Stereo Speaker Selector

Audio

Six Pairs Speaker Selector
PW154-7

- **2 Sources to 6-paire speaker with push type switch**
- **High power handling: 180 watts/channel (RMS)**
- **8 ohm impedance Chart**
- **Weight: 4Kg or 8.82lb**
- **13.9"L x 2.8"H x 7.0"W or L: 354 m/m x H: 71 m/m x W: 177 m/m**

Owners Manual

The PW154-7 speaker selection system, enables you to play up to six of speakers throughout your home . play one pair , any combination of pairs , or all pairs at once.

The output from the receiver is wired directly to the PW154-7 From there, speaker wire is run to speakers located in the family room, the living room, the dining room, the pool area, the kitchen and the master bedroom, Music for eachlocation is selected by pressing the corresponding bottom on PW154-7.

FEATURES:

- Connects up to six pair of speakers.
- Autoformer impedance matching designed for high quality audio distribution. low power loss. no heat generation.
- Separate left and right channel ground paths for compatibility with all amps. even bridged.
- A/B source switch can play either source A or source B.
- Push - to - connect terminal handle up to 8 gauge speaker wire .
- Power handling capability of 360 watts / channel (continuous music power)
- May be used with 4,6 or 8£[speaker systems.
- Ideal for both home and commercial sound installations.

Installation consideration:

Type of speaker wire

For most applications, we recommend you use 12 or 14 gauge, standard copper speaker wire for the PW154-7 connections. For wiring runs longer than 80 feet, 8 gauge wire is recommended.

When running speaker wires inside walls, you must use a special type of speaker wire. Usually ,the requirement is that the wire has a specific "CL" fire rating, such as "CL-2" or "CL-3".

Avoiding interference

Speaker wires can act as an "antenna" for electrical noise. Locating speaker wire too close a light dimmer or switch may cause a "buzzing" or "popping" sound to be heard through the speakers. If you must locate the PW154-7 wiring near electrical devices, route the speaker wires several feet away from the electrical wiring.

Amplifier impedance load

As most pairs of speakers are parallel connected to a receiver or amplifier the overall system impedance becomes lower. For example, if two pairs of 8£[speakers are connected in parallel. the impedance will be 4£[; two pairs of 4£[speaker in parallel become 2£[; and so on Most receivers or amplifiers are no rated for use below a 4£[load. most manufactures do not recommend connecting more than two pairs of speakers without using some form of impedance correction. The PW154-7 includes impedance correction circuitry, which protects your receiver or amplifier from low impedance loads. The circuitry assures that your receiver or amplifier will see a safe operating load ,even when all four speaker pairs are playing at the same time.

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Impedance correction

This process insures that the impedance load shown to the receiver or amplifier never goes below the rated capabilities of the receiver or amplifier. See the chart on the below for specific impedance loads that will be presented to your amplifier. depending on the number and specific impedance of the speakers that your using.

	Number of speaker playing						impedanc e correction
	1	2	3	4	5	6	
4 speakers	4	x	x	x	x	x	24.0
	4	4	x	x	x	x	12.0
	4	4	4	x	x	x	8.10
	4	4	4	4	x	x	6.10
	4	4	4	4	4	x	4.90
	4	4	4	4	4	4	4.10

	Number of speaker playing						impedanc e correction
	1	2	3	4	5	6	
8 speakers	8	x	x	x	x	x	24.0
	8	8	x	x	x	x	21.0
	8	8	8	x	x	x	14.0
	8	8	8	8	x	x	11.0
	8	8	8	8	8	x	8.50
	8	8	8	8	8	8	7.20

Installation

1. Select a convenient mounting location for the PW154-7.
2. Run all the necessary wiring to the PW154-7. Label the wires for future reference.
3. Make the connections to the PW154-7.

a. Strip 3/8" of insulation from the end of each wire.
b. Tightly twist the end of each wire until there are no frayed ends.
c. Insert each wire into the appropriate hole on the spring loaded push connect terminal.

4. Make certain that all connections between your amplifier and the PW154-7 and between the PW154-7 and each speaker are "phase correct". positive to positive and negative.

A Wiring Diagram