

Door Com™ Door-Answering Intercom

MODEL: IK-15 SERIES

Includes: Inside Master Speaker and Door Speaker

LOCATION

REPLACEMENT FOR EXISTING 2-NOTE CHIME

1. Locate the Inside Speaker where existing chime is located. In many cases existing wiring can be used - see enclosed "IDENTIFYING CHIME WIRING INSTRUCTIONS."
2. If existing 2-Note Chime is mounted at a height which is inconvenient to reach, a pull cord is provided to operate the Intercom Control button.
3. **IMPORTANT: DO NOT LOCATE SPEAKERS MORE THAN 300 FEET APART. DO NOT LOCATE SPEAKERS BACK-TO-BACK ON THE SAME WALL.**
4. Locate Door Speaker where existing pushbutton is located. Use pushbutton wiring - see enclosed "IDENTIFYING CHIME WIRING INSTRUCTIONS." Note: If existing pushbutton is uneven or narrow surface, it will be necessary to locate Door Speaker elsewhere.
5. Locate Door Speaker: (A) on an even surface; (B) on a surface wide enough for the speaker; (C) as close to existing wire as possible.

IMPORTANT: NuTone cannot be responsible for improper intercom operation that results from interference generated by light dimmers, fluorescent lighting fixtures, and similar electrical products, such interference must be corrected at the source. As an aid to help reduce this interference, all remote cables must be placed at least 12 inches from any A.C. power wiring.

NEW INSTALLATION

1. Locate the Inside Speaker wherever it is convenient. Install speaker at an easy operating height.
2. Locate Door Speaker close to the door. Install speaker at height for easy pushbutton operation.
3. Try to locate speaker where running the wiring will not present a problem.

WIRING

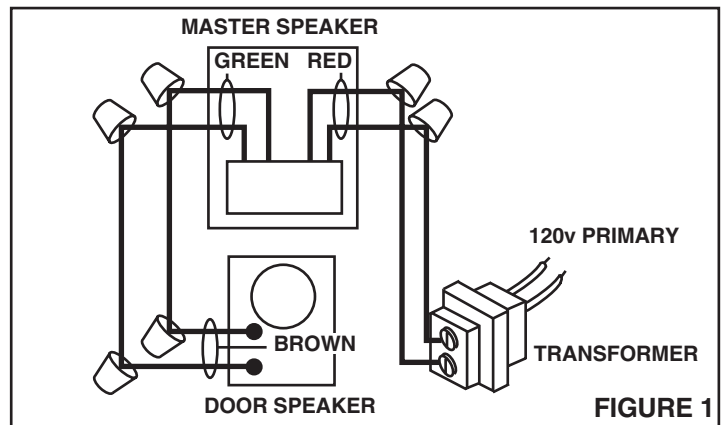
WIRING CAUTIONS

1. Turn off house power at the source and leave it off until installation is complete.
2. All wiring must comply with local wiring codes.
3. Carefully fasten wiring to wall studs and ceiling joists. Avoid short circuits caused by staples, nails, or clips cutting through the wiring's insulation.

NEW INSTALLATION

1. Install the supplied 16 volt transformer. Mount the transformer to a junction box or a circuit breaker box. **Do not mount transformer in high temperature area (i.e., attic).** Connect 120v house power wiring to transformer's primary leads.
2. Run NuTone IW-2 cable (100 ft max) from transformer's secondary terminals to the Master Speaker location.

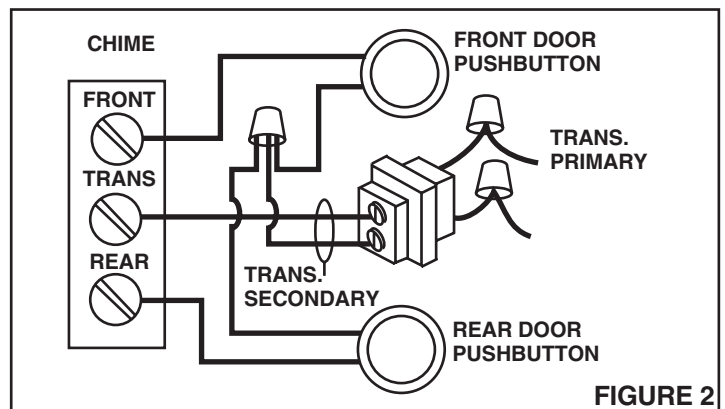
3. Run NuTone IW-2 Cable (300 ft max) from the Door Speaker location to the Master Speaker location.
4. Refer to Figure 1. Connect brown Door Speaker wires to green Master Speaker wires.
5. Refer to Figure 1. Connect transformer wires to red Master Speaker wires.
6. Use wire nuts to make all connections. Insulate all connections with electrical tape.
7. If door latch feature is required, see "Optional Door Latch Wiring".



TRANSFORMER REPLACEMENT

Refer to Figure 2.

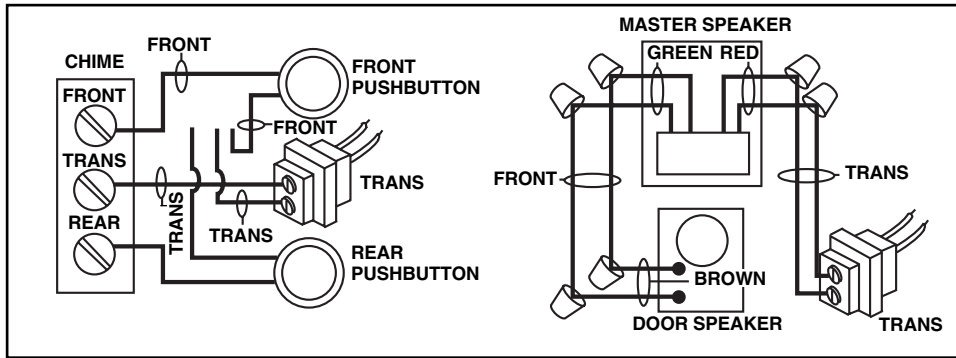
1. When replacing an existing 2-Note Chime with an IK-15 you must check to make sure you have a 16 Volt Transformer. If not use the transformer supplied. Observe local electrical codes.
2. **Disconnect house power to transformer.**
3. Disconnect transformer's primary wires from 120v house power wires.
4. Disconnect transformer's secondary wires from chime wires.
5. Replace transformer and reconnect primary wires to house wires.
6. Reconnect secondary wires.
7. Complete IK-15 wiring.
8. Restore power to transformer.



REPLACEMENT INSTALLATIONS

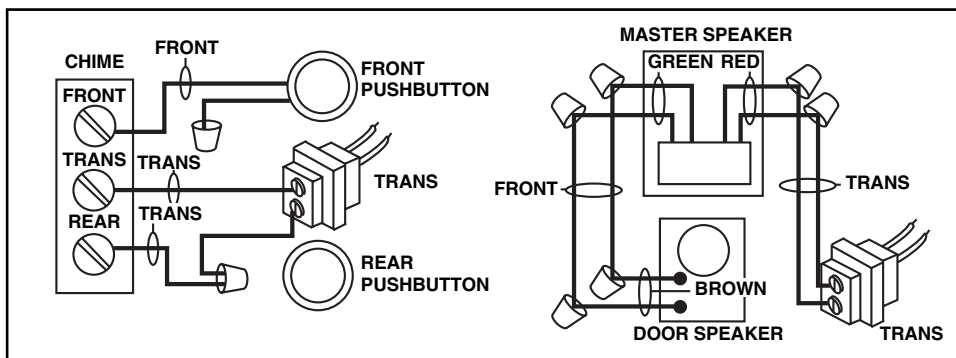
The first step in replacement installation is to identify the existing wiring. Once the wiring is correctly identified, it may be used for connecting the system. Before proceeding with the wiring, see the enclosed IDENTIFYING CHIME WIRING INSTRUCTIONS and follow the procedures for your PARTICULAR INSTALLATION.

INSTALLATION 1: FRONT AND REAR DOOR PUSHBUTTONS – COMMON WIRE CONNECTION AT CHIME LOCATION.



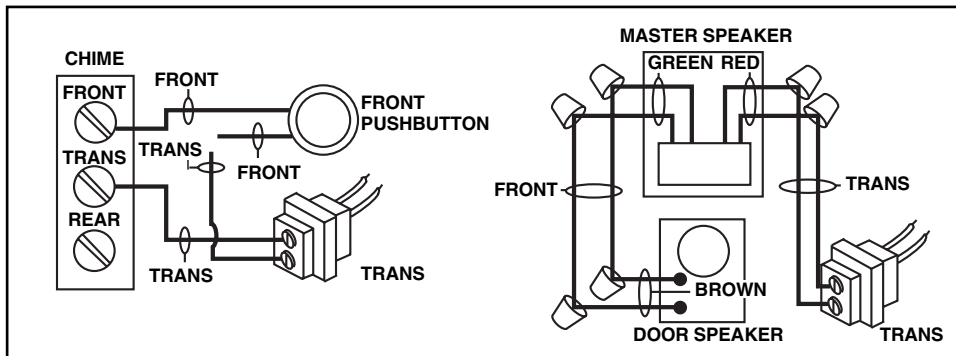
1. Label **FRONT** and **TRANS** wires connected to chime terminal screws. Disconnect wires from chime and remove chime.
2. Connect two wires marked **TRANS** to Master Speaker's **RED** wires.
3. Connect two wires marked **FRONT** to Master Speaker's **GREEN** wires.
4. Disconnect **FRONT** pushbutton. Remove pushbutton. Connect two front pushbutton wires to Door Speaker's **BROWN** wires.

INSTALLATION 2: FRONT AND REAR DOOR PUSHBUTTONS – COMMON WIRE CONNECTION AT TRANSFORMER LOCATION.



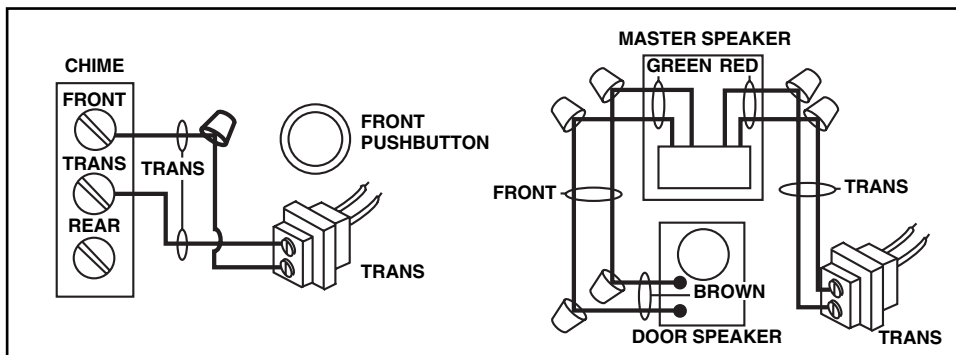
1. Label the two wires connected to the **TRANS** and **REAR** chime terminals. Label both wires **TRANS**.
2. Label **FRONT** wire connected to chime terminal. Disconnect all wires from chime and remove chime.
3. Since only one **FRONT** wire exists at chime location, it will be necessary to run at least one more 22 ga or larger wire from Door Speaker location to Master location. Run wire and label it **FRONT**.
4. Connect two wires marked **TRANS** to Master Speaker's **RED** wires.
5. Connect two wires marked **FRONT** to Master Speaker's **GREEN** wires.
6. Connect two wires at door Speaker/pushbutton location to Door Speaker's **BROWN** wires.

INSTALLATION 3: FRONT DOOR PUSHBUTTON ONLY – COMMON WIRE CONNECTION AT CHIME LOCATION.



1. Label **FRONT** and **TRANS** wires connected to chime terminal screws. Disconnect wires from chime and remove chime.
2. Connect two wires marked **TRANS** to Master Speaker's **RED** wires.
3. Connect two wires marked **FRONT** to Master Speaker's **GREEN** wires.
4. Disconnect front pushbutton. Connect two front pushbutton wires to Door Speaker's **BROWN** wires.

INSTALLATION 4: FRONT DOOR PUSHBUTTON ONLY – COMMON WIRE CONNECTION AT TRANSFORMER.



1. Label the two wires connected to **TRANS** and **FRONT** chime terminals – label both wires **TRANS**.
2. Run a NuTone IW-2 cable from Master location to Door Speaker location. Label wires **DOOR**.
3. Connect two wires marked **TRANS** to Master Speaker's **RED** wires.
4. Connect two wires marked **DOOR** to Master Speaker's **GREEN** wires.
5. Connect wires at Door Speaker location to Door Speaker's **BROWN** wires.

OPTIONAL DOOR LATCH WIRING AND PUSHBUTTON INSTALLATION

An optional door latch feature may be added to the system. This feature requires the addition of a NuTone PB-1 pushbutton and a NuTone DR-1 Door Release – both purchased separately.

PUSHBUTTON INSTALLATION

Refer to Figure 3.

1. Remove insert panel from Master Speaker.
2. Insert pushbutton through pushbutton hole in Master Speaker.

WIRING CONNECTIONS

Refer to Figure 4.

1. For lengths of 100 ft or less, run NuTone IW-2 cable from door latch location to Master Speaker location. Use NuTone S-143 (18 ga) cable for runs between 100 & 200 ft.
2. Connect the two yellow wires from the Master Speaker's PC board to the two pushbutton terminals.
3. Connect the Door Release wires to the two orange wires on the Master Speaker's PC board.

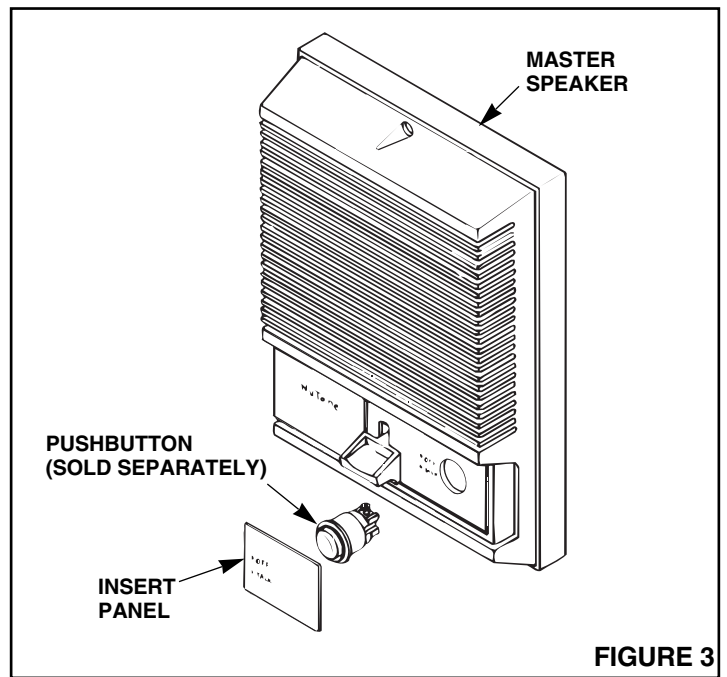


FIGURE 3

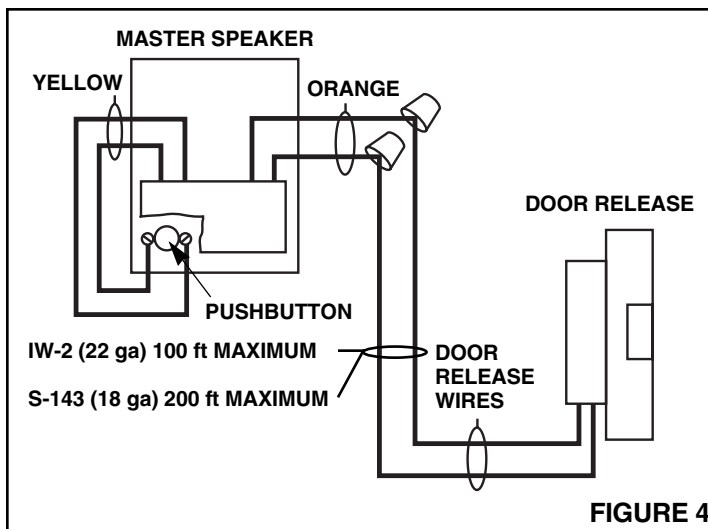


FIGURE 4

MOUNTING THE SPEAKERS

DOOR SPEAKER

Refer to Figure 5.

1. Once the Door Speaker wiring is connected, the speaker can be mounted.
2. Make sure speaker is mounted to a flat surface.
3. Use two supplied screws through bosses to mount speaker to surface. Use anchors (not supplied) if necessary.
4. Remove nameplate and namecard from Door Speaker. Write name on card and insert into nameplate. Snap nameplate into place.

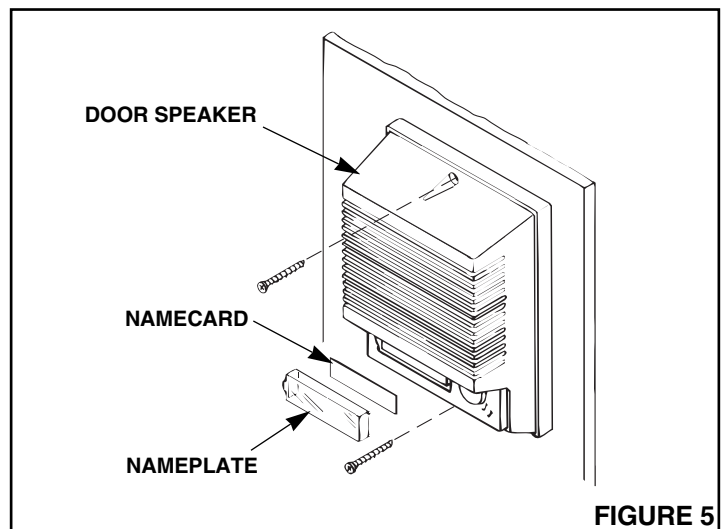


FIGURE 5

MASTER SPEAKER

1. Once the Master Speaker wiring is connected, the speaker can be mounted.
2. **Refer to Figure 6.** Attach pull cord if required. Insert cord through hole in TALK/LISTEN button. Secure cord with knot.
3. Use two supplied screws through bosses to mount speaker to wall. Use anchors (not supplied) if necessary.

TIMEOUT AND VOLUME ADJUSTMENT

TIMEOUT

The Door Speaker operates "hands-free." The intercom conversation is controlled by the Master Speaker. Operation is as follows: To speak to the Door Speaker, depress the TALK button. To listen to the Door Speaker, release the TALK button.

When the TALK button is released, the Door Speaker will be active until it times out. This timeout period is factory-set for approximately 15 seconds.

If the owner desires a longer timeout period, it can be adjusted up to 35 seconds. Adjust timeout by turning TIMEOUT thumbwheel pot clockwise to increase time. **Refer to Figure 7.**

VOLUME

The volume is factory set. However, if the intercom volume needs to be adjusted, use a screwdriver through the hole in the bottom of the speaker to make the adjustment. Turn clockwise to INCREASE volume. **Refer to Figure 8.**

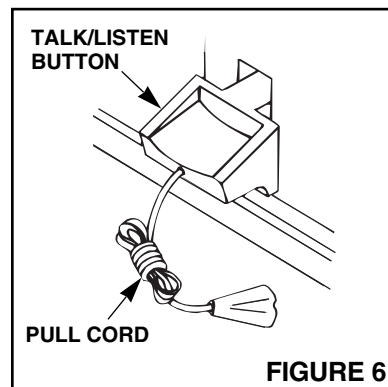


FIGURE 6

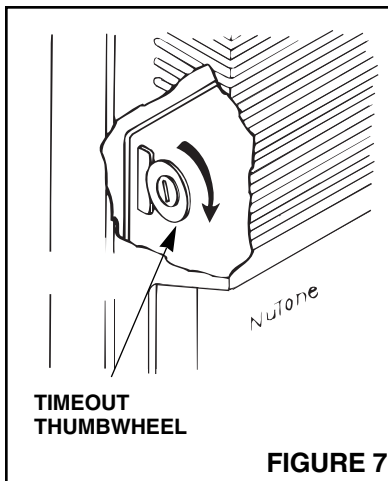


FIGURE 7

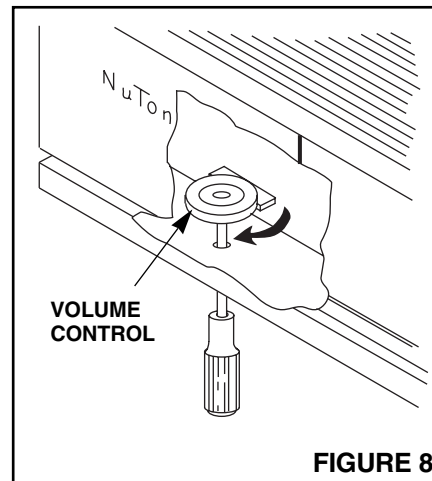


FIGURE 8

NuTone®

Two Year Limited Warranty

WARRANTY OWNER: NuTone warrants to the original consumer purchaser of its products that such products will be free from defects in materials or workmanship for a period of two (2) years from the date of original purchase. **THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

During this two year period, NuTone will, at its option, repair or replace, without charge, any product or part which is found to be defective under normal use and service. THIS WARRANTY DOES NOT EXTEND TO FLUORESCENT LAMP STARTERS OR TUBES, FILTERS, DUCT, ROOF CAPS, WALL CAPS AND OTHER ACCESSORIES FOR DUCTING. This warranty does not cover (a) normal maintenance and service or (b) any products or parts which have been subject to misuse, negligence, accident, improper maintenance or repair (other than by NuTone), faulty installation or installation contrary to recommended installation instructions.

The duration of any implied warranty is limited to the one year period as specified for the express warranty. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

NUTONE'S OBLIGATION TO REPAIR OR REPLACE, AT NUTONE'S OPTION, SHALL BE THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY. NUTONE SHALL NOT BE LIABLE FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH PRODUCT USE OR PERFORMANCE. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty supersedes all prior warranties.

WARRANTY SERVICE: To qualify for warranty service, you must (a) notify NuTone at the address stated below or telephone 1/800-543-8687, (b) give the model number and part identification and (c) describe the nature of any defect in the product or part. At the time of requesting warranty service, you must present evidence of the original purchase date.

Date of Installation

Builder or Installer

Model No. and Product Description

IF YOU NEED ASSISTANCE OR SERVICE:

For the location of your nearest NuTone Independent Authorized Service Center:

Residents of the contiguous United States Dial Free 1-800-543-8687

Please be prepared to provide:

Product model number • Date and Proof of purchase • The nature of the difficulty

Residents of Alaska or Hawaii should write to: NuTone Inc. Attn: Department of National Field Service, 4820 Red Bank Road, Cincinnati Ohio 45227-1599.

Residents of Canada should write to: Broan-NuTone Canada, 1140 Tristar Drive, Mississauga, Ontario, Canada L5T 1H9.

Rev. 03/2001

Product specifications subject to change without notice.

NuTone®

4820 Red Bank Road, Cincinnati, Ohio 45227
Printed in Malaysia, Rev. 4/01, Part No. 44421