

# Powered Mixer

MODEL #3206



One of a family of four powered mixers in the Fender Pro-Sound line, the 3206 is a state-of-the-art mixing console of high quality combined with a powerful and rugged amplifier. The 3206 achieves performance in all respects as good as separate components, allowing its use in even the most demanding professional applications.

## FEATURES

Each of the six input channels features balanced transformerless LO-z and Hi-z inputs. 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 buss is normaled through an internal reverb, but accessible as an echo send and return on the rear panel. Lo-z XLR mic connectors carry 48volt Phantom power selected through an on/off switch on the rear of the mixer.

The meter panel carries two switchable Vu meters with "peak" LEDs, these meters monitor main and monitor outputs, while the power amp output is monitored by two clip LEDs.

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 con-

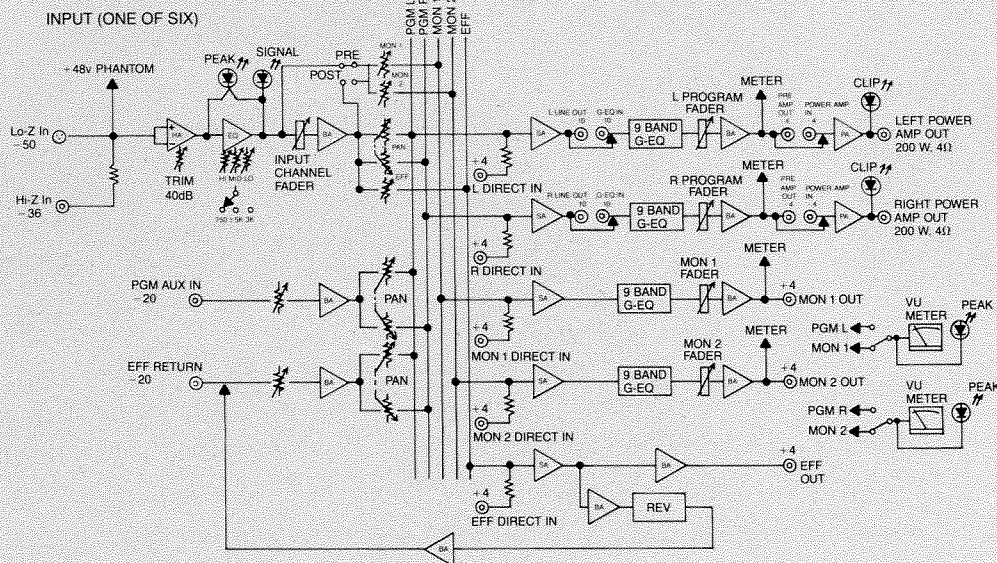
tracting and high quality live sound reinforcement.

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 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, -1/2dB @ 200 watts output.

**Mixer:** 20Hz to 20kHz ±1dB.

**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 ohm termination.

**Power amp:** Greater than 100dB (signal to noise ratio).

**Crosstalk:**

-60dB @ 1kHz, between all signal paths.

**C.M.R.R.:**

60dB at 1000Hz (external noise rejection).

**Channel Equalization:**

High: ±15dB @ 10kHz, shelving.  
Mid: ±12dB @ .750, 1.5, 3.0kHz. Peaking and dipping.  
Low: ±15dB @ 100Hz, shelving.

**Graphic Equalization:**

4.9 Band, Octave EQ, ISO Frequencies, Program Left and Right, Monitor 1 and 2 ±12dB.

**Metering:**

2 illuminated Vu. Switchable for Program Left and Right of Monitor 1 and 2.

**Indicators:**

Channel Signal present and peak. Vu meter peak @ 10dB before clip. Phantom on. Power amplifier clip LEDs.

**Voltage Amplification:**

101dB, ±2dB (maximum).

**"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:**

200 watts into 4 ohms, per channel.

**Phantom Power:**

48 volts DC on pins 2 and 3 of Lo-z (mic) input. Rear panel switch. Silent turn on.

**Power Requirements:**

120 volts (±10%) 60Hz.

**Safety Listing:**

UL.

INPUT IMPEDANCE AND LEVEL						
INPUTS	MAX. VOLTAGE GAIN (20 LOG VO/VI)		SOURCE TYPE	ACTUAL INPUT IMPEDANCE	INPUT VOLTAGES NOMINAL	MAX BEFORE CLIP
	TO L,R PRE AMP OUT	TO L,R POWER AMP OUT				
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-OHMS (1.23 VOLT)	+4dB (38.8 VOLT)	+34dB (38.8 VOLT)
L,R G-EQ IN	24dB	51dB	LO OR HI-Z LINE	50K-OHMS	-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 (775 mv)	+10dB (2.45 VOLT)
EFF DIRECT			LO OR HI-Z LINE	110K-OHMS	+4dB (1.23 VOLT)	+34dB (38.8 VOLT)
PGM AUX IN	34dB	61dB	LO OR HI-Z LOW-LEVEL LINE	33K-OHMS	-20dB (775 mv)	+34dB (38.8 VOLT)
MON 1,2 DIRECT IN			LO OR HI-Z LINE	110K-OHMS	+4dB (1.23 VOLT)	+34dB (38.8 VOLT)
MON 1,2 AUX IN			LO OR HI-Z LOW-LEVEL LINE	50K-OHMS	-20dB (775 mv)	+10dB (2.45 VOLT)

OUTPUT IMPEDANCE AND LEVEL				
OUTPUTS	LOAD TYPE NOMINAL	ACTUAL OUTPUT IMPEDANCE	OUTPUT VOLTAGES NOMINAL	MAX BEFORE CLIP
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)

Dimensions:  
675mm (26.6")  
680mm (26.7")  
185mm (7.3")  
20kg (43.6 lbs)



# QUICK REFERENCE GUIDE (Model 3206)

