

Thank you for choosing the Speco IMP80D impedance matching volume control.

The IMP80D is a unique adjustable designed impedance matching stereo volume control. The impedance matching 2x, 4x, 8x or 16x switch positions enable the IMP80D to connect up to 16 pairs of 8 ohm speakers or 8 pairs of 4-ohm speakers to a single 8 ohm stable amplifier and operate them simultaneously without the fear of amplifier overload, eliminating the need for a speaker selector or other impedance matching device.

*(Note: When using a 4-ohm stable amplifier, you can connect up to 32 pairs of 8 ohm speakers or up to 16 pairs of 4 ohm speakers.)*

### 8 ohm Speaker Chart

<i>Recommended Switch Position 8 ohm Stable Amplifier.</i>	
Connecting 2 Pairs of 8 ohm Speakers	2X Position
Connecting 3-4 Pairs of 8 ohm Speakers	4X Position
Connecting 5-8 Pairs of 8 ohm Speakers	8X Position
Connecting 9-16 Pairs of 8 ohm Speakers	16X Position
<i>Recommended Switch Position 4 ohm Stable Amplifier.</i>	
Connecting 2-4 Pairs of 8 ohm Speakers	2X Position
Connecting 5-8 Pairs of 8 ohm Speakers	4X Position
Connecting 9-16 Pairs of 8 ohm Speakers	8X Position
Connecting 17-32 Pairs of 8 ohm Speakers	16X Position

### 4 ohm Speaker Chart

<i>Recommended Switch Position 8 ohm Stable Amplifier.</i>	
Connecting 2 Pairs of 4 ohm Speakers	4X Position
Connecting 3-4 Pairs of 4 ohm Speakers	8X Position
Connecting 5-8 Pairs of 4 ohm Speakers	16X Position
<i>Recommended Switch Position 4 ohm Stable Amplifier.</i>	
Connecting 2 Pairs of 4 ohm Speakers	2X Position
Connecting 3-4 Pairs of 4 ohm Speakers	4X Position
Connecting 5-8 Pairs of 4 ohm Speakers	8X Position
Connecting 9-16 Pairs of 4 ohm Speakers	16X Position

### Wiring and Installation

First determine the minimum operating impedance of the amplifier to be used in your installation. This information should be in your amplifier owner's manual. Using the speaker chart at left choose the proper position for the impedance matching switch (see Fig. 1) and put the switch in the correct position.

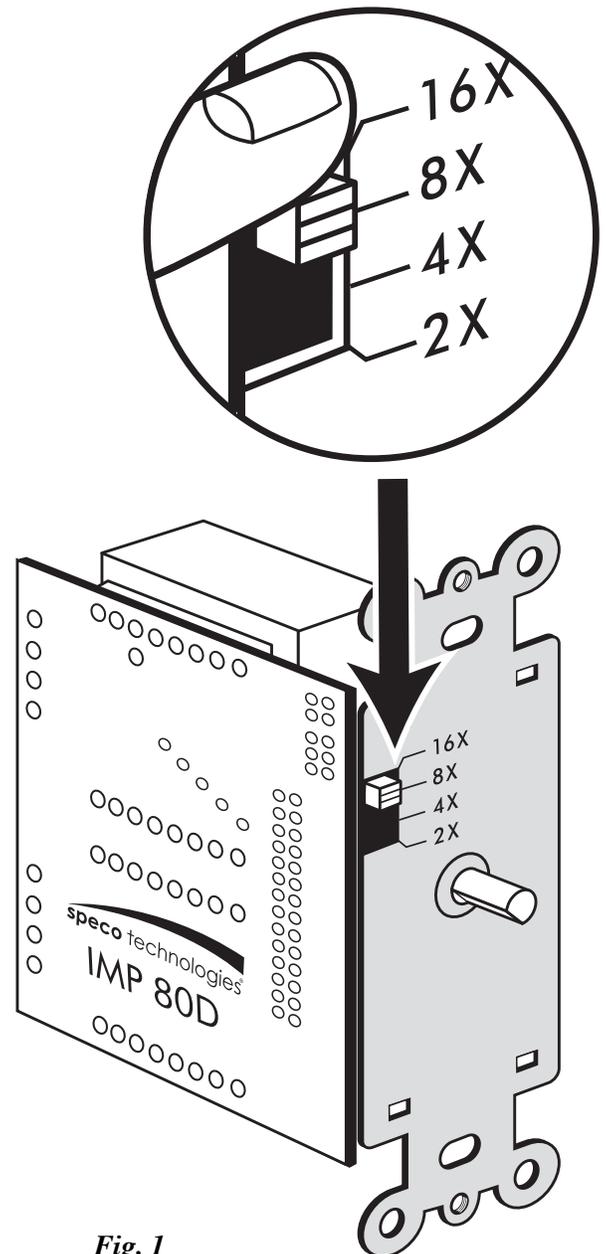


Fig. 1

## Wiring Instructions (Fig. 2)

The IMP80D has detachable connector blocks to which the amplifier and speaker wires should be connected. When connecting the speaker leads from the amplifier outputs to the volume control's red input connector block, strip about an 1/8 inch of insulation from the wire and twist or solder it so that there are no loose strands. Insert the wires from the amplifiers outputs into the volume control connector block inputs.

**Note:** Wires should stay consistent right + from the amplifier to right + on the input side of the connecting block. Most speaker wire has some form of identification such as raised ribs or color coding to help determine positive and negative connections. Connect the speakers to the black output connector block following the same format as above. When the wires are connected to the blocks, plug them back into the volume control input and output. Do not apply undue pressure while plugging it into the socket. Make sure the plug is engaged in the socket properly and is not loose.

**Caution:** Do not reverse the input and output connections or serious damage may occur to your amplifier.

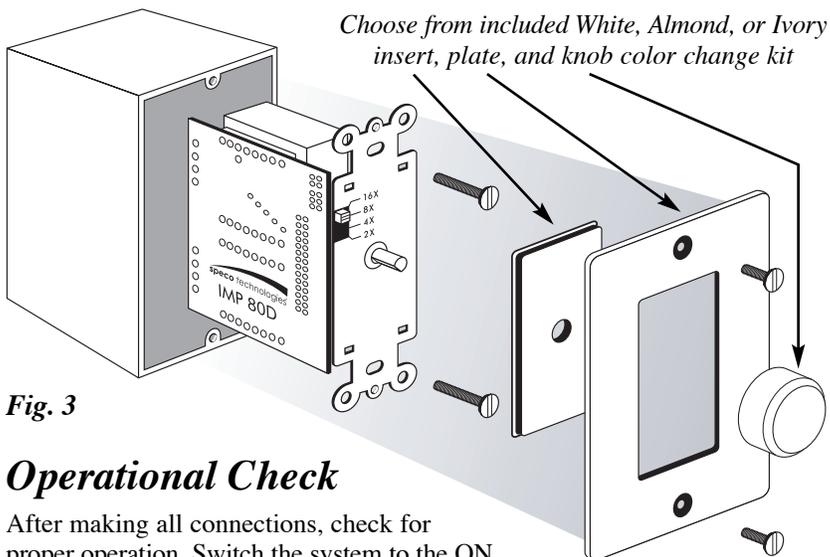


Fig. 3

## Operational Check

After making all connections, check for proper operation. Switch the system to the ON position. Using either the television or music, slowly increase the volume on the amplifier/receiver to mid position. Now, slowly rotate the volume control knob on the IMP80D, from its minimum position towards its maximum position. You should hear sound emanating from the speakers, increasing in volume as you rotate the volume control knob through its twelve steps. Select the level of sound that is most pleasing to you. If no sound is heard from any or all speakers, switch the system OFF immediately and check for open or loose connections, wrong polarity, or shorts in the wires.

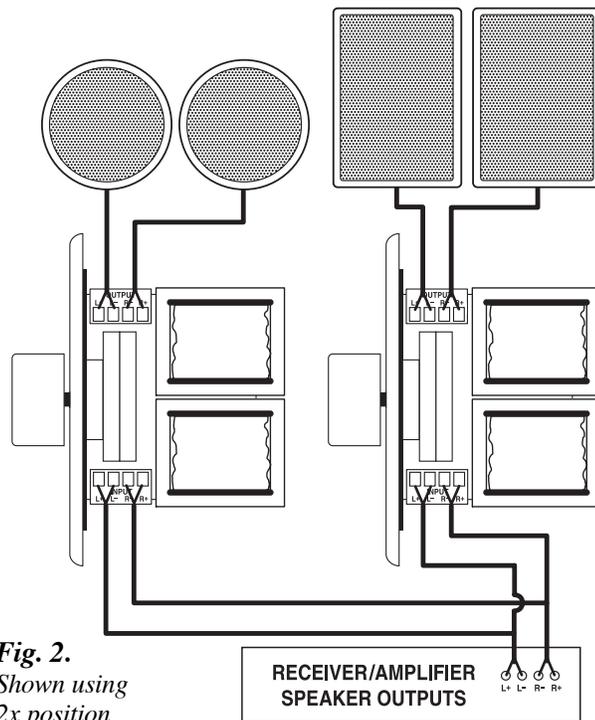


Fig. 2.  
Shown using  
2x position

## Mounting (Fig. 3)

Using the screws provided, install the completed assembly into a single gang electrical work box, approximately 18 cubic inches or greater. An open back electrical box or plaster ring may be more convenient for all the wiring to fit.

**Note:** Avoid mounting the IMP80D next to AC lines or dimmers.

## Specifications

- Switchable impedance matching 2x, 4x, 8x or 16x positions
- Soft touch 12-step attenuation
- Frequency Response: 20Hz to 20kHz
- Power Handling: 80 Watts
- Removable terminal blocks accept up to 14-gauge wire
- Mounting Dimensions (W x H x D): 1.63" x 2.85" x 2.35" (42mm x 73mm x 60mm)

## Speco 2-Year Limited Warranty

This warranty is valid only on products purchased in the United States of America. This warranty applies only to the original user/purchaser.

Subject to conditions and exclusions found below, this indoor volume control is warranted against manufacturing defects in material and workmanship for two (2) years including parts and labor.

Speco Technologies will repair or replace (at our discretion) any parts found to be defective for the warranty period specified. We will provide a replacement for any defective part.

### Conditions

1. You must obtain a Return Authorization (RA) number for any merchandise being returned to Speco Technologies, whether for return/exchange or repair, whether in or out of warranty.
2. This warranty will be honored only upon the presentation of the original dated bill of sale or sales slip.
3. Transportation of the product to Speco Technologies for service is the responsibility of the user. Repaired or replaced product will be returned prepaid during warranty period.

### Exclusions

1. This warranty shall not cover improper adjustment of customer operated controls or products which have been altered or abused.
2. This warranty shall not apply to the appearance of the product or accessory items including, but not limited to cabinets, cabinet parts, knobs, etc.

3. This warranty does not apply to uncrating, setup, installation, or removal and/or reinstallation of products prior to or after repair.

4. This warranty shall not apply to repairs or replacements necessitated by any cause beyond the result of manufacture including, but not limited to, any malfunction, defects or failure caused by or resulting from unauthorized service or inferior parts, neglect, accident, fire, flood, other acts of nature or incorrect line voltage.

The foregoing is in lieu of all other expressed warranties and we do not authorize any party to assume for us any obligation or liability. In no event shall we be liable for incidental or consequential damage arising from the use of this product, or for any delay in the use of this product due to causes beyond our control. Some states do not allow limitations of how long an implied warranty lasts and/or do not allow the exclusion or limitation of consequential damages. The above limitations on implied warranty and consequential damages may not apply to you.

This warranty gives you specific legal rights. You may have other rights which vary from state to state.

**NOTE:** For warranty purposes and your protection in the event of theft or loss of this product, please fill in the information below and **keep with your sales receipt.**

Date of Purchase: \_\_\_\_\_

Where Purchased: \_\_\_\_\_

Purchase Price: \_\_\_\_\_

speco technologies®

200 New Highway, Amityville, NY 11701  
For information regarding service or return,  
Call us TOLL FREE: 1-800-645-5516  
In Metro New York 631-957-8700  
<http://www.specotech.com>