

Entrance Directories

**Model Nos. 495, 495-P, 495-T, & 495-TP
496, 496-P, 496-T, & 496-TP**

MODEL 495 AND 495-P SERIES ENTRANCE DIRECTORIES

(For use with one and two entry buildings with 478 and IM-516 Control Amplifiers)

MODEL 496 AND 496-P SERIES ENTRANCE DIRECTORIES

(For 2 entry buildings with control amplifier Model 478, equipped with Model 469 Auto-Call-Transfer Adapter).

NOTICE: All NuTone directory panels are fabricated from anodized aluminum and are resistant to weathering effects. However, these panels are NOT resistant to the acids found in the solution used to wash down the bricks upon completion of construction. Therefore, after the Directory is installed, a piece of polyethylene plastic sheet should be placed over the directory to protect the finish.

Description

The Model 495 and 496 Series Entrance Directories consist of 2 to 10 panels assembled within a frame and include an entrance speaker, the required number of tenant apartment pushbuttons and an alphabetical name directory panel(s). Each name panel accommodates up to 40 name listings.

The 496 and 496-P Directories, for use in 2 entrance buildings, include a flashing indicator light (automatic call transfer) on the speaker panel, to signal that the system is in use. Either the main or second directory is automatically disconnected from the system when the tenant is talking with a caller at the other directory.

The Models 495-P and 496-P Entrance Directories include all the features of the 495 and 496 models plus provision on the speaker panel for the Postal Master Lock which securely locks the panel and activates the entrance door lock release. (Postal Master Lock is furnished by the local Post Office).

The Model 495-T, 495-TP, 496-T, and 496-TP Series Entrance Directories contain the same features as the Model 495 and 496 except they incorporate a telephone handset in place of the directory speaker.

NOTE: Do not install 495-T, 495-TP, 496-T, or 496-TP Directories outdoors. These directories must be installed in foyer or lobby.

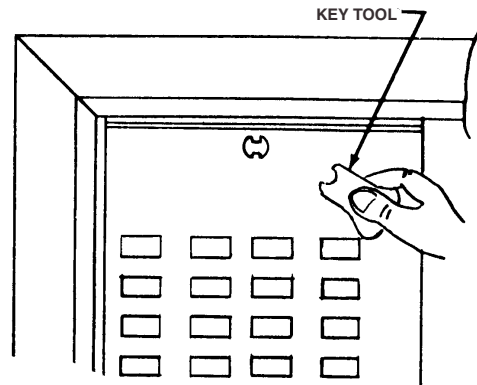


Figure 1

To Prepare For Installation

The individual directory panels are held in a closed position with two quarter-turn, tamper-resistant fasteners located at the top and bottom of each panel. (Figure 1).

Before installation, the panels should be opened by using the key tool furnished. Turn each fastener one-quarter turn counter-clockwise. (Figure 1).

Directory Installation - Models 495 & 496

Install four number 8 x $\frac{5}{8}$ " mounting screws (supplied) approximately halfway into the mounting holes in the sides of the previously installed 490 housing. Install four number 12 x $\frac{1}{2}$ " mounting screws (supplied) equally spaced apart on the top and bottom of the 490 housing. DO NOT tighten screws until directory is installed. (Figure 3).

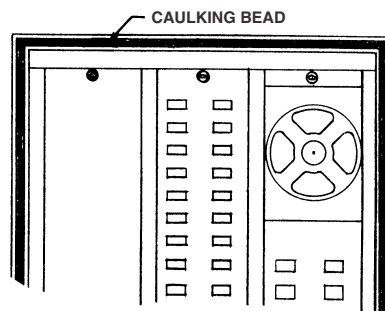


Figure 2

NOTE: If directory is mounted outside main entry door, place a bead of caulking compound around the inside edge of the directory as shown in Figure 2. Insert directory into housing making sure frame mounting slots are lined up with mounting screws. Position directory flush against finished wall surface and tighten mounting screws. (Figure 3). After installation of directory, place a bead of caulking around the directory frame between frame and wall surface. (Figure 3A).

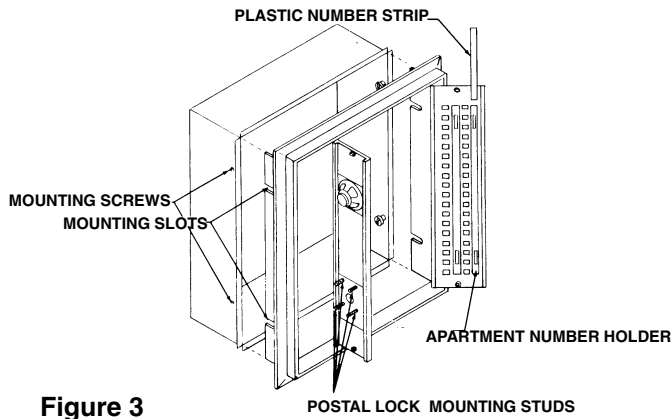


Figure 3

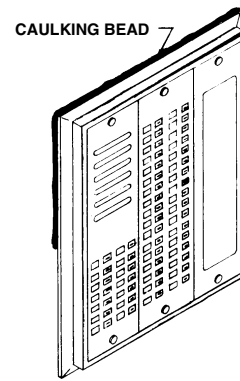


Figure 3A

Directory Installation - Models 495-P & 496-P

Position door release pushbutton compartment inside the 490 Housing, lower left side and secure to sides and rear of housing with screws furnished. (Figure 4).

Adjust top bracket as shown on label inside pushbutton compartment. (Figure 5).

Follow installation procedure under "Directory Installation Models 495 & 496" above to install the directory panel.

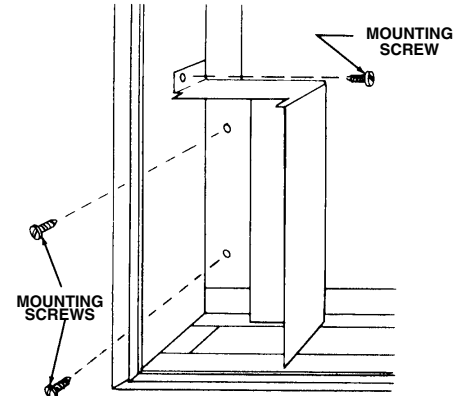


Figure 4

Directory Installation - Models 495-T, 496-T, 495-TP & 496-TP

Follow installation instructions as in "Directory Installation Models 495 & 496" and "Directory Installation- Models 495P & 496-P" above to install directory panel. See installation instructions packaged with telephone handset for mounting handset to directory panel.

NOTE: Do not install 495-T, 495TP, 496T, or 496-TP Directories outdoors. These directories must be installed in foyer or lobby.

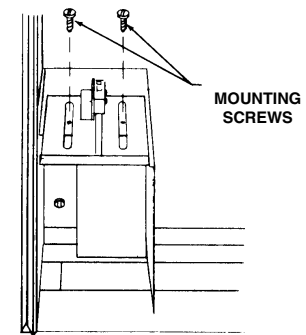


Figure 5

Wiring Connections

NOTE: Refer to Control/Amplifier Model IM-516 or 478 installation instructions for complete and detailed system wiring requirements.

Model 495 Single Entry Directory

(For use with Model IM-516 or 478 Control/Amplifier).

Model IM-516 Amplifier

Connect single conductor 18-gauge wire from the 16V AC ground terminal of IM-516 Amplifier to the common buss terminal of the directory pushbutton panel - jumper to any adjacent panel(s). (Figure 6).

Connect 22-gauge, 2-conductor TWISTED pair wires from Black - Black/White terminals of IM-516 Amplifier to directory speaker terminal screws, lead wires and/or telephone handset. (Figure 6).

Model 478 Amplifier

Connect a single conductor, 22-gauge wire from the "RING COMMON" terminals of the Control/Amplifier terminal board to the common buss terminal of the directory pushbutton panel – jumper to any adjacent panel(s). (Figure 7).

Connect 22-gauge, 2-conductor TWISTED pair wires from "LOBBY SPEAKER" terminals of 478 Control/Amplifier terminal board to the directory speaker terminal screws, lead wires and/or telephone handset. (Figure 7).

Pushbutton Wiring

Connect all "RING" wires in riser cables from each apartment to the proper pushbutton on the directory pushbutton panel. (Figures 6, 7, & 8).

495-P Directory - with Postal Lock Provision

Note: Use only with Direct-A-Com Series 3 System when directory can be installed adjacent to locked entrance door. Same connections as Model 495 Directory PLUS:

Model IM-516 (Direct-A-Com Series 3)

Connect 18-gauge wire from "16 V AC" terminals of IM-516 Amplifier and 18-gauge wire from door release to the door release switch in 495-P. (Figures 6 & 9).

Model 478 (Direct-A-Com Series 4)

Connect 2-conductor, 22-gauge wires from "POSTAL LOCK" terminals of Control/Amplifier terminal board to the door release switch in the 495-P. (Figures 7 & 9).

Note: Add Model 467 Time Delay Module to Model 478 for delayed operation of door release when directory is located beyond reach of entrance door.

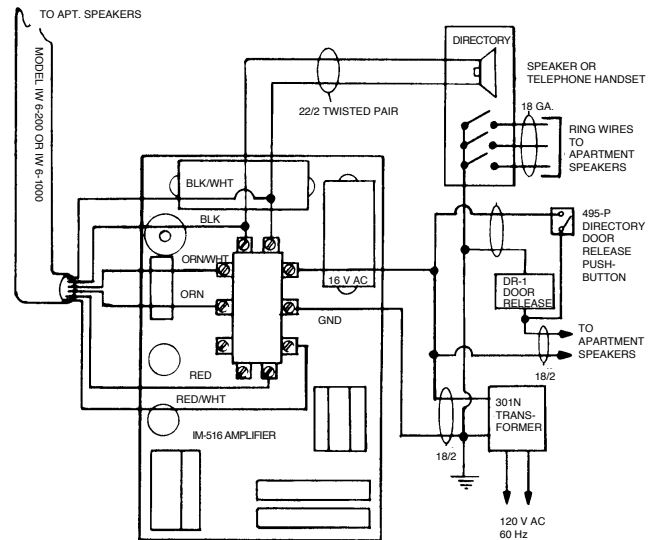


Figure 6

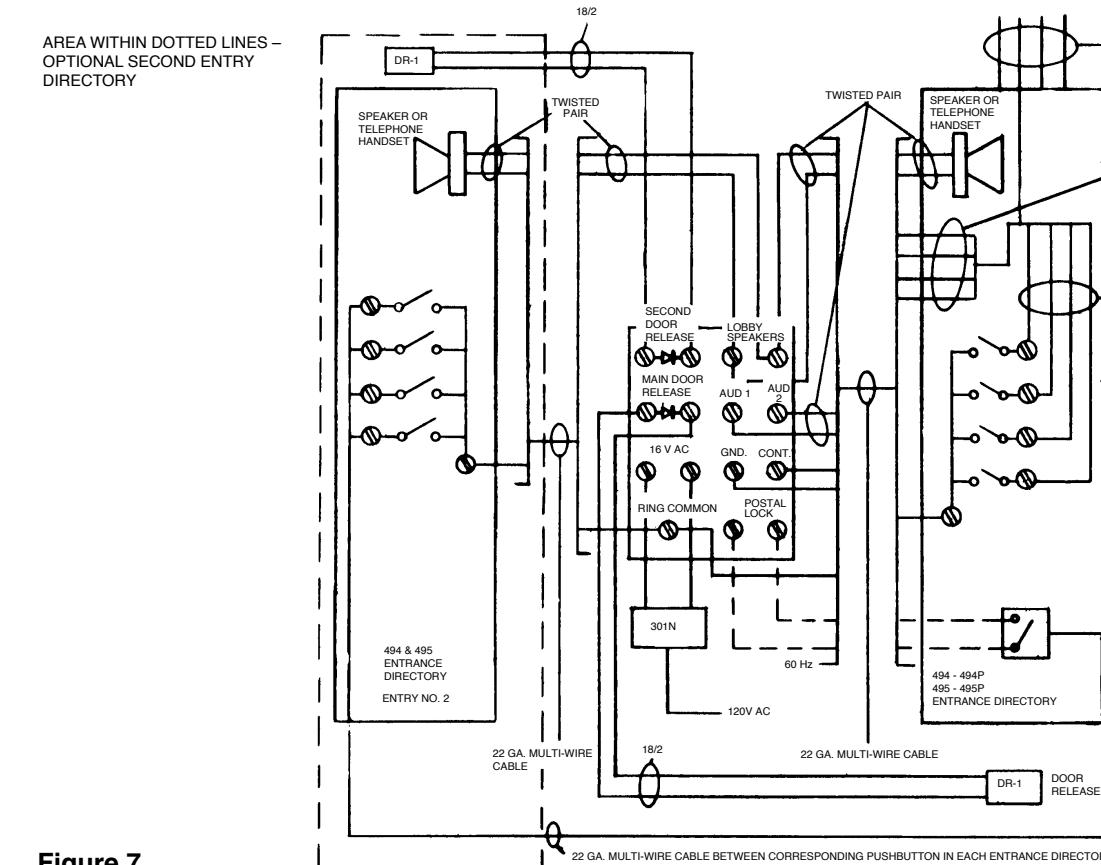


Figure 7

- 22 GA. TWISTED PAIR RISER CABLES**
- EACH RISER INCLUDES:
- 1 - COMMON TWISTED PAIR TO "AUD-1" & "AUD-2" TERMINALS IN APARTMENT SPEAKER.
 - 1 - COMMON WIRE TO "CONTROL TERMINAL IN APARTMENT SPEAKER.
 - 1 - COMMON WIRE TO "GROUND" TERMINAL IN APARTMENT SPEAKER.
 - 1 - INDIVIDUAL RING WIRE TO "RING" TERMINAL IN EACH APARTMENT SPEAKER.

4 COMMON WIRES: CONNECT "AUD 1, AUD 2, CONTROL, & GROUND" WIRES IN ALL RISER CABLES TO WIRES CONNECTED TO "AUD 1 AUD 2, CONTROL, & GROUND" TERMINALS ON AMPLIFIER. USE EITHER TERMINAL STRIP, WIRE NUTS OR CONNECTING CLAMPS.

RING WIRE FROM EACH APARTMENT CONNECTED TO CORRESPONDING PUSHBUTTON IN ENTRANCE DIRECTORY.

CONNECT TO PUSHBUTTONS (RING WIRE)

POSTAL LOCK DOOR RELEASE SWITCH. USE WITH 494 (P) OR 495 (P).

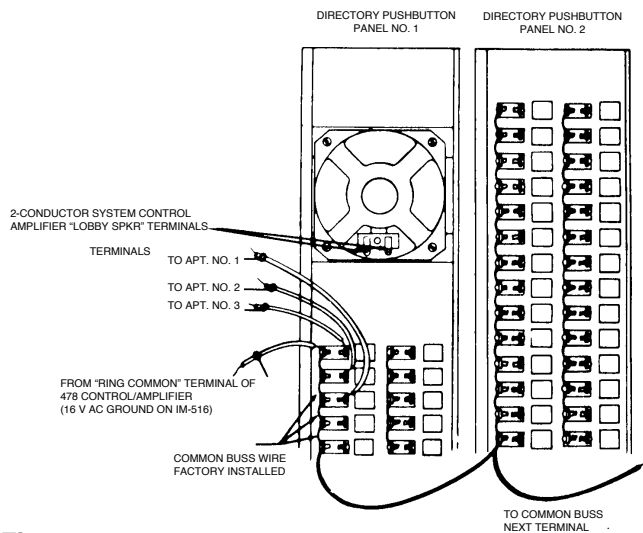


Figure 8

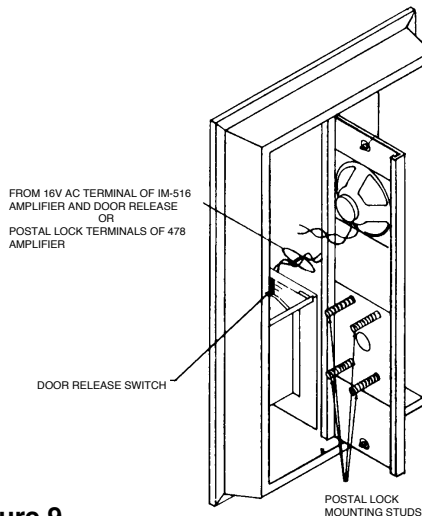


Figure 9

Second Entry Directory

When an additional directory is installed at rear or other door location, interconnect each pushbutton in the main directory to the corresponding apartment pushbutton in the second directory with 22-gauge wire.

Connect "COMMON BUSS" and entrance speaker wires from main directory to the "COMMON BUSS" terminal and speaker terminal screws in the second directory. (Figure 7).

If desired, the speaker and "COMMON BUSS" wires may be connected directly to the system Control/Amplifier terminal board.

Model 496 Two-Entrance Directory

(For use with Model 478 Control/Amplifier equipped with Model 469 Auto-Call Transfer Adapter only).

Main Entry

Connect a single-conductor, 22-gauge wire from "DIR 1 RING COMMON" terminal of Model 469 Auto-Call Transfer Adapter terminal board to the common buss terminal of the directory pushbutton panel - jumper to any adjacent panel(s). (Figure 10).

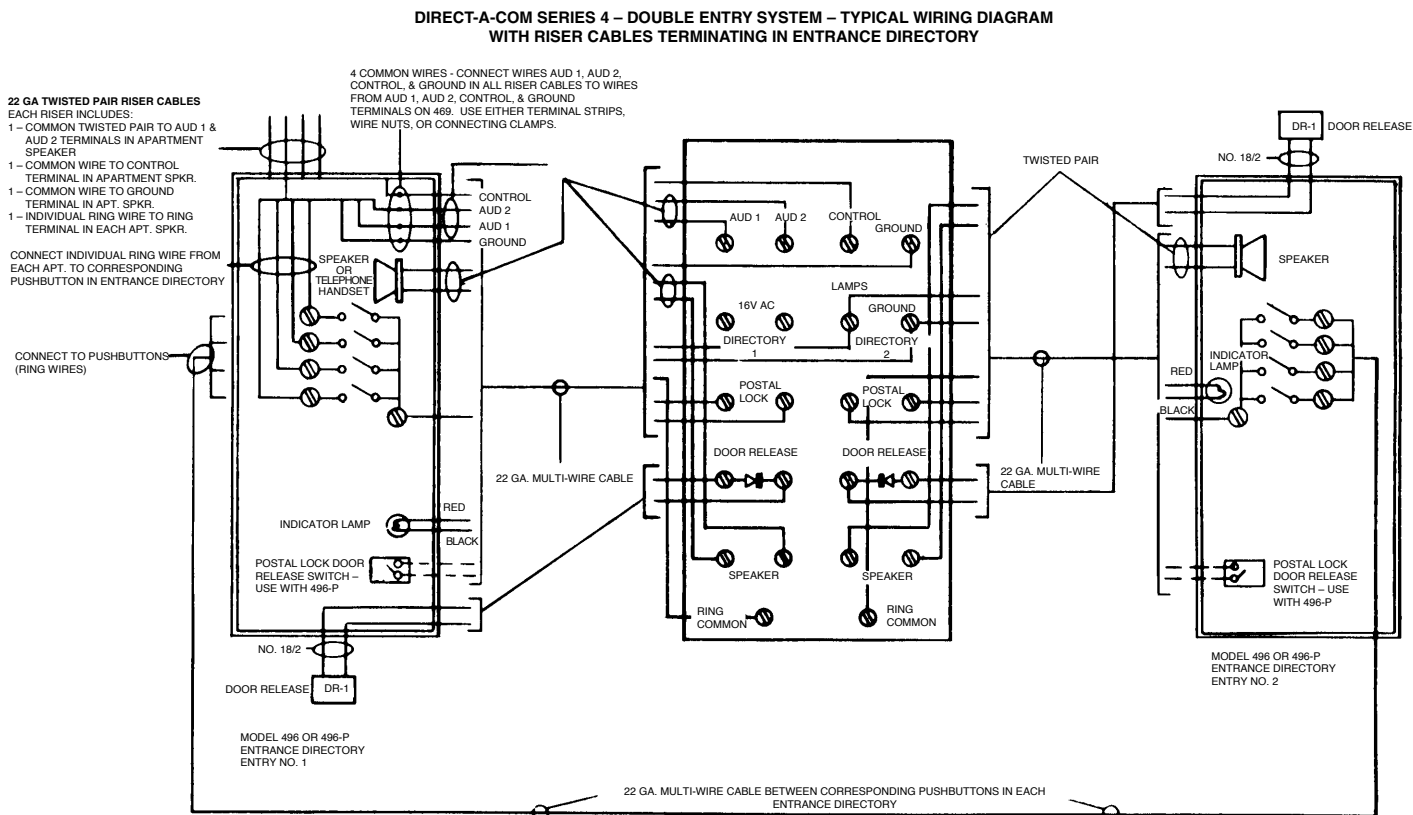


Figure 10

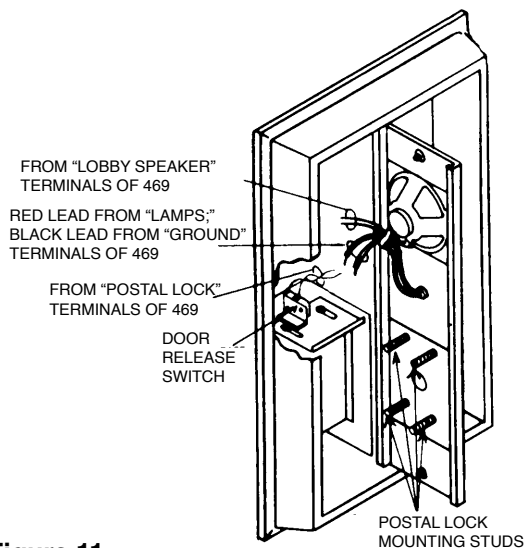


Figure 11

Connect a 22-gauge wire between RED lead of the L.E.D. (Light Emitting Diode) and "LAMPS" terminal of the 469 terminal board. Connect the BLACK lead of the L.E.D. to the "GROUND" terminal of the 469.

Connect "RING" wires in riser cables from each apartment to the proper pushbutton on the directory pushbutton panel.

Connect 2-conductor, 22-gauge TWISTED pair wires from "DIR 1 SPKR" terminals of 469 terminal board to speaker terminal wires on main directory. (Figure 10).

Second Directory

Interconnect each pushbutton in the main directory to the corresponding apartment pushbutton in the second directory. (Figure 10).

Connect single-conductor, 22-gauge wire from "DIR 2 RING COMMON" terminals of 469 terminal board to common buss of second directory – jumper to any adjacent panel(s). (Figure 10).

Connect 2-conductor, 22-gauge TWISTED pair wires from "DIR 2 SPKR" terminals of 469 terminal board to speaker terminal wires on second directory. (Figure 10).

Connect a 22-gauge wire between RED lead of the L.E.D. (Light Emitting Diode) and "LAMPS" terminal of the 469 terminal board. Connect the BLACK lead of the L.E.D. to the "GROUND" terminal of the 469.

NOTE: Refer to Model 478 Control/Amplifier installation instructions for complete system wiring requirements.

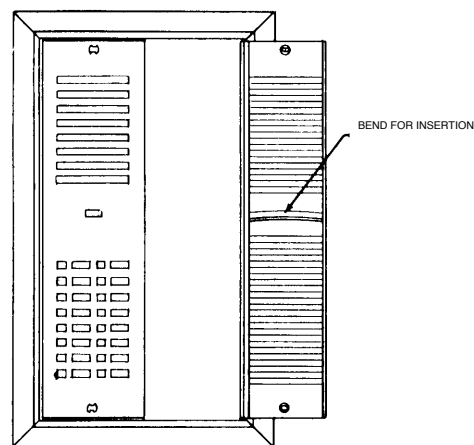


Figure 12

Model 496-P Directory

Make all connections same as 496 **PLUS**:

For each Model 496-P used, connect 2-conductor, 22-gauge wires from corresponding "POSTAL LOCK" terminals on 469 terminal board to door release switch in 496-P. (Figure 11).

Apartment Number Spaces

Black plastic strips for identifying the individual apartment numbers are included with the pushbutton panels. Remove strip from rear of the panel by pushing it up through the top of the holder. (Figure 12).

Apartment numbers can be applied to the black plastic with a pressure adhesive plastic tape (Dymo Label Maker type) or the plastic can be engraved locally for a more permanent application.

After apartment numbers have been applied, the plastic strip can be replaced by inserting in the top of the holder and pushing down into position.

Tenant Name Listing (Temporary)

Until the building is permanently occupied, (all tenant areas filled), the ruled sheet behind the name panel lens may be used to list tenant names. To remove sheet, lift out on each end.

Tenant Name Listing (Permanent)

When building is permanently occupied, (all tenant areas filled), individual names can be applied to the plastic name plates supplied with each directory panel with a pressure adhesive plastic tape (Dymo Label Maker type) or can be engraved locally for permanent use.

Insert the name plates into the panel by bending slightly and positioning the ends into the channels on sides of panel.

Insert bottom names first and work toward the top for ease in installation. (Figure 12).

For Service or Sales

For the name of your nearest authorized NuTone Service Center or Sales Outlet, residents of the contiguous United States should call toll free, 1-800-543-8687 (in Ohio call 1-800-582-2030). In Alaska, Hawaii, and all other locations outside the contiguous United States please write to: NuTone Inc., Madison & Red Bank Roads, Cincinnati, Ohio 45227 (Attention: Department of National Field Service).

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.

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Product specifications subject to change without notice.

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