

# IW-303

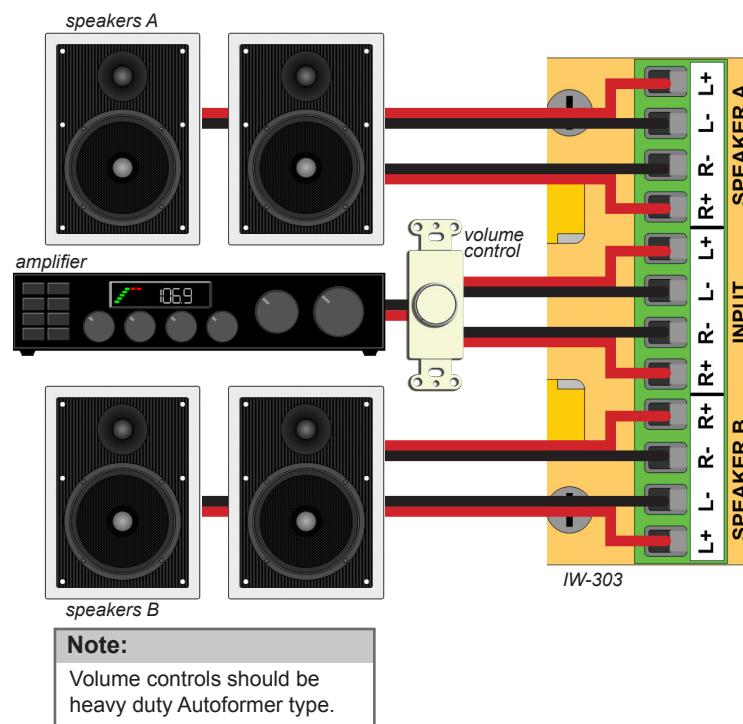
Speaker Switch  
Pair A or Pair B or Pairs A+B



**Pro-WIRE.**

Specifications	Available Colors:
Power Handling: 100W with 8 ohm speakers 50W with 4 ohm speakers	White: IW-303 Almond: IW-303 a Ivory: IW-303 i
Mounting Dimensions: Depth: 2.3" (59mm) Height: 2.4" (61mm) Width: 1" (25mm)	Overall Dimensions: Depth: 3" (76mm) Height: 4.1" (104mm) Width: 1.4" (36mm)
<b>Wire &amp; Wiring Notes:</b>	
18 gauge wire is the minimum recommended size. For runs in excess of 100 feet it is best to use 16 gauge or larger.	
Strip 1/4" off each wire. Ensure that all strands are twisted together and inserted into respective terminals. It is best to re-install the wire if stray strands are apparent, though trimming them may also work. Stray strands can bridge circuits, which can damage the switch and the electronics that are connected to the switch.	
Perform an initial functional test at low volume levels to prevent damage to the switch and other electronics.	
Always observe the correct polarity (+ to +) and (- to -) for all connections.	
<b>Precautions When Using Multiple Speakers</b>	
Because most amplifiers are designed to operate between 4 and 8 ohms an impedance compensating device should be used when using more than two pair of 8 ohm speakers. Two types of compensating devices are available from your OEM Systems dealer:	
<ul style="list-style-type: none"> <li>• Impedance Matching Volume Controls</li> <li>• Impedance Compensating Speaker Selectors</li> </ul>	
Which type you use will depend on your particular installation. Contact OEM Systems Co. or your dealer if you have questions about how to best configure your system.	

**Figure 2** Using the IW-303 with one (1) Volume Control for combined control over both speaker pairs



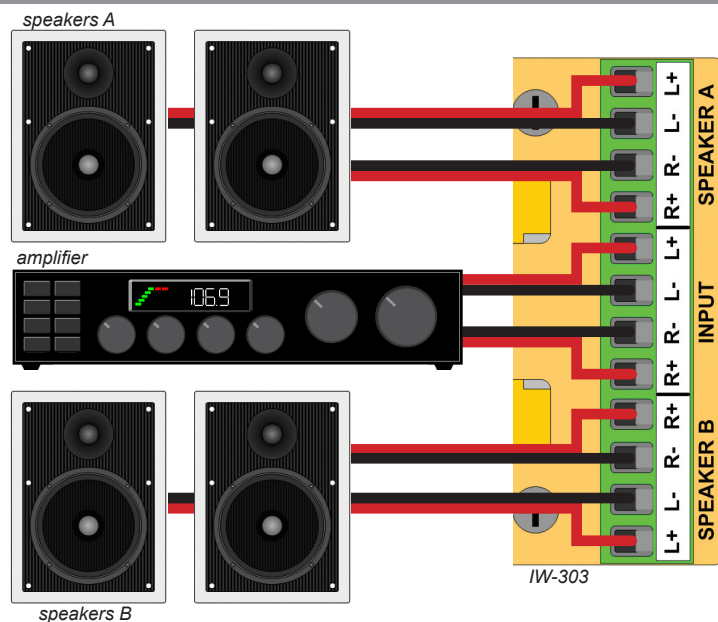
**Wiring Directions:**  
Connect the amplifier left & right speaker outputs to the terminal block marked "Input" on the OEM Autoformer Volume Control.

Connect the OEM Autoformer Volume Control terminal block marked "Output" to the IW-303 terminal block marked "Input".

Connect the left & right wires going to speaker pair "A" to the terminal block on the IW-303 marked "Speakers A".

Repeat for speaker pair "B" connecting to IW-303 terminal block marked "Speakers B".

**Figure 1** Using the IW-303 without Volume Control(s)

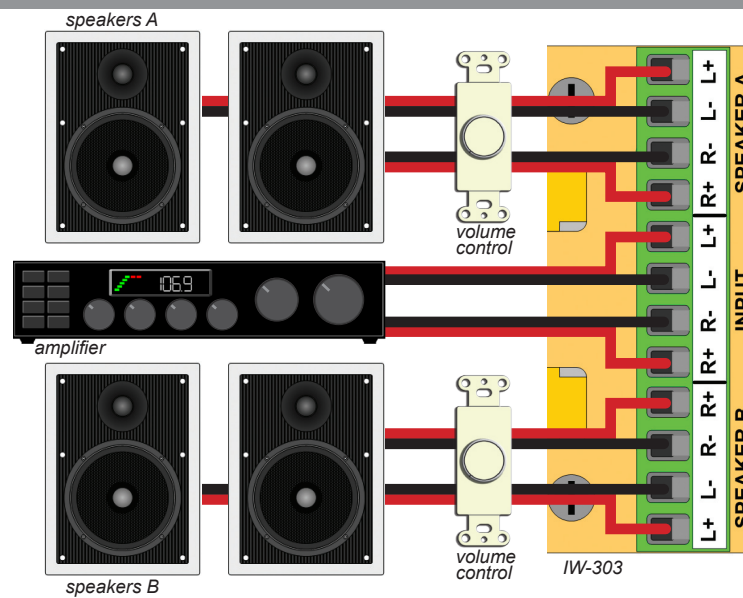


**Wiring Directions:**  
Connect the amplifier left & right speaker outputs to the terminal block on the IW-303 marked "Input"

Connect the left & right wires going to speaker pair "A" to the terminal block on the IW-303 marked "Speakers A".

Repeat for speaker pair "B" connecting to IW-303 terminal block marked "Speakers B".

**Figure 3** Using the IW-303 with two (2) Volume Control(s) for individual control over each speaker pair



**Wiring Directions:**  
Connect the amplifier left & right speaker outputs to the terminal block on the IW-303 marked "Input"

From the terminal block marked "Speakers A", run wires to the Input terminal block on one (1) OEM Autoformer Volume Control.

From the OEM Autoformer Volume Control terminal block marked "Output", connect the wires going to speaker pair "A".

Repeat for speaker pair "B" connecting to IW-303 terminal block marked "Speakers B".

**Suggestion:**  
When using two (2) controls, one (1) for each pair of speakers, locate the second volume control in the same room, or area, as the second pair of speakers.

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