



ArchiTech™ by Networkx™

FOR MORTISE LOCKS USING MORTISED NETWORKX CONTROL MODULES
WITH THE KEYPAD/PROXREADER

MOUNTING AND INSTALLATION INSTRUCTIONS

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WI2317LF 8/18

DESCRIPTION

These instructions detail the hardware installation procedure for the ArchiTech **mortise door locks** using the **Mortised Networkx Control Modules** for hollow metal and solid wood doors.

Installation instructions for the **Door Contact Magnet** (installed in the door jamb) and the **Keypad/ProxReader** are also included.



Keypad/ProxReader

PARTS OVERVIEW

For reference, the images in Fig. A below display each component (not to scale). In addition to the various screws and components included with your lock, please be aware that one of two types of **Door Contact Magnets** (installed in door jamb) are included, either 3/8" or 3/4" diameter. We recommend taking the time to find and familiarize yourself with these components now, before you begin your installation.

As detailed in the instructions that follow, the **Keypad/ProxReader** wires and **Mortise Lock Motor Wire** are routed through the door and are plugged into the **Mortised Networkx Control Module**. The **Mortise Lock Motor Wire** can easily be routed within hollow metal doors. For solid wood doors, a **Mortise Drill Jig** (part #N9511DJ) must be used to drill a hole pathway within the solid wood door to route the **Mortise Lock Motor Wire**.

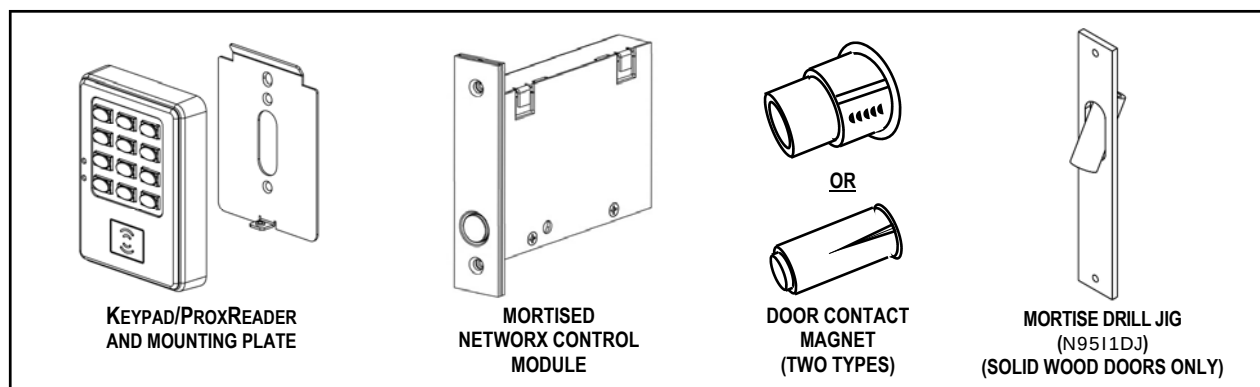


FIG. A: OVERVIEW OF BASIC PARTS (NOT TO SCALE)

REQUIRED TOOLS

In addition to the standard door prep kit tools used to install a mortise lock into a metal or wood door (Phillips and flat head screwdrivers, etc.), you will need: A small **level**, and the following drill bit sizes: **5/8"**, **3/8"**, **3/4"** and **7/64"**.

DOOR PREP: INITIAL STEPS

1. INSPECT THE DOOR BEVEL

Inspect the door for a bevel and, if beveled, determine which side is "longer" in width and which side is "shorter" in width (see "top view" example in Fig. 1). For beveled doors, be sure to use the correct marks printed on the template for the correct length of the outside door surface (either the "long" or "short" side of the door).

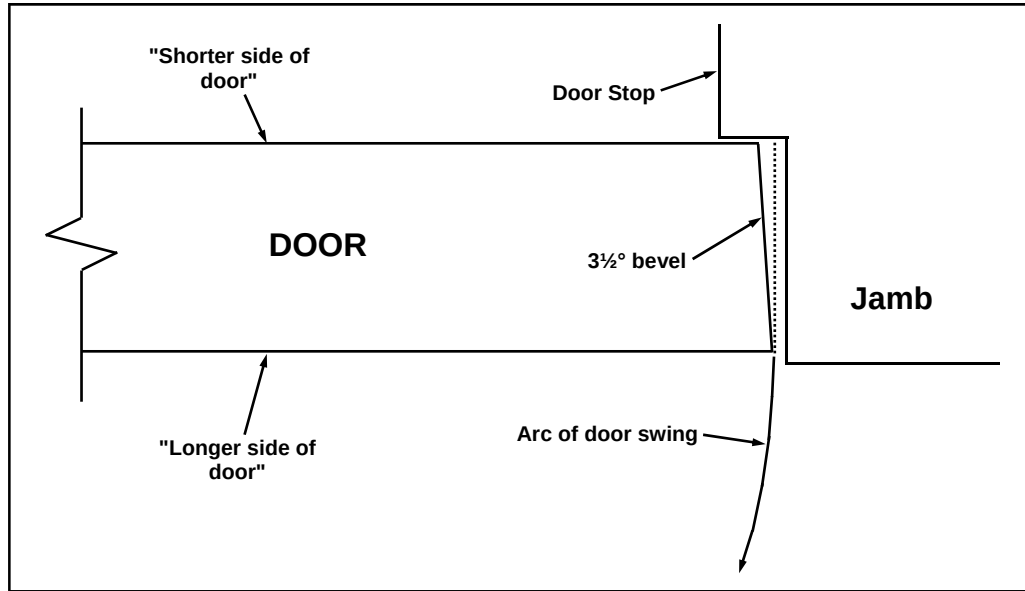


FIG. 1: EXAMPLE OF BEVELED DOOR (TOP VIEW)

2. PREP DOOR FOR MORTISE LOCK AND FOR MORTISED NETWORKX CONTROL MODULE

If not done already, use standard door prep kit tools and the instructions included with the mortise lock to prep the door and door jamb as required. These include mortising the door edge for the latch plate and mortising the door jamb for the strike plate.

Do not install the lock hardware yet.

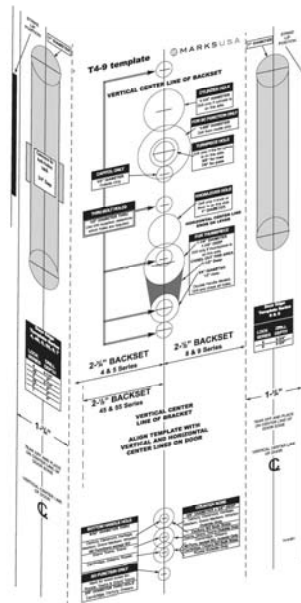


FIG. 2: USE TEMPLATE PROVIDED

3. TAPE ON DOOR: TEMPLATE (WI2318)

Remember, the **Keypad/ProxReader** is always located on the outside ("unprotected" side) door surface.

Fold and place the template (WI2318) on the **outside door edge** (see arrow in Fig. 3 for an example). Align the template with the **"HORIZONTAL CENTER LINE OF LEVER"** as shown on the template. Tape the template in place.

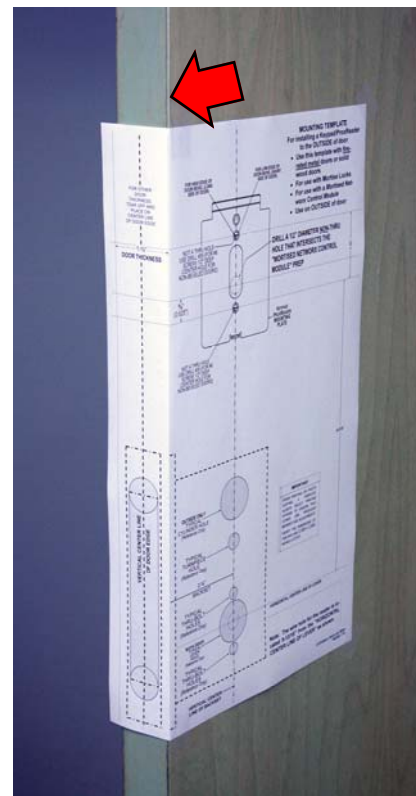


FIG. 3: EXAMPLE OF OUTSIDE DOOR EDGE (ARROW)

4. MARK TEMPLATE "KEYPAD/PROXREADER" HOLES

On the outside door surface, mark the two holes for the **Keypad/ProxReader** mounting screws. Mark the center of the 1/2" diameter hole (NOT a thru-hole) used for the **Keypad/ProxReader** wires.

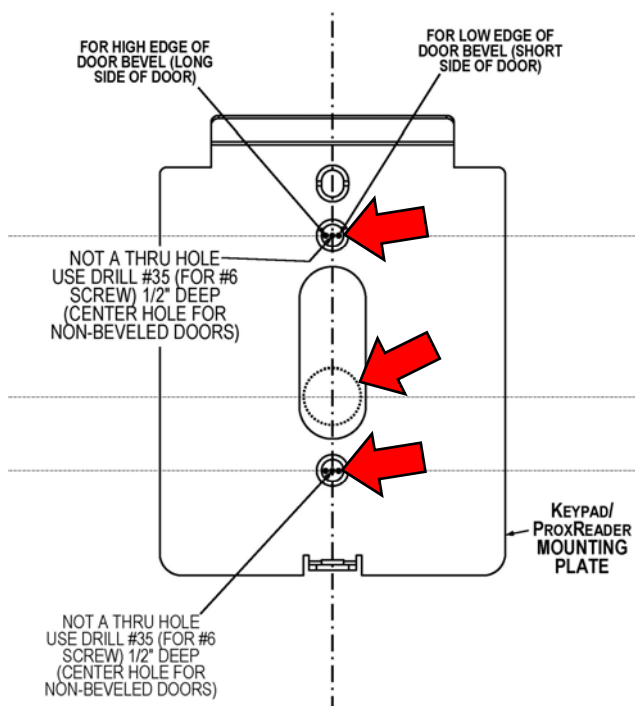


FIG. 4. CLOSE UP OF WI2318 TEMPLATE FOR THE "KEYPAD/PROXREADER"

DECISION: HOW TO ROUTE THE MORTISE LOCK MOTOR WIRE?



The **Mortise Lock** body includes a **Mortise Lock Motor Wire** plug that must be routed to and plugged into the **Mortised Networkx Control Module**. HOW this **Motor Wire** is routed depends on whether the door is *solid* or *hollow*:

Hollow Metal Doors:

- Route the **Mortise Lock Motor Wire** within the hollow metal door. Skip to step 6.

Solid Wood Doors:

- Use the **Mortise Drill Jig** (part #N95I1DJ) to drill a pathway for the wire *within* the solid wood door (from the **Mortise Lock** body to the back of the **Mortised Networkx Control Module**). Skip to step 5, below.

5. USING THE MORTISE DRILL JIG

The **Mortise Drill Jig** (part #N95I1DJ) **MUST** be used with **solid wood doors**. For hollow metal doors, skip to step 6.

PURPOSE OF THE MORTISE DRILL JIG

The **Mortise Drill Jig** is used to drill a diagonal 1/2" hole through solid wood doors to provide path for the **Mortise Lock Motor Wire** to run within the door and to be plugged into the back of the **Mortised Networkx Control Module**.

In the steps that follow, the **Jig** will be secured to the edge of the door, in the same location as the mortise lock faceplate, and the hole will be drilled within the door, as shown in Fig. 5. Fig. 5 displays a "side view" to show where this **Mortise Drill Jig** is positioned and the path of this drilled interior hole.

IMPORTANT! Do not install the **Mortised Networkx Control Module** yet!

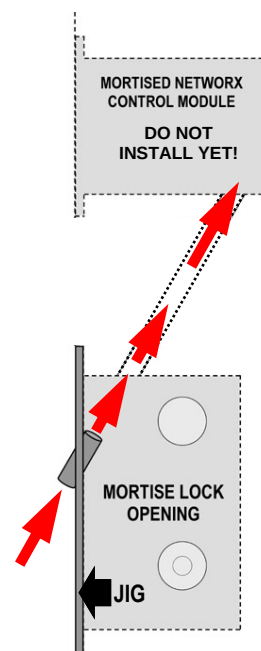


FIG. 5: SIDE VIEW:
DRILL JIG (N95I1DJ)
DRILL HOLE INSIDE DOOR

5A. FASTEN DRILL JIG TO DOOR

The **Mortise Drill Jig** (part #N9511DJ) is placed into the edge of the door, into the same mortised opening that will be used for the **Mortise Lock**. Proceed as follows:
Insert the **Jig** into the **Mortise Lock** opening as shown in Fig. 5A. Secure the **Jig** with the screws provided to prevent the **Jig** from shifting when in use.

IMPORTANT! Do not install the **Mortised Networkx Control Module** yet!



FIG. 5A: MORTISE
DRILL JIG
PLACEMENT

5B. DRILL HOLE WITH DRILL JIG

IMPORTANT! Ensure the **Mortised Networkx Control Module** is NOT installed!

Insert the 1/2-inch diameter wood drill bit (provided) into the **Mortise Drill Jig** and drill the hole into the door until the mortised opening for the **Mortised Networkx Control Module** is reached (about 8-9 inches).

When finished, remove the **Jig**.

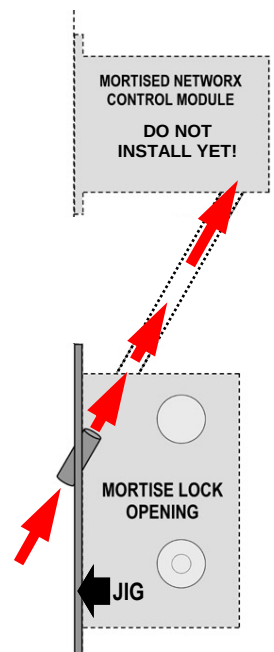


FIG. 5B: SIDE VIEW:
DRILL JIG (N9511DJ)
DRILL HOLE INSIDE DOOR

DOOR PREP: DRILL HOLES

IMPORTANT: Remove all burrs from wire holes. *Sharp edges can eventually wear away wire insulation.*

6. DRILL THE FOLLOWING HOLES IN THE DOOR

6A. Use $\frac{7}{64}$ " drill bit:

On the outside ("unprotected side") door surface, drill the two pilot holes for the **Keypad/ProxReader** mounting screws (NOT thru-holes, drill only into the door surface).

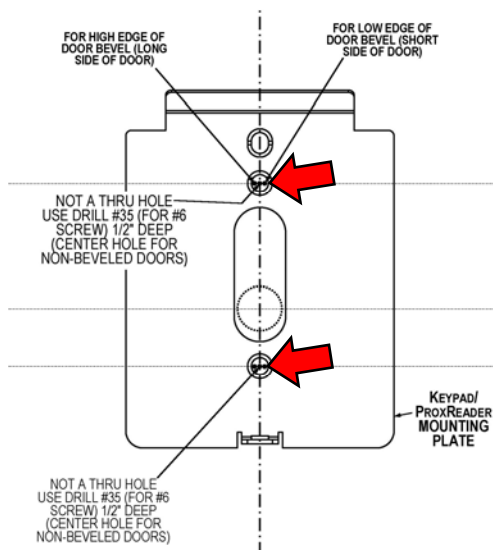


FIG. 6A: DRILL $\frac{7}{64}$ " PILOT HOLES FOR MOUNTING THE KEYPAD/PROXREADER

6B. Use $\frac{1}{2}$ " drill bit:

Drill the $\frac{1}{2}$ " diameter hole (NOT a thru-hole) for the **Keypad/ProxReader** wires into the outside door surface only.

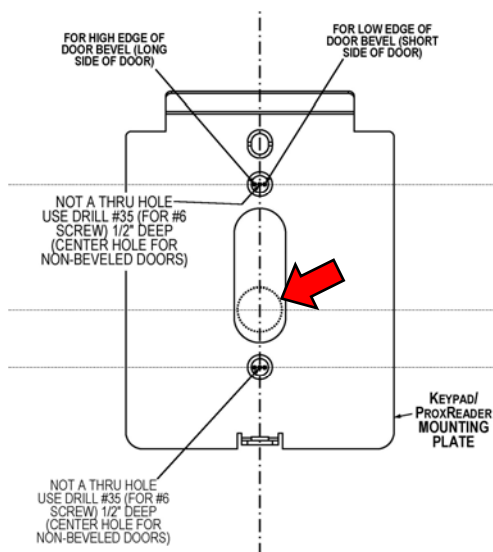


FIG. 6B: DRILL $\frac{5}{8}$ " DIAMETER HOLE (NOT A THRU-HOLE)

KEYPAD/PROXREADER INSTALLATION

7A. INSTALL "KEYPAD/PROXREADER MOUNTING PLATE"

Locate the two pilot holes for the **Keypad/ProxReader Mounting Plate** mounting screws that were drilled into the outside ("unprotected") door surface in step 6A.

Important! See Fig. 7A to determine which end is the "TOP", as well as the locations of the two holes used for mounting the plate.

Place the **Keypad/ProxReader Mounting Plate** against the outside ("unprotected" side) door surface and secure using the two Phillips Flat Head screws appropriate for the door type as follows:

- **For Metal Doors:** #6 x 3/8" type 23 self-tapping Phillips undercut flat head (part #SC520);
- **For Wood Doors:** #6 x 3/8" self-tapping Phillips flat head type A (part #SC702LF).

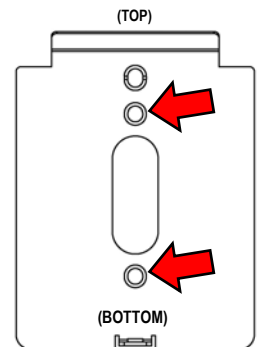


FIG. 7A: KEYPAD/
PROXREADER
MOUNTING PLATE
(MOUNTING HOLES)

7B. RUN THE KEYPAD/PROXREADER WIRES

Description:

The offset hole within the **Keypad/ProxReader Mounting Plate** is a 1/2" diameter non-thru hole drilled in step 6B (as per template WI2318). The hole drilled in step 6B intersects the **Mortised Networkx Control Module** mortise prep. This hole provides a pathway for the **Keypad/ProxReader Wires** that runs from the outside ("unprotected" side) door surface and is plugged into the **Mortised Networkx Control Module**.

Run the Wires:

From the outside ("unprotected" side) of the door, feed the **Keypad/ProxReader** plug fully into the 1/2" diameter offset hole and pull the wires out through the **Mortised Networkx Control Module** mortised opening (let the wires hang out of this opening). Do not pinch wires.

9. INSTALL THE "MORTISE LOCK BODY"

Install the **Mortise Lock** into the wood or metal door as follows: As shown in Fig. 9, first feed its **Motor Wire** plug into its own mortised opening and then **out** through the **Mortised Networkx Control Module** mortised opening (let the **Mortise Lock Motor Wire** plug and wire hang out of this opening).

Insert the **Mortise Lock** into its opening and secure with the mounting hardware provided. See the installation instructions provided with the **Mortise Lock** for more information.

Note: The **Mortise Lock Motor Wire** plug sleeve color is *yellow*.

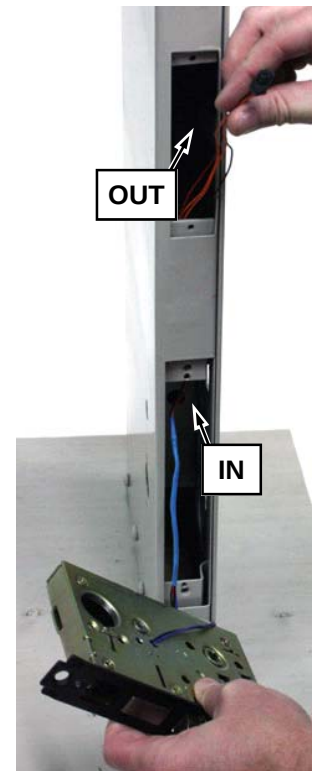


FIG. 9: FEED MORTISE LOCK WIRE THRU DOOR OPENINGS

10. CONNECT PLUGS IN THE "MORTISED NETWORKX CONTROL MODULE"

Observe the rear of the **Mortised Networkx Control Module** with its four (4) dissimilar sockets. Simply match the colors of the plug wire sleeves to the colors of the sockets (the **Blue** and **Orange** sockets are currently not used and are reserved for future use). See Fig. 10.

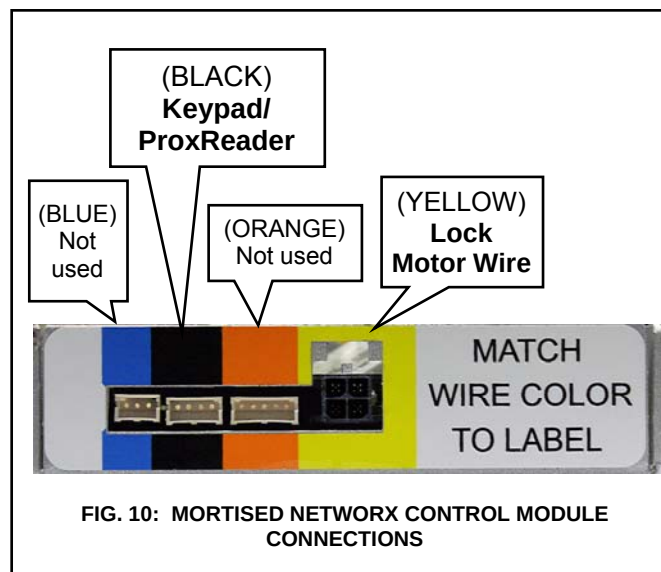


FIG. 10: MORTISED NETWORKX CONTROL MODULE CONNECTIONS

11. INSERT AND MOUNT THE "MORTISED NETWORKX CONTROL MODULE"

Note: With solid wood doors, route the Keypad/ProxReader wires under the **Mortised Networkx Control Module** in the channel created when the **Mortised Networkx Control Module** pocket was drilled.

Carefully insert the **Mortised Networkx Control Module** into its opening in the door edge (be sure not to pinch the wires). The face of the **Mortised Networkx Control Module** is beveled ($3\frac{1}{2}^\circ$) to match the bevel in the door edge; be sure to insert the unit to match the bevel in the door edge (see Fig. 11).

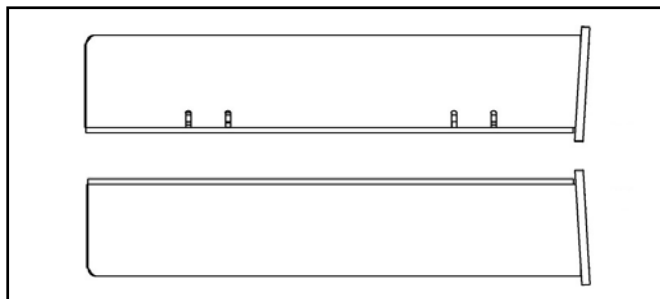


FIG. 11: (TOP VIEWS) INSTALL THE MORTISED NETWORKX CONTROL MODULE TO MATCH THE DOOR BEVEL ($3\frac{1}{2}^\circ$)

Insert the **Mortised Networkx Control Module** into its opening and secure with two #8 x $\frac{3}{4}$ " Phillips Flat-head "dual-thread" screws.



Install the flush **Finishing Plate** and secure with two 8-32 x $\frac{1}{4}$ " Phillips Flat-head screws.



12. MARK "DOOR CONTACT MAGNET" ON JAMB

The **Mortised Networkx Control Module** contains an integral **Reed Switch** that is activated by a magnet installed in the door jamb. The **Door Contact Magnet** must be installed in the door jamb such that when the door is closed, this **Magnet** is located *directly opposite* the **Door Contact Sensor**. Install as follows:

- 12A.** Find the Reed Switch. The **Reed Switch** is located under the **Finishing Plate** of the **Mortised Networkx Control Module**. Measure the location of the **Reed Switch** from the *center* of the button of the installed **Mortised Networkx Control Module**.

As shown in Fig. 12, the **Reed Switch** is located a little more than $\frac{1}{2}$ " ($\frac{17}{32}$ " to be exact) from the center of the button (towards the center of the unit)

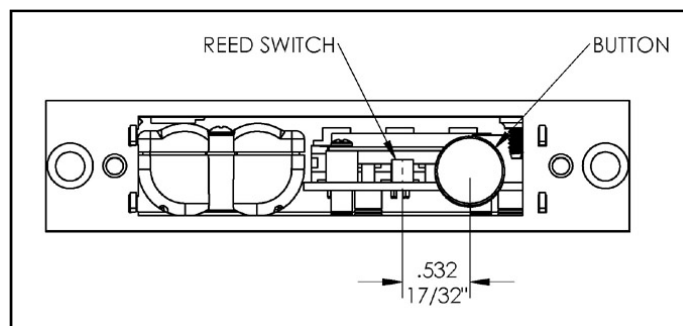


FIG. 12: LOCATION OF THE REED SWITCH, IN RELATION TO THE CENTER OF THE BUTTON

- 12B.** Open the door and temporarily place a piece of tape across the center of the **Reed Switch**. This tape signifies the height (from the floor) of the **Reed Switch**.

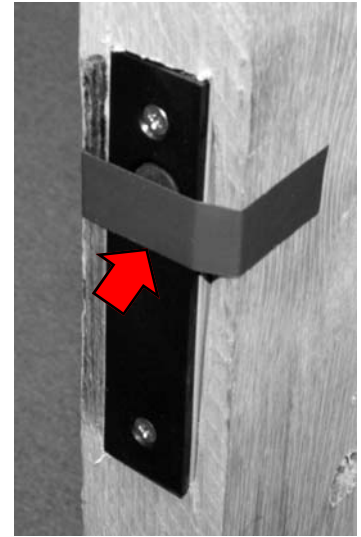


FIG. 12B: TAPE SIGNIFIES "HEIGHT FROM FLOOR"

- 12C.** Close the door. Transfer this height to the door jamb with a light pencil mark.

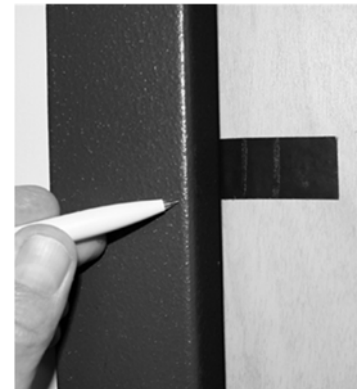


FIG. 12C: CLOSE DOOR AND TRANSFER HEIGHT TO JAMB

- 12D.** Determine the center location on the jamb directly opposite the **Reed Switch** when the door is closed. Open the door and measure the distance from the door edge to the center of the **Reed Switch** (0.875" or $\frac{7}{8}$ "). Transfer this distance to the door jamb, measured from the door stop.



FIG. 12D: LOCATE MAGNET IN JAMB CENTERED DIRECTLY OPPOSITE THE SENSOR WHEN DOOR IS CLOSED

13. DRILL "DOOR CONTACT MAGNET" HOLE IN JAMB

13A. Find the **Door Contact Magnet** in the factory packaging. The type provided will be either **Type A** or **Type B** (see images in Fig.13A below). Also note its dimensions in Fig. 13A.

13B. Drill into the door jamb as follows:

For Hardwood Jambs:

- For the thicker "**Type A**" contact (below left image): Drill a 3/4" hole 7/8" deep into the jamb (that was marked in step 12D).
- For the thinner "**Type B**" contact (below right image): Drill a 3/8" hole 7/8" deep into the jamb (that was marked in step 12D).

For Hollow Metal Jambs:

- Use either a 3/4" or 3/8" bit (depending on **Door Contact Magnet** Type A or Type B) to drill a hole into the surface of the jamb (marked in step 12D).

13C. Insert the magnetic **Door Contact Magnet** in the jamb hole; the contact sits almost flush with the jamb when fully inserted. In some cases, an adhesive may be needed to ensure a secure fit.

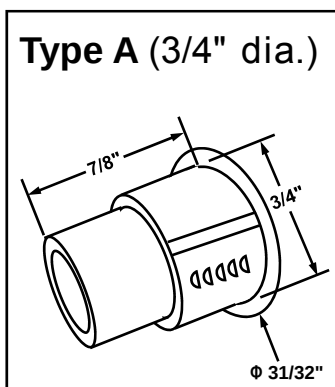


FIG. 13A: FIND THE "DOOR CONTACT MAGNET" PROVIDED, EITHER TYPE A (3/4" DIAMETER) OR TYPE B (3/8" DIAMETER)

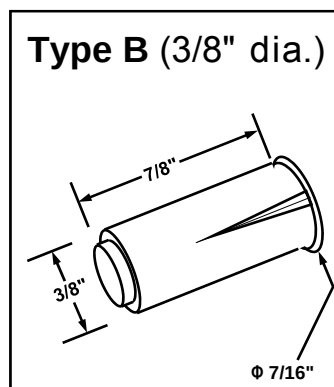


FIG. 13B: DRILL DOOR JAMB HOLE (EITHER 3/8" OR 3/4" DEPENDING ON TYPE)



FIG. 13C: DOOR CONTACT MAGNET INSTALLED IN DOOR JAMB

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This warranty shall not apply to any equipment, or any part thereof, which has been repaired by others, improperly installed, improperly used, abused, altered, damaged, subjected to acts of God, or on which any serial numbers have been altered, defaced or removed. Seller will not be responsible for any dismantling or reinstallation charges, environmental wear and tear, normal maintenance expenses, or shipping and freight expenses required to return products to NAPCO. Additionally, this warranty shall not cover scratches, abrasions or deterioration due to the use of paints, solvents or other chemicals.

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Any action for breach of warranty, including but not limited to any implied warranty of merchantability, must be brought within the six months following the end of the warranty period.

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

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