



ArchiTech™ by Networkx™

FOR CYLINDRICAL LOCKS USING SURFACE-MOUNTED NETWORKX CONTROL UNITS
WITH A MAG STRIPE READER

MOUNTING AND INSTALLATION INSTRUCTIONS

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WI2197 04/17

DESCRIPTION

These instructions detail the hardware installation procedures for the ArchiTech **cylindrical door locks** using a **Surface-Mounted Networkx Control Unit** for hollow metal and solid wood doors.

Installation instructions for the **Door Contact Sensor**, **Door Contact Magnet** (installed in the door jamb), **Wiring Plate**, **Spacer** and the **Mag Stripe Reader** are also included.

PARTS OVERVIEW

For reference, Fig. A displays each component (not to scale). In addition to the various screws and templates included with your lock, be aware that only one of two types of **Door Contact Magnets** (installed in door jamb, shown below) are included, either 3/8" or 3/4" diameter.

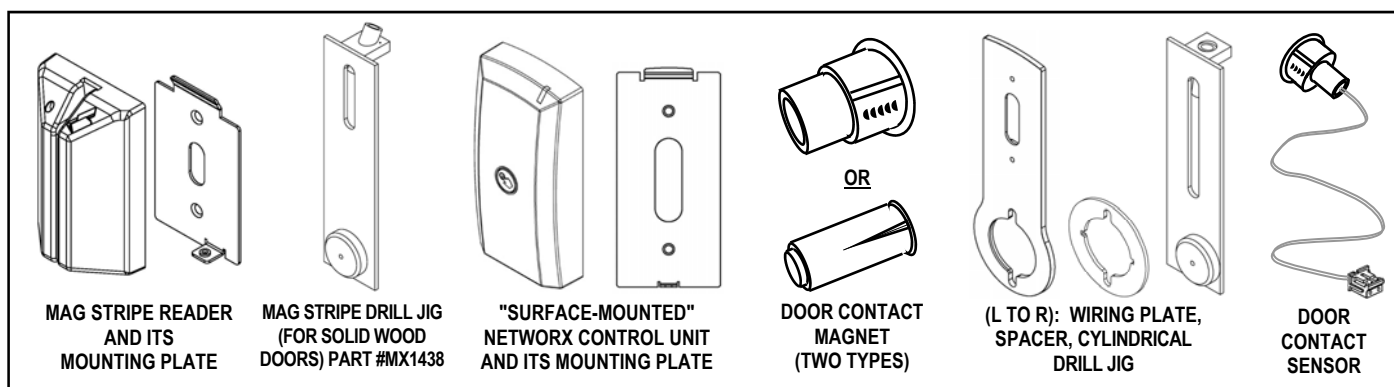


FIG. A: OVERVIEW OF BASIC PARTS (NOT TO SCALE)

Wires for the **Door Contact Sensor**, **Mag Stripe Reader** and **Cylindrical Lock** motor are routed through the door and are plugged into the rear of the **Surface-Mounted Networkx Control Unit**, mounted on the inside ("protected") door surface.

The **Cylindrical Lock Motor Wire** can be routed within a hollow metal door; but with solid wood doors this **Cylindrical Lock Motor Wire** can either be routed on the door surface (behind a **Wiring Plate**, part #HW1945) or through a hole drilled through the solid wood door by a **Cylindrical Drill Jig** (part #N90S1DJ). **Important:** If you do not use the **Wiring Plate**, you **MUST** use the **Spacer** (part # 1904ARC).

The **Mag Stripe Reader** wires can be easily routed within a hollow metal door; with solid wood doors these **Mag Stripe Reader** wires are routed through a hole drilled through the solid wood door by a **Mag Stripe Drill Jig** (part #MX1438).

REQUIRED TOOLS

In addition to the standard door prep kit tools used to install a cylindrical lock into a metal or wood door (standard ASA 161 door prep cross-bore hole saws, Phillips and flat head screwdrivers, etc.), you will need: A small **level**, and the following drill bit sizes: **1/2"**, **5/8"**, **3/8"**, **3/4"** and **7/64"**. A **round file** or **circular file** is needed to remove burrs in holes and to file a pathway groove in wooden doors to route the **Cylindrical Lock Motor Wire**. **Adhesive tape** will also be useful. **IMPORTANT:** For installation on UL Listed Wood Fire Doors fill the through hole wire passage with UL Classified Fire Stop Sealant after connecting all wiring and testing the lock.

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).

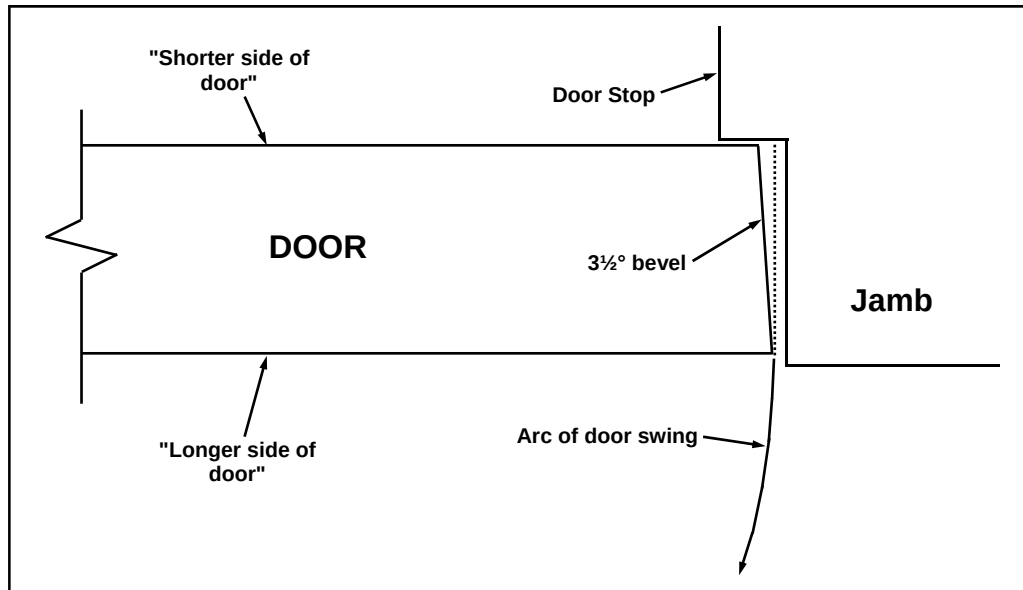


FIG. 1: EXAMPLE OF BEVELED DOOR (TOP VIEW)

2. PREP DOOR FOR CYLINDRICAL LOCK

If not done already, use standard door prep kit tools and the instructions included with the cylindrical lock to prep the door and door jamb as required (standard ASA 161 door prep). These include the 5/16" and 2-1/8" thru-holes, the 1" latch hole and mortising the door edge for the latch plate and mortising the door jamb for the strike plate.

Do not install the lock hardware yet.

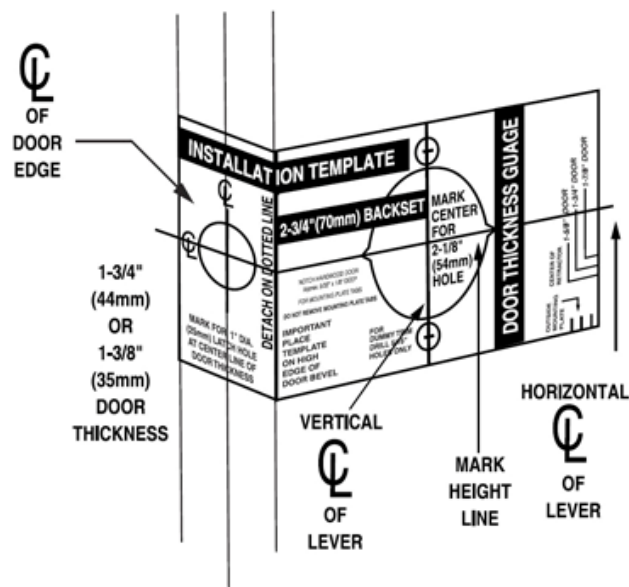


FIG. 2: USE TEMPLATE PROVIDED

3. TAPE ON DOOR: "MAG STRIPE MOUNTING PLATE" TEMPLATE WI2198

Remember, the **Mag Stripe Reader** is always located on the outside ("unprotected" side) door surface.

Fold and place the template 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.

IMPORTANT: For installation on UL Listed Wood Fire Doors fill the through hole wire passage with UL Classified Fire Stop Sealant after connecting all wiring and testing the Lock.

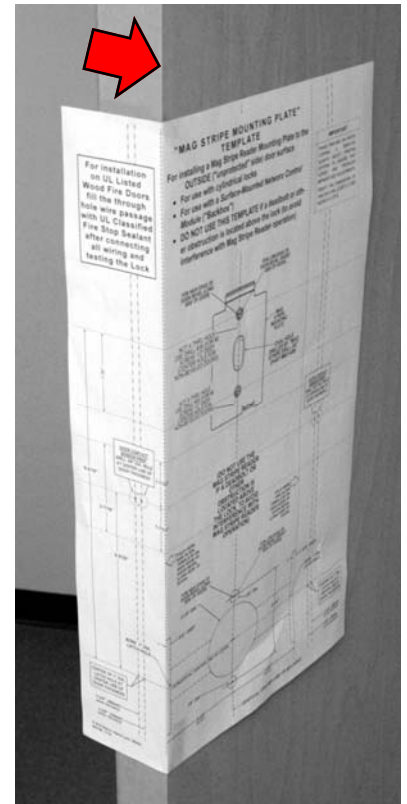


FIG. 3: EXAMPLE OF OUTSIDE DOOR EDGE (ARROW)

4. MARK TEMPLATE "MAG STRIPE MOUNTING PLATE" HOLES

On the outside door surface, mark the two holes for the **Mag Stripe Mounting Plate** screws.

Note: Take note of the **"OVAL HOLE"** on the template. With wood doors, in the center of the **Mag Stripe Mounting Plate** is this oval hole that will be created by the drill bit used with the **Mag Stripe Drill Jig**; this hole inside the wood door will run from this point on the outside door surface to the hole used by the **Surface-Mounted Networkx Control Unit** ("backbox") located on the inside door surface.

Note: With hollow metal doors only, the **Mag Stripe Mounting Plate** can be moved vertically higher if using the provided Extender Cables.

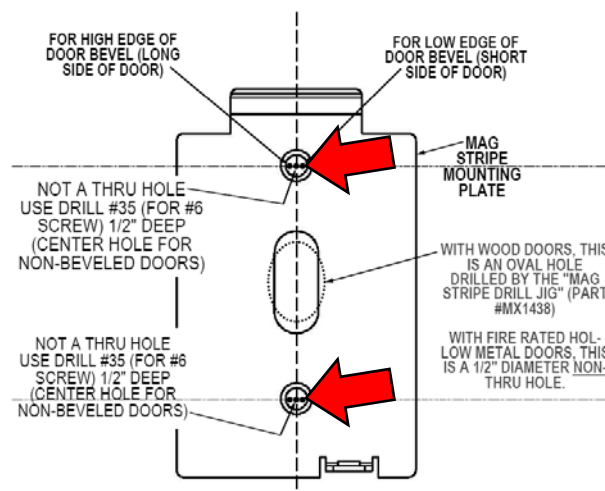


FIG. 4. MARK THE TWO HOLES FOR THE "MAG STRIPE MOUNTING PLATE" SCREWS (TEMPLATE WI2198)

5. TAPE ON DOOR: "SURFACE-MOUNTED NETWORKX CONTROL UNIT" TEMPLATE (WI2199)

The **Surface-Mounted Networkx Control Unit** (see Fig. A on page 1) is always mounted on the inside ("protected") door surface.

Fold and place the template (WI2199) on the **inside door edge**. Align the template with the "**HORIZONTAL CENTER LINE OF LEVER**" and the 5/8" diameter Non-Thru Hole as shown on the template. Tape the template in place.

Note: Take special notice of this 5/8" diameter Non-Thru Hole, as it is an essential hole for this installation and is referenced several times throughout these instructions

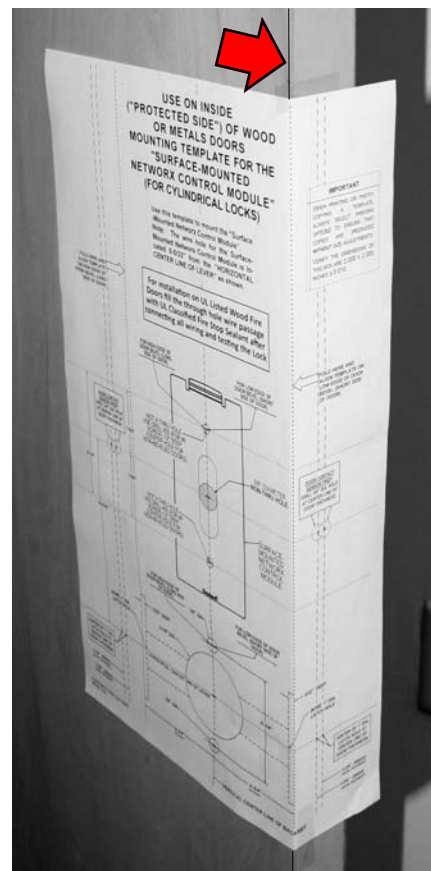


FIG. 5: EXAMPLE OF INSIDE DOOR EDGE (ARROW)

6. MARK TEMPLATE "SURFACE-MOUNTED NETWORKX CONTROL UNIT" HOLES

On the inside ("protected") door surface, mark the two **Control Unit Mounting Plate** (Fig. 6) holes using the correct markings printed on the template (if door is beveled, use correct markings for beveled doors as described in step 1). Mark the center of the 5/8" diameter Non-Thru Hole. This 5/8" diameter Non-Thru Hole is used for the **Cylindrical Lock Motor Wire, Door Contact Sensor** and **Mag Stripe Reader** wires. **Note:** This 5/8" Diameter Hole is a NON-thru-hole (see template WI2199). Carefully remove the template.

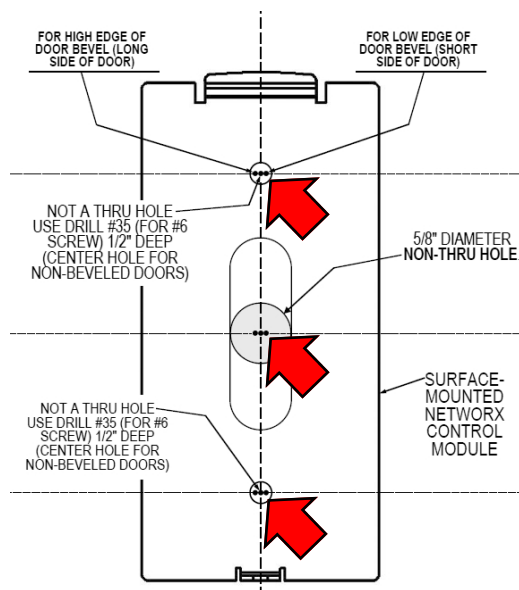


FIG. 6: MARK THE "SURFACE-MOUNTED NETWORKX CONTROL UNIT" HOLES (ARROWS)

7. MARK TEMPLATE "DOOR CONTACT SENSOR" HOLE

Mark the 3/4" **Door Contact Sensor** hole in the edge of the door for the correct door thickness. Carefully remove the template.

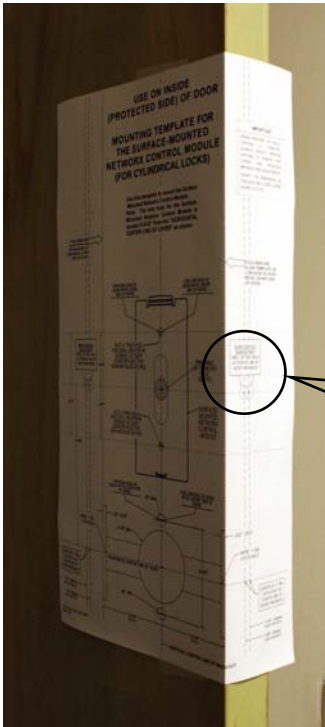


FIG. 7: DOOR CONTACT SENSOR HOLE ON DOOR EDGE

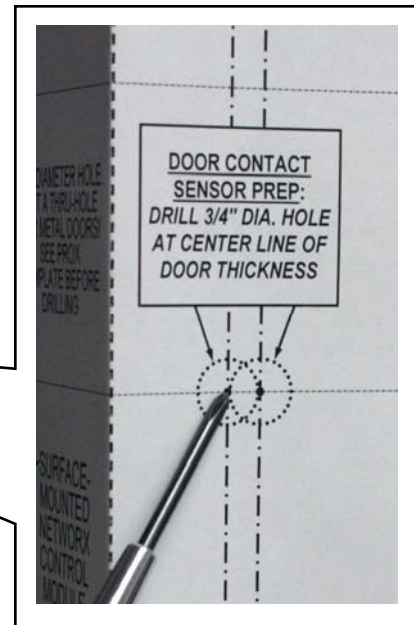


FIG. 7A: SELECT HOLE FOR DOOR THICKNESS

8. MARK "DOOR CONTACT MAGNET" ON JAMB

The **Door Contact Magnet** must be installed in the door jamb such that when the door is closed, the **Door Contact Sensor** is located *directly opposite* the **Magnet**. Install as follows:

- 8A. Open the door and temporarily place a piece of tape across the center of the mark made for the **Door Contact Sensor** in the previous step. This tape signifies the height (from the floor) of the **Door Contact Sensor**.
- 8B. Close the door. Transfer this height to the door jamb with a light pencil mark.
- 8C. Determine the center location on the jamb directly opposite the **Door Contact Sensor** when the door is closed. Open the door and measure the distance from the door edge to the center of the **Door Contact Sensor** (0.875" or $\frac{7}{8}$ "). Transfer this distance to the door jamb, measured from the door stop.

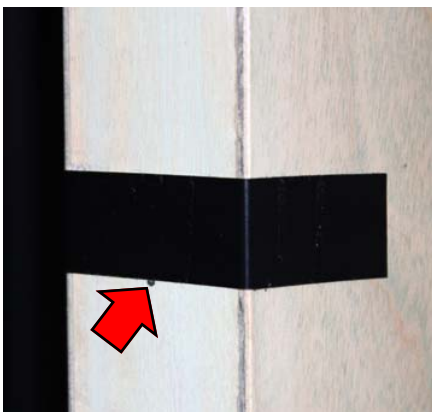


FIG. 8A: TAPE SIGNIFIES "HEIGHT FROM FLOOR"



FIG. 8B: CLOSE DOOR AND TRANSFER HEIGHT TO JAMB



FIG. 8C: LOCATE MAGNET IN JAMB CENTERED DIRECTLY OPPOSITE THE SENSOR WHEN DOOR IS CLOSED

DOOR PREP: DRILL HOLES

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

9. DRILL THE FOLLOWING HOLES IN THE DOOR

9A. Use 7/64" drill bit:

On the outside ("unprotected side") door surface, drill the two pilot holes for the **Mag Stripe Mounting Plate** mounting screws (NOT thru-holes, drill only into the door surface).

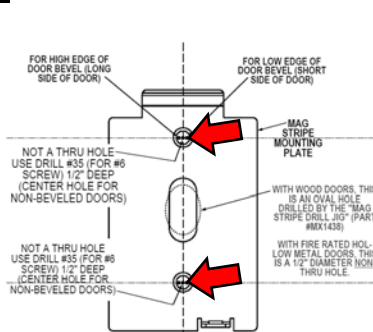


FIG. 9A: 7/64" PILOT HOLES ON OUTSIDE DOOR SURFACE FOR SECURING THE "MAG STRIPE MOUNTING PLATE" (WI2198 SHOWN)

9B. Use 7/64" drill bit:

On the inside ("protected side") door surface, drill the two pilot holes for the **Control Unit Mounting Plate** mounting screws (NOT thru-holes, drill only into the inside door surface).

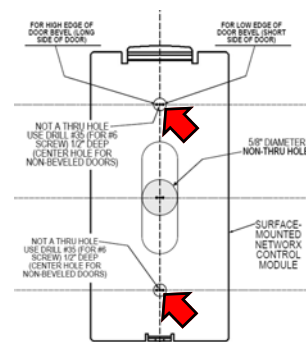


FIG. 9B: 7/64" PILOT HOLES ON INSIDE DOOR SURFACE FOR SECURING THE CONTROL UNIT MOUNTING PLATE (WI2199 SHOWN)

9C. Use 5/8" drill bit:

On the inside ("protected side") door surface, drill a **5/8" diameter Non-Thru Hole** to a depth of 1/2" (see template WI2199).

This 5/8" Non-Thru Hole is used for the **Cylindrical Lock Motor Wire**, the **Door Contact Sensor** and the **Mag Stripe Reader** wires.

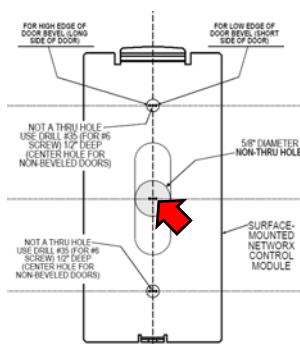


FIG. 9C: 5/8" DIAMETER NON-THRU HOLE

9D. Use 3/4" drill bit: 3/4" Door Contact Sensor hole in edge of the door (for solid wood doors, drill until the hole intersects with the 5/8" Diameter Non-Thru-Hole).

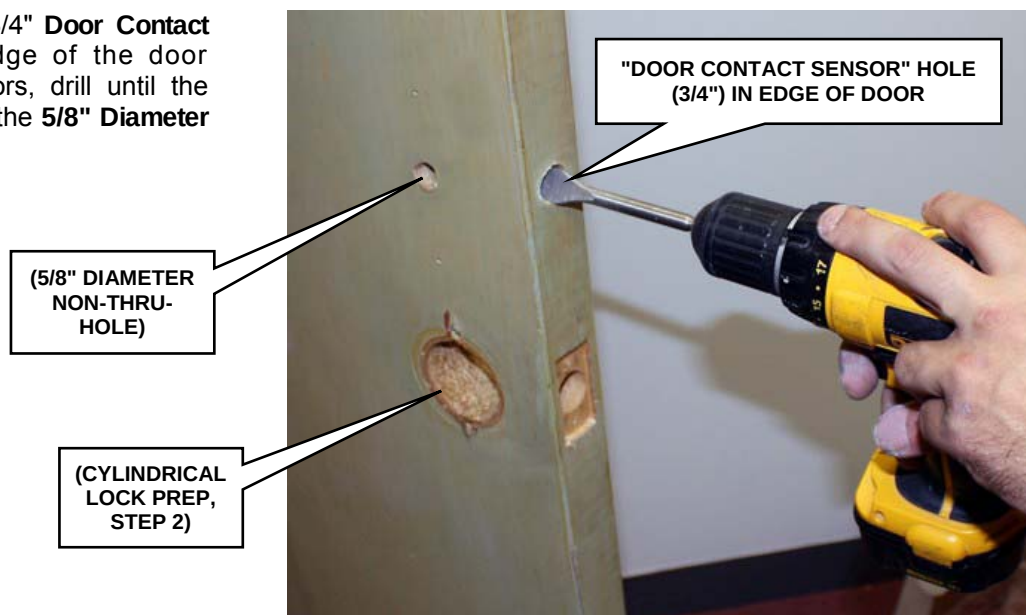


FIG. 9D: 3/4" DOOR CONTACT SENSOR HOLE IN EDGE OF THE DOOR

10. DRILL "DOOR CONTACT MAGNET" HOLE IN JAMB

10A. Find the **Door Contact Magnet**. The type provided will be either **Type A** or **Type B** (see image below). For the type provided, note its dimensions in Fig. 10A.

10B. 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 (marked in step 8).
- For the thinner "Type B" contact (below right image): Drill a 3/8" hole 7/8" deep into the jamb (marked in step 8).

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.

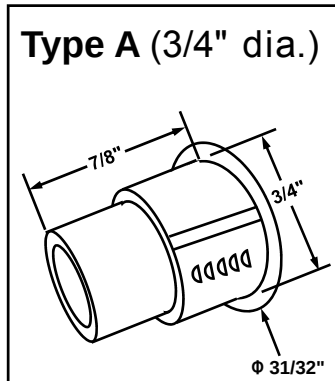


FIG. 10A: FIND THE "DOOR CONTACT MAGNET" PROVIDED, EITHER TYPE A (3/4" DIAMETER) OR TYPE B (3/8" DIAMETER)

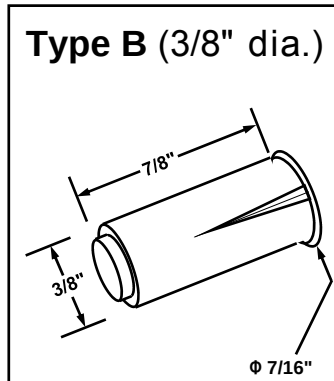


FIG. 10B: DRILL DOOR JAMB HOLE (EITHER 3/8" OR 3/4" DEPENDING ON TYPE)

10C. 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. 10C: DOOR CONTACT MAGNET INSTALLED IN DOOR JAMB

10D. USING THE "MAG STRIPE DRILL JIG"

The **Mag Stripe Drill Jig** (part #MX1438) is used with **solid wood doors only**. For hollow metal doors, skip this step.

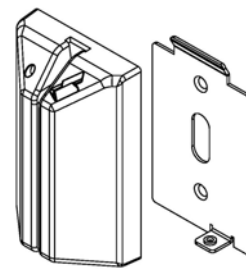
PURPOSE OF THE JIG

The **Mag Stripe Drill Jig** is used to drill a diagonal 1/2" hole through a solid wood door to provide a pathway for the **Mag Stripe Reader Wire** that runs from the outside ("unprotected" side) door surface to the 5/8" Diameter Non-Thru-Hole and is plugged into the **Surface-Mounted Networkx Control Unit**.

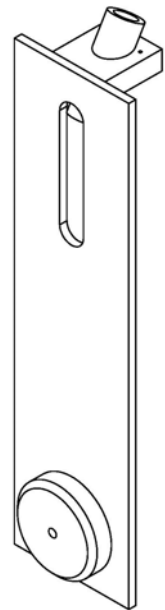
Clamp the **Jig** to the *outside door surface* (always protect the door surface to avoid damage). The hole will be drilled starting from the "**OVAL HOLE**" referenced in the "**MAG STRIPE MOUNTING PLATE**" template (WI2198) and ending at the 5/8" Diameter Non-Thru-Hole (in the center of the **Surface-Mounted Networkx Control Unit Mounting Plate**). Use a level to ensure the **Jig** is vertical.

Fig. 10D displays two "side views" to show how this **Mag Stripe Drill Jig** is inserted in the door, and the diagonal path of this drilled interior hole.

When finished drilling the hole, remove clamp and **Jig**.



MAG STRIPE READER AND ITS MOUNTING PLATE



MAG STRIPE DRILL JIG (SOLID WOOD DOORS)

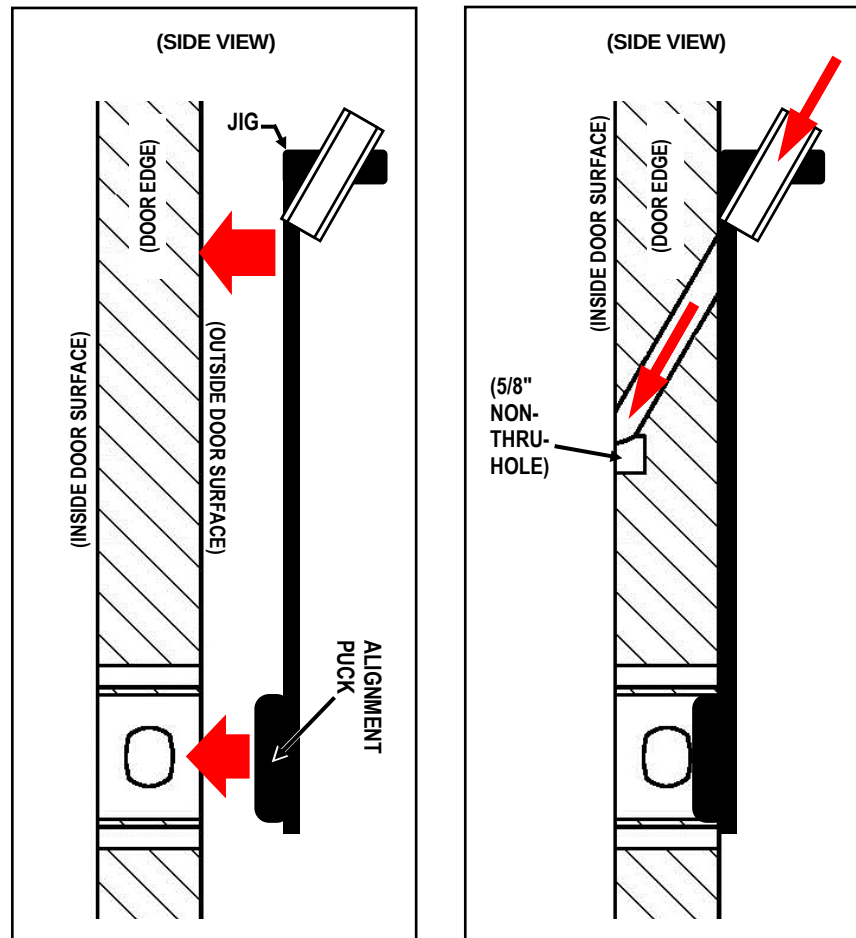


FIG. 10D: JIG IS INSERTED INTO THE OUTSIDE ("UN-PROTECTED" SIDE) OF THE DOOR. VIEW SHOWS HOLE PATHWAY



DECISION: HOW SHOULD I ROUTE THE "CYLINDRICAL LOCK MOTOR WIRE"?

The **Cylindrical Lock Body** includes a **Cylindrical Lock Motor Wire** that must be routed to and plugged into the **Surface-Mounted Networkx Control Unit**.

HOW this **Cylindrical Lock Motor Wire** is routed depends on whether the door is solid or hollow, and whether you choose to route this **Cylindrical Lock Motor Wire** through the door or along the door surface:

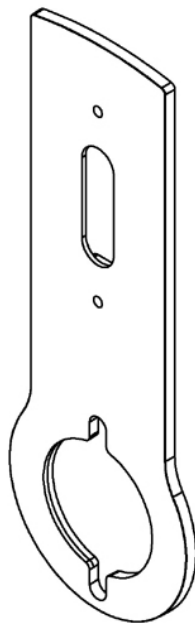
- If the **Cylindrical Lock Motor Wire** is routed along the door surface, use the **Wiring Plate** (part HW1945) where the **Cylindrical Lock Motor Wire** is routed behind this **Wiring Plate** (the wire runs along one of its inside grooves that, when installed, rests against the inside door surface). **Note:** This **Wiring Plate** (part HW1945) can be used with all types of doors, solid wood or hollow metal, and whether the **Cylindrical Lock Motor Wire** is routed through the door or along the door surface;
- If the **Cylindrical Lock Motor Wire** is routed through the door, you have other choices:

With Hollow Metal Doors:

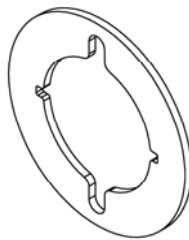
- **Option 1:** (Easiest option) Route the **Cylindrical Lock Motor Wire** within the hollow metal door. You **MUST** use either the **Wiring Plate** (part HW1945) or preferably the small round **Spacer** (part # 1904ARC) that is hidden after installing the cylindrical lock body.
- **Option 2:** If for some reason you do not wish to run wires through a hollow metal door, route the **Cylindrical Lock Motor Wire** behind the **Wiring Plate** (HW1945). Skip to step 11.

With Solid Wood Doors:

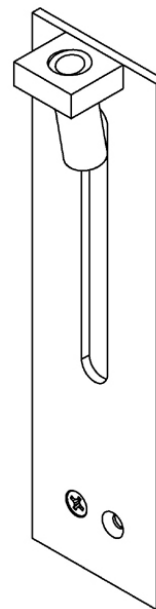
- **Option 1:** Route the **Cylindrical Lock Motor Wire** behind the **Wiring Plate** (part HW1945) along one of its grooves that, when installed, rests against the inside door surface. Skip to step 11.
- **Option 2:** If you do not wish to use the **Wiring Plate**, use the **Cylindrical Drill Jig** (part #N90S1DJ) to drill a pathway for the **Cylindrical Lock Motor Wire** *within* the solid wood door (from the 2-1/8" diameter door chassis hole to the 5/8" diameter Non-Thru Hole). You **MUST** use the small round **Spacer** (part # 1904ARC) when installing the cylindrical lock body. Skip to step 12.



WIRING PLATE
(PART # HW1945)



SPACER
(PART # 1904ARC)



CYLINDRICAL DRILL JIG
(PART # N90S1DJ)
FOR SOLID WOOD DOORS ONLY

11. USING THE WIRING PLATE

The **Wiring Plate** is always installed on the inside ("protected") side door surface. Note also that the **Cylindrical Lock Motor Wire** will also run along the inside ("protected") side door surface.

11A. Install the latch and secure with screws provided.



FIG. 11A: INSTALL LATCH

11B. From the outside ("unprotected") side of the door, insert the **Cylindrical Lock Body** into the 2-1/8" diameter door chassis hole (standard ASA 161 door prep) as detailed in its installation instructions provided with the unit.

IMPORTANT: Ensure the **Cylindrical Lock Motor Wire** runs to the inside ("protected") side of the door. Do not install the inside housing yet, as the **Wiring Plate** will need to be installed first.

Install the **Inside Rose Plate** with the wire routed as shown in Fig. 11B. With metal doors, drill the 1/8" holes for the **Inside Rose Plate** "tabs" (as shown on the template WI2199). With wood doors, the **Inside Rose Plate** can be hammered into place without needing to drill the two 1/8" holes for these "tabs".

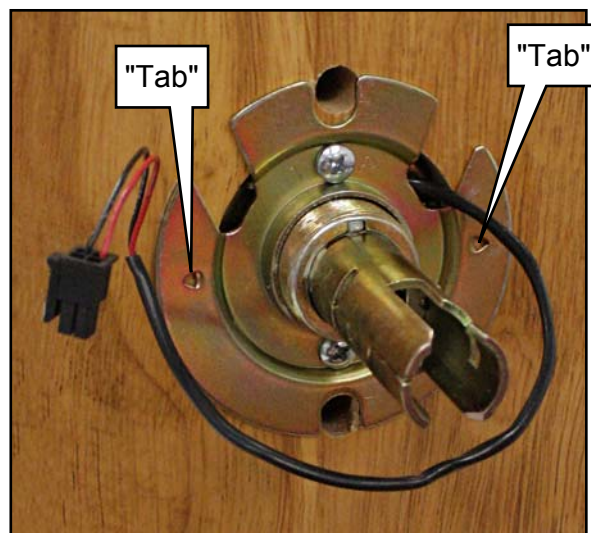


FIG. 11B: WIRE RUNS TO THE INSIDE
(THIS PHOTO TAKEN FROM THE INSIDE
"PROTECTED" SIDE OF THE DOOR)

- 11C.** Route the **Cylindrical Lock Motor Wire** within one of the two grooves located on the "interior" of the **Wiring Plate**; use the groove on the *same side* as the **Cylindrical Lock Motor Wire** as it exits the **Lock Body**. Tape wire in place.

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

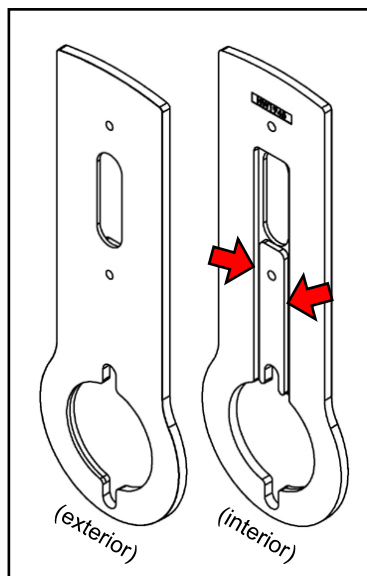


FIG. 11C: USE THE GROOVE ON THE SAME SIDE AS THE CYLINDRICAL LOCK MOTOR WIRE (ARROWS)

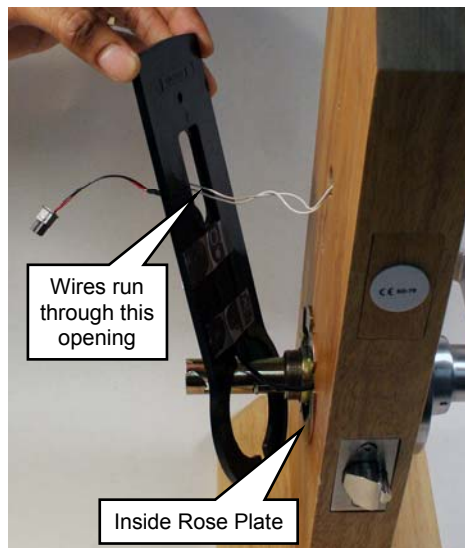


FIG. 11D: ROUTE THE MOTOR WIRE WITHIN THE GROOVE CLOSEST TO THE MOTOR WIRE. TAPE WIRE IN PLACE

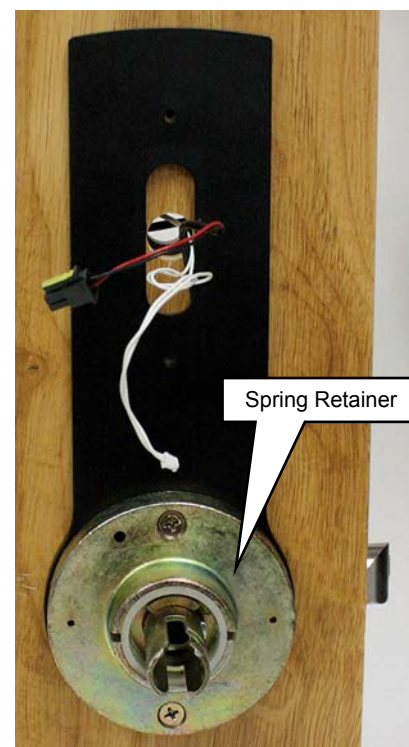


FIG. 11E: INSTALL THE SPRING RETAINER AND SECURE WITH TWO LONG SCREWS

- 11D.** Tape the wire to the interior of the **Wiring Plate**. Place the circular opening of the **Wiring Plate** over the inside ("protected" side) so that its "interior" grooves will rest against the inside door surface.

- 11E.** Install the **Spring Retainer** and secure with two long screws (see Fig. 11E).

Skip to step 13.

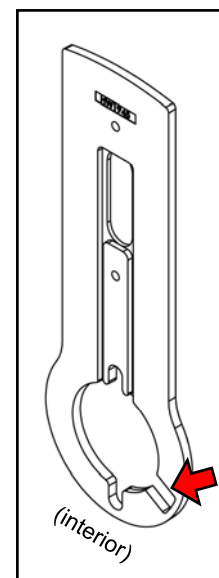


FIG. 11EE: MODELS THAT SUPPORT RX, THIS PLATE INCLUDES A NOTCH (ARROW)

12. USING THE CYLINDRICAL DRILL JIG

The optional **Cylindrical Drill Jig** (part #N90S1DJ) is used with solid wood doors only. For hollow metal doors, jump to step 13. If you want to use the **Wiring Plate** (HW1945) in place of the **Cylindrical Drill Jig**, jump back to step 11.

PURPOSE OF THE JIG

The **Jig** is used to drill a diagonal 1/2" hole through a solid wood door to provide a path for the **Cylindrical Lock Motor Wire** to allow this wire to run to the 5/8" Diameter Non-Thru Hole and be connected to (plugged into) the **Surface-Mounted Networkx Control Unit**.

The **Jig** will be clamped to the *inside door surface*, and the hole will be drilled starting from the 5/8" Diameter Non-Thru Hole and ending at the 2-1/8" diameter door chassis hole.

Fig. 12 displays two "side views" to show how this **Cylindrical Drill Jig** is inserted in the door, and the path of this drilled interior hole.

Before you can drill, an "**Alignment Puck**" must be fastened to the **Cylindrical Drill Jig**.

PURPOSE OF THE "ALIGNMENT PUCK"

When the **Cylindrical Lock** body is correctly inserted into the door (see Fig. 12A), the **Cylindrical Lock Motor Wire** must always be located on the side of the **Cylindrical Lock** body that is *furthest from the latch*. Therefore, this **Alignment Puck** is intended to shift the **Jig** in order to align with the location of the **Cylindrical Lock Motor Wire**, and to avoid the 3/8" (5/16") thru-hole (see Fig. 12A).

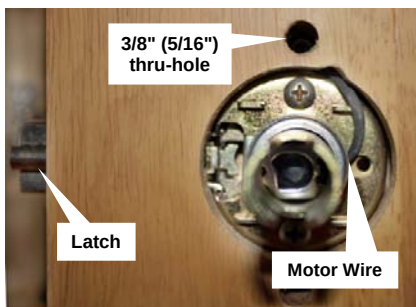


FIG. 12A: MOTOR WIRE IS ALWAYS LOCATED FURTHEST FROM LATCH

12A. SELECT PROPER POSITION OF THE "ALIGNMENT PUCK"

As shown in Fig. 12AA, the rear of the **Cylindrical Drill Jig** includes an adjustable "**Alignment Puck**" that must be fastened to one of the two screw holes at the bottom of the **Jig** with a Phillips head screw (provided). To ensure the hole to be drilled aligns with the location of the **Cylindrical Lock Motor Wire**, proceed as follows:



From the "inside" ("protected" side) of the door: *If the latch is on the left side, select **Hole A**; if the latch is on the right side, select **Hole B**.*

Example: The photograph shown in Fig. 12A was taken from the inside of the door: With the latch located on the left side, use **Hole A** to shift the **Jig** away from the latch (to the right in this example) to align with the **Motor Wire**.

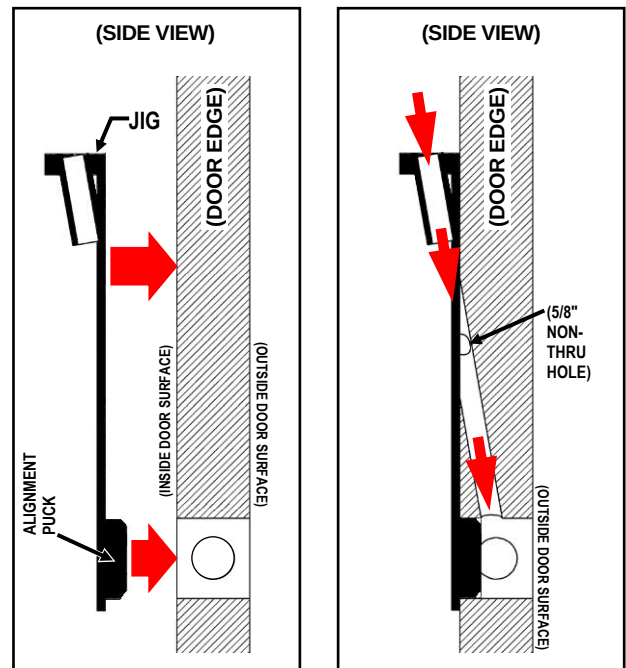


FIG. 12: JIG IS INSERTED INTO THE INSIDE ("PROTECTED") SIDE OF THE DOOR. VIEW AT RIGHT SHOWS HOLE PATH

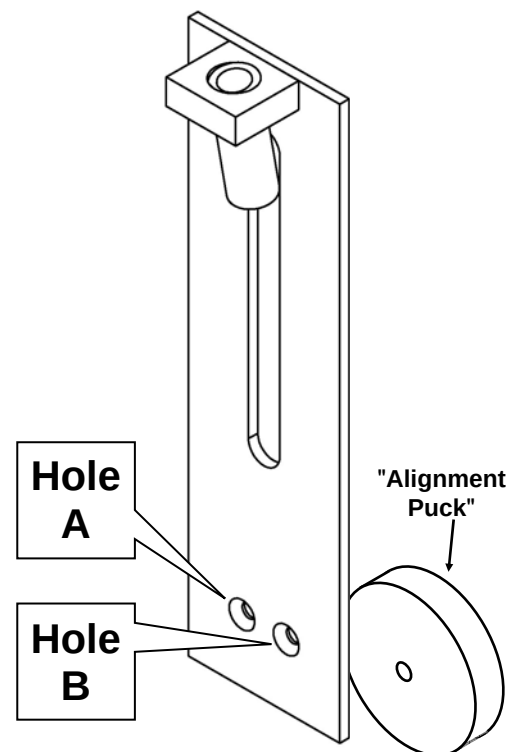


FIG. 12AA: CYLINDRICAL DRILL JIG

12B. CLAMP DRILL JIG TO DOOR

On the inside ("protected") side of the door, place the **Jig (Alignment Puck** first), into the 2-1/8" diameter door chassis hole. Use a level to ensure the top edge of the **Jig** is horizontal; then clamp the **Jig** in place (temporarily cushion the clamp(s) with shims or other material to prevent damaging the door surface, as shown in Fig. 12BB).



FIG. 12B: DRILL JIG CLAMPED TO DOOR, WITH LEVEL



FIG. 12BB: ALWAYS PROTECT THE DOOR SURFACE !

12C. DRILL HOLE WITH DRILL JIG

Insert supplied 1/2-inch diameter wood drill bit into the **Cylindrical Drill Jig** as shown in Fig. 12C and drill the hole until the 2-1/8" diameter door chassis hole is reached.

When finished, remove the **Jig**.



FIG. 12C: DRILL SLOWLY AND CAREFULLY

12D. FILE NOTCH

Prevent the **Cylindrical Lock Body** from pinching the **Motor Wire** against the 2-1/8" diameter door chassis hole by filing a notch (or a "channel") in the top of the 2-1/8" diameter hole with a circular file. The notch location corresponds with the part of the **Cylindrical Lock Body** where the **Motor Wire** and the 2-1/8" diameter hole will meet.

Fig. 12D shows a close-up of this notch, shown from the inside ("protected") side of the door. Note that this image shows the **Cylindrical Lock Body** already installed (for reference)

Creating this notch to allow space for the Motor Wire is very important and MUST be performed.

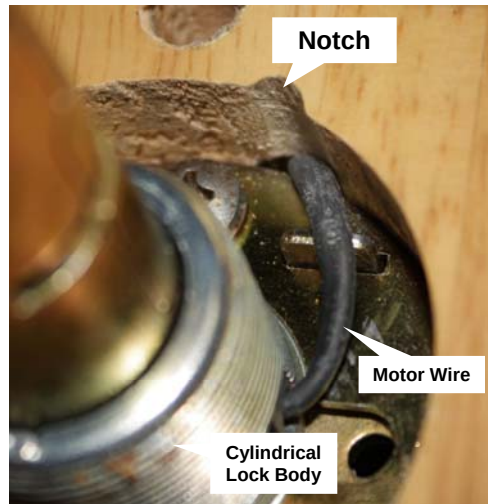


FIG. 12D: FILE NOTCH (ARROW)

12E. INSTALL THE LATCH

Secure with screws provided.



FIG. 12E: INSTALL LATCH

12F. INSTALL THE "CYLINDRICAL LOCK BODY"

From the outside ("unprotected") side of the door, insert the **Cylindrical Lock Body** into the 2-1/8" diameter door chassis hole while feeding the **Cylindrical Lock Motor Wire** up through to the **5/8" Diameter Non-Thru Hole** for wood doors (to the **1/2" Diameter Non-Thru-Hole** for fire rated metal doors) running to the inside ("protected") side of the door.

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

Secure the **Cylindrical Lock** with the mounting hardware provided. See the installation instructions provided with the **Cylindrical Lock** for complete installation instructions.



FIG. 12F: INTERIOR HOLE (ARROW)

12G. INSTALL THE "SPACER"

Continue installing the cylindrical lock on the door as detailed in the instructions included with the cylindrical lock. However, after installing the **Inside Rose Plate** with the **Inside Mounting Screws** (see Fig. 12Ga and Fig. 12Gb), Install the **Spacer** (part # 1904ARC; see Fig. 12Gc). Continue installing the cylindrical lock as detailed in the aforementioned instructions. **Note:** To allow the **Inside Rose Plate** to lie flush against metal doors, drill the 1/8" minimum depth holes for the **Inside Rose Plate** "Tabs" as shown in Fig. 12Gb (see "**METAL DOORS ONLY**" on template WI2198). With wood doors, hammer Inside Rose Plate until flush with door surface.



SPACER
(1904ARC)

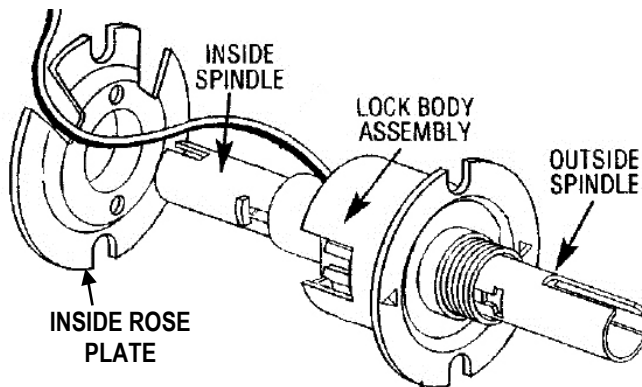


FIG. 12Ga: GENERAL EXPLODED VIEW OF
CYLINDRICAL LOCK PARTS



FIG. 12Gb: INSIDE ROSE
PLATE INSTALLED



FIG. 12Gc: INSTALL
"SPACER"

13. INSTALL "DOOR CONTACT SENSOR" IN DOOR EDGE

Insert the **Door Contact Sensor** wires through its 3/4" hole in the edge of the door and then out through the **5/8" Diameter Non-Thru Hole** for wood doors (to the **1/2" Diameter Non-Thru-Hole** for fire rated metal doors) to the inside ("protected") side of the door.

Note: The **Door Contact Sensor** plug sleeve color is *white*.



FIG. 13: ROUTE TO THE INSIDE
("PROTECTED") SIDE OF THE DOOR

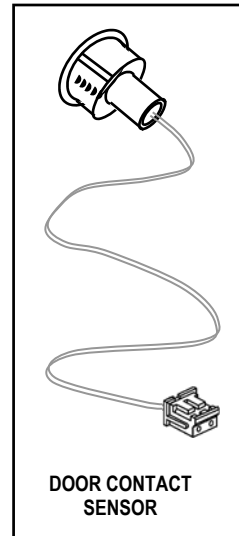


FIG. 13A

14. INSTALL "MAG STRIPE MOUNTING PLATE"

Locate the two pilot holes for the **Mag Stripe Mounting Plate** mounting screws that were drilled into the outside ("unprotected") door surface in step 4.

See Fig. 14 to determine which end is the "TOP". Place the **Mag Stripe Mounting Plate** against the outside ("unprotected") door surface and secure using the two Phillips Flat Head screws appropriate for the door type as follows:

- **For Metal Doors:** #6-32 x 5/8" long Type 23 thread cutting Phillips Flat head, U-cut (part #SC682);
- **For Wood Doors:** #6 x 3/4" long undercut self-tapping Type A (part #SC596)

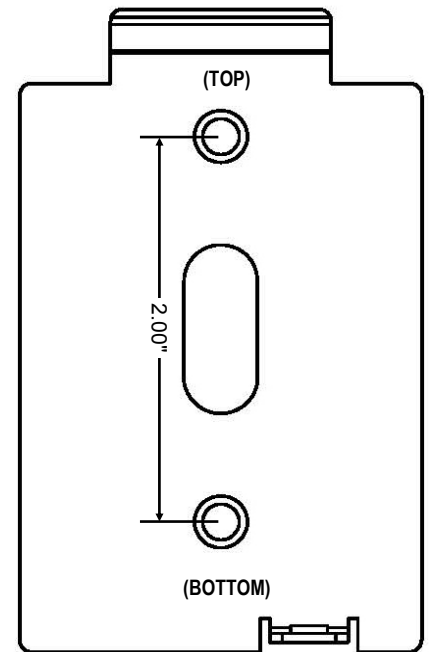


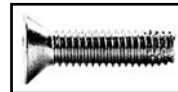
FIG. 14:
MAG STRIPE MOUNTING PLATE
SHOWN IN CORRECT MOUNTING
ORIENTATION (SEE "TOP" AND
"BOTTOM")

15. INSTALL "CONTROL UNIT MOUNTING PLATE"

Locate the two pilot holes for the **Control Unit Mounting Plate** mounting screws that were drilled into the inside ("protected") door surface in step 9B.

See Fig. 15 to determine which end is the "TOP". Place the **Control Unit Mounting Plate** against the inside ("protected") door surface and secure using the two Phillips Flat Head screws appropriate for the door type as follows:

- **For Metal Doors:** #6-32 x 5/8" long Type 23 thread cutting Phillips Flat head, U-cut (part #SC682);
- **For Wood Doors:** #6 x 3/4" long undercut self-tapping Type A (part #SC596)



If the **Wiring Plate** was installed in step 11, place the **Control Unit Mounting Plate** on top of the **Wiring Plate** and install the screws (see Fig. 15A).
If not using the **Wiring Plate**, screw the **Control Unit Mounting Plate** directly into the door.

FIG. 15A: INSTALL CONTROL
UNIT MOUNTING PLATE ON TOP
OF WIRING PLATE, IF INSTALLED

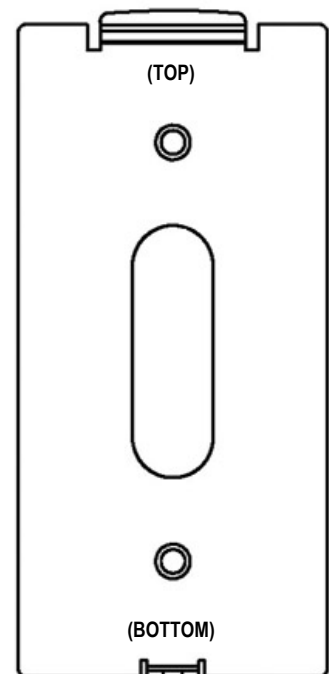


FIG. 15:
CONTROL UNIT MOUNTING
PLATE SHOWN IN CORRECT
MOUNTING ORIENTATION
(SEE "TOP" AND "BOTTOM")

16. CONNECT PLUGS IN THE "SURFACE-MOUNTED NETWORKX CONTROL UNIT"

Match the plug sleeve colors to the corresponding sockets (see Fig. 17). **Note:** The Door Contact Sensor is a pair of white wires connected to a small white plug with a blue sleeve near the sensor; do not confuse this plug with the plug for the "RX Request to Exit" plug originating from the **Cylindrical Lock Body**.

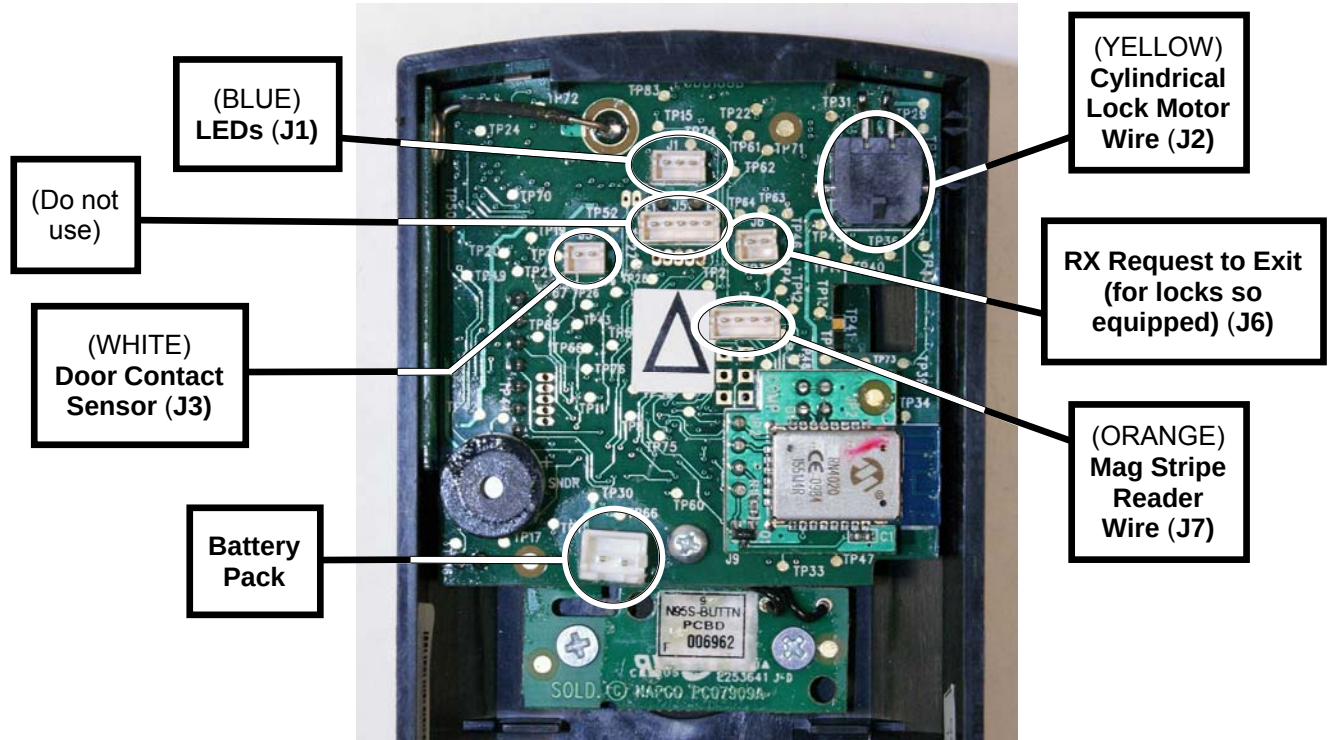


FIG. 16: CONTROL UNIT CONNECTIONS

17. CONNECT THE BATTERY PACK

See the above Fig. 16 for the location of the **Battery Pack** socket. Place the **Battery Pack** into the rear of the **Surface-Mounted NetworkX Control Unit** with the flat side up, as shown in Fig. 17A. As shown in Fig. 17B, route the wires through the opening in the PCB. This opening was intentionally designed to prevent pinched wires.

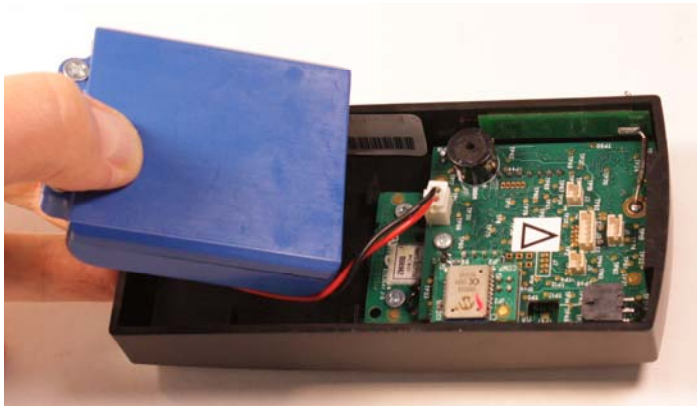


FIG. 17A: INSTALL BATTERY PACK WITH FLAT SIDE UP

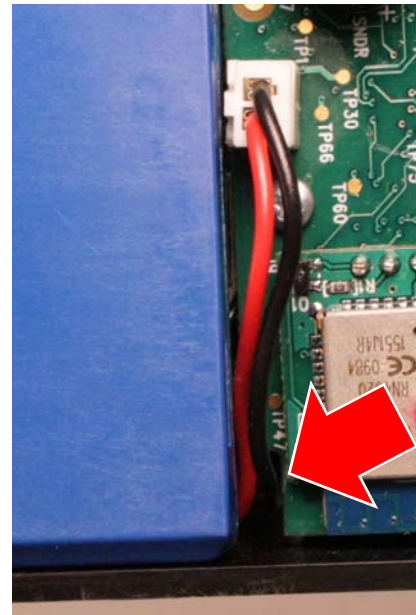


FIG. 17B: BE SURE WIRES ARE ROUTED THROUGH PCB OPENING (ARROW). Do NOT pinch wires!

18. MOUNT THE "SURFACE-MOUNTED NETWORKX CONTROL UNIT"

Before mounting, we recommend feeding all of the previously connected wires back into the door.

- a. Hook the top of the **Surface-Mounted Networkx Control Unit** into the top of the **Control Unit Mounting Plate** and press the bottom until flush with the door surface.
- b. Insert the Dog Point screw into the bottom of the **Surface-Mounted Networkx Control Unit** as shown in Fig. 18A. This screw is a #6-32 Allen Head countersunk U-cut Dog Point screw, part #SC681 as shown in Fig. 18. First thread this screw by hand using the knurled head for grip, then tighten with the rounded head of the supplied Allen key.

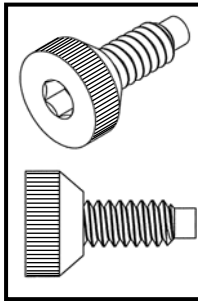


FIG. 18: "DOG POINT" SCREW



FIG. 18A: INSERT "DOG POINT" SCREW HERE

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NAPCO RECOMMENDS THAT THE ENTIRE SYSTEM BE COMPLETELY TESTED WEEKLY.

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