dB before clip.

Phantom on.

Power Amplifier Clip. AGC Operation, LEDs.

Voltage Amplification: 101dB,  $\pm 2dB$  (maximum).

Lo-z input to Power Amp out.

"0" Vu reference:

+4dB at Pre-Amp out.

Maximum Input level:

Lo-z Input Greater than +10dB.

Hi-z Input Greater than +24dB.

Power Output: Phantom Power: 200 watts into 4 ohms, per channel.

48 volts DC on pins 2 and 3 of Lo-z (mic) input.

Rear panel switch. Silent turn on.

Power Requirements:

120 volts ( $\pm 10\%$ ) 60Hz.

Safety Listing:

UL.

INPUTS	MAX. VOLTAGE GAIN (20 LOG VO/VI)		SOURCE TYPE	ACTUAL INPUT	INPUT VOLTAGES	MAX BEFORE CLIP
	TO L,R PRE AMP OUT	TO L,R POWER AMP OUT	SOURCE ITPE	IMPEDANCE	NOMINAL	MINN DEI VIIL VEII
Insertion (input)	34dB	61dB	LO OR HI-Z LOW-LEVEL LINE	50K-OHMS	-10dB (245 mv)	+20dB (7.75 VOLT)
HI-Z IN	60dB	87dB	HI-Z MIC OR LINE INSTRUMENT DIRECT	20K-OHMS (BAL)	-36dB TO +4dB (12.3 mv) TO 1.23 VOLTS	+24dB (12.3 VOLT)
LO-Z IN	74dB	101dB	LO-Z MIC OR LOW-LEVEL 600-OHM LINE	5K-OHMS (BAL)	50dB TO 10dB (2.45 mv) TO 245 mv	+10dB (2.45 VOLT)
L,R DIRECT IN (PROGRAM)	0dB	27dB	LO OR HI-Z LINE	110K-0HMS (1.23 VOLT)	+ 4dB (38.8 VOLT)	+34dB (38.8 VOLT)
L,R G-EQ IN	24dB	51dB	LO OR HI-Z LINE	50K-0HMS	10dB (245 mv)	+ 20dB (7.75 VOLT)
L,R POWER AMP IN		27dB	LO OR HI-Z LINE	16K-OHMS	+ 4dB (1.23 VOLT)	+ 4dB (1.23 VOLT)
EFF RETURN	34dB	61dB	LOW-LEVEL LINE	33K-OHMS	- 20dB (77.5 mv)	+10dB (2.45 VOLT)
EFF DIRECT			LO OR HL-Z LINE	110K-QHMS	+ 4dB (1.23 VOLT)	+ 34dB (38.8 VOLT)
PGM AUX IN	34dB	61dB	LO OR HI-Z LOW-LEVEL LINE	33K-OHMS	- 20dB (77.5 mv)	+ 34dB (38.8 VOLT)
MON 1, 2 DIRECT IN			LO OR HI-Z LINE	110K-0HMS	+ 4dB (1.23 VOLT)	+ 34dB (38.8 VOLT)
MON 1, 2 AUX IN			LO OR HI-Z LOW-LEVEL LINE	50K-OHMS	- 20dB (77.5 mv) -	+10dB (2.45 VOLT)

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Dimensions: 3208

Depth 675mm (26.6") idth 680mm (26.7") eight 185mm (7.3") 'eight 27 kg (59.4 lbs)

OUTPUT IMPEDANCE AND LEVEL						
OUTPUTS	LOAD TYPE NOMINAL	ACTUAL OUTPUT IMPEDANCE	OUTPUT VOLTAGES NOMINAL	MAX BEFORE CLIP		
INSERTION (OUTPUT)	10K-OHM LINE	100-OHMS	- 10dB (245 mv)	+20dB (7.75 VOLT)		
L,R LINE OUT	10K-OHM LINE	100-OHMS	+ 4dB (1.23 VOLT)	+20dB (7.75 VOLT)		
L,R PRE AMP OUT	10K-OHM LINE	100-OHMS	+ 4dB (1.23 VOLT)	+20dB (7.75 VOLT)		
L,R POWER AMP OUT	4-OHM (MINIMUM) LOUDSPEAKER		200-WATTS MAX INTO 4-OHMS			
EFF OUT	10K-OHM LINE	100-OHMS	+ 4dB (1.23 VOLT)	+20dB (7.75 VOLT)		
MON 1, 2 OUT	10K-OHM LINE	100-OHMS	+ 4dB (1.23 VOLT)	+20dB (7.75 VOLT)		



## QUICK REFERENCE GUIDE (Models 3208, 3212, 3216)

