

DENON

PROFESSIONAL

DN-205W

User Guide

English (2 – 6)

Appendix

English (27)



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User Guide (English)

Introduction

Thank you for purchasing the DN-205W. This in-wall/ceiling speaker is the ideal combination of sound quality and styling. The speaker is virtually invisible, yet still fills the room with high fidelity audio. Featuring a removable and paintable magnetic grille, this 2-way speaker uses a carbon fiber woofer for superior bass and mid-range reproduction, and a silk dome tweeter for smooth high frequencies.

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Support

For the latest information about this product (documentation, technical specifications, system requirements, compatibility information, etc.) and product registration, visit denonpro.com.

For additional product support, visit denonpro.com/support.

Safety Warnings

- This speaker is intended for indoor use only.
- Do not expose the speaker to water or moisture.
- If operating the speaker in a humid environment, ensure that no condensation occurs.
- Power off and unplug all audio/video components before making wired connections. Only apply power after all connections have been made.
- Use only speaker wire rated for in-wall use.
- When checking for the presence of objects behind a wall, do not force the wire past obstructions.
- Do not attempt to install the speaker near power outlets, wall switches, or ceiling fixtures.
- Double-check all connections prior to applying power to ensure that speaker polarity is properly made and that there are no stray wire strands, which could short the connections.
- Do not use full volume until after the speaker has been fully broken-in.
- If you hear distortion, reduce the volume until the distortion is no longer audible.
- Do not use excessive volume when listening to the speaker. If you experience pain, discomfort, or dizziness, reduce volume immediately. Prolonged exposure excessive volume can cause permanent hearing damage.
- Do not use cleaning fluids, solvents, or other chemicals to clean the speaker frame or grille.
- Do not disassemble or attempt to service this speaker.

Speaker Break-In

Speakers require a break-in period before they can be safely operated at maximum volume levels. Proper break-in ensures that the moving parts of the speaker (the cone and cone suspension) are allowed to flex and soften, loosening the initial stiffness and allowing the speaker to move through its full intended range. After the break-in period, the speakers will produce richer sounding lows, warmer and smoother sounding mids, and cleaner highs.

The best way to break-in speakers is to play normal music at moderate volume levels. The amount of time required for speaker break-in varies based on the operating environment, but is typically between 50-80 hours. It will take somewhat longer in a cold or dry environment and a little less time in a warm or humid environment.

Note: The break-in period does not have to be continuous.

Speaker Wire Preparation

Before attempting to make any connections it is best to consider the location, get all of the necessary materials together, and then make all of the connections at once.

First, look at the back of your amplifier or receiver to determine what options it offers for making connections. Amplifiers and receivers typically employ either 5-way binding posts, spring-loaded terminals, or push terminals for the speaker connections.

A 5-way binding post can accept bare speaker wire, spade plugs, pin plugs, and banana plugs, while spring loaded terminals and push terminals can accept either bare speaker wire or pin plugs. Refer to the documentation that came with your amplifier or receiver to determine the maximum size/gauge speaker wire the speaker terminals can accept.

DN-205W features push terminals, which can accept pin plugs or bare wire up to 14 AWG. If your amplifier can accept it, you should use 14 AWG speaker wire. Using pin plugs is highly recommended as it is easier to connect, no risk of stray wire strands shorting the connections, allows for use of heavier gauge speaker wire in most cases, and is much easier to identify the polarity from a color coded ring on a plug than from a subtle marking along the length of a wire.

Because the speaker wires will be run through your walls/ceiling, you must use in-wall rated wire which is required by fire safety codes. This ensures that the wire jacket will not act as an accelerant in the event of a fire.

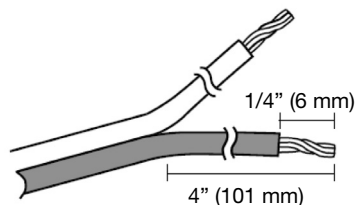
Rather than using fixed length speaker wires, it is best to get a roll and cut the wires to the length you will need them. This ensures that there is a minimum amount of excess wire. However, even if your amplifier is off-center, the lengths of wire used for each speaker pair should be identical. This keeps the impedance on each channel the same, which ensures that the volume levels, frequency ranges, and tonalities are identical. Any excess wire should be snaked back and forth, not coiled, to avoid creating an inductor/antenna for stray radio signals.

Before making the actual connections, cut each length of wire to size. Note the markings on the wire that differentiate between each conductor. Sometimes the marking clearly identifies a positive and negative side. Some common clearly positive and negative markings or identifiers are:

Positive	Negative
Red	Black
Copper	Silver
+++	---

In many cases, the mark is a single stripe on the jacket of one of the connectors. In this case the side with the stripe is generally considered the positive side, but it really does not matter as long as you are consistent and always use the stripe as positive or always use it as negative.

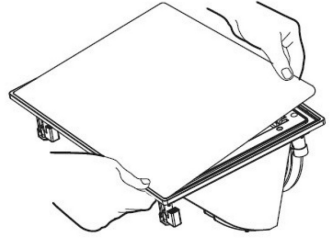
When you are ready to prepare your speaker wires, first separate about 4" (101 mm) of wire, then strip about 1/4" (6 mm) insulation from the end and twist it to prevent stray strands. If you plan to use banana or pin plugs (highly recommended), install the plugs on the wire.



Painting

The grille and frame can be painted to match your walls or ceiling, making the speaker even less noticeable. Perform the following steps to safely paint without damaging the speaker.

1. Completely remove the grille by lifting the edge to pull it off the speaker body.
2. Remove the felt matte from the back of the grille.
3. Paint the speaker grille. It is best to use spray paint to avoid paint clogging the holes in the grille.
4. Allow the paint to completely dry; then reattach the felt matte on the back of the grille.
5. Before proceeding with the installation, ensure that the holes in the grille are not blocked by paint.

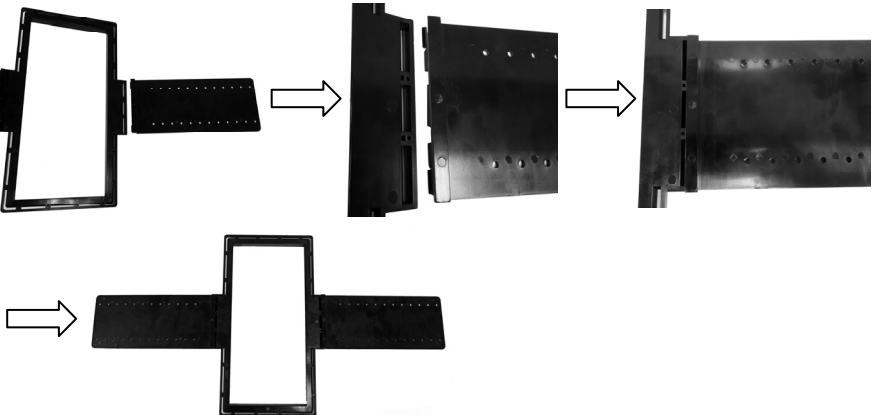


Installing DN-205W in a New Building

The following steps provide detailed instructions for installing the speaker into a new building construction. The speaker can be mounted to a wall or ceiling that is between 3/8" (9.5 mm) and 1-1/4" (31.8 mm) thick, with sufficient depth clearance for the model being installed.

1. Determine where you will be installing the speaker.
2. Connect the speaker mounting panel onto the mounting bracket by taking one of the alignment panels and pressing it under the grooves in the mounting bracket. Repeat this process on the other side. Place the mounting bracket in the desired install location and use 2 screws and 2 washers to attach to the wall/ceiling. Repeat this process on the other side, making sure the holes line up evenly.

Note: Put some insulation (R-14) in the wall/ceiling space before you install the speaker to improve the sound.



3. If you have not already done so, prepare your speaker wire in accordance with the guidelines in the *Speaker Wire Preparation* section.

Important! Because the speaker wire will be routed through your walls/ceiling, you must use in-wall rated speaker wire.

4. Route the speaker wire from the back of your amplifier, through the wall or space above the ceiling, to the installation location.
5. Depress the positive/red push terminal on the back of the speaker and insert the bare wire lead or pin plug on the positive lead into the hole on the side of the terminal. Release the terminal.

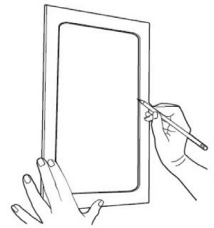
6. Depress the negative/black push terminal and insert the bare wire lead or pin plug on the negative lead into the hole on the side of the terminal; then release the terminal. Gently pull on each lead to ensure that they are securely connected to the terminals.
7. Rotate the Tap Selector so that the correct power setting is selected (see side image).
8. Remove the speaker grille, which is held in place with magnets.
9. Ensure that the mounting tabs on the speaker assembly are turned inward.
10. Begin to insert speaker into the speaker mounting bracket. When the speaker is flush with the wall/ceiling leaving only the black magnetic brim exposed, use a #2 Phillips screwdriver to begin to tighten the 6 attachment screws which are connected to the mounting tabs (see side images). The screws will automatically turn once you begin rotating the screw clockwise. Repeat for all 6 tabs and make sure not to overtighten the screws.
11. Replace the grille onto the speaker body.
12. Ensure that your amplifier is powered off and unplugged from the power source.
13. Connect the amplifier end of the speaker wire to one of the speaker level outputs on your amplifier, taking care to match the polarity markings on the speaker wire or plugs.
14. Enjoy using the DN-205W!



Installing DN-205W in an Existing Wall/Ceiling

The following steps provide detailed instructions for installing the speaker onto a wall or ceiling that is between 3/8" (9.5 mm) and 1-1/4" (31.8 mm) thick, with sufficient depth clearance for the model being installed. If installing to a drop ceiling, use of a mounting bracket is required.

1. Determine where you will be installing the speaker. Use a stud finder to ensure that there is sufficient space between the desired location and the adjacent studs. Check for framing members that run perpendicular to the main studs. Use a pencil to mark the edges of the adjacent studs.
2. Remove the center portion of the cardboard installation template and position the installation template against the wall or ceiling at the installation location. For wall installations, use a carpenter's level to ensure that the template is level.
3. Use a pencil to mark the cut line. For wall installations, use the level to check the cut lines to ensure they are level.
Note: For installations in high quality, press board drop ceilings, you can cut into the ceiling panels and use the same directions seen below.
4. Drill a small test hole in the middle of the cutout area and take a stiff piece of wire, such as a hanger, and bend it 90°, about 8" (203 mm) from the end. Insert the wire past the bend, then rotate the wire 360° to check for hidden obstructions behind the wall. Push it in to ensure that there is sufficient clearance behind the wall or ceiling.
5. Once you know your installation location is clear, use a drywall or keyhole saw to cut along the cut lines.
6. Remove the wall/ceiling space and check that the speaker fits the hole that you cut.
Note: Put some insulation (R-14) in the wall/ceiling space before you install the speaker to improve the sound.
7. If you have not already done so, prepare your speaker wire in accordance with the guidelines in the *Speaker Wire Preparation* section.
Important! Because the speaker wire will be routed through your walls/ceiling, you must use in-wall rated speaker wire.
8. Route the speaker wire from the back of your amplifier, through the wall or space above the ceiling, to the installation location.
9. Remove the speaker grille, which is held in place with magnets.



- Depress the positive/red push terminal on the back of the speaker and insert the bare wire lead or pin plug on the positive lead into the hole on the side of the terminal. Release the terminal.
- Depress the negative/black push terminal and insert the bare wire lead or pin plug on the negative lead into the hole on the side of the terminal; then release the terminal. Gently pull on each lead to ensure that they are securely connected to the terminals.
- Rotate the Tap Selector so that the correct power setting is selected (see side image).
- Ensure that the mounting tabs on the speaker assembly are turned inward.
- Begin to insert speaker into the cutout hole. When the speaker is flush with the wall/ceiling leaving only the black magnetic brim exposed, use a #2 Phillips screwdriver to begin to tighten the 6 attachment screws which are connected to the mounting tabs (see side images). The screws will automatically turn once you begin rotating the screw clockwise. Repeat for all 6 tabs and make sure not to overtighten the screws.
- Replace the grille onto the speaker body.
- Ensure that your amplifier is powered off and unplugged from the power source.
- Connect the amplifier end of the speaker wire to one of the speaker level outputs on your amplifier, taking care to match the polarity markings on the speaker wire or plugs.
- Enjoy using the DN-205W!



High-Frequency Roll-Off

DN-205W is equipped with a high-frequency roll-off option, which can be used to attenuate the high-frequency response. If the speaker sounds too "bright", perform the following steps to set the high-frequency roll-off.

- Pull the edge of the grille to remove it.
- Adjust the high-frequency roll-off switch to the -3 dB or -6 dB position. The default setting is 0 dB (no attenuation).
- Replace the grille onto the speaker body.

Appendix (English)

Technical Specifications

Low-Frequency Driver	5.25" / 133.4 mm carbon fiber cone	
Tweeter	1" / 25.4 mm silk and aluminum swivel dome	
Power Tappings	W (100V)	W (70V)
	–	30 W
	30 W	15 W
	15 W	7.5 W
Bypass	8 ohms	8 ohms
Frequency Response	62 Hz – 20 kHz	
Driver Power	50 W (RMS)	
Sensitivity	88 dB (1W/1m)	
Cutout Hole Diameter	13.3" x 6.0" / 338 x 152 mm	
Wall Clearance	3.66" / 93 mm	
Weight	7.7 lbs. / 3.5 kg	

Specifications are subject to change without notice.

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