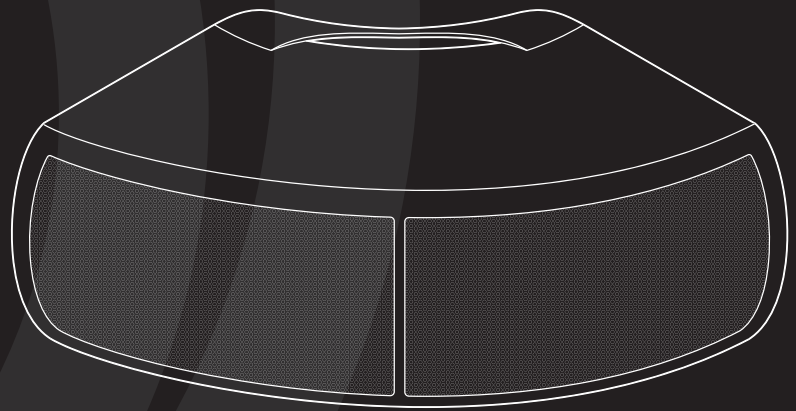




70V COMMERCIAL SPEAKER PAIR

Model: QS204-4/ QS204W-4
User Manual



Congratulations on the purchase of your Dayton Audio® QS204-4 Commercial Speakers. These rugged, all-purpose speakers are designed to deliver reliable, high-quality audio in commercial environments and professional installations while withstanding outdoor environments. They feature a modular “Quadrant-style” design, weather-resistant ABS construction, high-quality components, and exclusive acoustic design and tuning by Dayton Audio for outstanding performance and value.

- Dual 4" polypropylene cone woofers with rubber surround
- 1" Treated silk dome tweeter
- Versatile multi-angle mounting bracket
- Integral 70V transformer with selectable taps
- Suitable for indoor or outdoor installation

Please read these instructions completely before you begin your installation.

1) Speaker Connection

NOTE: Make sure to use the appropriate type of two-conductor speaker cable for your application. Note that most municipalities require the use of CL2-rated speaker cable for cable runs through walls and ceilings.

Speaker Wiring: 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 and may cause damage.

NOTE: This speaker is pre-configured from the factory for 70V/100V operation. This may cause low output when connected directly to an amplifier. To use this speaker with a conventional (non-70V/100V) audio system, follow the below process to change the 70V/100V tap setting.

Step 1: Remove the grill

The entire grill frame should be removed by hand; tools are not necessary, though some force may be required to dislodge the grill fasteners. Grasp the frame at a corner, and pull directly away from the speaker housing.

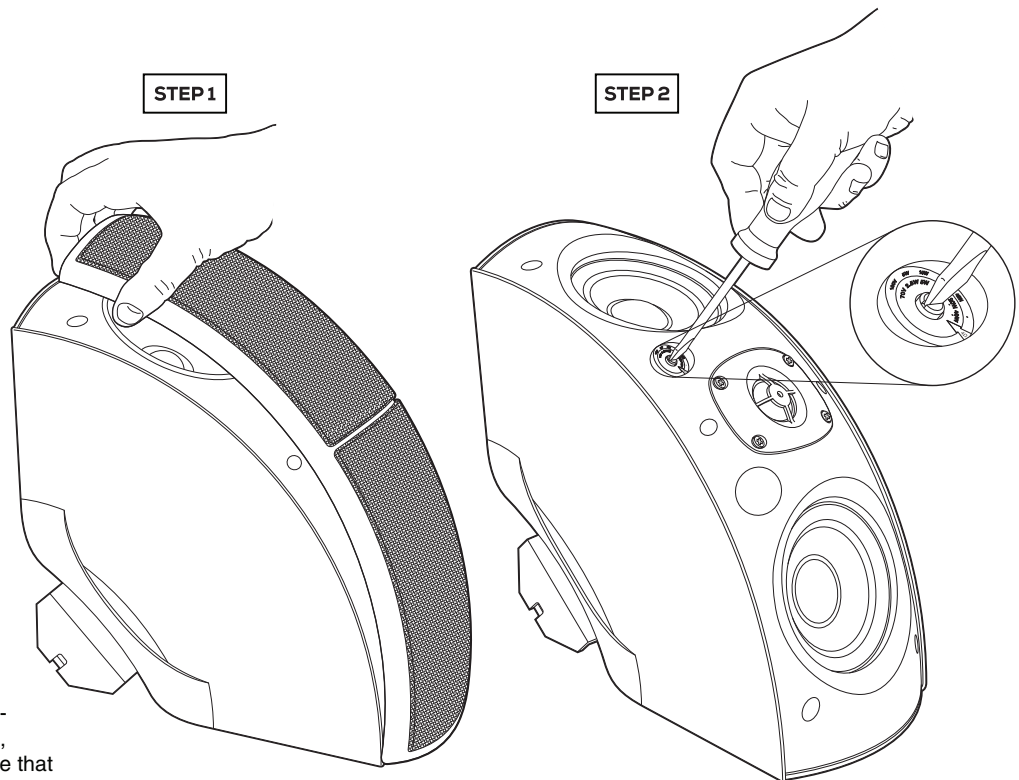
Step 2: Set 70V/100V Tap to 4 OHMS.

Using a screwdriver or other flat-blade tool, turn the tap selector knob until the 4 OHMS setting is selected. This will remove the transformer from the signal path and allow a conventional amplifier to drive the speaker to full output.

Step 3: Replace Grill Frame

To reinstall the grill frame, align the pegs on the frame with the openings on the speaker enclosure, then press in firmly. Rotate the logo as required for proper orientation when installed.

NOTE: If this speaker will be used with a 70V/100V distributed audio system, do not set the 70V/100V tap to the 4 OHMS setting. Doing so may damage your speaker when playing. Instead, choose the desired 70/100V tap (the one that provides the desired amount of output) using the selector switch and the adjustment process described above. The speaker is already pre-configured for use with a 70V/100V system. If you are unsure what type of audio system you have, consult a professional installer before continuing.



2) Choose Speaker Location

Because of their well-behaved off-axis response and excellent dispersion, your new Dayton Audio speakers are less critical to position than most commercial 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 out of direct sunlight for extended product life. Because these speakers feature an open bass-reflex port, avoid mounting them facing upward in an area exposed to weather to prevent collecting standing water.

3) Choose Speaker Installation

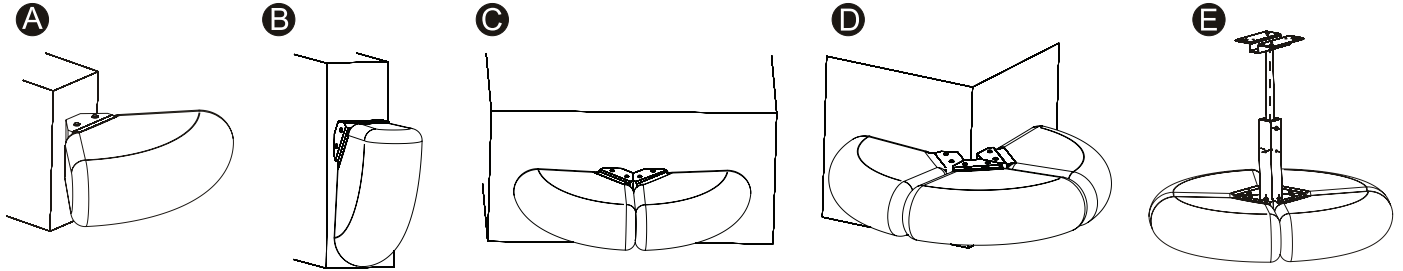
Once you have selected the location for your speakers, you are ready to install them.

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.

NOTE: Your Dayton Audio QS204-4 speakers are compact, but substantial in weight. They should be mounted into solid structure, not drywall. If drywall mounting is required, use high-strength anchors designed for heavy loads such as light fixtures. To avoid personal injury, please make sure the location you choose for mounting your speakers can safely support their weight.

Installation Options: Please see the below images for installation examples.

(A) Horizontal Wall Mount (B) Vertical Wall Mount (C) Horizontal Wall Mount – Two Speakers Array (D) Corner Wall Mount – Three Speakers Array (E) Pendant Mount – Four Speakers Array (Requires Array Bracket Sold Separately)



To mark the proper locations for drilling, place the multi-angle 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 bracket before drilling the holes, in order to avoid damage to the bracket. After drilling the mounting holes, install the large half of the bracket firmly to the mounting surface in the desired orientation using appropriate mounting hardware.

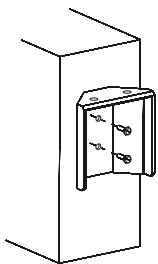
4) Final Installation

To complete mounting the speaker, choose the desired orientation (vertical or horizontal) and then slide the speaker into the large half of the bracket, then install the small half of the bracket (the endcap) using the long screws provided. Note: If the speaker does not slide easily into the bracket in the desired orientation, rotate it 180 degrees and try again. The speaker is intended to slide into the bracket in only one direction.

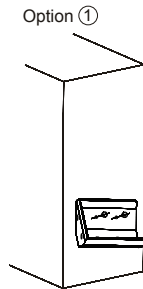
CAUTION: Do not over-tighten the endcap screws. Too much torque may crack the plastic bracket. A snug fit is all that is necessary to assure proper performance.

Step 1: Install the multi-angle bracket

A Horizontal Wall Mount

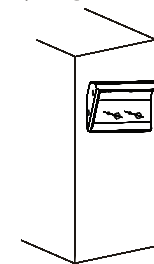


B Vertical Wall Mount

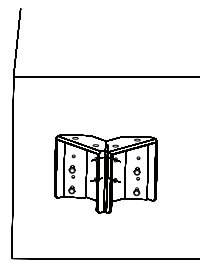


Option ①

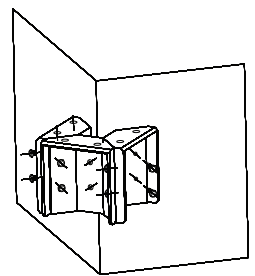
Option ②



C Two Speakers Array

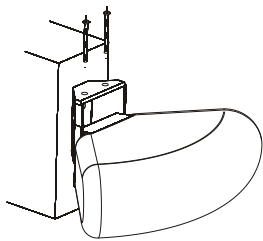


D Three Speakers Array



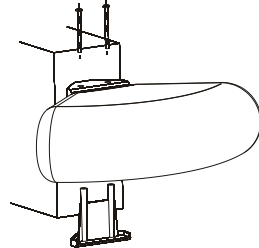
Step 2: Install the speaker

A Horizontal Wall Mount



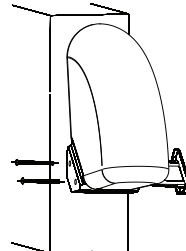
Step 2a: Install speaker

B Vertical Wall Mount

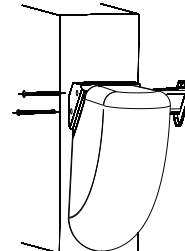


Step 2b: Install endcap

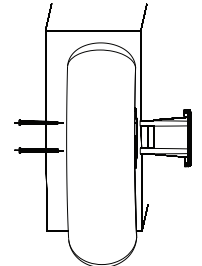
Option ①



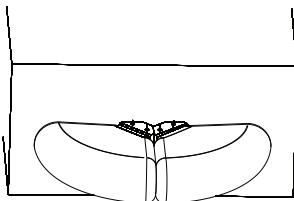
Option ②



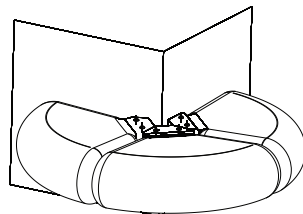
Option ③



C Two Speakers Array



D Three Speakers Array



5) Troubleshooting

Should your speakers not work properly, check the following:

No sound from speakers 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.
- Verify that the amplifier is powered on and the volume is turned up.
- Check that the correct transformer tap is selected for your application. If you are using a stereo amplifier or a receiver, use the 4-ohm tap.
- 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 the suspect speaker cable.

Amplifier/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.

6) Caring For Your Speakers

The two most common ways that loudspeakers are permanently damaged:

- 1) Not enough power at higher volumes.
- 2) Too much power at higher volumes.

Contrary to conventional wisdom, far more speakers are damaged as a result of under-powering, than by overpowering. When an amplifier runs out of power, it still tries to reproduce the musical signal by "clipping" the waveform. At high volume levels this clipping sends extreme amounts of distortion energy to the speaker, eventually destroying it. If the sound from your speakers starts to sound distorted, turn down the volume.

Having plenty of reserve power will help your speakers reproduce dynamic contrasts and quick transients of music much more effectively, but use good judgment; too much power will also permanently damage a speaker. Again, if you hear distortion or audible distress, turn the volume down.

The QS204-4 speakers are designed to withstand outdoor environments, including incidental exposure to water. They are not designed to be washed using a pressure washer or hose nozzle. If debris accumulates on the housing of the speaker, use a damp sponge or cloth to remove it. This product is not suitable for washdown duty or locations requiring explosion-proof electrical hardware.

Specifications

Model Number:	QS204-4, QS204W-4
Description:	Commercial Indoor/Outdoor Speaker Pair
Woofers:	(2) 4" Mineral-Filled Polypropylene
Tweeter:	1" Treated Silk Dome
Frequency Response:	70-20,000 Hz
Impedance:	4 Ohms/70V
70V/100V Taps:	40W/20W/10W/5W/2.5W/4 Ohms
Power Handling (RMS/Peak):	40W / 75W
SPL 1W/1m:	87 dB
Dimensions HxWxD:	5.4" x 15.2" x 10.3"
Color:	Black, White
Weight:	7.5 lb
Ingress Protection (IP) Rating:	IP 51

Warranty Information

Dayton Audio® products are constructed by industry experts, and are thoroughly tested before shipment. Dayton Audio® products are warranted for the period of one year. This warranty is limited to manufacturer defects, either in materials or workmanship. Dayton Audio® is not responsible for any consequential or inconsequential damage to any other unit or component or the cost for installation or extraction of any component of the audio system. In the rare case of a product failure, please contact your place of purchase or call our Customer Support Department at (937) 743-8248.

Warranty Limitations

There are no other warranties, either express or implied, which extend the foregoing, and there are no warranties of merchantability or fitness for any particular purpose. The warranty will not cover incidental or consequential damage due to defective or improper use of products. This includes but is not limited to burnt voice coils, overheating, bent frames, holes in the cone, or broken lead wires.

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

Non-Warranty Service: If non-warranty service is required, the product may be sent to the Company for repair/replacement, transportation prepaid, by calling (937) 743-8248 for details, complete instructions, and service fee charges.



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