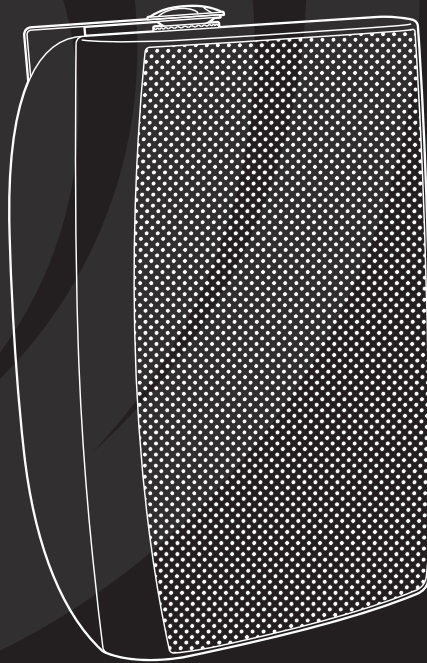




# 2-WAY 70V INDOOR/OUTDOOR SPEAKER

Models: IO800WT (White)  
IO800BT (Black)  
User Manual



*Thank you for purchasing the Dayton Audio IO800 Series Indoor/Outdoor Speaker. These rugged, all-purpose speaker is designed to deliver reliable, high-quality audio while withstanding harsh outdoor environments. They feature weather-resistant construction, high-quality components, and exclusive acoustic design and tuning by Dayton Audio for outstanding performance and value.*

- Robust polypropylene cone woofer with rubber surround
- 1" fabric dome tweeter
- Optimized crossover for perfectly balanced sound
- Available in black or white finish; 70V versions available

**Please read these instructions completely before you begin your installation.**

## **Parts Inventory**

Your speaker kit should include the following:

- 1 Dayton Audio Indoor/Outdoor Speaker with grille
- 1 color-matched mounting yoke bracket
- 2 endcap nuts
- Installation tools

The Dayton Audio speaker can be installed with the following simple tools:

- Pencil
- #2 Phillips screwdriver
- Wire cutters & wire stripper/crimp tool
- Drill & drill bits
- Stud finder\*\*
- Optional tools to make the installation easier.

## **Speaker Location**

Because of their well-behaved off-axis response and excellent dispersion, your new Dayton Audio speaker is less critical to position than most loudspeakers. Simply place them 5-8 feet apart wherever you desire music for the best possible performance. If you will be installing your speakers outdoors, select locations facing your listening area that are protected from rain, snow, and direct sunlight for extended product life.

## **Speaker Installation**

**⚠ CAUTION: Be certain that there are no electrical wires, water pipes, or heating ducts in the planned installation area before you begin drilling. If there is an electrical outlet nearby, turn off the circuit breaker to avoid possible injury.**

Your Dayton Audio indoor/outdoor speaker is compact, but substantial in weight. The speaker should be mounted into solid structure, not drywall. Drywall mounting is not recommended without the use of high-strength anchors designed for heavy loads. To avoid personal injury, please make sure the location you choose for mounting your indoor/outdoor speakers can safely support their weight.

To mark the proper locations for drilling, remove the yoke-style mounting brackets from the rear of the speaker enclosures by removing the endcap nuts, which are the large, round plastic dials at either end of the speaker. Place the yoke bracket against the mounting surface and choose the holes you want to use for mounting. Then use a pencil to mark the hole locations on the mounting surface prior to drilling. Remove the yoke bracket before drilling the holes, in order to avoid damage to the yoke bracket.

After drilling the mounting holes, install the yoke bracket firmly to the mounting surface using the supplied mounting hardware.

## **Speaker Cable**

Don't compromise sound quality by using thin, inexpensive speaker wire. We recommend using a high quality oxygen free copper two-conductor speaker cable. For low-impedance

applications (6 ohms) and runs less than 50 feet we recommend 16 gauge cable, and for longer runs we recommend 14 gauge or larger cable (wire size is less important for 70-volt distributed audio applications but may still affect performance.) Note that most municipalities require the use of CL2 rated speaker cable for cable runs through walls and ceilings. Leave enough excess speaker cable so you can stand comfortably on the floor or ladder while connecting the speaker cable to the speakers. If mounting the speaker outdoors, you may wish to fill the hole that the speaker wire passes through with a caulking material to prevent water intrusion and cold air infiltration.

### Speaker Connection

Remove about 8" of the cable jacket to expose the inner conductors. Strip 1/4" of insulation from each conductor and connect to the speaker terminals. When connecting the wires to the speakers, be sure to observe proper polarity for the best sound. Most CL2 rated speaker cable has red and black conductors within the jacket, so connect the red wire to the red speaker terminal and the black wire to the black speaker terminal. The red (+) terminal on the back of the speaker should correspond to the red (+) terminal on the amplifier, and same for the black terminal. The speaker terminals are of the push-type, so push in on each terminal to allow the wire to be inserted. Torquing the terminal in any way is not necessary.

**Note:** If you are installing a distributed 70-volt (70V) system, be sure to use the appropriate speaker model (70V version) and use the selector knob on the rear of the speaker to choose the transformer tap that provides the desired acoustic output. When the 70V model is used with a 70V system, do not select the "8-Ohm" tap.

### Final Installation

**CAUTION:** Do not over-tighten the endcap nuts. Too much torque may strip the steel threaded insert or the plastic knob and the speaker will not seat securely in the yoke bracket or may produce audible vibration. A snug fit is all that is necessary to assure proper performance.

### Painting the Speaker

If you choose to paint the speaker grille and/or housing, be sure to cover the woofer and tweeter, which are not paintable. Also do not paint the terminals or threaded inserts. Remove the grille for painting separately from the enclosure. Do not try to paint the frame and grille assembly together -- the grille should always be painted separately. Do not apply heavy coats of paint to the grille that might block the perforations in the grille and decrease audio output. Application by spraying is recommended.

### Troubleshooting

Should your speaker not work properly, check the following:

#### **No sound from speaker or quiet/strange sound:**

- Make certain you observed proper polarity for both speaker inputs. Check the connections at the back of the receiver, and then at the speaker.
- Most stereo receivers have an A/B speaker selector switch. Make certain that this switch is in the proper position, and that the proper audio source is selected.
- Mute feature or protection mode is activated. Check for short circuits in speaker wiring.

#### **One speaker is playing while the other is not playing or plays quietly:**

- Check the balance control on the receiver. Make sure it is centered.
- Loose connection at either the receiver or the speaker. Double check connections.
- Bad speaker cable. Replace suspect speaker cable.

#### **Receiver cuts on and off:**

- This could be caused by a short circuit between the positive and negative leads. Check the connections at the back of the receiver, and then at the speaker; make sure that no strands of wire from one connector are touching the other connector.

**5-Year Limited Warranty**  
See [daytonaudio.com](http://daytonaudio.com) for details



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