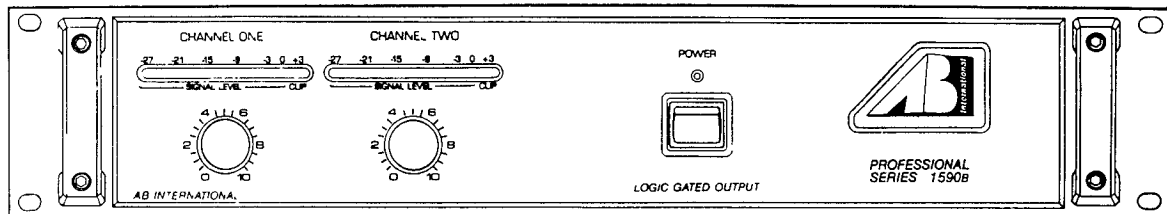




MODEL 1590B

PROFESSIONAL SERIES



The AB International Professional Series 1590B is a two channel stereo amplifier. This compact (two rack unit) instrument features individual channel level controls and 11 LED display, 1/4" jack inputs (unbalanced), XLR inputs (balanced), ground lift switch, and a Stereo/Bridge switch. The 1590B delivers 500 Watts per channel into 8 Ohm, 800 Watts per channel into 4 Ohm, and 1050 Watts into 2 Ohm from 20Hz-20KHz at .1% distortion.

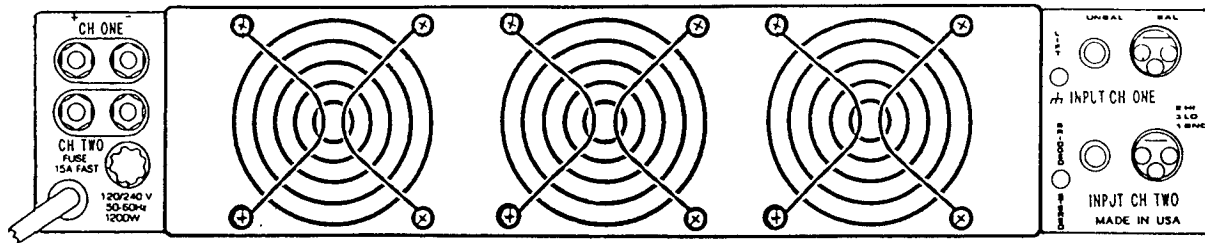
The 1590B employs only 20dB of negative feedback to reduce forward transfer distortion components to minimum levels. VI energy limiters are incorporated for short-circuit protection and a thermal sensor prevents an over-temperature condition.

Other features include three dual speed temperature actuated DC fans, "Soft Clip" speaker protection circuitry, selectable input sensitivity, and a fully modular construction for service accessibility.

The AB International Model 1590B features the "Logic Operated Gated Output" supply system. High current, fully complimentary output stages are powered by dual tri-level supplies that gate the operating voltages around the output wave form. This is used to control and eliminate unused and inefficient headroom.

The 1590B operates from 100-240V 50-60Hz AC mains and measures 3 1/2" high (two rack unit), 19" wide and 15" deep.

AB MODEL 1590B SPECIFICATIONS



Type:	Two channel amplifier	Slew Rate:	Closed-loop response greater than 40V per microsecond
Continuous Power Output Per Channel 20Hz to 20KHz:	500w into 8 Ohms 800w into 4 Ohms 1050w into 2 Ohms	Crosstalk:	-80dB
Frequency Response:	1300w 8 ohms Bridged 1650w 4 ohms Bridged Plus/minus 0.25dB 20-20kHz	Gain:	36dB
Distortion:	No more than 0.1% THD or IM 0.01 to rated output.	Mainframe Power Supply:	Toroidal transformer 4EA (20,000 uf) capacitors
Hum & Noise:	101 dB below rated output (unweighted, 20kHz bandwidth)	Turn-On Delay:	3 sec., solid-state actuated
Input Sensitivity:	1.0V RMS for rated output (selectable) .775V, 1.0V, 1.5V	Power Requirements:	AC Mains- 100-240VAC 50/60Hz@15A/7.5A
Input Connectors:	1/4" phone jack (balanced) XLR (balanced)	Thermal Protection:	Thermal sensor activates channel shutdown if an overheating condition exists
Output Connect.:	5-way binding posts	DC Protection:	DC sensor activates channel shutdown if DC condition exists, Soft clip protection
Control & Indicators:	(Front panel) AC mains power switch, power on LED, level controls, 11 LED displays, (Rear panel) ground lift switch, stereo/bridged/parallel switch	Heatsink and Cooling:	Dual speed fans providing extra power handling utilizing massive heatsink extrusions
Damping Factor:	1000:1 at 1kHz	Construction:	14-gauge cold-rolled steel with 3/16" heavy aluminum front panel
		Dimensions:	Slimline 3 1/2" height, 19" standard rack mount width, 15" depth overall (less handles)
		Weight:	39 lbs. (17.72 kg)