



ArchiTech™ by Networkx™

FOR MORTISE LOCKS USING A MORTISED NETWORKX CONTROL MODULE WITH CONCEALED PROXIMITY READER MOUNTING AND INSTALLATION INSTRUCTIONS

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WI2338ALF 4/19

DESCRIPTION

These instructions detail the hardware installation procedure for the ArchiTech **mortise door locks** using the **Mortised Networkx Control Modules** for hollow or solid wood doors (including fiberglass and vinyl; **not for metal doors**). The **Mortised Networkx Control Module** includes an integral (and thus concealed) proximity reader that can read proximity credentials (for example, proximity cards) through the door surface. Installation instructions for the **Door Contact Magnet** (installed in the door jamb) is also included.

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 **Mortise Lock Motor Wire** is routed through the door and is plugged into the **Mortised Networkx Control Module**. The **Mortise Lock Motor Wire** can easily be routed within hollow doors; for solid doors, a **Mortise Drill Jig** (part #N95I1DJ) **must** be used to drill a hole pathway within the solid door to route the **Mortise Lock Motor Wire**.

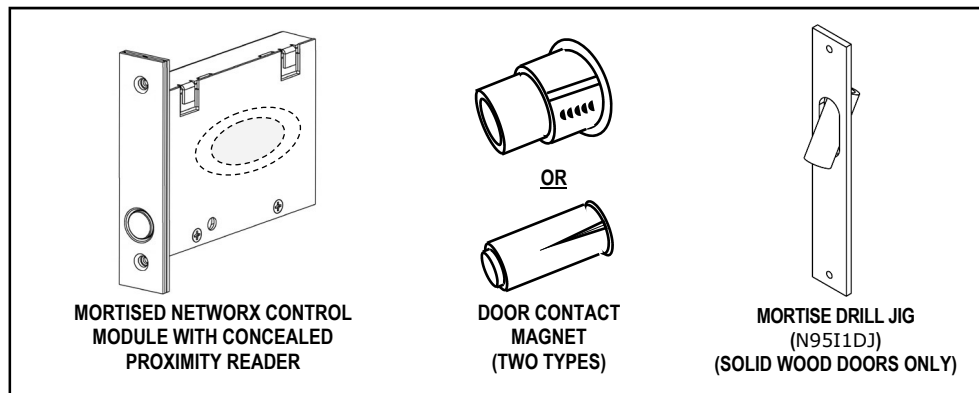


FIG. A: OVERVIEW OF BASIC PARTS (NOT TO SCALE)

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: **3/8"**, **5/8"**, **3/4"**, **7/64"** and **25/64"**

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).

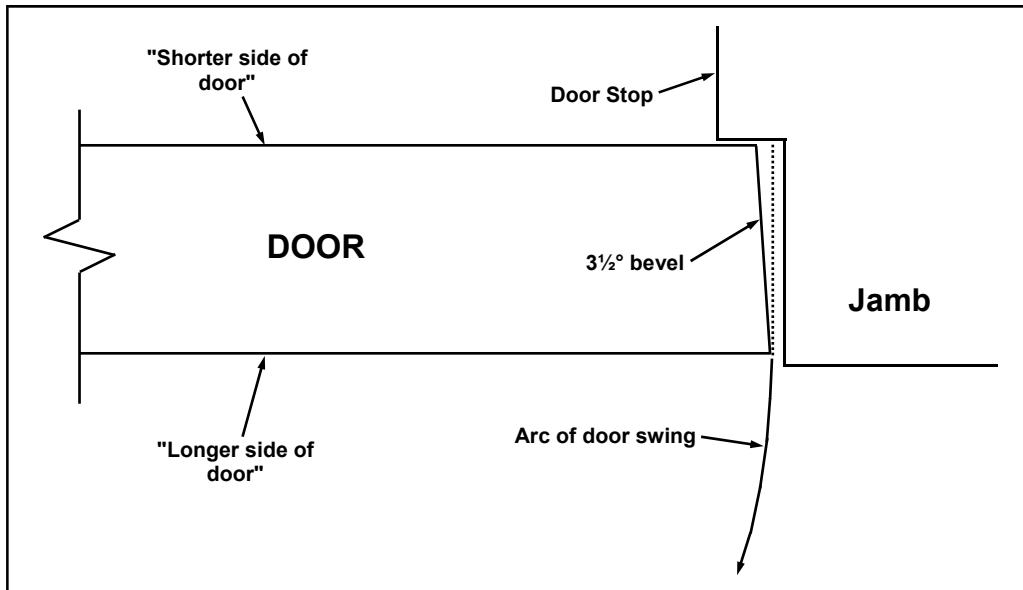


FIG. 1: EXAMPLE OF BEVELED DOOR (TOP VIEW)

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.

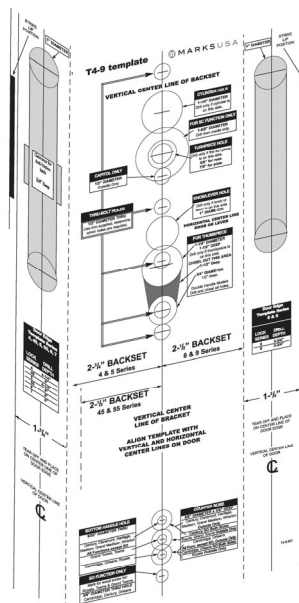


FIG. 2: USE TEMPLATE PROVIDED

3. TAPE ON DOOR: TEMPLATE (WI2339LF)

Remember, the concealed **Proximity Reader** always faces the outside ("unprotected" side) door surface. See the label on the Mortised Networkx Control Module.

Fold and place the template (WI2339LF) 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.

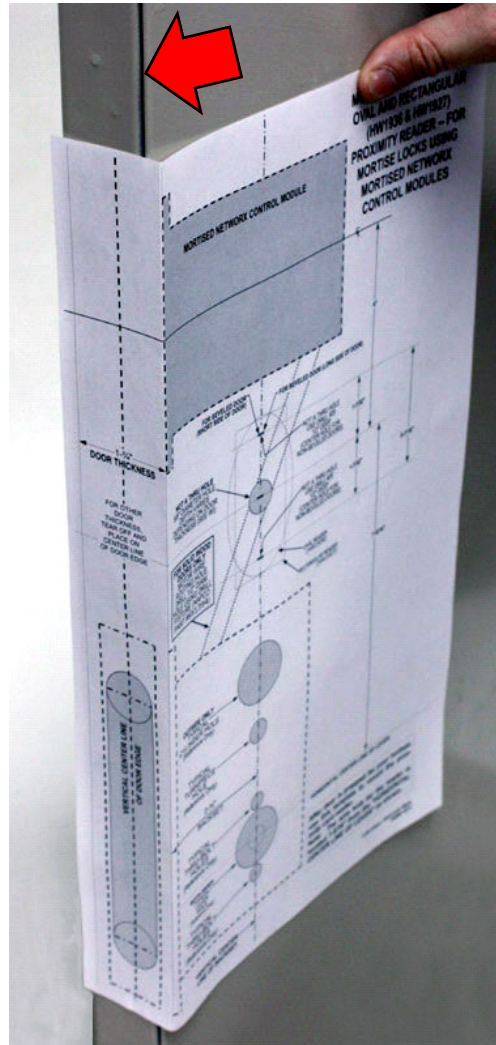


FIG. 3: EXAMPLE OF OUTSIDE DOOR EDGE (ARROW)

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 7.

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 4, below.

4. 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 7.

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 profile on the template WI2339LF.

Fig. 4 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!

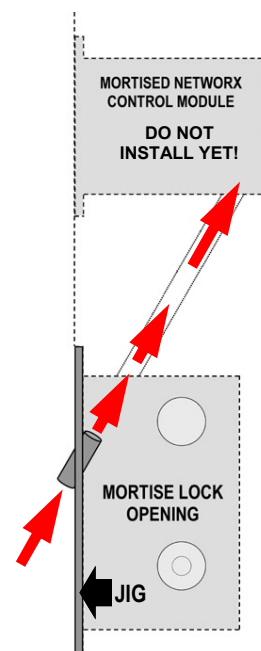


FIG. 4: SIDE VIEW:
DRILL JIG (N95I1DJ)
DRILL HOLE INSIDE DOOR

5. FASTEN DRILL JIG TO DOOR

The **Mortise Drill Jig** (part #N95I1DJ) 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. 5. 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. 5: MORTISE
DRILL JIG
PLACEMENT

6. 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**.

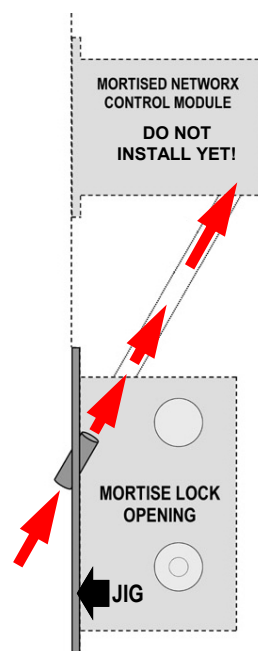


FIG. 6: SIDE VIEW:
DRILL JIG (N95I1DJ)
DRILL HOLE INSIDE DOOR

DOOR PREP: DRILL HOLES

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

7. DRILL THE FOLLOWING HOLES IN THE DOOR

Use **25/64"** drill bit:

On the outside ("unprotected side") door surface, drill the 25/64" diameter hole for the Optical Light Pipe (not a thru hole). Drill into the outside door surface only until hole intersects the Mortised Networkx Control Module prep.

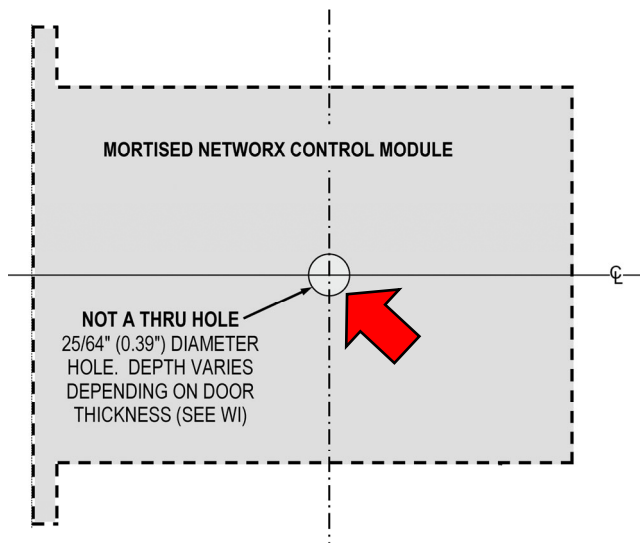


FIG. 7: DRILL 25/64" DIAMETER HOLE FOR OPTICAL LIGHT PIPE

INSTALL LIGHT PIPE IN DOOR SURFACE

7A. CLEAN THE AREA OF THE DOOR SURFACE

- Clean the area of the door surface where the light pipe will be installed.
- Remove the backing from the double sided tape.
- Install the light pipe into the hole drilled in step 7.
- Press firmly to ensure the light pipe is securely installed on the door surface (see Fig. 7A).

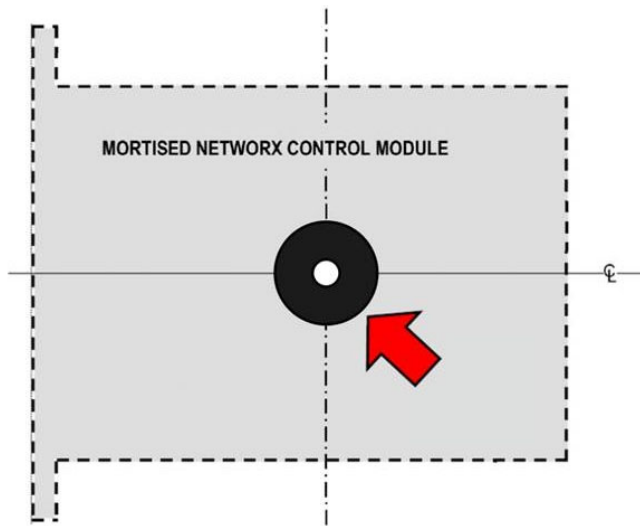


FIG. 7A: INSTALL OPTICAL LIGHT PIPE

8. INSTALL THE "MORTISE LOCK BODY"

Install the **Mortise Lock** into the wood or metal door as follows: As shown in Fig. 8, 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*.

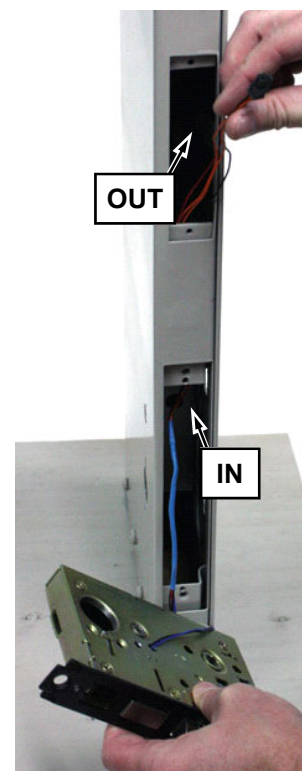


FIG. 8: FEED MORTISE LOCK WIRE THRU DOOR OPENINGS

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

Observe the rear of the **Mortised Networkx Control Module** with its four (4) dissimilar sockets. Only the yellow **Mortise Lock Motor Wire** needs to be connected. **Note:** The **Black** socket is currently not used and is reserved for future use; the **Blue** socket is already installed at the factory; the **Orange** socket must remain unconnected. See Fig. 9.

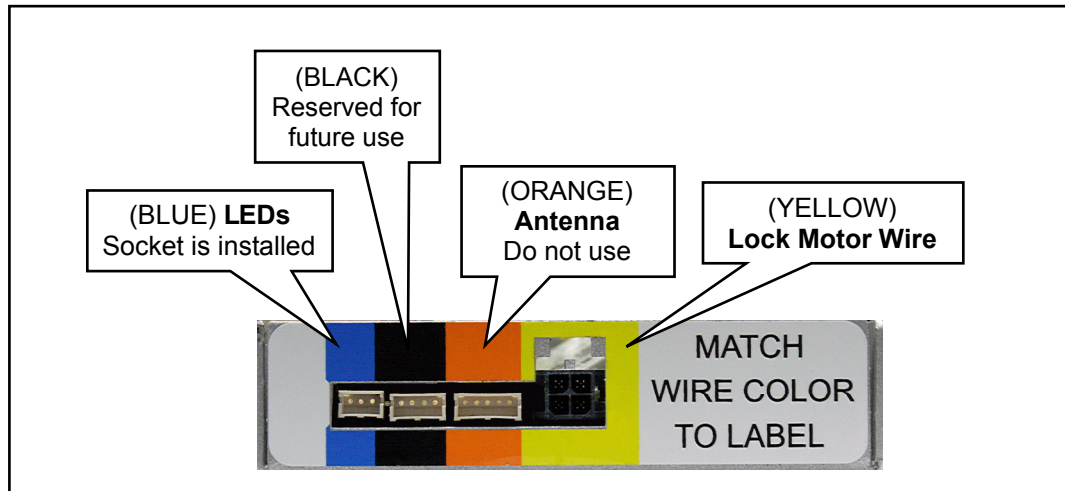


FIG. 9: MORTISED NETWORKX CONTROL MODULE CONNECTIONS

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

Before mounting, we recommend feeding the previously connected **Mortise Lock Motor Wire** back into the door. 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. 10). When inserting the **Mortised Networkx Control Module**, be careful not to damage the Prox reader antenna located under the protective label.

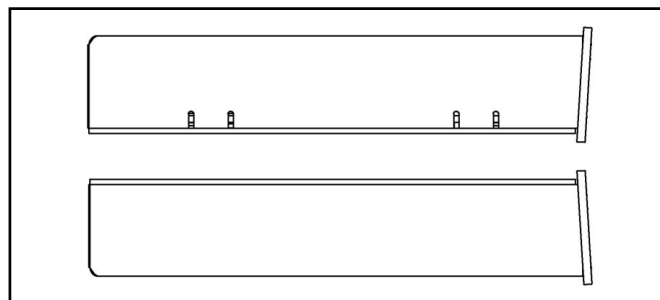
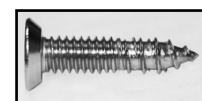


FIG. 10: (TOP VIEWS) INSTALL THE MORTISED NETWORKX CONTROL MODULE TO MATCH THE DOOR BEVEL ($3\frac{1}{2}^\circ$)

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



Install the flush **Finishing Plate** and secure with two 8-32 x 1/4" Phillips Flat-head screws.



11. 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:

- 11A.** 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. 11A, the **Reed Switch** is located a little more than 1/2" (17/32" to be exact) from the center of the button (towards the center of the unit)

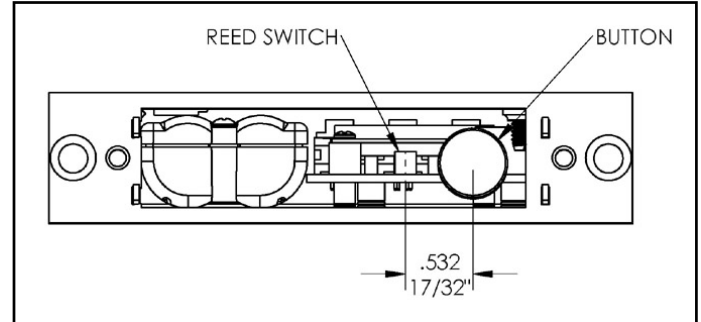


FIG. 11A: LOCATION OF THE REED SWITCH, IN RELATION TO THE CENTER OF THE BUTTON

- 11B.** 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**.

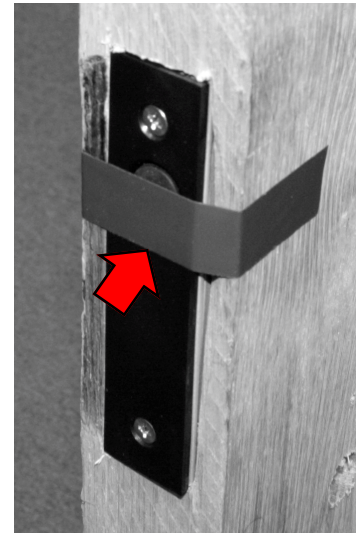


FIG. 11B: TAPE SIGNIFIES "HEIGHT FROM FLOOR"

- 11C.** Close the door. Transfer this height to the door jamb with a light pencil mark.

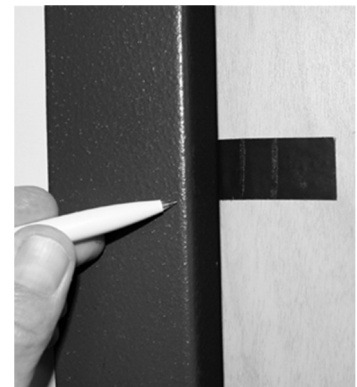


FIG. 11C: CLOSE DOOR AND TRANSFER HEIGHT TO JAMB

- 11D. 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.

12. DRILL "DOOR CONTACT MAGNET" HOLE IN JAMB

- 12A. Find the **Door Contact Magnet** in the factory packaging. The type provided will be either **Type A** or **Type B** (see images in Fig. 12A below). Also note its dimensions in Fig. 12A.

- 12B. Drill into the door jamb as follows:

For Hardwood Jambs:

- For the thicker "**Type A**" contact (below left image): Drill a $\frac{3}{4}$ " hole $\frac{7}{8}$ " deep into the jamb (that was marked in step 11D).
- For the thinner "**Type B**" contact (below right image): Drill a $\frac{3}{8}$ " hole $\frac{7}{8}$ " deep into the jamb (that was marked in step 11D).

For Hollow Metal Jambs:

- Use either a $\frac{3}{4}$ " or $\frac{3}{8}$ " bit (depending on **Door Contact Magnet** Type A or Type B) to drill a hole into the surface of the jamb (marked in step 11D).

- 12C. 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.

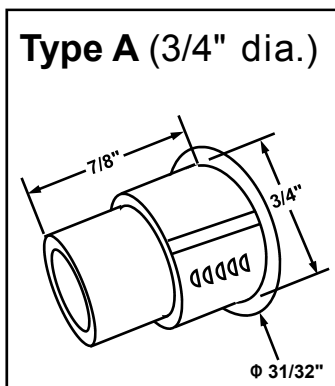


FIG. 12A: FIND THE "DOOR CONTACT MAGNET" PROVIDED, EITHER TYPE A ($\frac{3}{4}$ " DIAMETER) OR TYPE B ($\frac{3}{8}$ " DIAMETER)

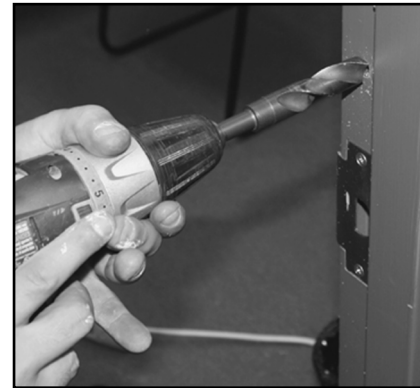
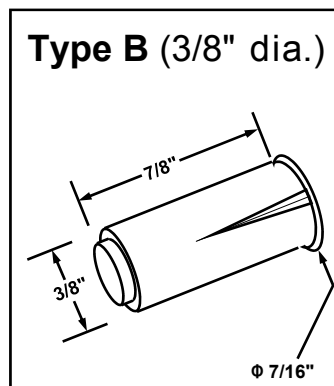


FIG. 12B: DRILL DOOR JAMB HOLE (EITHER $\frac{3}{8}$ " OR $\frac{3}{4}$ " DEPENDING ON TYPE)

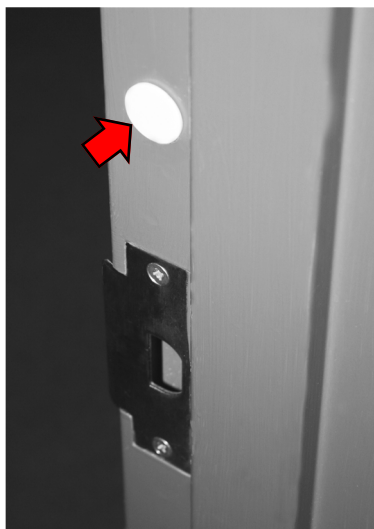


FIG. 12C: DOOR CONTACT MAGNET INSTALLED IN DOOR JAMB

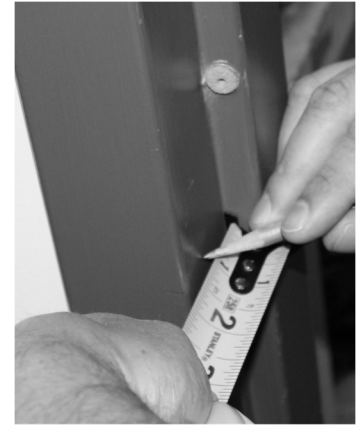


FIG. 11D: LOCATE MAGNET IN JAMB CENTERED DIRECTLY OPPOSITE THE SENSOR WHEN DOOR IS CLOSED

NOTES

NOTES

ArchiTech Networx Limited Warranty

NAPCO Security Technologies, Inc. (NAPCO) warrants its products to be free from manufacturing defects in materials and workmanship for twenty four months following the date of manufacture. NAPCO will, within said period, at its option, repair or replace any product failing to operate correctly without charge to the original purchaser or user.

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.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. THERE IS NO EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. ADDITIONALLY, THIS WARRANTY IS IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF NAPCO.

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.

IN NO CASE SHALL NAPCO BE LIABLE TO ANYONE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, EVEN IF THE LOSS OR DAMAGE IS CAUSED BY THE SELLER'S OWN NEGLIGENCE OR FAULT.

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In no event shall NAPCO be liable for an amount in excess of NAPCO's original selling price of the product, for any loss or damage, whether direct, indirect, incidental, consequential, or otherwise arising out of any failure of the product. Seller's warranty, as hereinabove set forth, shall not be enlarged, diminished or affected by and no obligation or liability shall arise or grow out of Seller's rendering of technical advice or service in connection with Buyer's order of the goods furnished hereunder.

NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

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NAPCO is not an insurer of either the property or safety of the user's family or employees, and limits its liability for any loss or damage including incidental or consequential damages to NAPCO's original selling price of the product regardless of the cause of such loss or damage.

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