

PRO Series

Dual Source Speaker Selectors

Installation Manual

Description

The PRO series speaker selectors are highly efficient dual-source, impedance-matching selectors. These high-quality speaker selectors are designed for use with either 4-ohm or 8-ohm amplifiers and 4-ohm to 8-ohm speakers.

The PRO speaker selectors are equipped with a low-frequency protection circuit to reduce subsonic signals. This allows high power operation without amplifier shutdown. The PRO units employ audiophile-grade impedance matching autoformers to maintain a safe operating load at the amplifier while distributing maximum power through the system. Autoformers are very efficient because of the small loss incurred as a result of heat dissipation. The series is equipped with a back panel rotary switch, which is used to set the appropriate impedance based on the number of pairs of speakers connected. This switch selects the proper taps of the autoformers, allowing all of the amplifier's power to be delivered to the speakers.

The PRO speaker selectors can be connected to one or two amplifiers. A front panel button allows switching between the two amplifiers for all speakers connected to the unit.

Connections

The PRO series have 4-pole screw down removable terminals for speaker and amplifier connections. These accept wire up to 12 gauge.

Remove the terminal by firmly pulling it out of its 4-pole connector. Strip about 3/8" of insulation from the ends of all wires to be connected. If necessary, twist the exposed conductor to insure that no loose strands exist. Insert the wire ends into the screw down connector, being careful to observe proper channel and polarity. Tighten the screws on the connector. Connect the amplifier(s) and each pair to the appropriate connector.

If external volume controls are used, connect speaker wire from the appropriate speaker connector on the PRO to the volume control input. Speaker connections can support multiple speaker pairs wired in parallel or series, provided their combined impedance is a minimum of 4 ohms.

Setting System Volume

It is important to properly adjust an impedance-matching system to avoid distortion or DC clipping (DC voltage will be produced from an amplifier that is overworked or that has an improper load). These can cause an amplifier/receiver to go into protection, and can cause autoformers on volume controls to heat up, damaging system components. To set up the system, the amplifier/receiver volume should be at its lowest setting, and the selector volume control should be at the highest setting. Slowly adjust the amplifier/receiver volume to a level that is acceptable for the amplifier to produce without clipping.

Operation

To ensure safe operation of the amplifier, an impedance level must first be selected using the rotary switch labeled SPEAKER PAIRS located on the rear of the unit. This switch should be set to the total number of speaker pairs being connected to the unit. Set the switch based on the following conditions:

- If the amplifier and the speakers are both 4 ohms, set the rotary switch to the number of pairs of speakers connected to the PRO.
- If the amplifier and the speakers are both 8 ohms, set the rotary switch to the number of pairs of speakers connected to the PRO.
- If the amplifier is 8 ohms and the speakers are 4 ohms, set the rotary switch to TWICE the number of pairs of speakers connected to the PRO.
- If the amplifier is 4 ohms and the speakers are 8 ohms, set the rotary switch to HALF the number of pairs of speakers connected to the PRO.

After setting the proper impedance level, the speakers can be turned on and off in any combination.

To switch between the A and B amplifiers, push the AMP A / AMP B button located on the front panel.

Technical Specifications

Power:	100 watts per channel RMS continuous 200 watts per channel average 300 watts per channel peak
Impedance Matching:	High-efficiency impedance-matching autoformers
Low-Frequency Protection:	Bi-polar capacitor circuit
Wire Size:	up to 12 gauge wire
Dimensions:	17" W x 2.875" H x 8.25" D (43.2 x 7.3 x 21 cm)
Weight:	PRO-6 7.52 lbs. (3.4 kg) PRO-8 7.75 lbs. (3.49 kg) PRO-12 7.995 lbs. (3.58 kg)

Warranty

The Russound PRO Series is fully guaranteed against all defects in materials and workmanship for ten (10) years from the date of purchase. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Russound.

This Warranty does not cover:

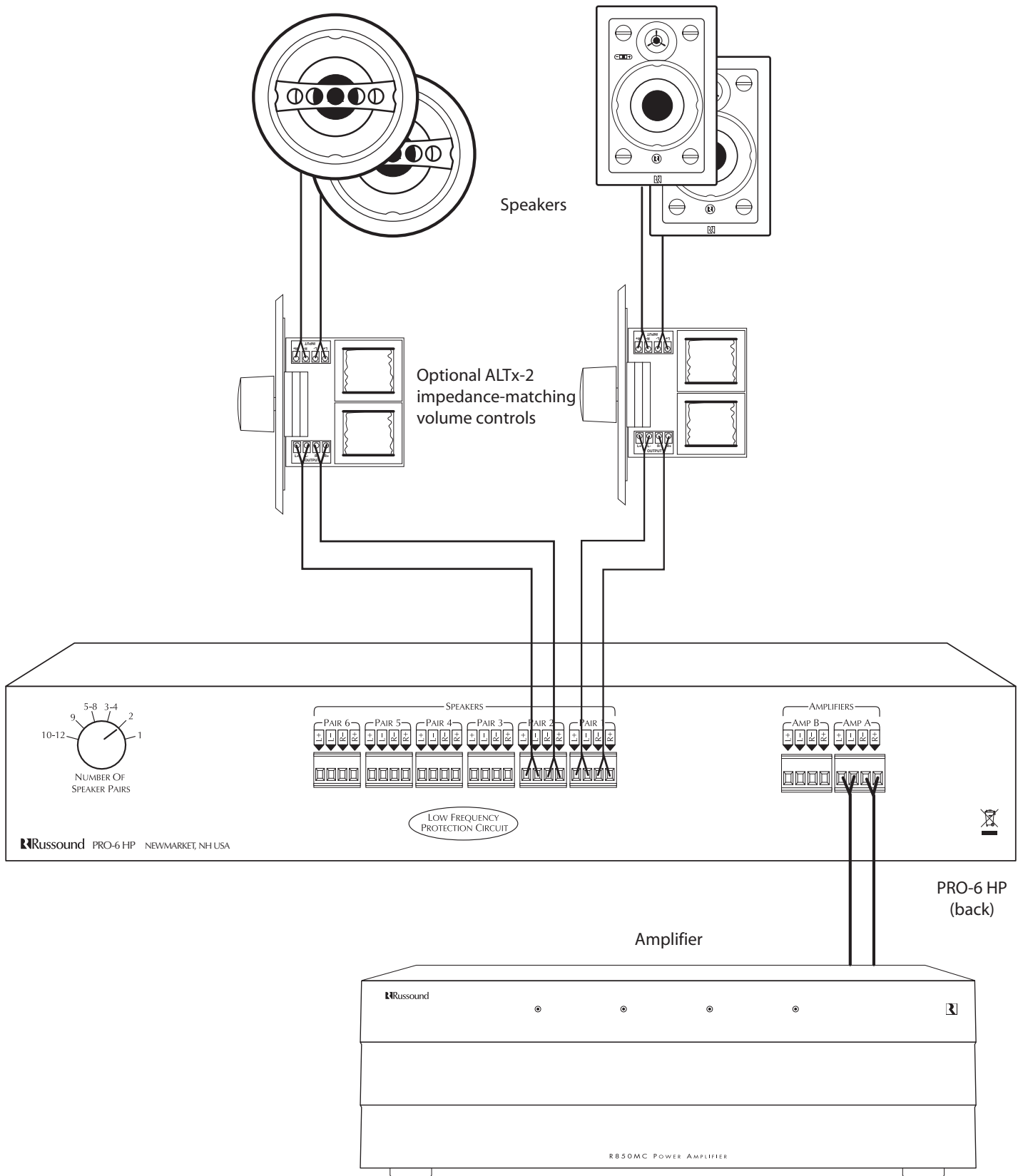
- Damage caused by abuse, accident, misuse, negligence, or improper installation or operation
- Power surges and lightning strikes
- Normal wear and maintenance
- Products that have been altered or modified
- Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed.

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write this number on the shipping label and ship to: Russound, ATTN: Service, 5 Forbes Road, Newmarket, NH 03857

Due to continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise system specifications without notice.



PRO speaker selector diagram showing connection of speaker and amplifier (Not to scale)



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