RHINO 4000XL QUICK START GUIDE

POWERED BY GILGEN DOOR SYSTEMS

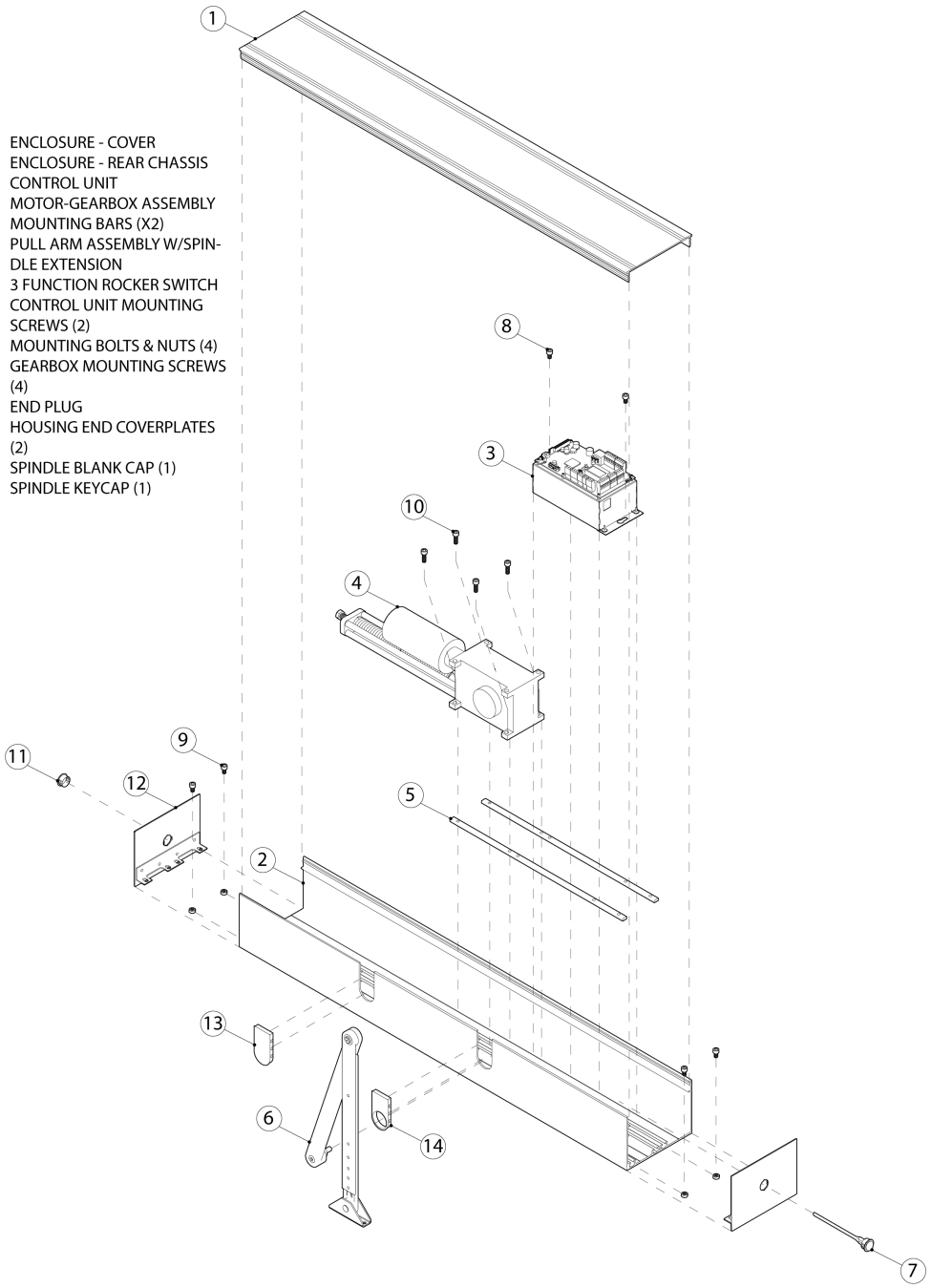
PUSH ARM INSTALLATION

FOR TECHNICAL ASSISTANCE CALL: 1-416-550-1753

This Guide aims to provide a quick reference for the installation of the Rhino 4000XL Operator.

⚠ **It is essential for the installer to review the complete Rhino 4000XL Installation Manual** to become fully familiarized with all installation, wiring and control parameter instructions. This equipment must be properly installed and operational before the public uses the door. It is the installer's responsibility to inspect the operation of the entrance system to be sure it complies with any applicable standards. In the United States, ANSI Standard 156.10 (Full Power) and ANSI Standard 156.19 (Low Energy) cover the RHINO 4000XL Swing Door Operator Assembly. Other local standards or codes may apply. Use them in addition to the ANSI standard.

1. ENCLOSURE - COVER
2. ENCLOSURE - REAR CHASSIS
3. CONTROL UNIT
4. MOTOR-GEARBOX ASSEMBLY
5. MOUNTING BARS (X2)
6. PULL ARM ASSEMBLY W/SPINDLE EXTENSION
7. 3 FUNCTION ROCKER SWITCH
8. CONTROL UNIT MOUNTING SCREWS (2)
9. MOUNTING BOLTS & NUTS (4)
10. GEARBOX MOUNTING SCREWS (4)
11. END PLUG
12. HOUSING END COVERPLATES (2)
13. SPINDLE BLANK CAP (1)
14. SPINDLE KEYCAP (1)



Scan the QR code below for the full Installation and Programming Manual

WARNING

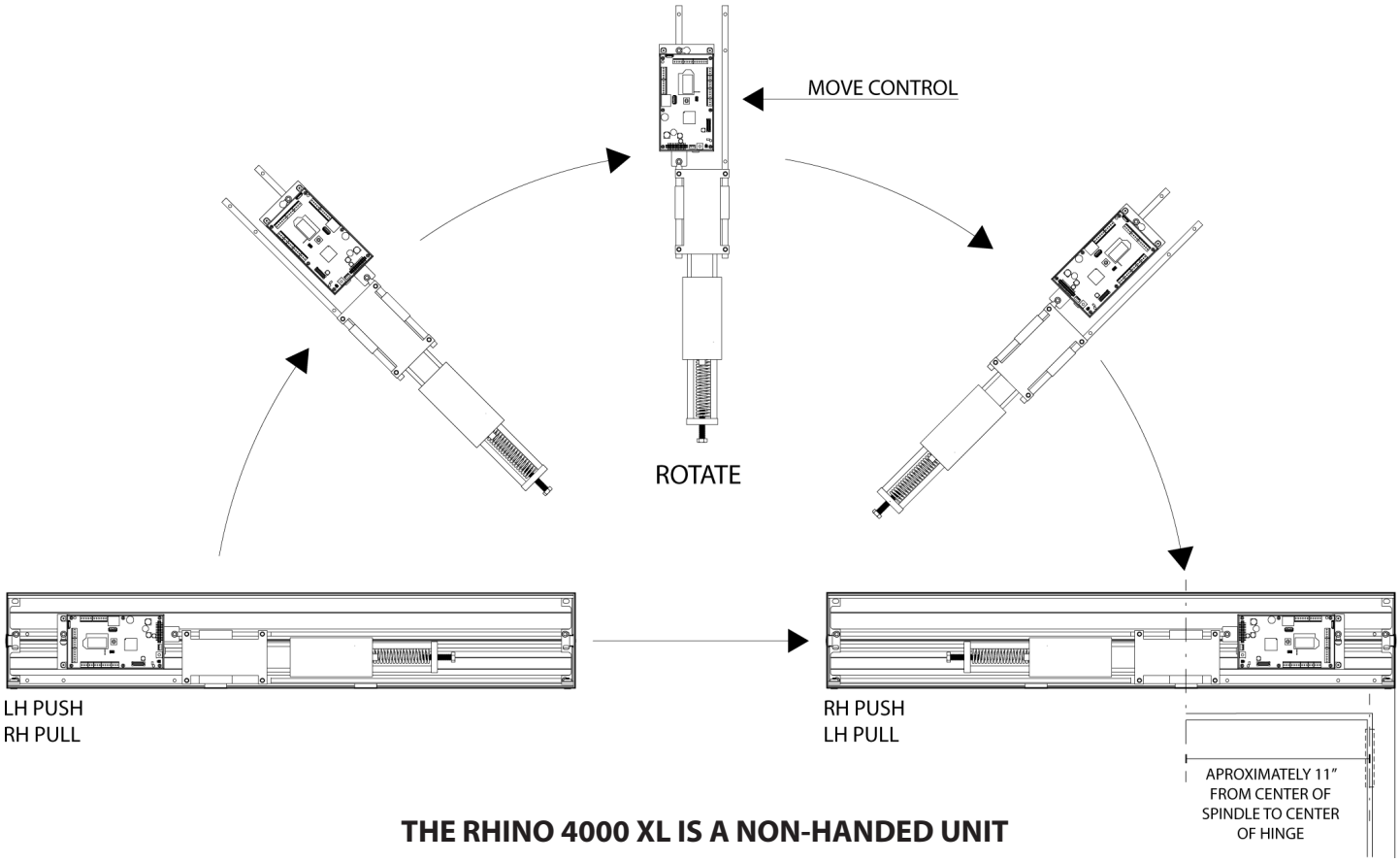
- Door must be installed and adjusted as a certified professional describes in the Installation Manual.
- Turn OFF all power to the Automatic Door if a Safety System is not working.
- Instruct the Owner to keep all power turned OFF until a trained technician can achieve corrective action. Failure to follow these practices may result in severe consequences.
- NEVER leave a Door operating without all Safety detection systems operational.

TOOLS REQUIRED FOR INSTALLATION

- TAPE MEASURE
- ALLEN KEY
- WIRE STRIPPER/CRIMPER TOOL
- PHILIPS SCREW DRIVER
- FLAT HEAD SCREW DRIVER
- DIAGONAL CUTTING PLYER
- SOCKET WITH ADAPTER
- IMPACT DRIVER
- PENCIL
- SPEED SQUARE (OPTIONAL)

BEFORE PROCEEDING

-]AFTER UNBOXING NOTE THE CONTROL AND MOTOR WIRING CONNECTIONS IN THE HOUSING AND DISCONNECT ALL WIRES
- UNBOLT BOTH THE MOTOR AND CONTROL
- PREP ALL WIRING CONNECTORS AND ENSURE ELECTRICIAN HAS RUN POWER.
- ENSURE THAT PUSH BUTTONS AND ANY ACCESSORIES LIKE ELECTRIC STRIKE ARE PRE-WIRED.
- CUT A WHOLE INTO THE HOUSING TO FEEL THE WIRING INTO THE HOUSING.
- PRIOR TO MOUNTING THE HEADER ENSURE BLOCKING IS INSTALLATED IF REQUIRED.

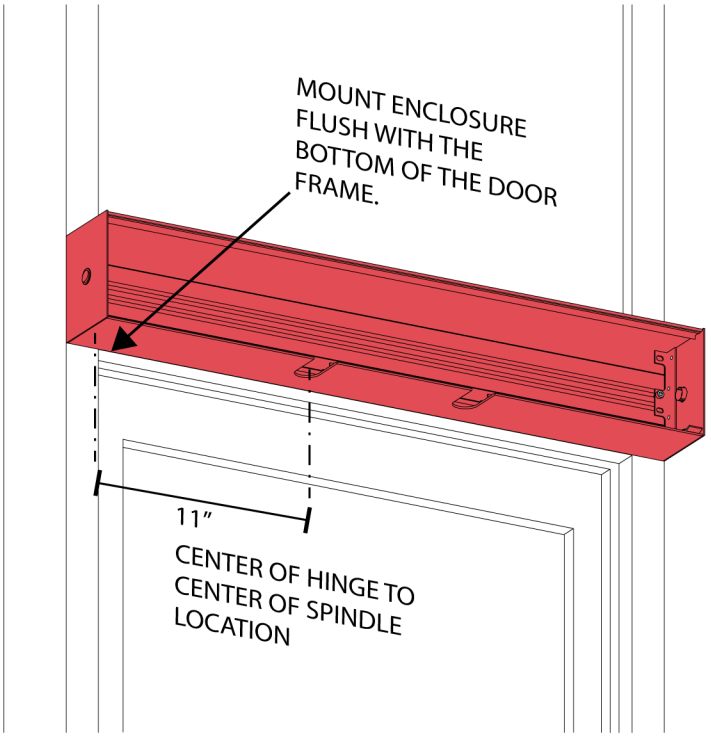


THE RHINO 4000 XL IS A NON-HANDED UNIT

INSTALLATION STEPS

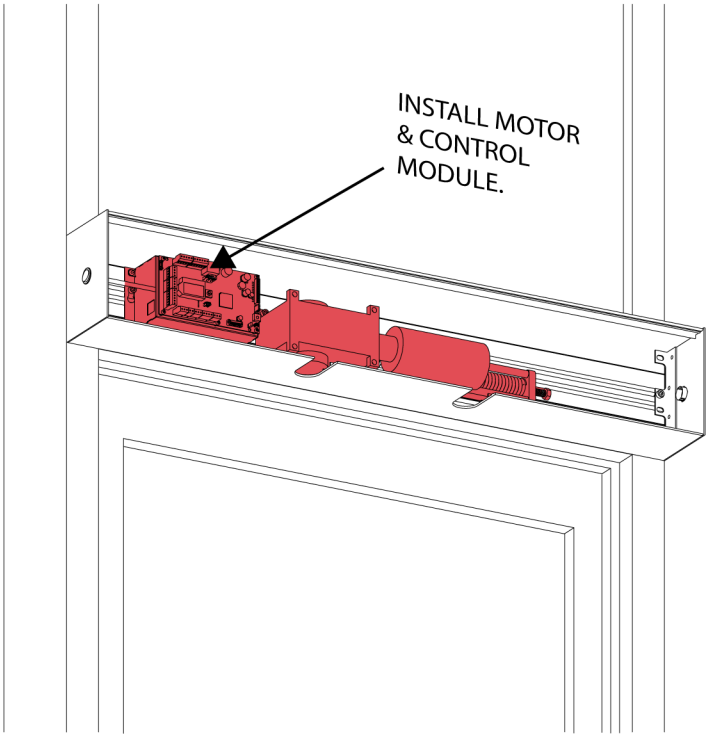
STEP 1:

- INSTALL HEADER WITH SPINDLE CUT OUT APPROXIMATELY 11" FROM THE CENTER OF THE HINGE LOCATION.
- SECURE USING A MINIMUM OF x8 FASTENERS.
- USE BLOCKING AS REQUIRED



STEP 2:

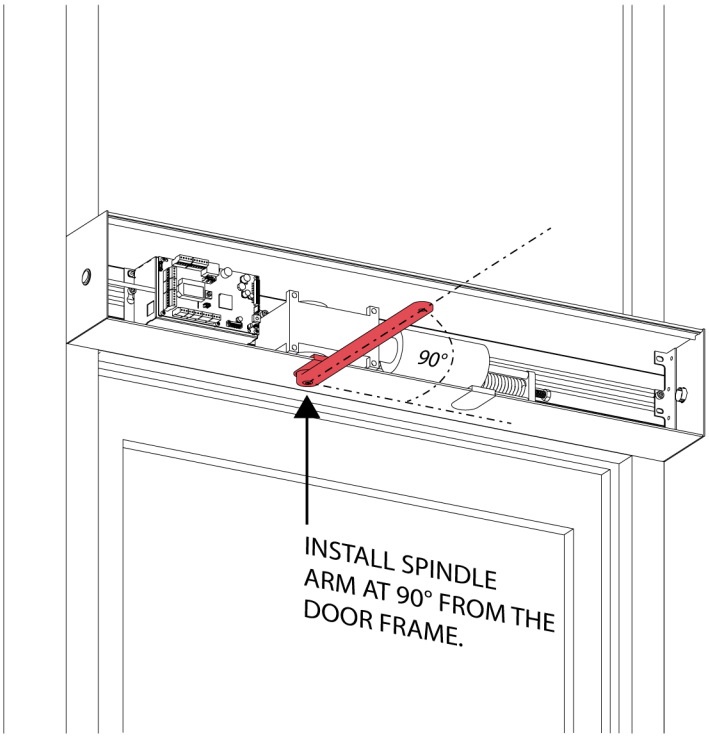
- INSTALL MOTOR & CONTROL USING ALLEN BOLTS TO MOUNTING BARS, TIGHTEN BY HAND.
- APPLY STICKY BACKS AND TIE STRAPS.
- ORGANIZE CABLING AND LEAVE DISCONNECTED UNTIL ARM IS INSTALLED.



INSTALLATION STEPS

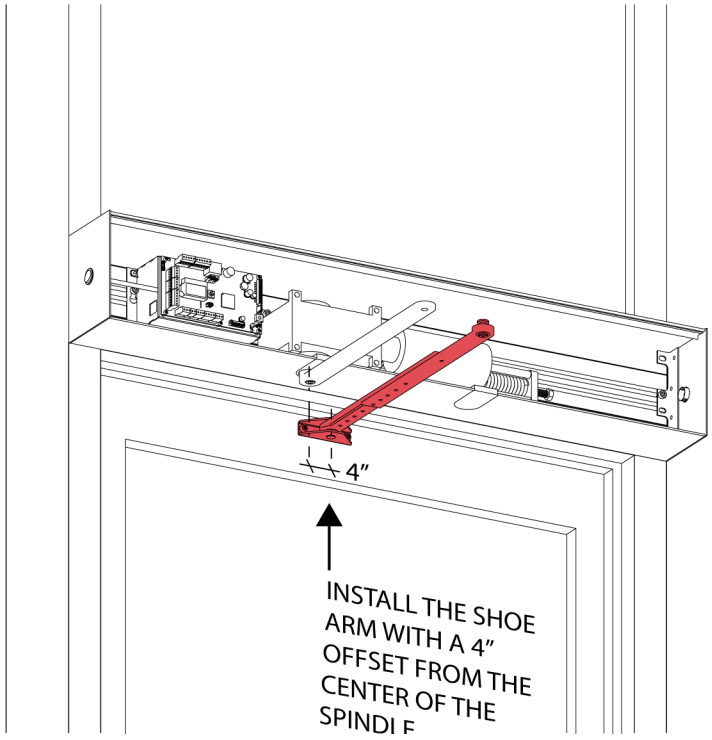
STEP 3:

- INSTALL THE SPINDLE EXTENSION ONTO THE ARM.
- INSTALL SPINDLE ARM PERPENDICULAR TO THE DOOR FRAME AT A 90° ANGLE FROM ENCLOSURE EDGE AS SHOWN.
- FASTEN BOLT TO SPINDLE BY HAND



STEP 4:

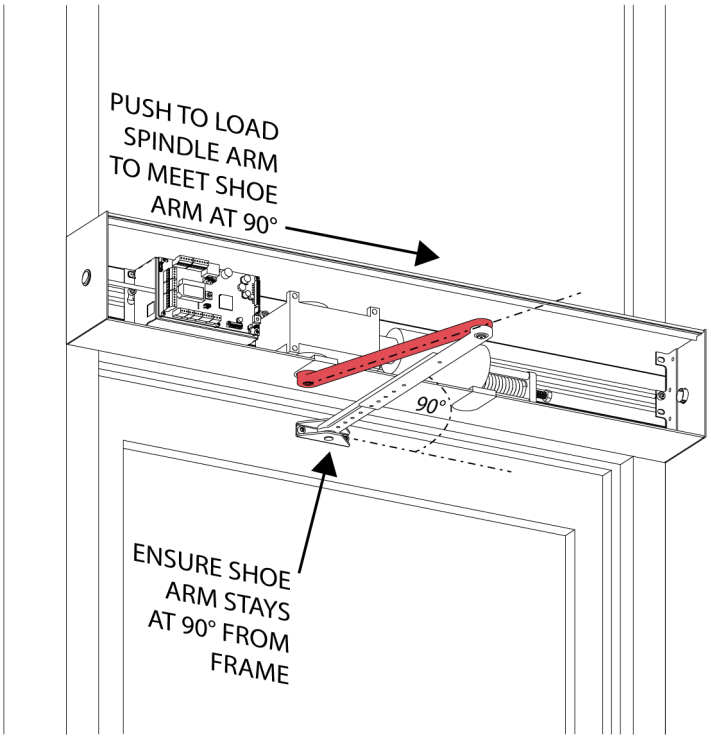
- MEASURE 4" FROM THE CENTER OF THE SPINDLE TOWARD THE LATCH SIDE AND MAKE A MARK ON THE DOOR EDGE.
- INSTALL THE CENTER OF THE SHOE TO THE 4" MARK AND SECURE WITH FASTENERS.
- ADJUST ARM EXTENSION TO ENSURE THAT THE ARM BOLT CAN BE SET FOR STEP 5.
- ENSURE BOTH ARMS ARE PERPENDICULAR TO DOOR FRAME PRIOR TO PROCEEDING.



INSTALLATION STEPS

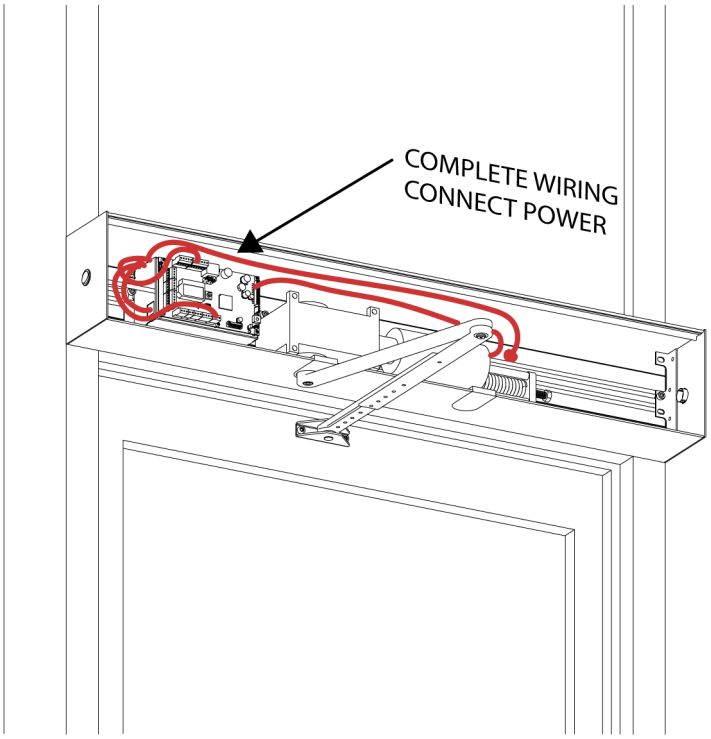
STEP 5:

- PUSH ARM WITH SPINDLE FROM 90° AND ATTACH TO THE SHOE ARM TO LOAD.
- BOLT THE SHOE ARM TO THE SPINDLE ARM. TIGHEN BY HAND.
- ONCE SET, SHOE ARM SHOULD BE AT A 90° TO THE FRAME.



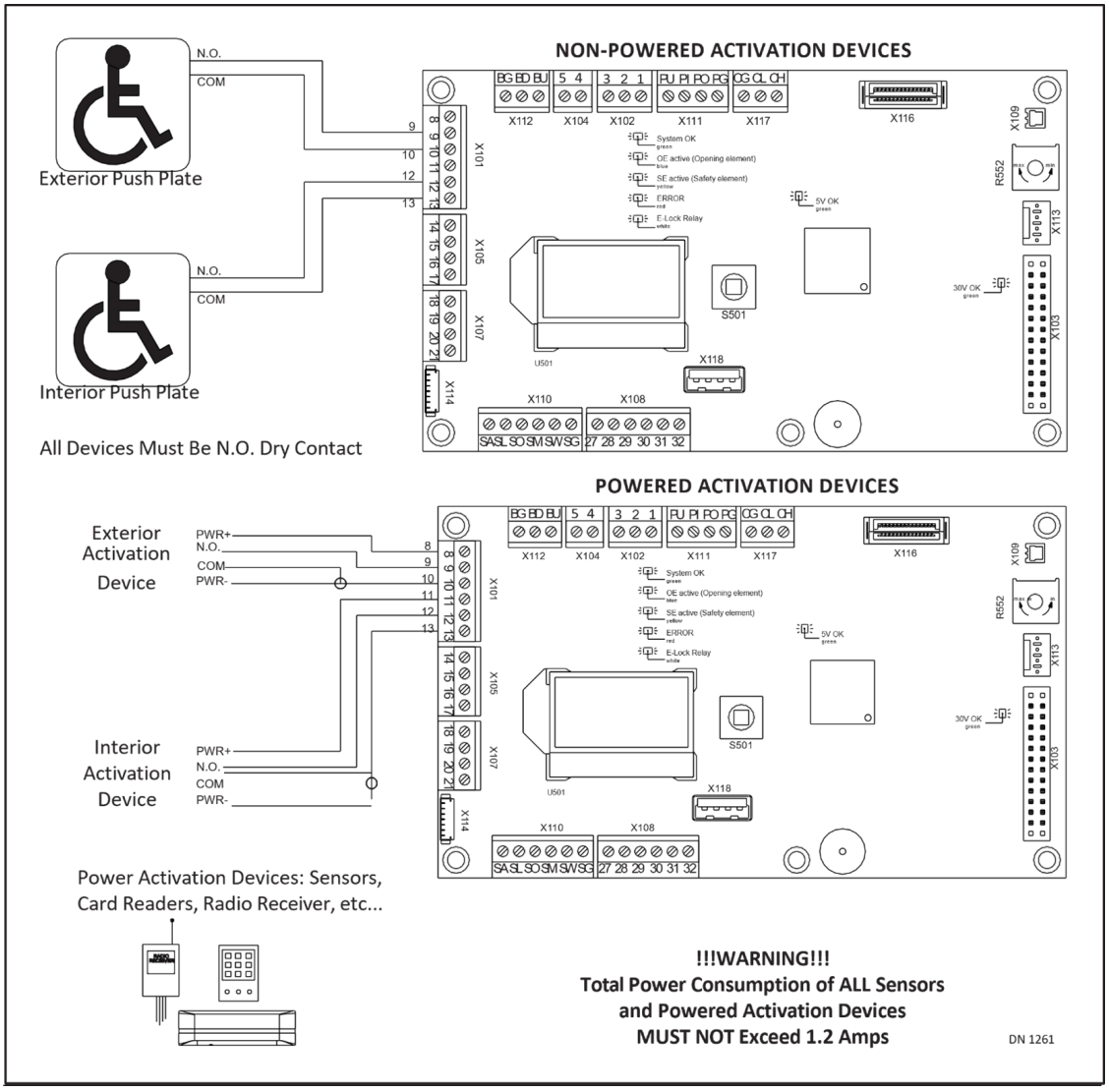
STEP 6:

- **CONNECT WIRING AS PER WIRING DIAGRAM ON FOLLOWING PAGE.**
- ENSURE CABLE PROPER CABLE MANAGEMENT BY USING PROVIDED STICKY BACK CABLE TIES.
- ENSURE ALL CABLES ARE RUNNING AT THE BACK OF ENCLOSURE SO THAT COVER CAN BE INSTALLED WITH-OUT INTERFERENCE.
- CONNECT THE POWER ONCE ALL OTHER DEVICE AND MOTOR WIRES ARE CONNECTED.



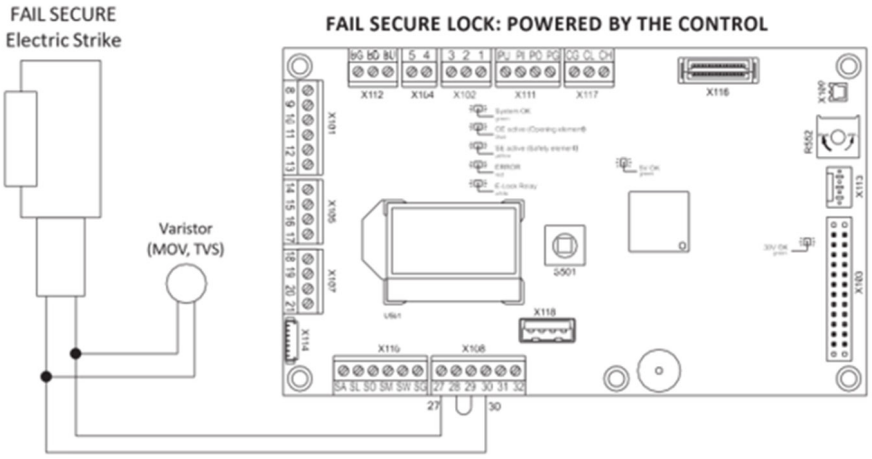
STEP 6 CONTINUED:

- FOLLOW WIRING DIAGRAM FOR EACH TYPE OF INSTALLATION



STEP 6 CONTINUED:

- FAIL SAFE and MAG Locks are wired to Terminal 31 (EL-NC) instead of 30 (EL-NO).
- If the FAIL SECURE Lock has a built-in FeedBack Switch, connect the Feed-Back Switch to Terminals 28 (GND) and 32 (EL-Fb).
- Jumper provided is needed between Terminals 28 (GND) and 29 (EL-COM).
- Power for Lock: 24 VDC (800mA max.)



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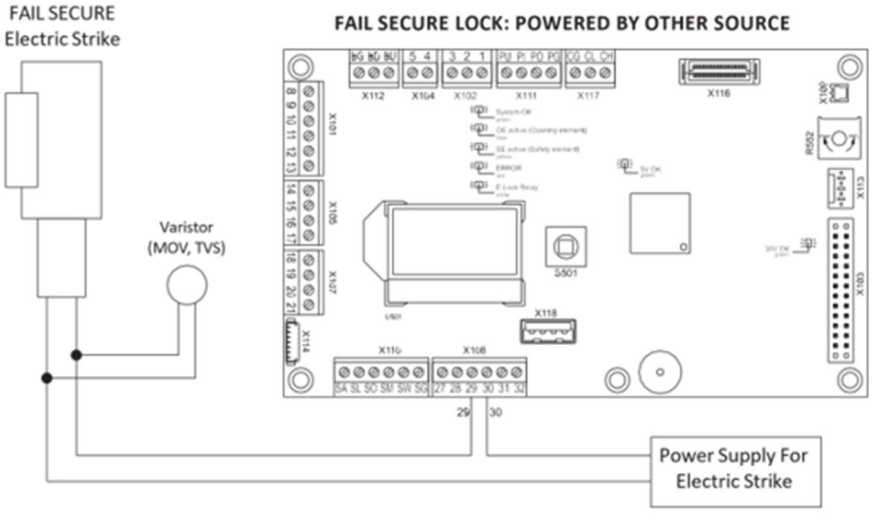
- If the FAIL SECURE Lock has a built-in FeedBack Switch, connect the Feed-Back Switch to Terminals 28 (GND) and 32 (EL-Fb).
- If present, REMOVE the Jumper between Terminals 28 (GND) and 29 (EL-COM).



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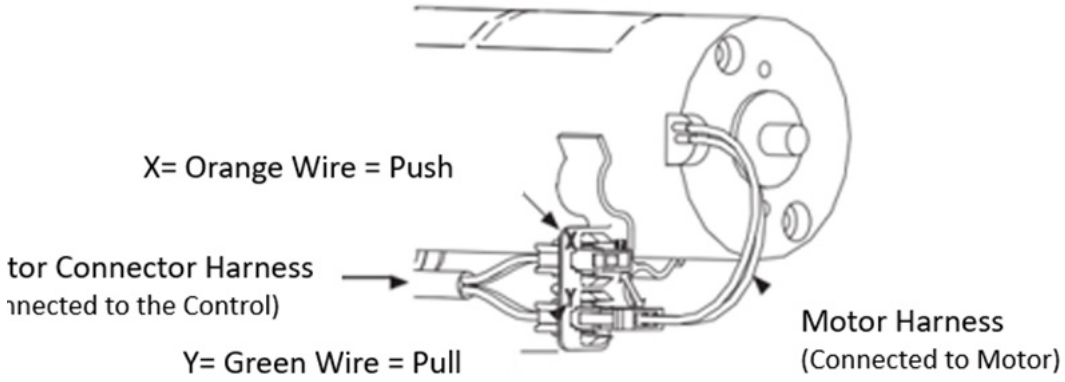
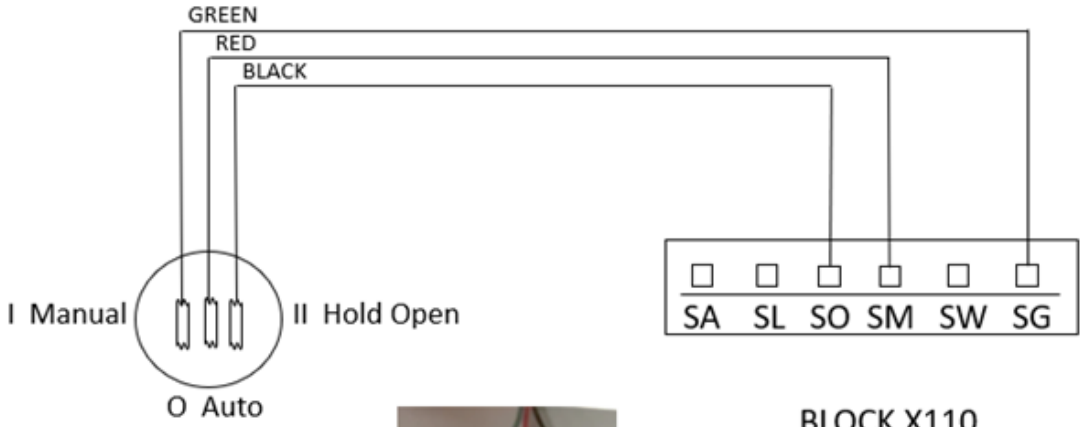
STEP 6 CONTINUED:

- OPERATOR WIRING SHOULD BE CONNECTED FOR A PUSH APPLICATION BY CONNECTING THE MOTOR HARNESS WIRE (X) ORANGE TO THE CONTROL HARNESS AS SHOWN.
- CONNECT ROCKER SWITCH AS SHOWN AND INSTALL ON EITHER SIDE OF ENCLOSURE.
- CONNECT POWER AFTER ALL ACCESSORY WIRING HAS BEEN COMPLETED.

MOTOR CONNECTOR HARNESS



ROCKER/KEY SWITCH SCHEMATIC

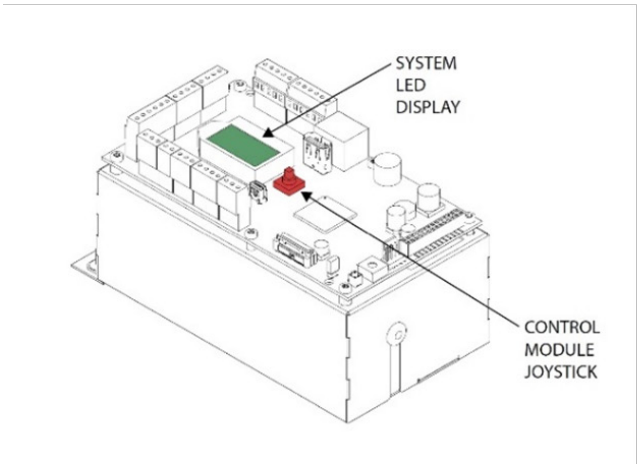


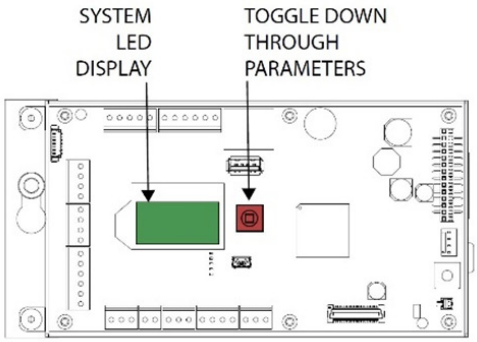
3-FUNCTION SWITCH
(ROCKER ARM TYPE
OR KEY TYPE)

STEP 7:

CONTROL MODULE SET-UP

- AFTER YOU HAVE CONNECTED THE POWER THE LED WITH TURN ON - WAIT FOR SYSTEM TO LIGHT UP.

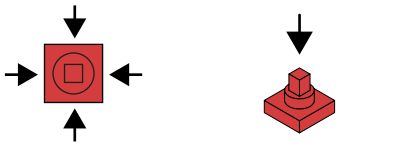




- USING THE JOYSTICK UP, DOWN, LEFT OR RIGHT TO SCROLL THROUGH SYSTEM MENU.
- ↓ DETERMINE WHAT IS DOWN (TOGGLE DOWN)
- → REGION – CHOOSE REGION – US
- → ARM – CHOOSE ARM
  O STD PH (PUSH) (PRESS IN TO ACCPT)
- ↓ **D-AXIS – MEASURE FACE OF DOOR TO CENTRE OF SPINDLE LOCATION AND INPUT APPROXIMATE MEASUREMENT TOGGLE TO DEPTH DIMENSION (PRESS TO ACCEPT)**

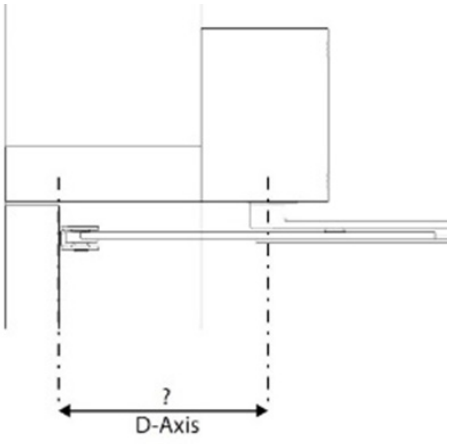
JOYSTICK FUNCTIONS

TOGGLE PUSH TO ACCEPT (O)



D-AXIS

(FACE OF DOOR TO SPINDLE) CENTER)



STEP 7 CONTINUED:

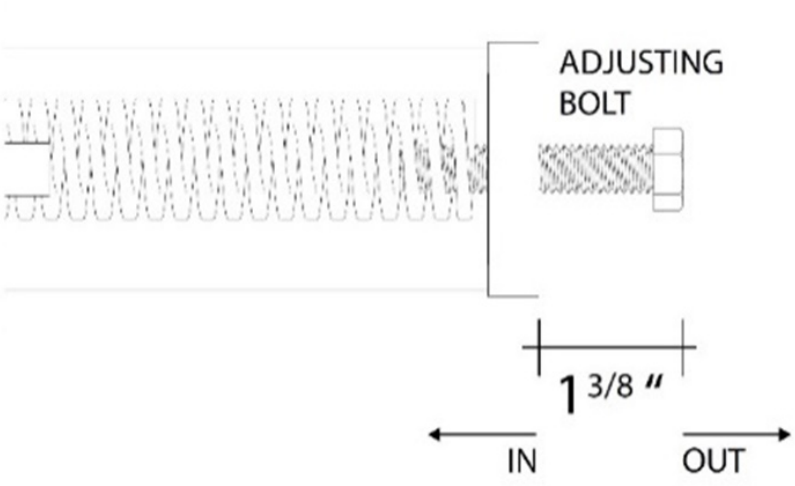
- ↓ **AO:** OPENING DEGREE (RECOMMENDED IS 95 DEGREE)
- → **LOWEN:** CHOOSE LOW ENERGY OR FULL ENERGY.
- → **WIDTH:** SELECT WIDTH OF DOOR.
- → **WEIGHT:** SELECT WEIGHT OF DOOR.
- → **VO:** VELOCITY OPEN OR OPENING SPEED (RECOMMENDED SETTING IS 6).
- → **VC:** VELOCITY CLOSE OR CLOSING SPEED (RECOMMENDED SETTING IS 8).
- → **INVERSE:** OFF/ON (SET TO OFF)
- O **TEACH:** PRESS TOGGLE INWARD (PUSH IN).
- O **TEACH OK:** PRESS TOGGLE INWARD (PUSH IN).
- *TO SKIP 10 SECONDS COUNTDOWN, PRESS TOGGLE DOWNWARD.

>##< EO1 - IMPORTANT: AFTER A SUCCESSFUL TEACH HAS BEEN COMPLETED SCREEN WILL APPEAR AS NOTED. PUSH ONE OF THE ACTIVATION SWITCHES TO FULLY COMPLETE SET-UP. IF NO BUTTONS ARE MOUNTED, GO TO THE DIAGNOSTIC MENU, CYCLE TO SIMULATE KEY, PRESS SIMULATE KEY AND THIS WILL CYCLE THE DOOR TO A FULL OPEN AND A FULL CLOSE.

STEP 8:

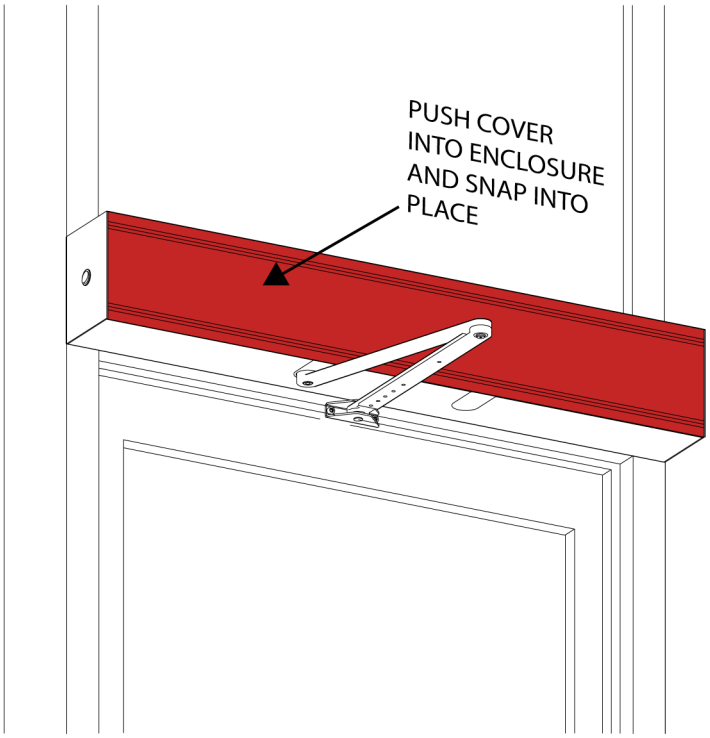
MANUAL CLOSING SPEED

- TO ADJUST THE TENSION OR RESISTANCE ON THE MANUAL OPERATION OF THE DOOR OPENING OR CLOSING, ADJUST THE SPRING BOLT IN FOR MORE TENSION/RESISTANCE AND OUT FOR LESS.
- TO ADJUST LATCH POSITION ON CLOSE, TAKE OFF CAM COVER, USE ALLEN KEY TO MOVE IT. RECOMMENDED THAT ALLEN KEY IS STICKING OUT AT 90 DEGREES.



STEP 9:

- INSTALL COVER PLATE ONTO ENCLOSURE
- COVER WILL SNAP INTO PLACE WHEN SECURE.



Your door is now tuned in and commissioned!

SCAN THE QR CODE BELOW FOR THE INSTALLATION VIDEO FOR ADDITIONAL DETAILS