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- › [Nutone](#) /
- › [Nutone NM100WH Intercom Master Station User Manual](#)

## Nutone NM100WH

# Nutone NM100WH Intercom Master Station User Manual

Model: NM100WH

## INTRODUCTION

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The Nutone NM100WH Intercom Master Station is a full-function intercom and music distribution system designed for residential retrofit applications. This unit is engineered to replace older 3-wire or 4-wire intercom systems, utilizing existing installation wiring for a streamlined setup. The NM100WH provides communication and entertainment features, enhancing home security, convenience, and overall living experience.



Image: Front view of the Nutone NM100WH Intercom Master Station in white.

## SAFETY INFORMATION

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- Read all instructions thoroughly before attempting installation or operation of the unit.
- Always disconnect power to the circuit breaker before performing any installation, maintenance, or servicing.
- Installation involving 120V AC electrical connections should be performed by a qualified and licensed electrician to ensure safety and compliance with local codes.
- Do not expose the unit to water or excessive moisture.
- Keep packaging materials away from children.

## PRODUCT OVERVIEW

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The Nutone NM100WH Intercom Master Station offers a range of features for home communication and entertainment:

- **Station Support:** Supports up to 15 remote stations when retrofitting a 4-wire system, and up to 13 remote stations for 3-wire systems.
- **Audio Features:** Includes a built-in AM/FM radio tuner with the capacity to store 16 radio station presets.

- **Music Scheduling:** Allows for automatic scheduling to turn music on and off at predetermined times.
- **Expandability:** Compatible with the optional Nutone NC300WH 6-disc CD changer for expanded music options throughout the home.

## SETUP AND INSTALLATION

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The NM100WH Master Station is designed for retrofit installations. Careful attention to wiring and component compatibility is essential.

### Required Components

- **Rough In Kit:** The NM100WH unit requires a specific 'Rough In Kit' which includes the necessary transformer for operation. This kit must be purchased separately.
- **Remote Stations:** For 3-wire systems, compatible remote stations such as the NRS103WH and their corresponding NF300RWH retrofit rough-in kit are recommended.
- **Door Station:** The NDB300WH door station, if used with a lighted button and chime module, requires a 4-wire connection to the master unit. Existing wiring may need to be upgraded or new wire run to support this functionality.
- **Audio Input (Optional):** For connecting external audio devices like an iPod, an audio jack such as the NU1A30WH (Audio Wallplate W/2 RCA, White) is needed. Existing stereo wires can often be repurposed for this connection.

### Wiring and Power

- Ensure all wiring connections are secure and correctly terminated according to the detailed wiring diagrams provided in the full installation manual.
- The unit requires a 120V AC electrical power connection. This connection should be handled by a qualified electrician.
- Verify compatibility of existing wiring with the new system. While designed for retrofit, some older systems may require minor modifications.

## OPERATING INSTRUCTIONS

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### Intercom Function

- **To Speak:** Press and hold the 'Talk' button. Speak clearly into the master station microphone.
- **To Listen:** Release the 'Talk' button to listen for a response from the remote station.
- **Call All:** Use the 'Call All' function to broadcast a message to all connected remote stations simultaneously.

### Radio Operation

- **Power On/Off:** Press the 'Power' button to turn the radio on or off.
- **Band Selection:** Press the 'AM/FM' button to switch between AM and FM bands.
- **Tuning:** Use the 'Tune Up' or 'Tune Down' buttons to manually adjust the frequency.
- **Presets:** To save a station, tune to the desired frequency, then press and hold one of the preset buttons (1-16) until you hear a confirmation tone. To recall a preset, simply press the corresponding preset button.

### Music Scheduling

The system allows for setting automatic music on/off times. Refer to the comprehensive manual for detailed instructions on programming these schedules.

## MAINTENANCE

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- **Cleaning:** To clean the master station, gently wipe the surface with a soft, dry, or slightly damp cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the finish or internal components.
- **Inspection:** Periodically inspect the unit and wiring for any signs of damage or wear. If any issues are observed, contact a qualified technician.

## TROUBLESHOOTING

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If you encounter issues with your Nutone NM100WH Intercom Master Station, refer to the following common troubleshooting steps:

- **Unit Not Powering On:** Ensure the 'Rough In Kit' and transformer are correctly installed and receiving power. Check all electrical connections and circuit breakers.
- **No Sound from Remote Stations:** Verify that all remote stations are correctly wired and securely connected to the master unit. Check volume levels on both master and remote stations.
- **Radio Not Working or Poor Reception:** Check the antenna connection. Ensure proper station tuning. If using an external antenna, verify its connection and position.
- **Intermittent Operation or Display Issues:** Power cycle the unit by disconnecting power for a few minutes and then reconnecting. If issues persist, it may indicate an internal component failure.
- **Distorted Audio:** Check for loose wiring connections. Ensure the volume is not set too high, causing distortion.

If these steps do not resolve the issue, contact Nutone customer support or a qualified service technician for further assistance.

## SPECIFICATIONS

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<b>Product Dimensions</b>	19.25 x 10.5 x 8.5 inches
<b>Item Weight</b>	4.5 pounds
<b>Model Number</b>	NM100WH
<b>Wattage</b>	30 watts
<b>Supports Bluetooth Technology</b>	No
<b>Date First Available</b>	March 20, 2010

## WARRANTY AND SUPPORT

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For detailed warranty information, technical support, and service inquiries, please refer to the official Nutone website or contact Nutone customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.