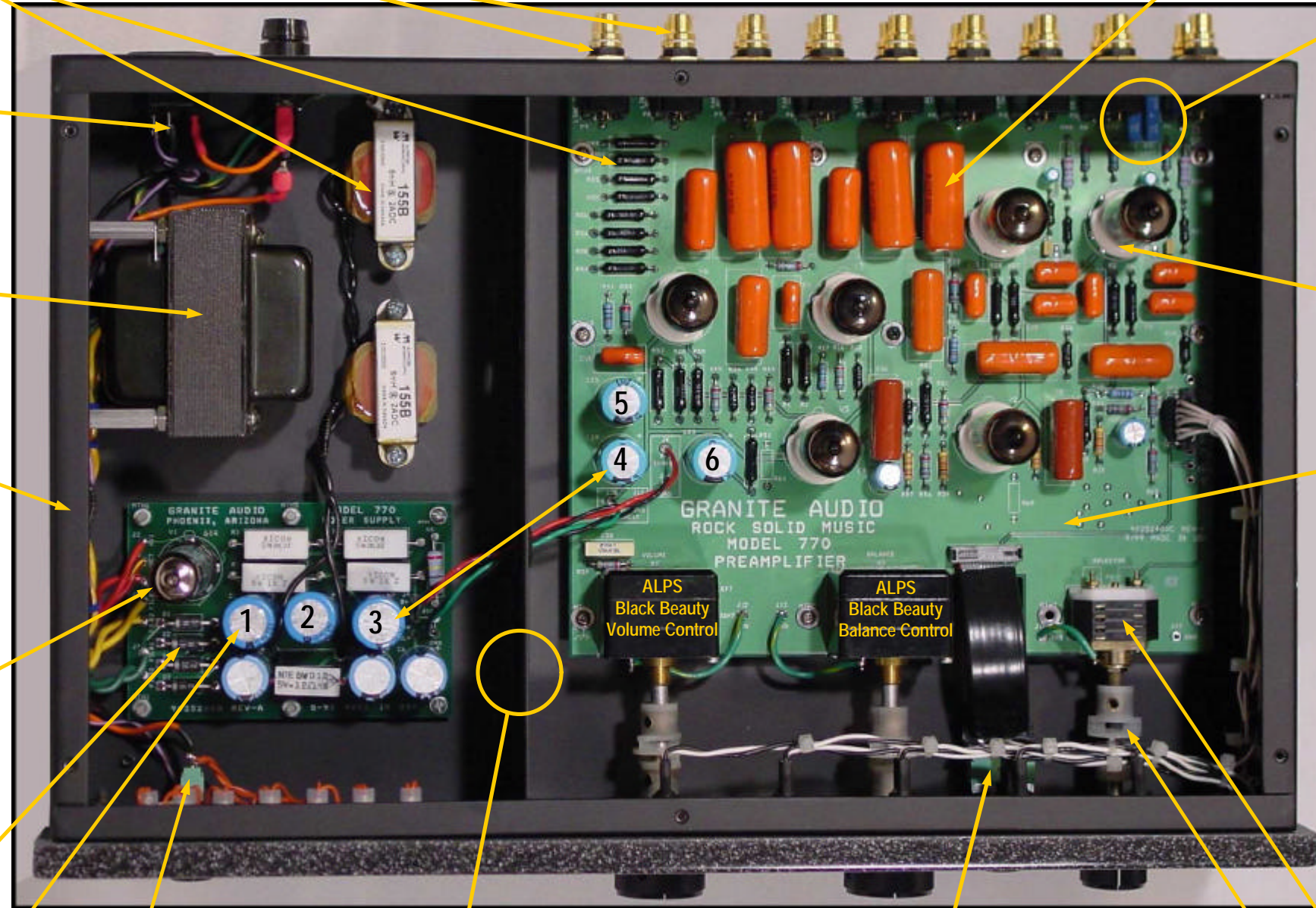




Model #770 Preamplifier



No other preamp in the world has all these high quality features and parts.

Resistors.
High-performance expensive HOLCO resistors with copper leads in signal path, tube plate, and other critical circuits.

Filter chokes.
Dual high-inductance high-current filter chokes in filament power supply. These are extremely important for a quiet phono section.

Power inlet.
Universal 15 amp IEC power inlet with removable cord. This gives choice of cord length and option to upgrade to Granite Audio Model #555 or #560 handcrafted power cords.

Transformer.
Custom laminated transformer for the ultimate tube sound. It's grounded to the steel chassis and isolated from the main signal circuits in it's own shielded compartment for the maximum in low noise operation. The B+ winding is rated to 400% over typical current demand.

Chassis.
One piece solid steel powder-coated and welded for maximum resonance control, durability, noise rejection, EMI/RFI shielding, and strength. Mounting bolts fit into quality threaded inserts and standoffs.

Vacuum tube rectification.
High-current 6X4 rectifier tube for high voltage B+ circuit. Tube rectification gives a fuller richer bass response and automatic soft-start to the power supply because it has to warm up slowly before the B+ reaches full voltage of 300VDC. Tube rectifiers also create a smoother voltage rail without the spikes and noise often associated with diode rectifiers.

Ultra-Fast Recovery Schottkey Rectifiers.
These give a smoother voltage rail and lower noise floor to the filament circuits than lesser diodes would. This contributes to the ultra quiet operation of the sensitive phono section.

B+ Filtration.
There are 3 levels of B+ Pi filtration on the power supply board and 3 more levels of filtration on the main PC board, for a total of 6 filters. This gives an ultra-low noise floor and pure black background for your favorite music passages.

Bi-Amp Outputs.
True dual-isolated Bi-amp outputs. The HI OUTPUT jacks are 3dB louder than the LOW OUTPUT jacks for more connection options. Jacks are 24Kt. gold-plated silver on OFC copper base.

Capacitors.
High AC current handling polypropylene capacitors by Sprague. These capacitors give a smooth musical presentation, clean details, and excellent dynamic range.

Vinyl lovers note:
Dual Vishay adjustable resistors for "loading" the phono cartridge. They're easily adjusted by the user to match any brand of phono cartridge. This adjustment is extremely important to give accurate flat playback of the RIAA Equalization curve that all vinyl records are encoded with at the time of mastering. The Model #770 Preamp comes with the adjustment tool and a Model #CD-101 Phono Burn-In & RIAA Test CD. If you've ever thought your favorite records sounded too bright on some cartridges, it's probably because the wrong value of load resistor was used in the preamp. This 15-turn precision adjustable Vishay resistor can be precisely set to the exact correct load for any moving magnet or high-output moving coil cartridge for the ultimate accurate smooth playback.

Tube Sockets.
Sockets are mil spec quality porcelain with silver plated pin sockets and are wave soldered directly to the PC board.

4-Layer PC Board.
Our printed circuit board is actually 4 layers of traces with a solid copper shield between each of the layers. The high-voltage low-current B+ circuits are on the top layer. The low-voltage high-current filament circuits are on the bottom layer.

The signal traces are on the two middle layers. By putting the signal traces onto 2 layers, the traces can cross each other at perpendicular angles which eliminates the noise and interference found in conventional single-layer boards that require the traces to run parallel to each other.

All the parts, controls, and input/output jacks are wave-soldered directly on the 100% shielded PC board. So, every circuit is completely shielded. The only wires in the main compartment are the ones that supply the voltage from the power supply to the main board and the ones that supply the voltage to the front panel LED indicator lights. None of which are in the signal path. This no-wire 100% shielding design gives us the ultimate in low-noise, black background, and maximum clean signal path for your favorite music.

Main power switch.
Contacts are gold-plated solid silver for the ultimate in clean signal transfer and maximum life without signal degradation. Hermetically sealed body for long maintenance-free operation. This Alcoswitch is rated for 35,000 cycles at 6amps.

Power supply shielding.
Special steel bulk-head welded in place for maximum shielding of power supply from signal circuits.

Tape monitor switch.
Contacts are gold-plated solid silver for the ultimate in clean signal transfer and maximum life without signal degradation. Hermetically sealed body for long maintenance-free operation. This Alcoswitch is rated for 50,000 cycles at 6amps.

Shafts.
Custom insulated flexible shaft couplers give a smooth tactile feel to the front panel knobs and create an insulation barrier to hum & noise that might enter the circuit through the shaft when the knobs are handled.

Selector switch.
Contacts are gold-plated solid silver for the ultimate in clean signal transfer and maximum life without signal degradation. Hermetically sealed body for long maintenance-free operation. This Alcoswitch is rated for 35,000 cycles at 6amps.