



**NuTone®**

**Intercoms and Home  
Entertainment Systems**



**Radio-Intercom Retrofit Updating Guide  
3/4-Wire & 6/8-Wire Systems**

# 3/4-Wire Radio-Intercom Updating Guide for the NM100 Series Radio-Intercom System

Older 3-wire systems may be converted to an NM100 Series Radio-Intercom System. This booklet outlines the updating procedure; indicating the components that may be retained from the existing system and the units that should be replaced.

**NOTE:** Due to component size differences, some wall patching may be required when installing new system.



**NM100 Series**

## **Master Station:**

### **NM100WH White Finish**

- System may include a maximum of thirteen (13) remote stations and three (3) door speakers.

### **Wiring Requirements:**

#### **Three-wire system.**

- Maximum of 350 feet per remote station.
- Maximum of 1000 feet total per system.

### **Rough-In Frame for Master Station Only:**

#### **Model NWH300 Rough-In Frame**

(includes transformer, omni-directional AM and FM antennas and 75 feet of door speaker cable.)

### **Power Source:**

#### **NA300TA Transformer**

Supplied with NWH300 rough-in. Mounts in bottom of rough-in frame. 20 VAC 60 Hz circuit must be provide from the circuit breaker panel to the master station location.

(includes transformer (1), omni-directional AM and FM antennas and 75 feet of door speaker cable.)

### **Power Source:**

#### **NA300TA Transformer (master)**

Supplied with NWH300 rough-in. Mounts in bottom of rough-in frame.

**Contact one of our technical service representatives with questions regarding updating your system by calling 888-336-6151, by faxing 800-873-2311, or by E-mailing customer service at [nutonecs@broan-nutone.com](mailto:nutonecs@broan-nutone.com)**

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS

### Master Station Model Numbers: 2011, 2012, 2015 or 2016

#### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. AM only systems will require the installation of the FM antenna included with the master station rough-in.

#### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

#### Power Source:

Use transformer(s) supplied with new master station rough-in housing.

#### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

#### 8" Speakers with Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

#### Remote Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

#### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

### Master Station Model Numbers: 2031, 2032, 2034-2036, 2053-2058, 2062-2065, 2067, 2068, 2090 or 2091

#### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. AM only systems will require the installation of the FM antenna included with the master station rough-in.

#### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

#### Power Source:

Existing power source is a remotely located transformer. This transformer cannot be used to power the NM100 system. Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician run a 120 VAC circuit to the master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

#### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

#### 8" Speakers with Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

#### Remote Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Numbers: IM/IMA-203, IM-2003

### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

**IM/IMA-203** existing power source is a remotely located transformer. This transformer cannot be used to power the NM100 system. Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician run a 120 VAC circuit to the master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

**IM-2003**, use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Numbers: IM/IMA-303, IM/IMA-323

### IM-, IMA, B-, C-, D-313

### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

NOTE: For 313 Series, the wall must be framed and patched to accommodate the NWH300 rough-in frame.

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Power Source:

Existing power source is a remotely located transformer. This transformer cannot be used to power the NM100 system. Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician run a 120 VAC circuit to the master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

**NOTE: NM100 system does not include the Security Protection features of the IMA-323**

## Master Station Model Number: 2071

### Wiring Requirements:

Use existing 5-conductor wiring from the master station to remotes. When configuring the NM100 system for **3-wire** operation, use **Appendix B** "NM100 Series Intercom Master Station to Remote Station 3-Wire Retrofit Installation using Existing NuTone 2078 5-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. When configuring the NM100 system for **4-wire** operation, use **Appendix C** "NM100 Series Intercom Master Station to Remote Station 4-Wire Retrofit Installation using Existing NuTone 2078 5-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. NOTE: For Channel "B" speaker, the wall must be patched. Use existing AM/FM antenna.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Existing power source is a remotely located transformer. This transformer cannot be used to power the NM100 system. Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician run a 120 VAC circuit to the master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### 5" Speakers with Controls:

**Indoor:** When using **Appendix B – 3-wire** installation, replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Indoor:** When using **Appendix C – 4-wire** installation, replace existing indoor remote station with NRS104WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** When using **Appendix B – 3-wire** installation, replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

**Outdoor:** When using **Appendix C – 4-wire** installation, replace existing outdoor remote station with NPS104WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

When using **Appendix B – 3-wire** installation, patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

When using **Appendix C – 4-wire** installation, patch wall and replace with NRS104WH remote station and NRKR200R remote station rough-in frame.

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Remote Controls:

When using **Appendix B – 3-wire** installation, patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

When using **Appendix C – 4-wire** installation, patch wall and replace with NRS104WH remote station and NRKR200R remote station rough-in frame.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Number: IM-3103

### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformer in IM-3103 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Number: IM-3003

### Wiring Requirements:

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformer in IM-3003 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### **Power Source:**

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### **5" Speakers with Controls:**

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### **8" Speakers with Controls:**

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### **Remote Controls:**

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### **Door Speakers:**

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Number: IM/IMA-3303

### **Wiring Requirements:**

Use existing 3-conductor wiring from the master station to remotes. Use **Appendix A** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

### **Rough-In Frame for Master Station:**

Have a qualified electrician disconnect 120 VAC circuit from transformers in IM-3303 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### **Power Source:**

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

### **5" Speakers with Controls:**

**Indoor:** Replace existing indoor remote station with NRS103WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS103WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### **8" Speakers with Controls:**

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### **Remote Controls:**

Patch wall and replace with NRS103WH remote station and NRKR200R remote station rough-in frame.

### **Door Speakers:**

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## UPDATING 3/4-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Master Station Model Number: IM-3204

#### Wiring Requirements:

Use existing 4-conductor wiring from the master station to remotes. Use **Appendix D** "NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW4UL 4-Wire Flat Ribbon Cable" at the end of this document for proper wire connections. Use existing AM/FM antenna.

#### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformer in IM-3204 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM100WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

#### Power Source:

Use transformer supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM100 master station to connect the transformer(s) in the master station rough-in.

#### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS104WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS104WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

#### 8" Speakers with Controls:

Patch wall and replace with NRS104WH remote station and NRKR200R remote station rough-in frame.

#### Remote Controls:

Patch wall and replace with NRS104WH remote station and NRKR200R remote station rough-in frame.

#### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.



## NM100 SERIES Remote Stations



### **NRS103WH**

Indoor 3-wire remote station. Use with NF300RWH updating frame. White finish.



### **NRS104WH**

Indoor 4-wire remote station. Use with NF300RWH updating frame. White finish.



### **NPS103WH**

Outdoor 3-wire remote station. Use with NF300PWH or NRKS200PWH updating frames. White finish.



### **NPS104WH**

Outdoor 4-wire remote station. Use with NF300PWH or NRKS200PWH updating frames. White finish.

## NM100 SERIES Remote Stations (continued)



### NR380WHWH

Indoor 4-wire, 8" remote station. Use with NRKS300R surface mount frame. White finish.

## NM100 SERIES Door Stations



### NDB300AB

Door speaker. Use with NF300DWH updating frame or NRKR300D rough-in. Antique Brass finish.



### NDB300BB

Door speaker. Use with NF300DWH updating frame or NRKR300D rough-in. Bright Brass finish.



### NDB300N

Door speaker. Use with NF300DWH updating frame or NRKR300D rough-in. Nickel finish.



### NDB300WH

Door speaker. Use with NF300DWH updating frame or NRKR300D rough-in. White finish.

## NM100 SERIES ROUGH-INS



### NWH300

Housing for NM100/NM200 Master Station. Includes transformer, AM and FM antennas and 75 feet of NW4S door speaker cable.  
**Cutout 14 3/8" wide x 5 9/16" high**



### NRKR200R

Housing for NRS103, NRS104 & NRS200 Remote Stations.  
**Cutout 5" wide x 5 1/4" high**



### NRKF200P

Housing for NPS103, NPS104 & NPS200 Remote Stations.  
**Cutout 4 13/16" wide x 4 7/8" high**



### NRKR300D

Housing for NDB300 series Door Speakers.  
**Cutout 3 5/8" wide x 5 3/4" high**

## NM100 SERIES SURFACE and UPDATING FRAMES



### NF100MWH

Master Station Retrofit Frame. Used to retrofit NM100/200 master station when replacing master station with taller dimensions. Finish, white plastic.  
**Dimensions 17 1/2" wide x 10 5/8" high**

## NM100 SERIES SURFACE and UPDATING FRAMES (continued)



### **NF200MWH**

Master Station Retrofit Frame. Used in installations where a gap is exposed around the master station mounting hole. Finish, white plastic.

**Dimensions 16 5/16" wide x 6 1/4" high**



### **NF300RWH**

Indoor Remote Station Retrofit Frame. Used to retrofit NRS103, NRS104 and NRS200 indoor remote stations over existing, larger remote station rough-in frames. Finish, white plastic.

**Dimensions 7 1/2" wide x 10" high**



### **NF300PWH**

Outdoor Remote Station Retrofit Frame. Used to retrofit NPS103, NPS140 and NPS200 outdoor remote stations over existing, larger remote station rough-in frames. Finish, white plastic.

**Dimensions 7 1/2" wide x 10" high**



### **NRKS200PWH**

Outdoor Remote Station Surface Mounting Frame. Used to surface mount NPS103, NPS104 and NPS200 outdoor remote stations. Finish, white plastic.

**Dimensions 5 7/8" wide x 7 7/8" high**



### **NF300DWH**

Door Speaker Retrofit Frame. Used to retrofit NDB300 series door speakers over existing door speaker rough-in frames. Finish, white plastic.

**Dimensions 4 7/8" wide x 6 5/8" high**

## NM100 SERIES SURFACE and UPDATING FRAMES (continued)



### **NES300DWH / NES300DBL**

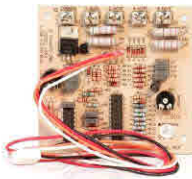
Door Speaker Surface Mount Frame. Used to surface mount NDB300 series door speakers. Finish, white or black plastic.  
**Dimensions 3 13/16" wide x 5 15/16" high**

## NM100 OPTIONAL ACCESSORIES



### **NA3003C**

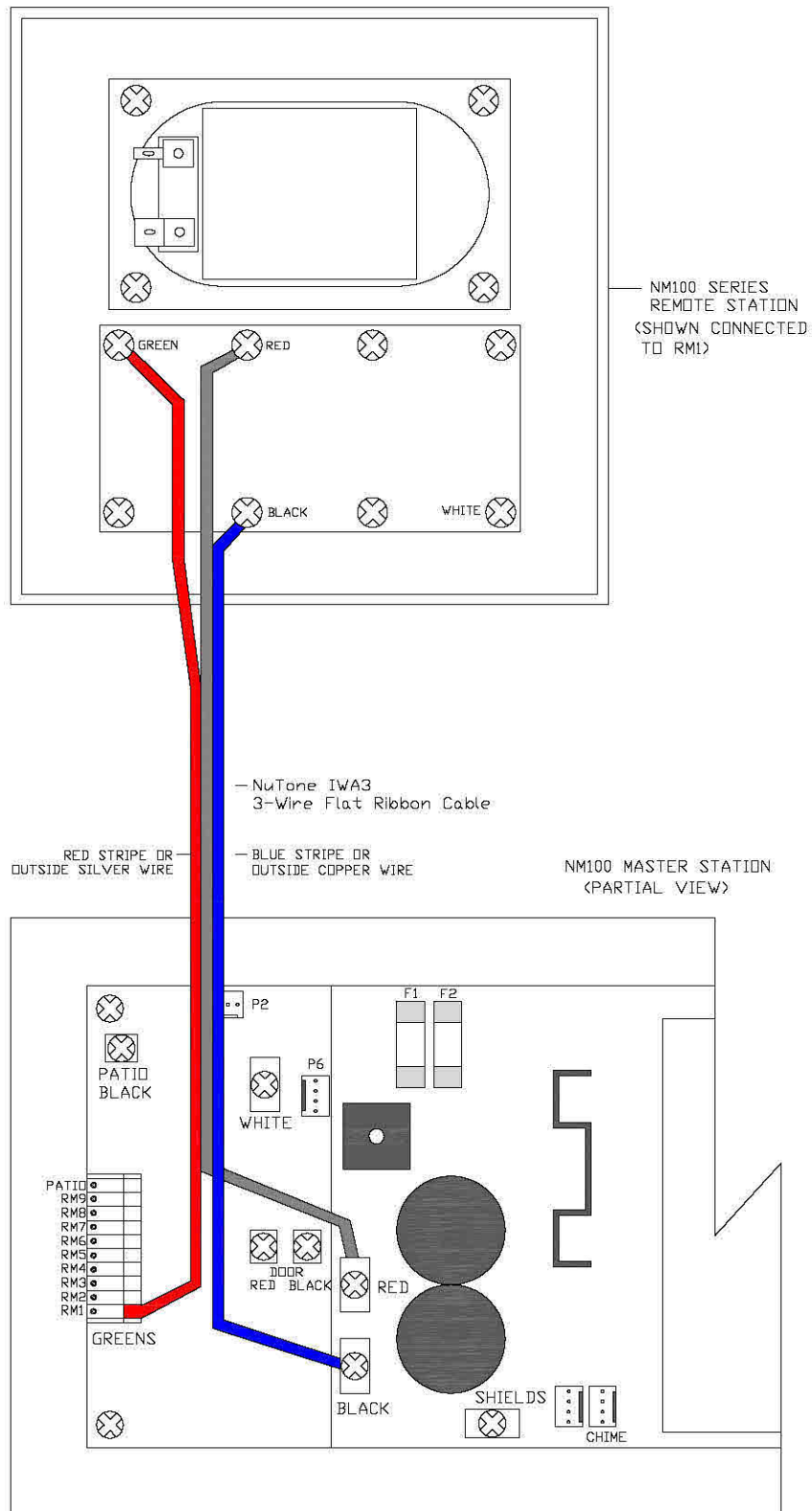
3 Note Chime Module. Plays a 1, 2 or 3 note chime sound when the chime pushbutton is pressed at the intercom door speaker. Supports up to 3 chime pushbuttons (one pushbutton for each chime sound). Chime module installs inside master station.



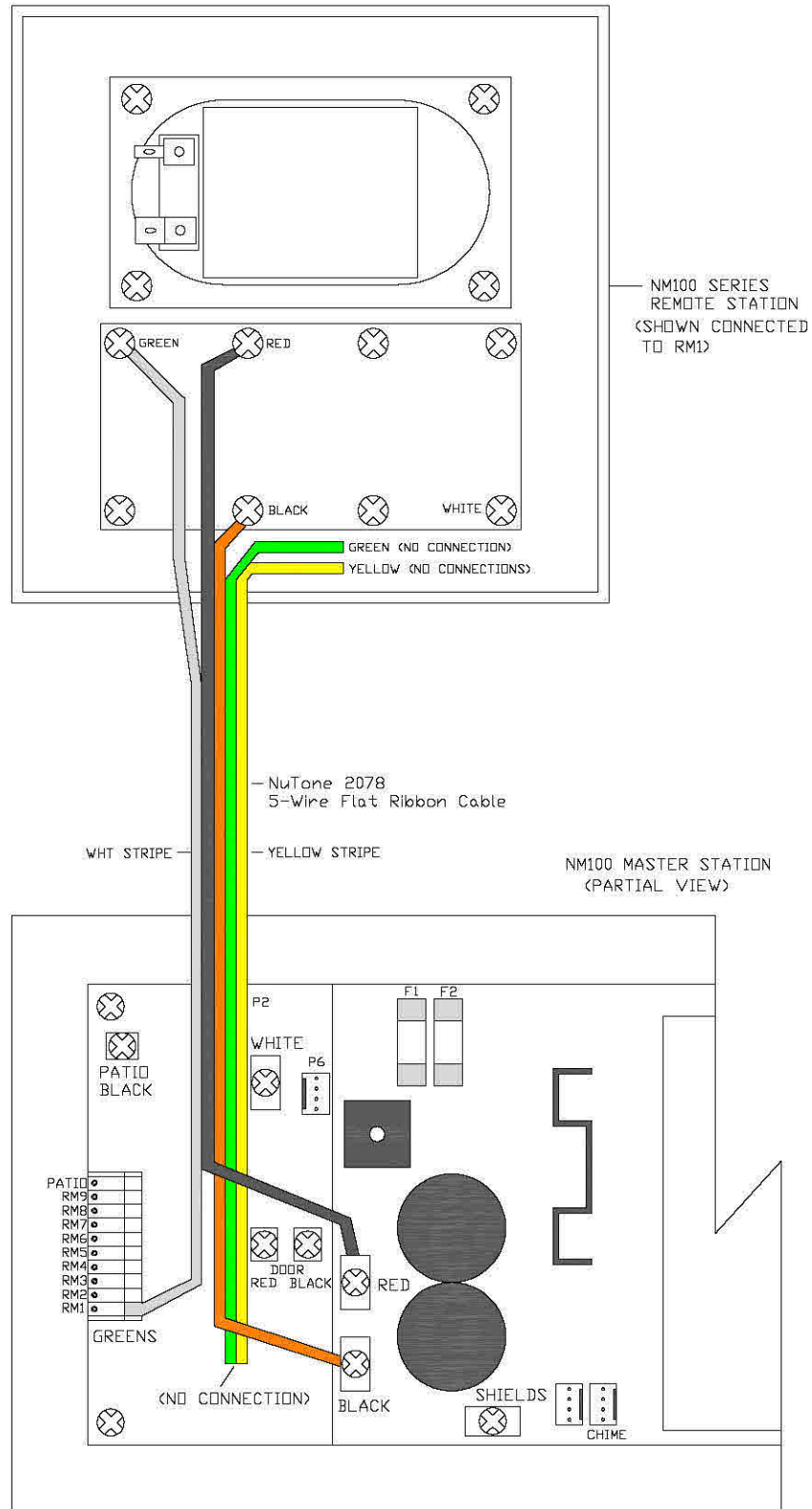
### **NA3008C**

8 Note Chime Module. Plays a 1, 2, 4 or 8 note chime sound when the chime pushbutton is pressed at the intercom door speaker. Supports up to 3 chime pushbuttons (one pushbutton for each chime sound). Chime module installs inside master station.

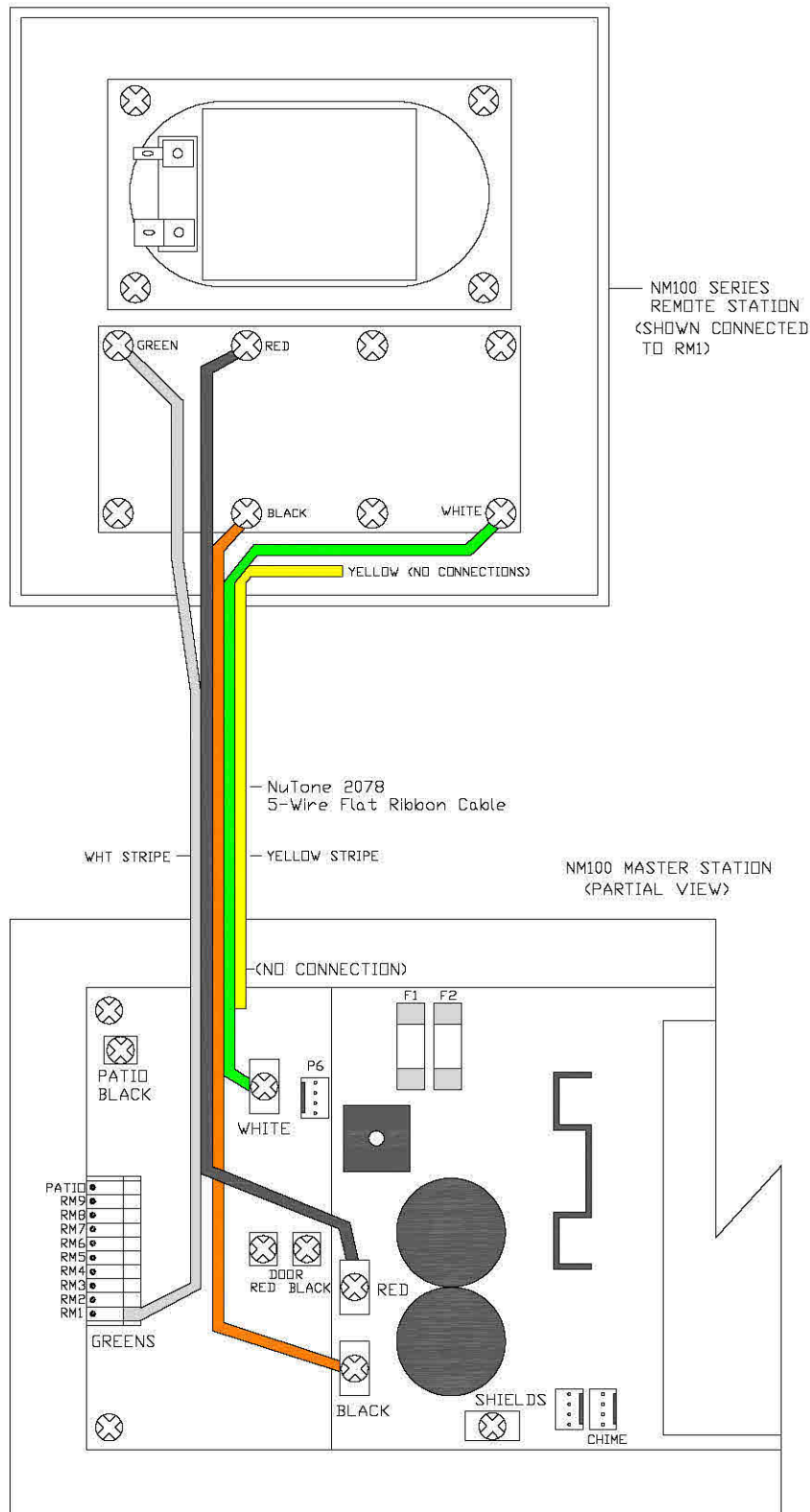
# Appendix A – NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IWA3 3-Wire Flat Ribbon Cable



# Appendix B - NM100 Series Intercom Master Station to Remote Station 3-Wire Retrofit Installation using Existing NuTone 2078 5-Wire Flat Ribbon Cable

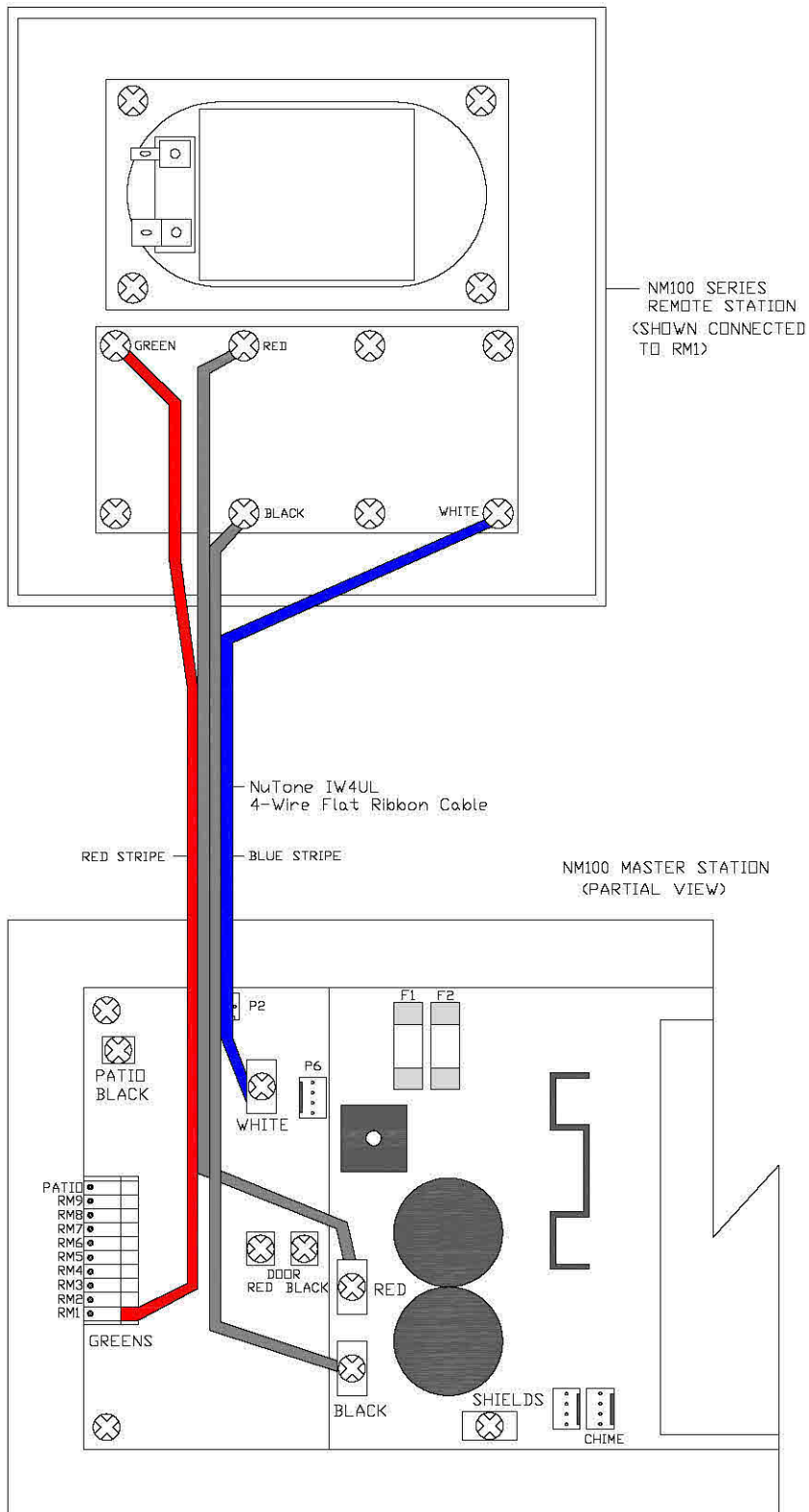


# Appendix C - NM100 Series Intercom Master Station to Remote Station 4-Wire Retrofit Installation using Existing NuTone 2078 5-Wire Flat Ribbon Cable

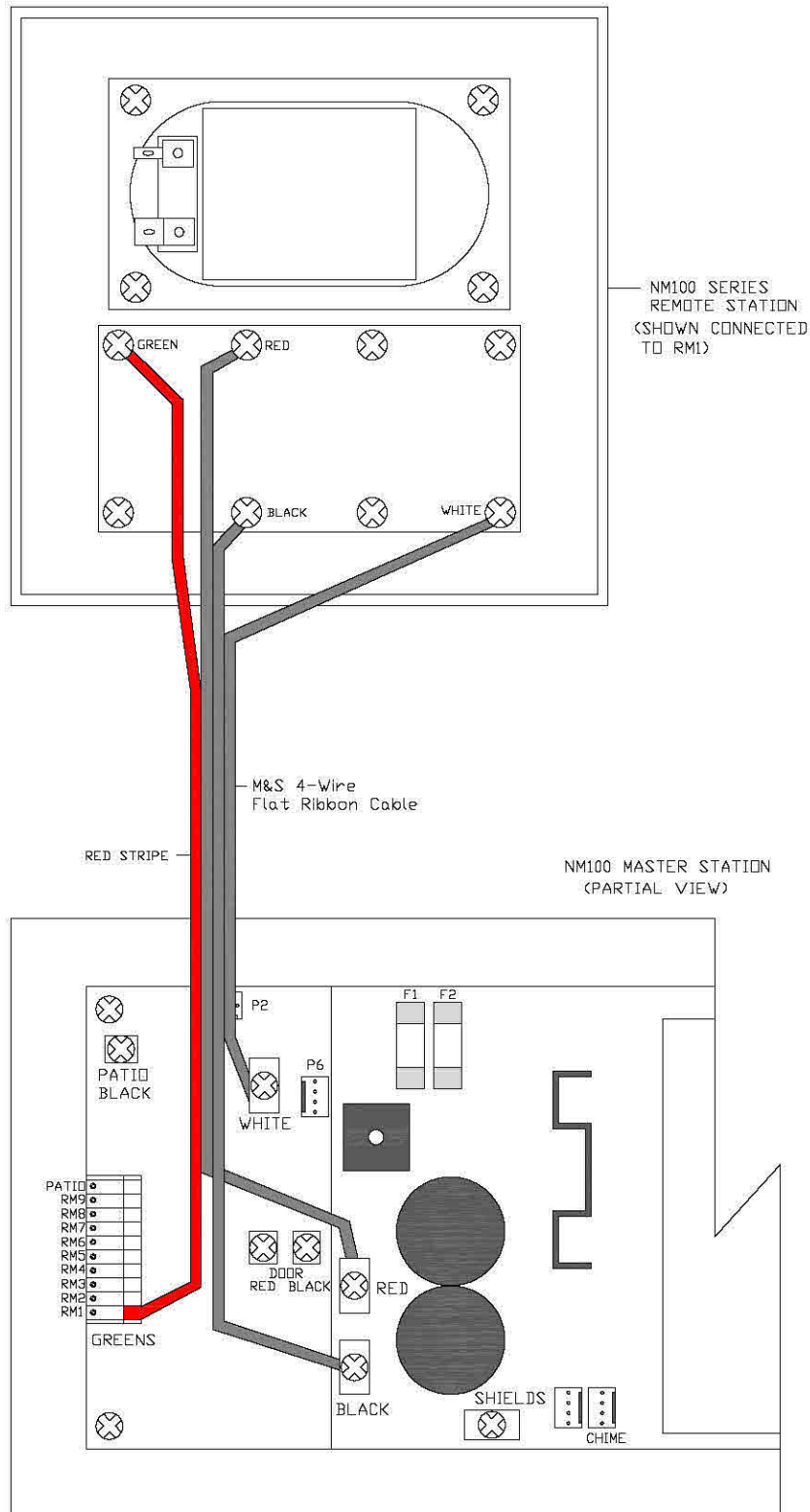




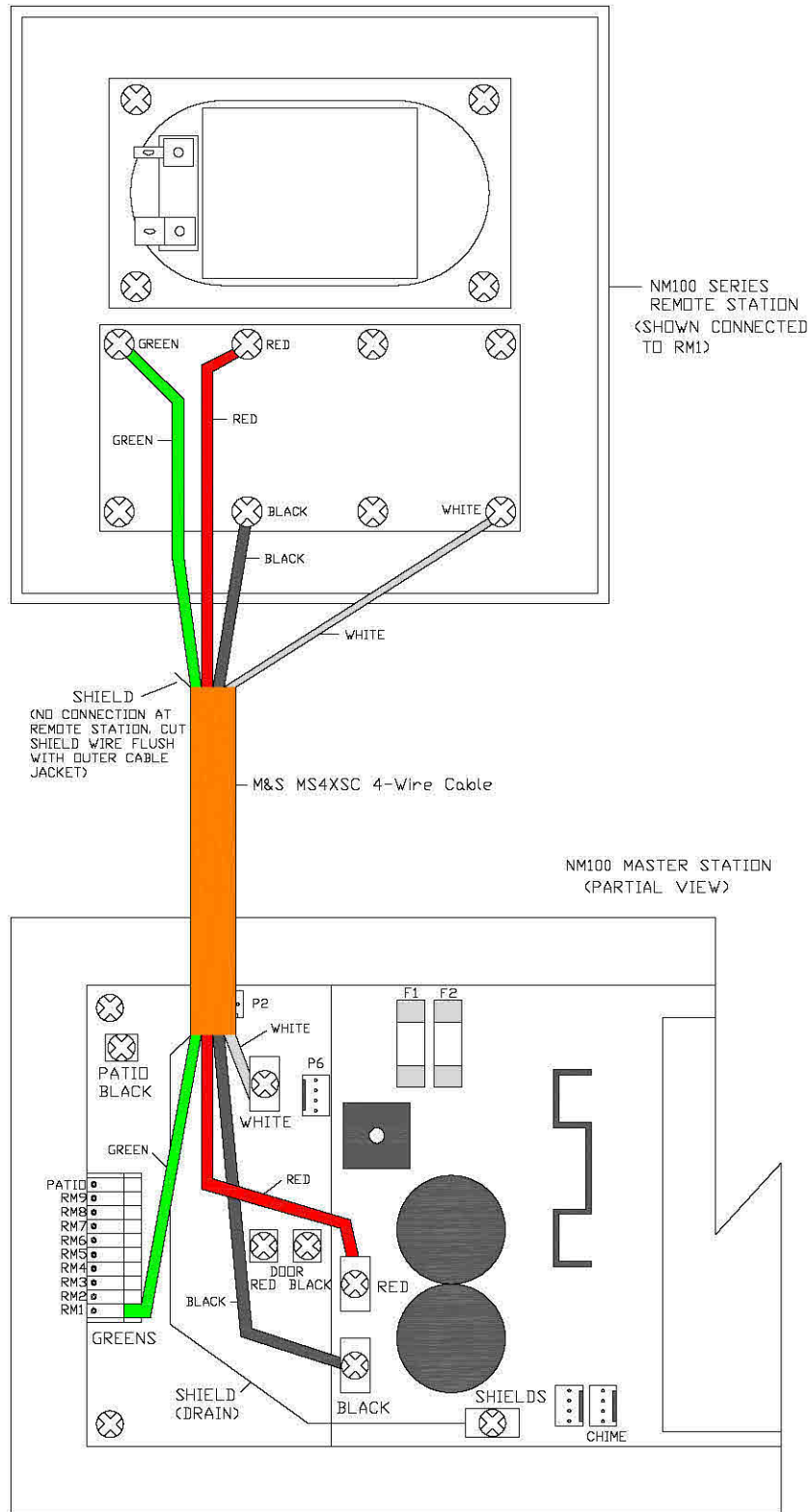
# Appendix D – NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW4UL 4-Wire Flat Ribbon Cable



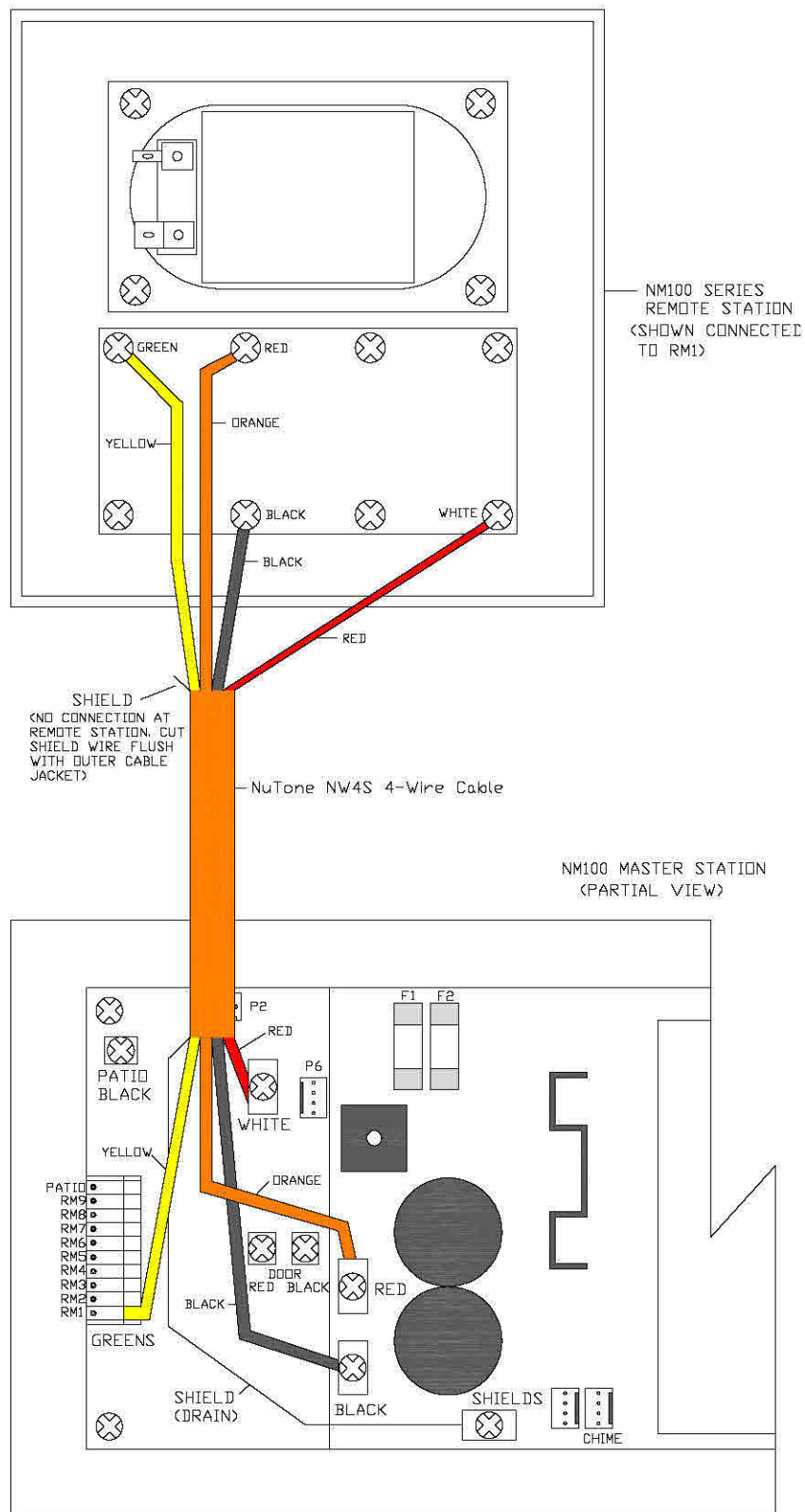
# Appendix E – NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing M&S 4-Wire Flat Ribbon Cable



# Appendix F – NM100 Series Intercom Master Station to Remote Station Retrofit Installation using Existing M&S MS4XSC 4-Wire Cable



# Appendix G – NM100 Series Intercom Master Station to Remote Station Retrofit Installation using NuTone NW4S 4-Wire Cable



# 6/8-Wire Radio-Intercom Updating Guide for the NM200 Series Radio-Intercom System

Older 6/8-wire systems may be converted to an NM200 Series Radio-Intercom System. This booklet outlines the updating procedure; indicating the components that may be retained from the existing system and the units that should be replaced.

**NOTE:** Due to component size differences, some wall patching may be required when installing new system.



**NM200 Series**

#### **Master Station:**

##### **NM200AL Almond Finish or NM200WH White Finish**

- System may include a maximum of fifteen (15) remote stations and three (3) door speakers.

#### **Wiring Requirements:**

##### **Six/Eight-wire system.**

- Maximum of 350 feet per remote station.
- Maximum of 1000 feet total per system.

#### **Rough-In Frame for Master Station Only:**

##### **Model NWH300 Rough-In Frame**

(includes transformer, omni-directional AM and FM antennas and 75 feet of door speaker cable.)

#### **Power Source:**

##### **NA300TA Transformer**

Supplied with NWH300 rough-in. Mounts in bottom of rough-in frame. 120 VAC 60 Hz circuit must be provide from the circuit breaker panel to the master station location.

#### **Power Source:**

##### **NA300TA Transformer (master)**

Supplied with NWH300 rough-in. Mounts in bottom of rough-in frame.

Contact one of our technical service representatives with questions regarding updating your system by calling 888-336-6151, by faxing 800-873-2311, or by E-mailing customer service at [nutonecs@broan-nutone.com](mailto:nutonecs@broan-nutone.com)

# UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS

## Master Station Model Numbers: 2540, 2541

### Wiring Requirements:

Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Speakers without Controls:

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Number: 2542

### Wiring Requirements:

Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

## UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### **Speakers without Controls:**

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### **Door Speakers:**

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## **Master Station Model Numbers: 2561, 2562**

**NOTE:** If the existing system is a completely "home run" system (i.e. one 8-wire cable for every remote at the master station) then the system can be converted to the NM200 System.

If the existing system is loop or partially loop wired, the wiring from the master location to each remote station location must be changed to "home run" wiring to use the NM200 system.

### **Wiring Requirements:**

Use six (6) of the existing 8-conductor wiring from the master station to remote stations (blue pair not used).

Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

### **Rough-In Frame for Master Station:**

Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### **Power Source:**

Use transformer(s) supplied with new master station rough-in housing.

### **5" Speakers with Controls:**

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### **8" Speakers with Controls:**

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### **Remote Controls:**

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### **Speakers without Controls:**

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### **Door Speakers:**

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## **Master Station Model Number: SM-428**

**NOTE:** If the existing system is a completely "home run" system (i.e. one 8-wire cable for every remote at the master station) then the system can be converted to the NM200 System.

If the existing system is loop or partially loop wired, the wiring from the master location to each remote station location must be changed to "home run" wiring to use the NM200 system.

## UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Wiring Requirements:

Use six (6) of the existing 8-conductor wiring from the master station to remote stations (blue pair not used). Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

**NOTE:** For Channel "B" speaker, the wall must be patched.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

**Speakers without Controls:** Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Numbers: IM/IMA-406

**NOTE:** If the existing system is a completely "home run" system (i.e. one 6-wire cable for every remote at the master station) then the system can be converted to the NM200 System.

If the existing system is loop or partially loop wired, the wiring from the master location to each remote station location must be changed to "home run" wiring to use the NM200 system.

### Wiring Requirements:

Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

### Rough-In Frame for Master Station:

Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.



## UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Speakers without Controls:

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## Master Station Model Number: IM/IMA-4006

### Wiring Requirements:

**IM4006** - Use existing 6-conductor wiring from the master station to remote station locations. Systems that use a 6-wire ribbon cable can be used by separating the ribbon cable into 6 individual wires. Use **Appendix I** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6R 6-Wire Flat Ribbon Cable" at the end of this document for proper wire connections.

**IMA4006** - Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformer in IM/IMA-4006 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

### Power Source:

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM200 master station to connect the transformer(s) in the master station rough-in.

### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### Speakers without Controls:

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### Master Station Model Number: IM/IMA-4406

#### Wiring Requirements:

Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

#### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformers in IM/IMA-4406 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

#### Power Source:

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM200 master station to connect the transformer(s) in the master station rough-in.

#### 5" Speakers with Controls:

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

#### 8" Speakers with Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

#### Remote Controls:

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

#### Speakers without Controls:

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

#### Door Speakers:

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

### Master Station Model Number: IM/IMA-806

**NOTE:** If the existing system is a completely "home run" system (i.e. one 6-wire cable for every remote at the master station) then the system can be converted to the NM200 System.

If the existing system is loop or partially loop wired, the wiring from the master location to each remote station location must be changed to "home run" wiring to use the NM200 system.

#### Wiring Requirements:

Use existing 6-conductor wiring from the master station to remote station locations. Wire color codes on existing wiring don't match color codes on new master and remote stations. Use **Appendix H** "NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable" at the end of this document for proper wire connections.

#### Rough-In Frame for Master Station:

Have a qualified electrician disconnect 120 VAC circuit from transformer in IM/IMA-806 rough-in frame. Replace existing rough-in and patch wall surface as necessary. If installing NM200WH master station use NWH300 rough-in and NF100MWH master retrofit frame.

## UPDATING 6/8-WIRE RADIO-INTERCOM SYSTEMS (Continued)

### **Power Source:**

Use transformer(s) supplied with new master station rough-in housing. Have a qualified electrician reconnect existing 120 VAC circuit to the transformer(s) master station location and following the installation instruction provided with the NM200 master station to connect the transformer(s) in the master station rough-in.

### **5" Speakers with Controls:**

**Indoor:** Replace existing indoor remote station with NRS200WH remote station and NF300RWH indoor remote station retrofit frame (use existing rough-in).

**Outdoor:** Replace existing outdoor remote station with NPS200WH remote station. When replacing existing surface mount remote station, remove existing surface mount frame and replace with NRKS200PWH surface mount frame. When replacing existing flush mount remote station, use NF300PWH retrofit frame (use existing rough-in).

### **8" Speakers with Controls:**

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### **Remote Controls:**

Patch wall and replace with NRS200AL or NRS200WH remote station and NRKR200R remote station rough-in frame.

### **Speakers without Controls:**

Replace existing speaker and patch wall surface as necessary. Use speaker model NS382CWH, NS3820BL or NS3820WH. Use existing wiring. Install a local volume control model NA300MCWH to allow control of the volume at this speaker.

### **Door Speakers:**

Replace existing speaker with NDB300WH door speaker and NF300DWH door station retrofit frame. For best operation, replace cable between door speaker and master station with NW4S cable provided with the master station rough-in. In some cases it **MAY** be possible to use the existing 2 wire cable, but the system may encounter hum, noise and oscillation. If this occurs, replace existing cable with NW4S cable. If the system includes a chime module the chime wires in the NW4S cable must be connected to the door speaker chime pushbutton and master station chime module.

## NM200 SERIES Remote Stations



**NRS200WH**  
Indoor 6/8-wire remote station. Use with NF300RWH updating frame. White finish.



**NPS200WH**  
Outdoor 6/8-wire remote station. Use with NF300PWH or NRKS200PWH updating frames. White finish.

## NM200 SERIES Door Stations



**NDB300AB**  
Door speaker. Use with NF300DWH or NRKR300D updating frames. Antique Brass finish.



**NDB300BB**  
Door speaker. Use with NF300DWH or NRKR300D updating frames. Bright Brass finish.

## NM200 SERIES Door Stations (continued)



### NDB300N

Door speaker. Use with NF300DWH or NRKR300D updating frames. Nickel finish.



### NDB300WH

Door speaker. Use with NF300DWH or NRKR300D updating frames. White finish.

## NM200 SERIES ROUGH-INS



### NWH300

Housing for NM100/NM200 Master Station. Includes transformer, AM and FM antennas and 75 feet of NW4S door speaker cable.  
Cutout 14 3/8" wide x 5 9/16" high



### NRKR200R

Housing for NRS103, NRS104 & NRS200 Remote Stations.  
Cutout 5" wide x 5 1/4" high



### NRKF200P

Housing for NPS103, NPS104 & NPS200 Remote Stations.  
Cutout 4 13/16" wide x 4 7/8" high



### NRKR300D

Housing for NDB300 series Door Speakers.  
Cutout 3 5/8" wide x 5 3/4" high

## NM200 SERIES SURFACE and UPDATING FRAMES



### **NF100MWH**

Master Station Retrofit Frame. Used to retrofit NM100/200 master station when replacing master station with taller dimensions. Finish, white plastic.

**Dimensions 17 1/2" wide x 10 5/8" high**



### **NF200MWH**

Master Station Retrofit Frame. Used in installations where a gap is exposed around the master station mounting hole. Finish, white plastic.

**Dimensions 16 5/16" wide x 6 1/4" high**



### **NF300RWH**

Indoor Remote Station Retrofit Frame. Used to retrofit NRS103, NRS104 and NRS200 indoor remote stations over existing, larger remote station rough-in frames. Finish, white plastic.

**Dimensions 7 1/2" wide x 10" high**



### **NF300PWH**

Outdoor Remote Station Retrofit Frame. Used to retrofit NPS103, NPS140 and NPS200 outdoor remote stations over existing, larger remote station rough-in frames. Finish, white plastic.

**Dimensions 7 1/2" wide x 10" high**

## NM200 SERIES SURFACE and UPDATING FRAMES (continued)



### **NRKS200PWH**

Outdoor Remote Station Surface Mounting Frame. Used to surface mount NPS103, NPS104 and NPS200 outdoor remote stations. Finish, white plastic

**Dimensions 5 7/8" wide x 7 7/8" high**



### **NF300DWH**

Door Speaker Retrofit Frame. Used to retrofit NDB300 series door speakers over existing door speaker rough-in frames. Finish, white plastic

**Dimensions 4 7/8" wide x 6 5/8" high**



### **NES300DWH / NES300DBL**

Door Speaker Surface Mount Frame. Used to surface mount NDB300 series door speakers. Finish, white or black plastic.

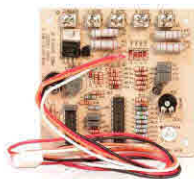
**Dimensions 3 13/16" wide x 5 15/16" high**

## NM200 OPTIONAL ACCESSORIES



### **NA3003C**

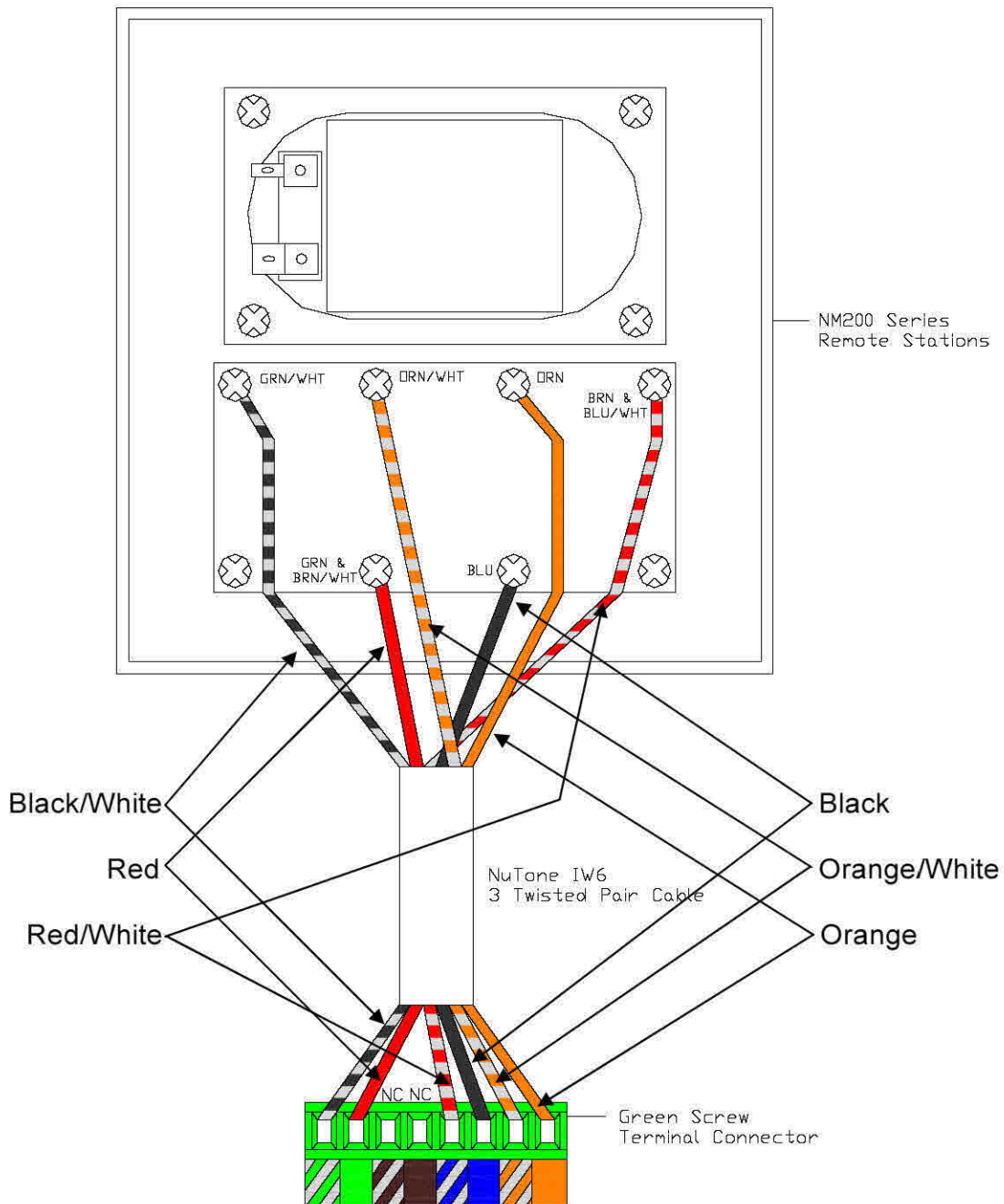
3 Note Chime Module. Plays a 1, 2 or 3 note chime sound when the chime pushbutton is pressed at the intercom door speaker. Supports up to 3 chime pushbuttons (one pushbutton for each chime sound). Chime module installs inside master station.



### **NA3008C**

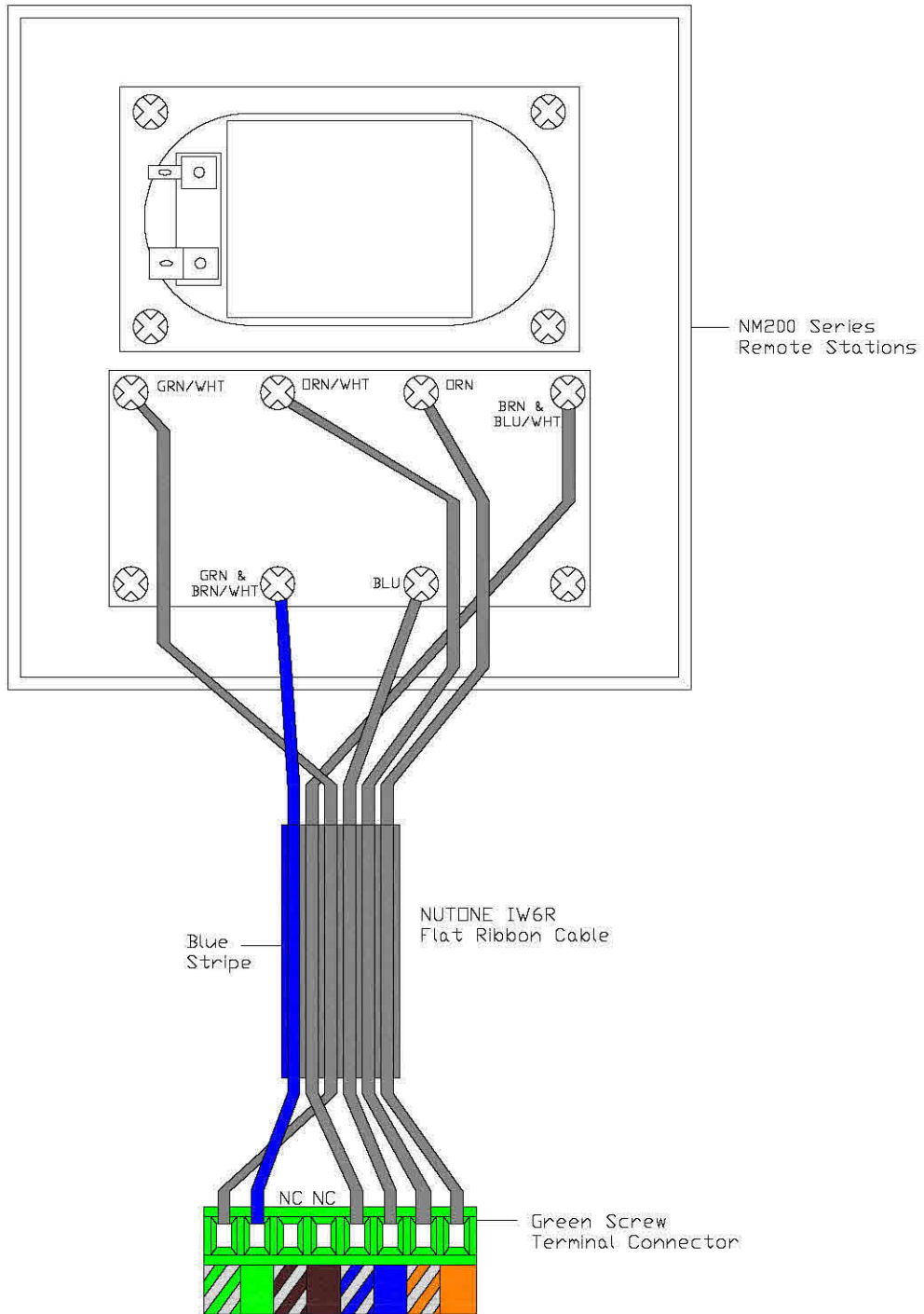
8 Note Chime Module. Plays a 1, 2, 4 or 8 note chime sound when the chime pushbutton is pressed at the intercom door speaker. Supports up to 3 chime pushbuttons (one pushbutton for each chime sound). Chime module installs inside master station.

# Appendix H - NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6 3-Twisted Pair Cable





# Appendix I - NM200 Series Intercom Master Station to Remote Station Retrofit Installation using Existing NuTone IW6R Flat Ribbon Cable





**NuTone®** is America's leading brand of residential built-in convenience products including door chimes, central vacuum systems, intercom systems, home theater speakers, medicine cabinets, ironing centers and ventilation fans.

**Broan®** is America's leading brand of residential ventilation products including range hoods, ventilation fans, heater/fan/light combination units, Indoor Air Quality (IAQ) Systems, built-in heaters, whole-house fans, attic ventilators, paddle fans and trash compactors.

Broan and NuTone are proud to be ENERGY STAR® partners.

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