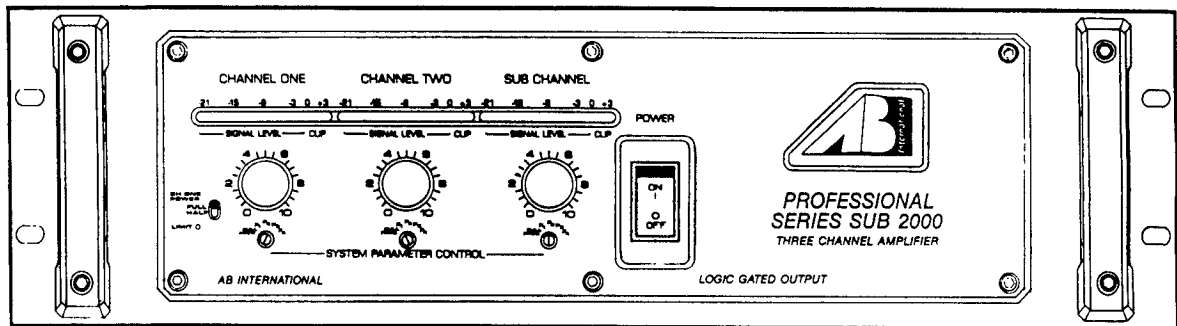




# MODEL SUB2000

## THREE CHANNEL AMPLIFIER



The AB International Professional Series SUB2000 is a three channel full featured Amplifier . This compact instrument is equipped with three independent balanced inputs, detented level controls, 9 LED output power display with Soft Clip indication, dual high CFM fans with temperature activated speed control, ground lift, selectable input sensitivity, Channel One and Two bridging and internal crossover with each channel having up to four frequency selections. Each channel has individual balanced crossover outputs for feeding the signal to other amplifiers.

The SUB2000 is rated in power from 20Hz to 20kHz with Channel One and Two delivering 270w into 8 ohms and 425w into 4 ohms. Channel Three(Sub) supplies 850w into 4 ohms and 1125w into a 2 ohms.

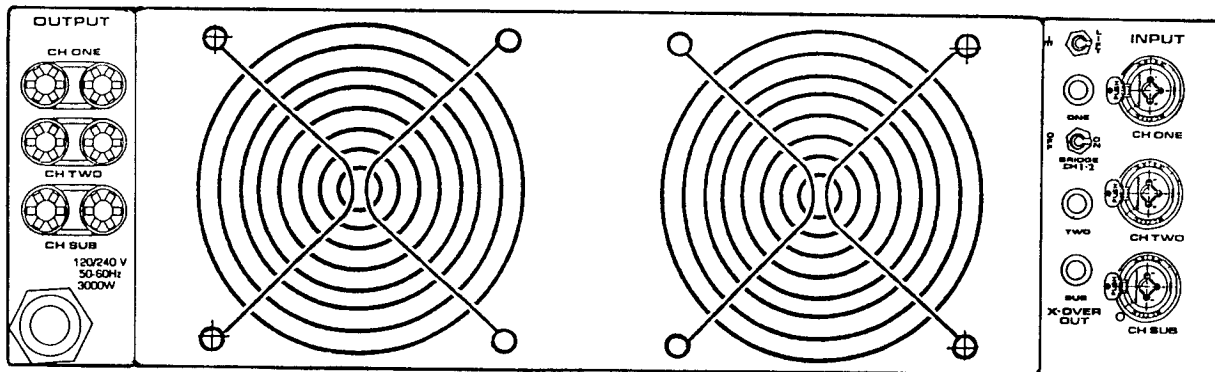
The SUB2000 crossover is front panel selectable with security capability and features 24dB per octave Linkwitz Riley filters. Standard crossover frequencies include 80Hz, 1.2kHz,1.6kHz and 800Hz - 5kHz (tri-amping). The internal crossover card is easily removable and custom frequencies are available upon request.

The SUB2000 can be used in many applications, the most common being a two way configuration using subwoofers and passive full range speakers crossed over at 80Hz. Other uses are tri-amping, bi-amping with an extra channel for monitors, three channel operation with an external speaker processor or as a straight three channel full range amplifier. All of these options can be accomplished through the System Parameter Controls.

The SUB2000 incorporates many extensive protection circuits such as, Soft Clip protection circuitry, load sensing current limiting, short circuit protection, delay turn on with in-rush current eliminator, DC fault shutdown and individual channel thermal protection. With all this protection AB International is able offer a full three year warranty.

The AB International Model SUB2000 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.

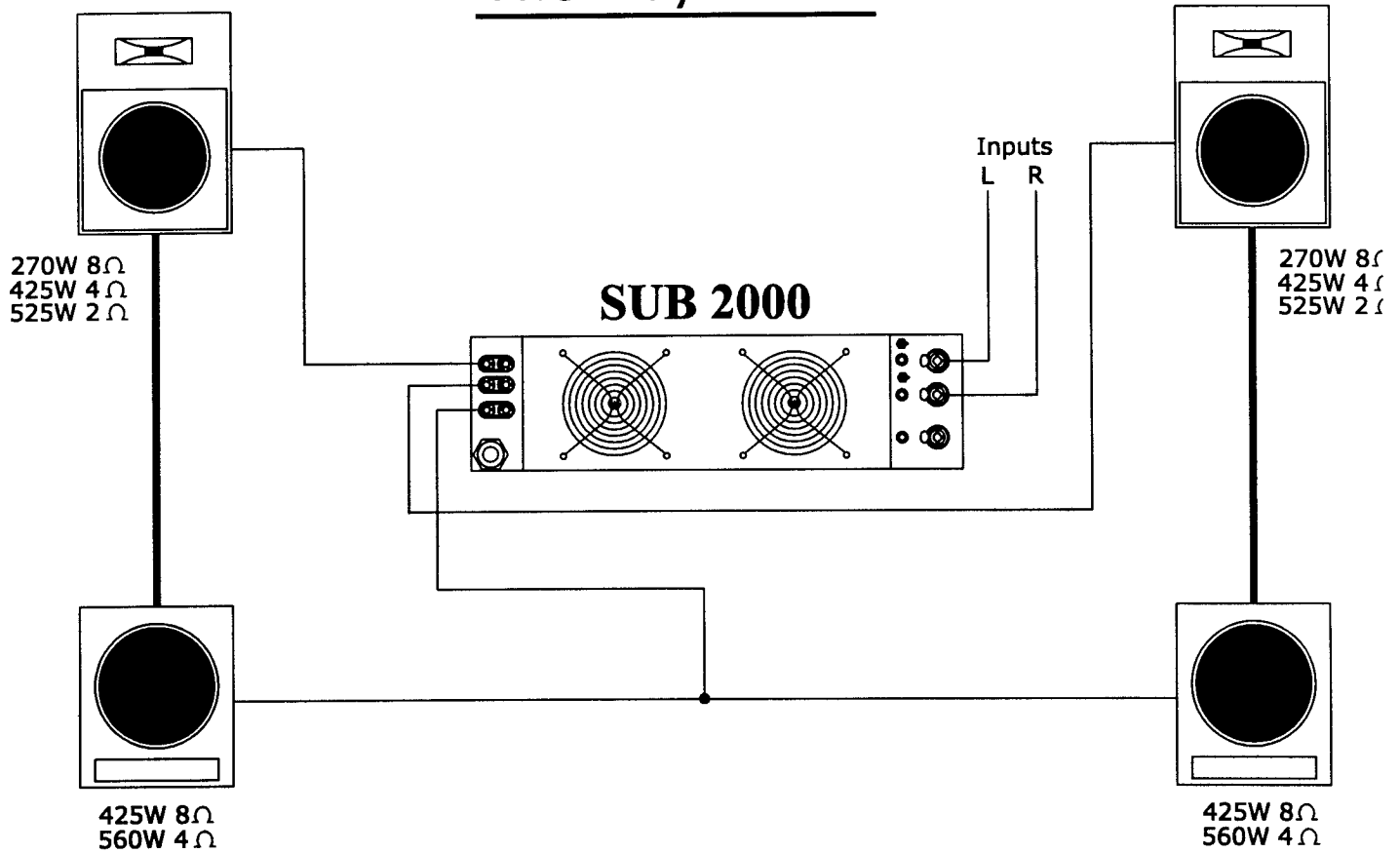
# AB MODEL SUB2000 SPECIFICATIONS



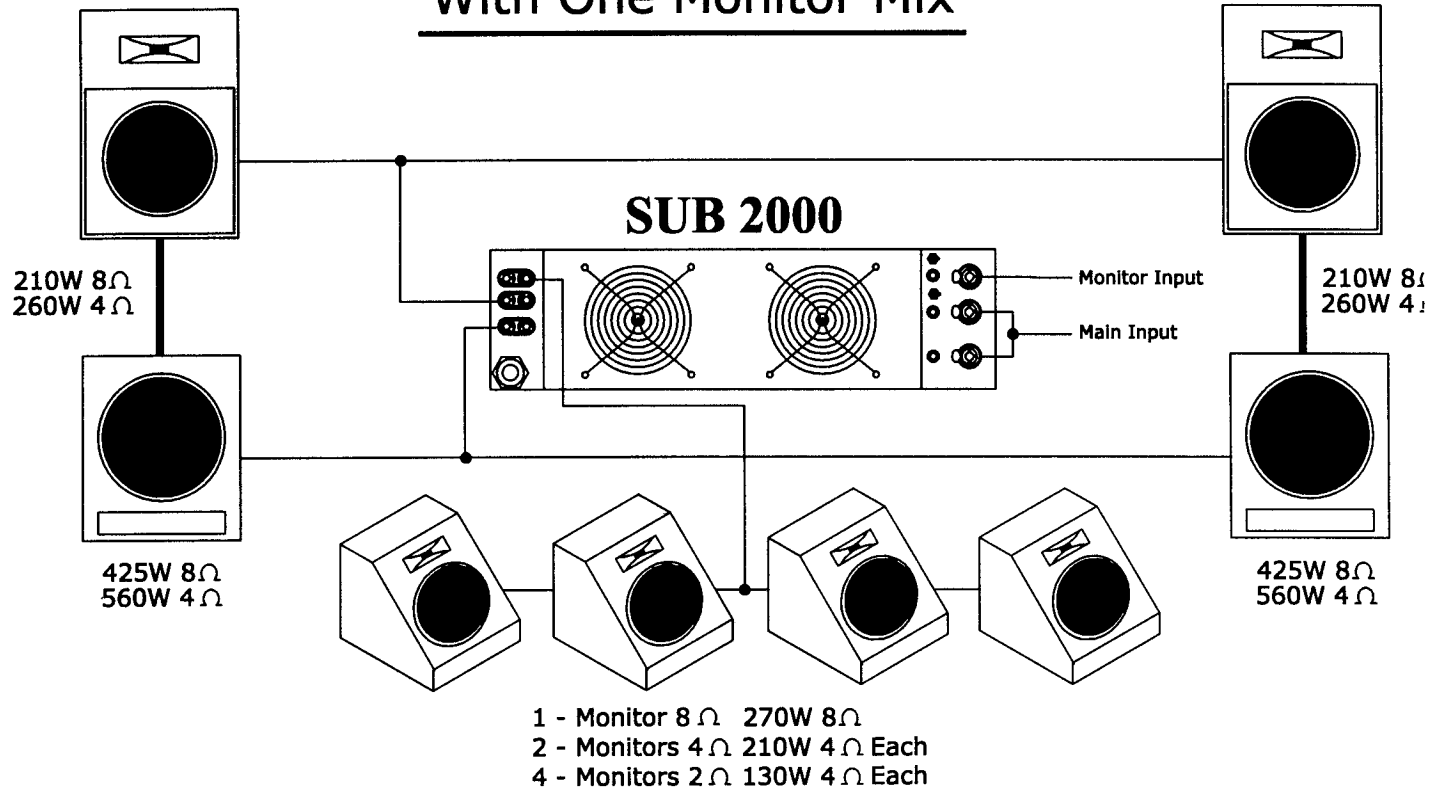
<b>Type:</b>	Three channel amplifier with an selectable crossover	<b>Damping Factor:</b>	1000:1 at 1kHz
<b>Continuous Power Output Per Channel</b>	270w into 8 Ohms Ch 1 & 2 425w into 4 Ohms Ch 1 & 2 525w into 2 Ohms Ch 1 & 2	<b>Slew Rate:</b>	Closed-loop response greater than 40V per microsecond
<b>20Hz to 20KHz:</b>	700w 8 ohms Bridge Ch 1 & 2	<b>Crosstalk:</b>	80dB
<b>All Channels Driven:</b>	900w 4 ohms Bridge Ch 1 & 2 525w into 8 ohms Ch 3(Sub) 850w into 4 ohms Ch 3(Sub) 1125w into 2 ohm Ch 3(Sub)	<b>Gain:</b>	28dB Ch 1& 2, 33dB Ch 3
<b>Frequency Response:</b>	Plus/minus 0.25dB 20-20kHz	<b>Mainframe Power Supply:</b>	Toroidal transformer 6EA (20,000 MFD) capacitors
<b>Distortion:</b>	No more than 0.1% THD or IM 0.01 to rated output.	<b>Turn-On Delay:</b>	3 sec., solid-state actuated
<b>Hum &amp; Noise:</b>	101 dB below rated output (unweighted, 20kHz bandwidth)	<b>Power Requirements:</b>	AC Mains- 100-240VAC 50/60Hz@15A/7.5A
<b>Input Sensitivity:</b>	1.0V RMS for rated output (selectable) .775V, 1.0V, 1.5V	<b>Thermal Protection:</b>	Thermal sensor activates channel shutdown if overheating condition exists
<b>Input Connectors:</b>	XLR (balanced) 5-way binding posts	<b>DC Protection:</b>	DC sensor activates channel shutdown if DC condition exists, Soft clip protection
<b>Output Connect.:</b>	(Front panel) AC mains power breaker, power on LED, level controls, 9 LED displays, frequency selector switches, (Rear panel) ground lift switch, stereo/bridged switch	<b>Heatsink and Cooling:</b>	Dual speed fan providing extra power handling utilizing massive heatsink extrusions
<b>Control &amp; Indicators:</b>	Ch 1 & 2, crossover outputs 1/4" TRS (balanced).	<b>Construction:</b>	14-gauge cold-rolled steel with 3/16" heavy aluminum front panel
		<b>Dimensions:</b>	Slimline 5 1/4" height, 19" standard rack mount width, 14" depth overall (less handles)
		<b>Weight:</b>	42 lbs. (18.61kg)

# SUB 2000 APPLICATIONS

## Two Way Stereo

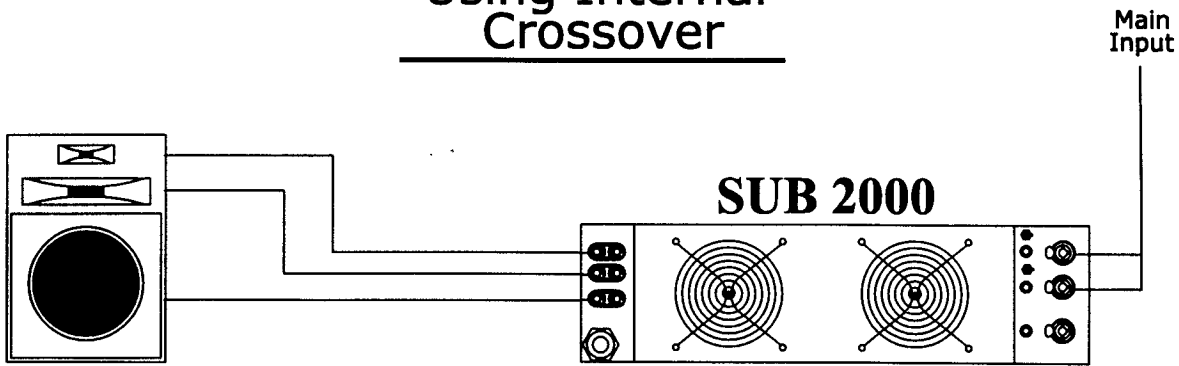


## Two Way Mono With One Monitor Mix



# SUB 2000 APPLICATIONS

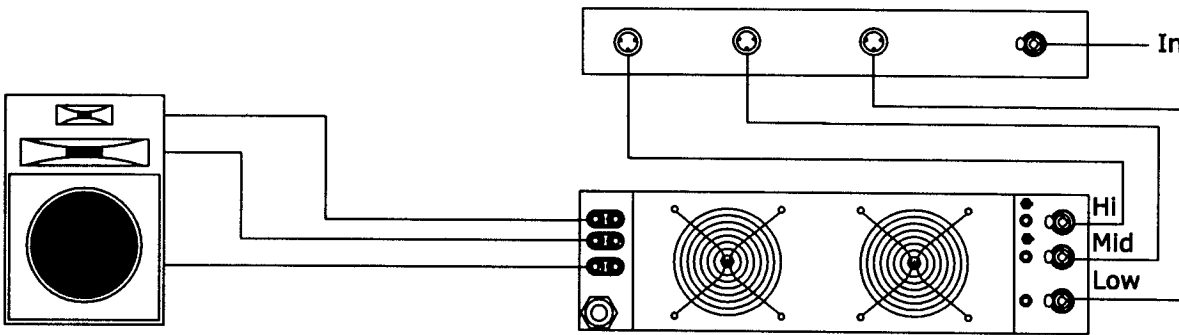
## Tri Amp Mode Using Internal Crossover



Hi - 16 $\Omega$  - 75W - Using 1/2 Power limit  
Mid - 8 $\Omega$  - 270W  
Low - 8 $\Omega$  - 525W

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## Tri Amp Mode Using External Speaker Processor

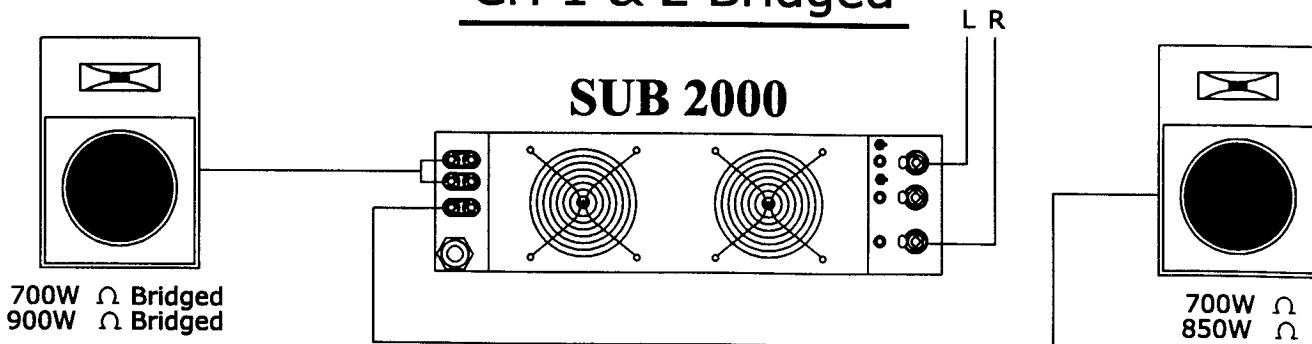


### SUB 2000

Hi - 16 $\Omega$  - 75W - Using 1/2 Power limit  
Mid - 8 $\Omega$  - 270W  
Low - 4 $\Omega$  - 850W

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## Two Channel Amp CH 1 & 2 Bridged



700W  $\Omega$  Bridged  
900W  $\Omega$  Bridged

700W  $\Omega$   
850W  $\Omega$