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› Yamaha NS-IC800 In-Ceiling Speaker System User Manual

Yamaha NS-IC800

Yamaha NS-IC800 In-Ceiling Speaker System User Manual

Model: NS-IC800

1. INTRODUCTION

This manual provides essential information for the safe and correct installation, operation, and maintenance of your Yamaha NS-IC800 In-Ceiling Speaker System. Please read this manual thoroughly before using the product to ensure optimal performance and longevity. Keep this manual in a safe place for future reference.

2. SAFETY INFORMATION

Observe the following precautions to prevent damage to the speakers or injury to yourself.

- **Installation:** Ensure the mounting surface (ceiling or wall) can support the weight of the speakers. Use appropriate tools and follow all installation instructions carefully. Incorrect installation may result in the speaker falling, causing injury or property damage.
- **Power:** Do not exceed the maximum input power of 140 watts. Overpowering the speakers can lead to damage.
- **Moisture:** The speakers feature a sealed back cover to protect against dust and moisture. However, avoid installing them in areas with excessive humidity or direct water exposure.
- **Wiring:** Ensure all wiring is correctly connected (positive to positive, negative to negative) and securely fastened to prevent short circuits or poor sound quality.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid cleaners or aerosols.

3. PACKAGE CONTENTS

The Yamaha NS-IC800 In-Ceiling Speaker System package typically includes:

- NS-IC800 In-Ceiling Speakers (Pair)

- Paintable Grilles (2)
- Mounting Template
- User Manual (this document)

4. FEATURES

The Yamaha NS-IC800 speakers are designed for high-quality audio reproduction and seamless integration into your living space.

- **2-Way Coaxial Design:** Features an 8-inch polypropylene mica cone woofer and a 1-inch fluid-cooled soft dome swivel tweeter for balanced sound.
- **Swivel Tweeter:** The tweeter can be aimed for optimal high-frequency output, allowing for flexible sound direction.
- **Magnetic Grille:** A slim-fringe, paintable grille attaches magnetically for easy installation and removal, blending discreetly with your decor.
- **Secure Mounting:** Large mounting clamps with non-slip tread ensure firm installation in ceilings or walls.
- **Dust and Moisture Protection:** A sealed back cover protects internal components from environmental elements.
- **Natural Sound Dispersion:** A grain-finished acoustic baffle with a spiral pattern promotes natural sound distribution.

5. SETUP AND INSTALLATION

Follow these steps for proper installation of your NS-IC800 in-ceiling speakers.

5.1 Planning the Installation

- **Location:** Choose a location in the ceiling or wall that is free from obstructions such as electrical wires, plumbing, or structural beams. Use a stud finder to verify.
- **Wiring:** Ensure speaker wires are pre-run to the desired installation points.

5.2 Installation Steps

1. **Mark the Cutout:** Use the provided mounting template to trace the cutout hole on the ceiling or wall.
2. **Cut the Hole:** Carefully cut along the traced line using an appropriate drywall saw.
3. **Connect Wiring:** Pull the speaker wire through the cutout. Connect the speaker wires to the gold-plated, push-type terminals on the speaker. Ensure correct polarity (positive to red, negative to black).
4. **Insert Speaker:** Gently insert the speaker into the cutout. Ensure the external flange is flush with the ceiling surface.
5. **Secure Speaker:** Rotate the four Phillips-head anchor screws approximately one turn counter-clockwise to extend the gripping claws. Then, tighten the screws clockwise with a screwdriver until the speaker is firmly secured. **Do not overtighten** to avoid damaging the drywall.
6. **Attach Grille:** The paintable grille attaches magnetically to the speaker frame. Simply align and place it over the speaker.



Figure 1: Yamaha NS-IC800 In-Ceiling Speaker with its magnetic grille installed.



Figure 2: Front view of the Yamaha NS-IC800 speaker without the grille, showing the 8-inch woofer and swivel tweeter.



Figure 3: Rear view of the Yamaha NS-IC800 speaker, illustrating the mounting clamps and gold-plated push-type terminals for wire connection.

6. OPERATION

Once installed, the Yamaha NS-IC800 speakers operate as passive audio components. Connect them to a compatible amplifier or receiver.

- **Amplifier Connection:** Connect the speaker wires from your amplifier's speaker outputs to the NS-IC800 terminals, ensuring correct polarity.
- **Swivel Tweeter Adjustment:** Gently pivot the tweeter to direct high frequencies towards your primary listening area for optimized sound.
- **Receiver Setup:** If connecting to an AV receiver, access the receiver's speaker setup menu to configure the new speakers (e.g., as front, rear, or surround channels) to ensure sound output.

7. MAINTENANCE

Regular maintenance ensures the longevity and performance of your speakers.

- **Cleaning:** Use a soft, dry cloth to wipe dust from the grille and speaker frame. For stubborn dirt, lightly dampen the cloth with water. Avoid harsh chemicals or abrasive materials.
- **Grille Painting:** If you wish to paint the grilles to match your decor, remove them from the speakers. Use a thin coat of spray paint to avoid clogging the perforations, which could affect sound quality. Allow to dry completely before reattaching.
- **Inspection:** Periodically check the mounting screws for tightness and the speaker wires for secure connections.

8. TROUBLESHOOTING

If you encounter issues with your NS-IC800 speakers, refer to the following common solutions.

- **No Sound:**
 - Check all speaker wire connections at both the speaker and the amplifier/receiver for correct polarity and secure contact.
 - Ensure your amplifier/receiver is powered on and the correct input source is selected.
 - Verify that the speaker output for the connected channel is enabled in your amplifier/receiver's settings.
- **Distorted Sound:**
 - Reduce the volume level on your amplifier/receiver.
 - Check for loose speaker wire connections or frayed wires.
 - Ensure the speaker is not being overdriven beyond its maximum input power.
- **Uneven Sound:**
 - Adjust the swivel tweeter direction for optimal sound dispersion.

- Check the balance settings on your amplifier/receiver.

If problems persist, consult a qualified audio technician.

9. SPECIFICATIONS

Speaker Type	2-way coaxial
Woofers	8-inch polypropylene mica cone
Tweeter	1-inch fluid-cooled soft dome, swivel
Frequency Response	50 Hz - 28 kHz
Impedance	8 ohms
Sensitivity	90 dB
Maximum Input Power	140 watts
Crossover Frequency	3.5 kHz
Speaker Terminals	Gold-plated, push type
Grille	Thin, slim-fringe with magnet catch (paintable)
Dimensions (Diameter x Depth)	10-7/8 inches x 4-1/4 inches (27.6 cm x 10.8 cm)
Mounting Depth	4-1/4 inches (10.8 cm)
Weight (per speaker)	4.2 lbs (1.9 kg)
Color	White

10. WARRANTY AND SUPPORT

The Yamaha NS-IC800 In-Ceiling Speaker System comes with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Yamaha website.

For technical support, service, or inquiries, please contact Yamaha customer support through their official channels. Ensure you have your product model number (NS-IC800) and purchase information available when seeking assistance.