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ADAEZ® Pro
Pull-Side Operator
Quick-Start Guide

TRADEMARK HARDWARE

ASSA ABLOY
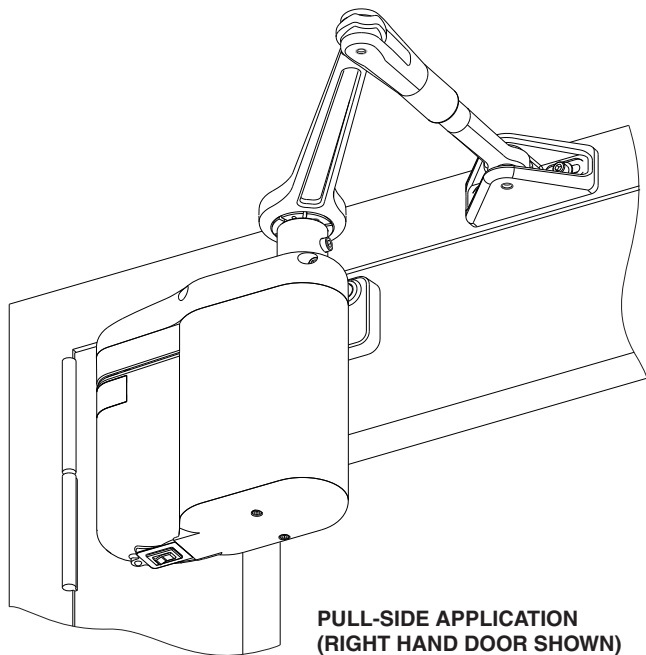
PULL-SIDE APPLICATION
(RIGHT HAND DOOR SHOWN)
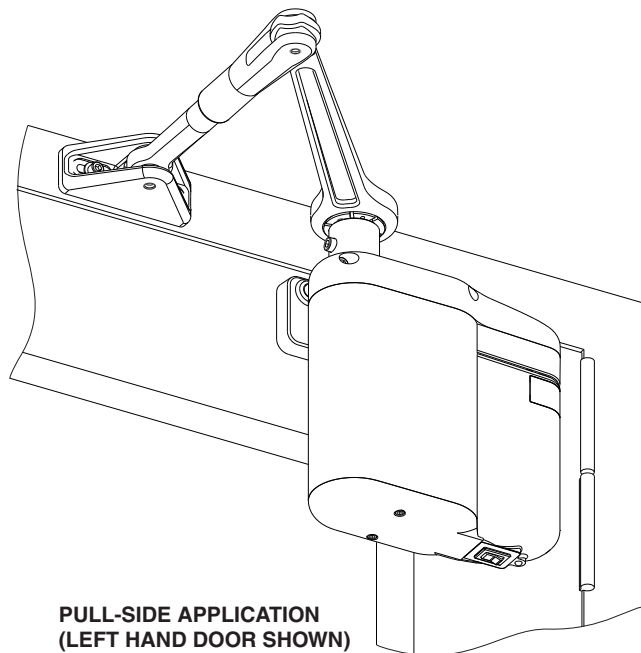
PULL-SIDE APPLICATION
(LEFT HAND DOOR SHOWN)

This manual provides quick-reference instructions for installing and operating the pull-side ADAEZ swing door operator. Prior to performing these instructions thoroughly review the following information in document number 700002, "ADAEZ Pro Installation and Operating Instructions:"

- System Description
- Prerequisites
- Precautions
- Controls and indicators
- Installing the optional plug-in transformer
- Installing the pushbutton switches
- Linking the RF pushbuttons
- Troubleshooting recommendations

- Detailed operator programming instructions
- Replacing the battery pack fuse
- Customizing the operator settings
- Installing door decals
- Detailed closeout instructions
- Wiring
- Replacement parts
- Adjusting door spring tension

To obtain the latest manual and template revisions or to view installation and programming videos go to www.nortondoorcontrols.com. For technical support call 800-438-1951 x 4.

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700302-Rev E   9/18

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1 Installing the Operator Mounting Template

If the door is an aluminum storefront door, EXAMINE the top rail and, when drilling the mounting holes, ENSURE the following:

- **Do not** drill into the top rail web
- **Do not** drill into the rail-to-stile tie rod(s)
- **Do not** drill into the rail-to-stile junction

Refer to Figure 1, and ALIGN the operator mounting template to the centerline of the butt hinge, center pivot, or offset pivot as applicable.

ALIGN LINE ON TEMPLATE
WITH BOTTOM OF FRAME
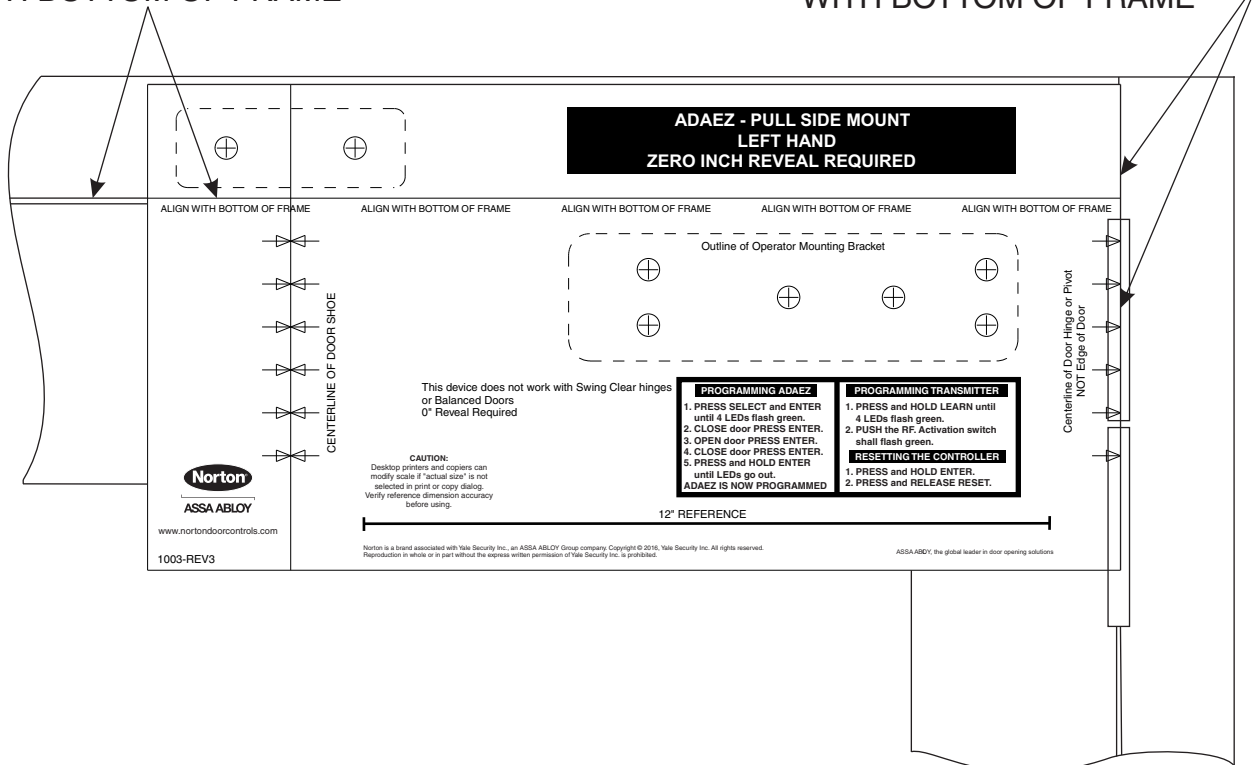
ALIGN LINE ON TEMPLATE
WITH BOTTOM OF FRAME

ADAEZ - PULL SIDE MOUNT
LEFT HAND
ZERO INCH REVEAL REQUIRED

ALIGN WITH BOTTOM OF FRAME   ALIGN WITH BOTTOM OF FRAME   ALIGN WITH BOTTOM OF FRAME   ALIGN WITH BOTTOM OF FRAME   ALIGN WITH BOTTOM OF FRAME

CENTERLINE OF DOOR SHOE

Outline of Operator Mounting Bracket

Centerline of Door Hinge or Pivot
NOT Edge of Door

This device does not work with Swing Clear hinges
or Balanced Doors
0" Reveal Required

CAUTION:
Desktop printers and copiers can
modify scale if "actual size" is not
selected in print or copy dialog.
Verify reference dimension accuracy
before using.

PROGRAMMING ADAEZ
1. PRESS SELECT and ENTER
until 4 LEDs flash green.
2. CLOSE door PRESS ENTER.
3. OPEN door PRESS ENTER.
4. CLOSE door PRESS ENTER.
5. PRESS and HOLD ENTER
until LEDs go out.
ADAEZ IS NOW PROGRAMMED

PROGRAMMING TRANSMITTER
1. PRESS and HOLD LEARN until
4 LEDs flash green.
2. PUSH the RF. Activation switch
shall flash green.

RESETTING THE CONTROLLER
1. PRESS and HOLD ENTER.
2. PRESS and RELEASE RESET.

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1003-REV3

12" REFERENCE

Figure 1

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2   Mounting the Door Shoe

If the door frame is steel or aluminum and rivnuts must be installed, refer to Figure 2 and PERFORM the following:
   a.   Using a 25/64" drill, DRILL the door arm pivot bracket holes.
   b.   Using a rivnut tool, INSTALL the ¼-20 steel rivnuts.
   c.   INSTALL and TIGHTEN the two (minimum) ¾" socket head capscrews with washers) securing the door arm pivot bracket to the underside and face of the frame header.

If the door frame is wood, refer to Figure 2 and PERFORM the following:
   a.   Using a 5/32" drill, DRILL the door arm pivot bracket pilot holes.
   b.   INSTALL and TIGHTEN the three #14 x 1 ¼" wood screws (minimum) securing the door arm pivot bracket to the underside and face of the frame header.
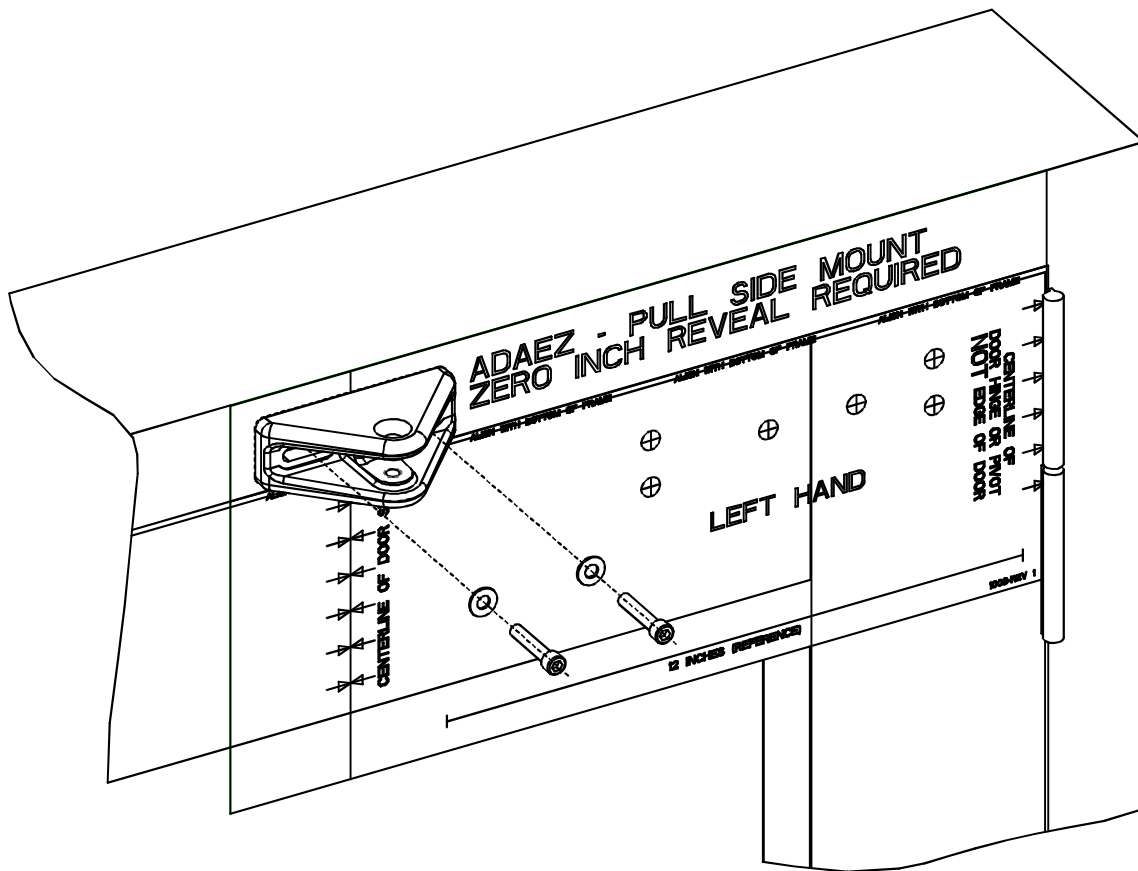

Figure 2

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3 Installing the Operator Mounting Bracket and Cover

CAUTION

For light-duty or hollow-core doors with insufficient top rail blocking, through bolts or sex nut and bolts are required to securely attach the operator mounting bracket.

To ensure proper installation, the operator must be fastened with **at least** four fasteners. For heavier doors more fasteners are recommended.

If door is aluminum and rivnuts must be installed, refer to Figure 3 and PERFORM the following:

    a.   Using a 25/64" drill, DRILL the mounting bracket holes.

    b.   Using a rivnut tool, INSTALL the ¼-20 steel rivnuts.

    c.   INSTALL and TIGHTEN the four (minimum) ¾" socket head capscrews with black oxide washers) securing the operator mounting bracket.

If door is wood, refer to Figure 3 and PERFORM the following:

    a.   Using a 5/32" drill, DRILL the mounting bracket pilot holes.

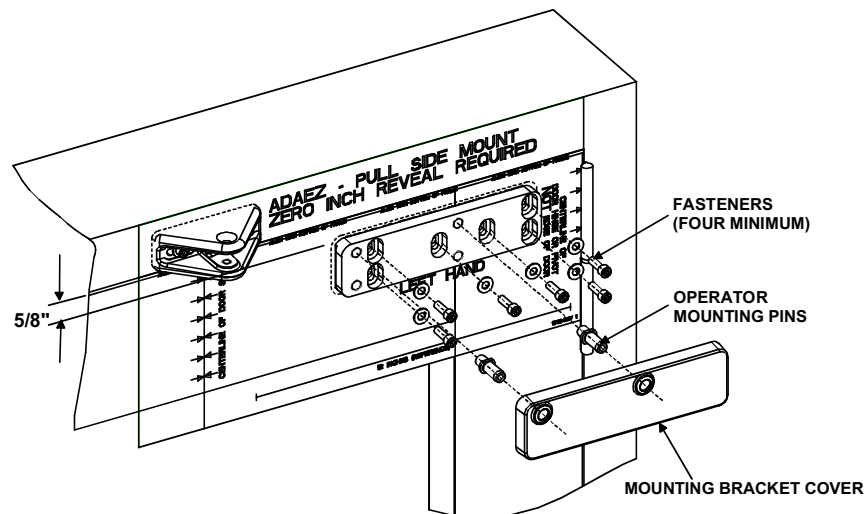   b.   INSTALL and TIGHTEN the four #14 x 1 ¼" wood screws (minimum) securing the operator mounting bracket.

Figure 3

1. ADJUST the bracket so that there is a 5/8" (16mm) space between the top of the bracket and the top of the door.

2. TIGHTEN the socket head capscrews securing the mounting bracket to the door.

3. Using a 7/16" (11.112mm) box wrench or large adjustable wrench, TIGHTEN the operator mounting pins into the upper threaded holes in the mounting bracket.

4. INSTALL the operator mounting bracket cover over the operator mounting bracket.

4 Installing the Door Operator

WARNING

To avoid inadvertent activation of the operator during connection of the door arm, the battery pack should not be installed until after the door arm is connected.

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1. REMOVE the dress cover from the operator.

2. Refer to Figure 4, and, with the battery pack facing the jamb, POSITION the operator onto the operator mounting pins. ENSURE operator does not slide off the mounting pins.

3. INSTALL and TIGHTEN the two ¼-20 X 1½ socket head capscrews securing the operator to the operator mounting pins.
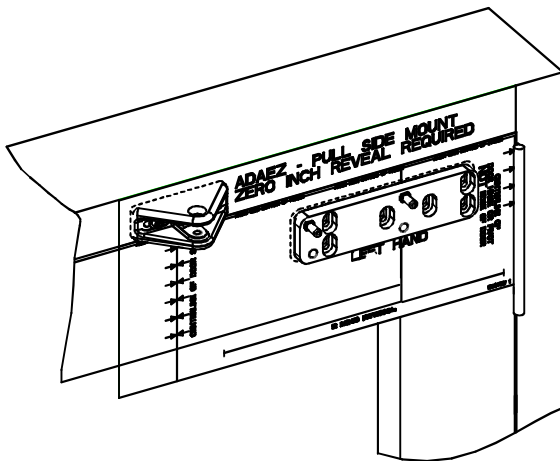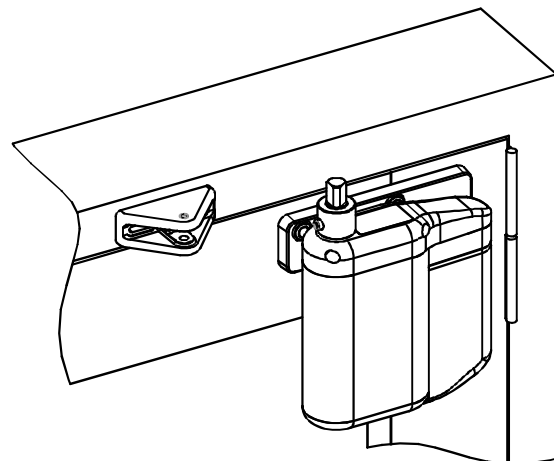
Figure 4

5   Installing the Door Arm

1. Refer to Figure 5, and INSTALL shaft extension onto operator shaft.

2. TIGHTEN set screw securing shaft extension to operator shaft.

3. Refer to Figure 6, and ADJUST door arm length to 8-1/16" (204.77 mm).

4. Refer to Figure 7, and, with the door arm coupling screws facing up, POSITION the larger end of the door arm onto the operator output shaft.
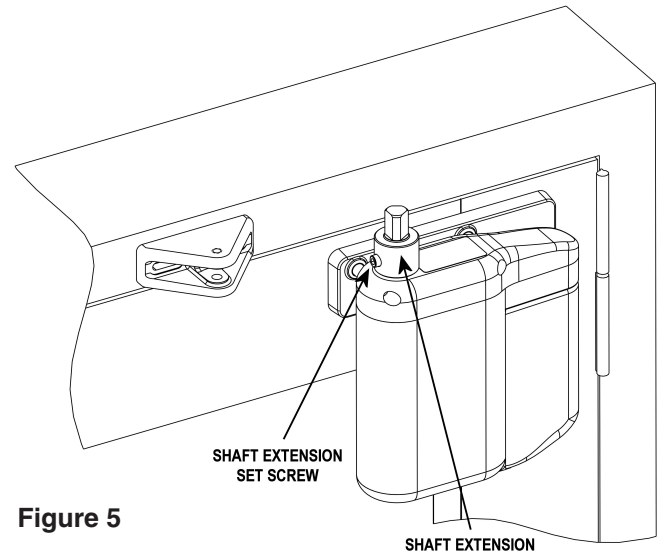
SHAFT EXTENSION
SET SCREW

SHAFT EXTENSION

Figure 5

CAUTION
The door arm coupling is a two-piece tapered coupling. To draw the coupling halves together evenly the three door arm coupling screws must be tightened evenly (one quarter turn at a time) until fully tight.
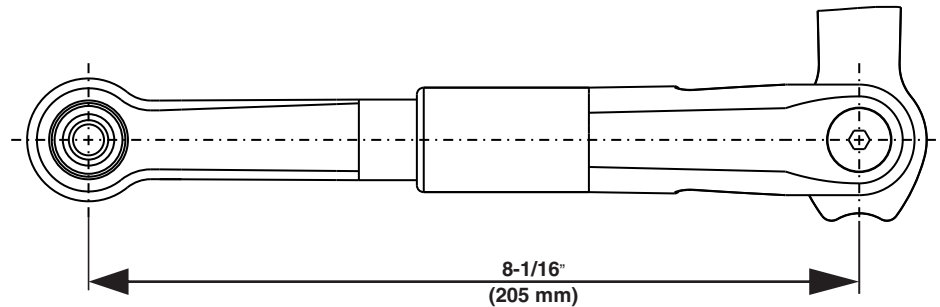
8-1/16"
(205 mm)

Figure 6

5. While maintaining the door arm position, TIGHTEN the door arm coupling screws evenly (one quarter turn at a time) until fully tight.

6. INSTALL the 5/16 – 18 flat head screw into the door shoe mounting bracket to secure the door arm.

7. CYCLE the door several times, and ENSURE that the door opens and closes smoothly.

8. SLIDE the dress cover onto the operator.

9. CONNECT the battery pack connector plug to the operator.

10. SLIDE the battery pack onto the operator, and ENSURE that the battery pack wires will not interfere with the operator cover.
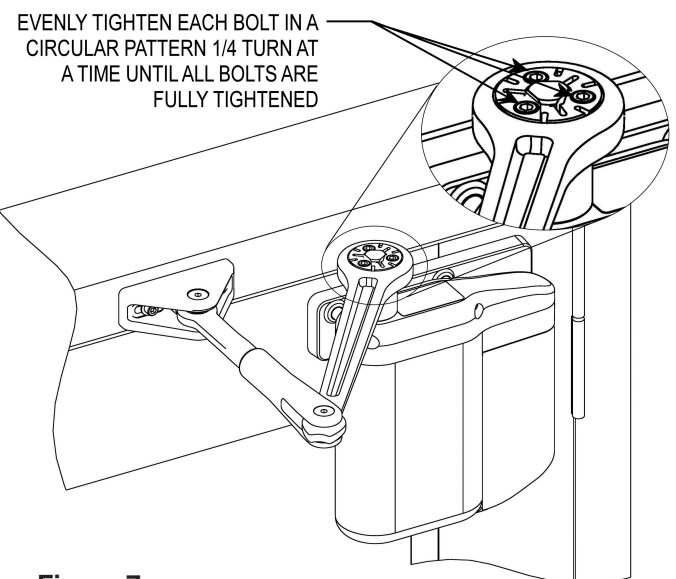
EVENLY TIGHTEN EACH BOLT IN A
CIRCULAR PATTERN 1/4 TURN AT
A TIME UNTIL ALL BOLTS ARE
FULLY TIGHTENED

Figure 7

6   Installing the Optional Plug-In Transformer

NOTE
If possible, the transformer wiring should be routed against the door trim molding.

1. ROUTE transformer wiring to a 110-VAC outlet, but do not plug transformer into the outlet.

NOTE
An optional plug-in transformer is recommended in installations where the automatic door-opening feature will be used frequently. The optional plug-in transformer is REQUIRED for installations where Power Close and/or Push and Go features are enabled.

2. Refer To Figure 8, and ROUTE wires through armored cable end links. MOUNT the door cord end links as follows:
   • MOUNT one end link in the area behind or next to the battery pack.
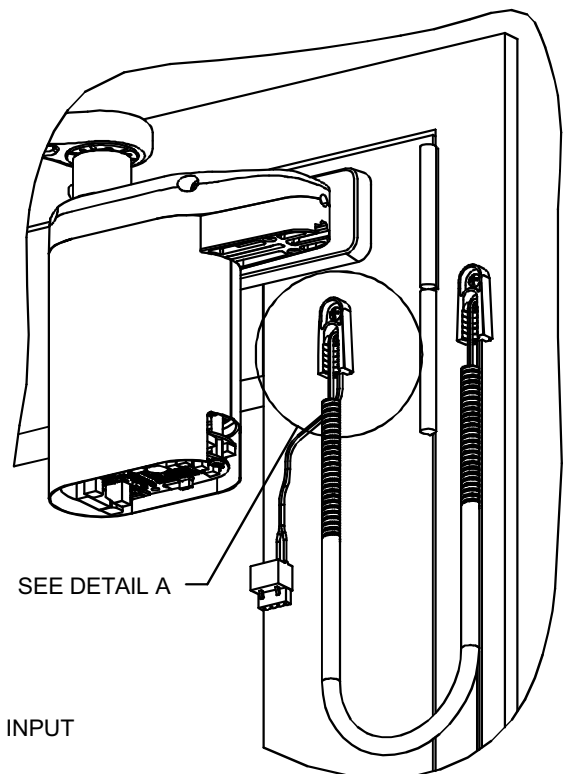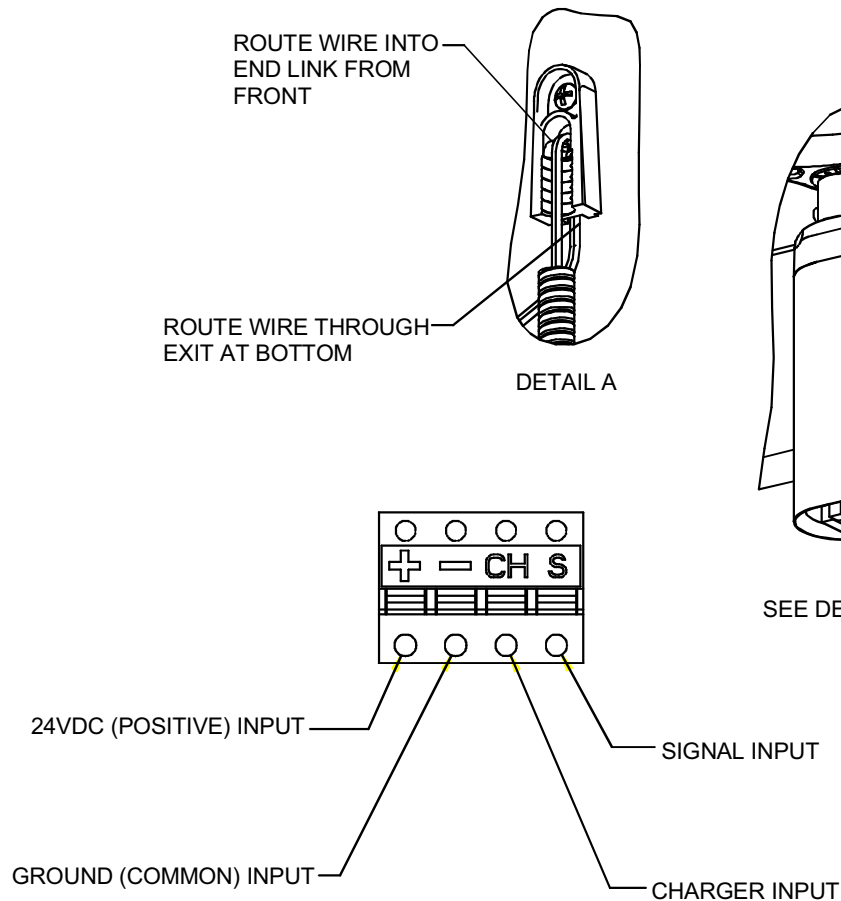   • MOUNT the other end link on or next to the door frame.

ROUTE WIRE INTO END LINK FROM FRONT

ROUTE WIRE THROUGH EXIT AT BOTTOM

DETAIL A

SEE DETAIL A

CH S

24VDC (POSITIVE) INPUT

SIGNAL INPUT

GROUND (COMMON) INPUT

CHARGER INPUT

Figure 8

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6   **Installing the Optional Plug-In Transformer con't**

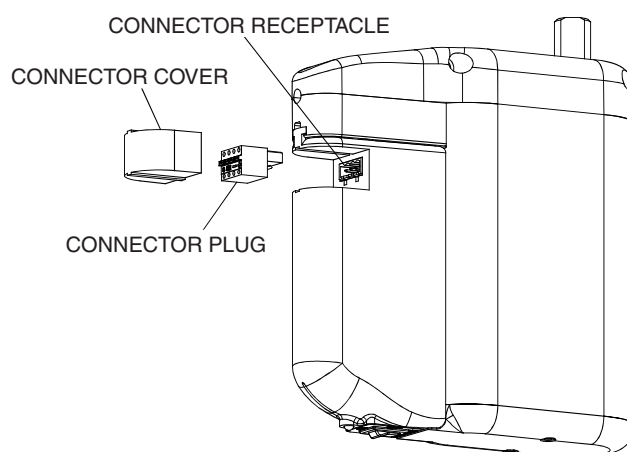3. Refer to Figure 9, and PLUG connector into receptacle on battery pack.

CONNECTOR RECEPTACLE

CONNECTOR COVER

CONNECTOR PLUG

Figure 9

4. Refer to Figure 10, and VERIFY that the LED indicator lights GREEN.

LED INDICATOR
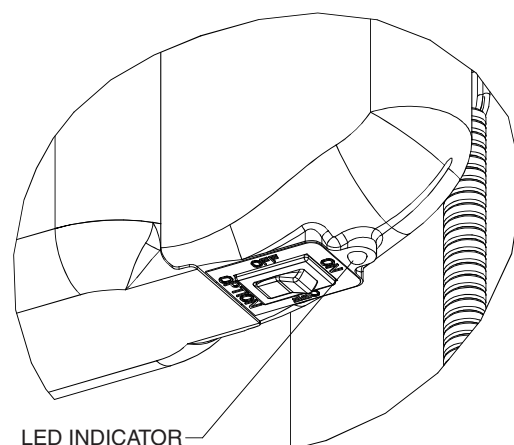
Figure 10

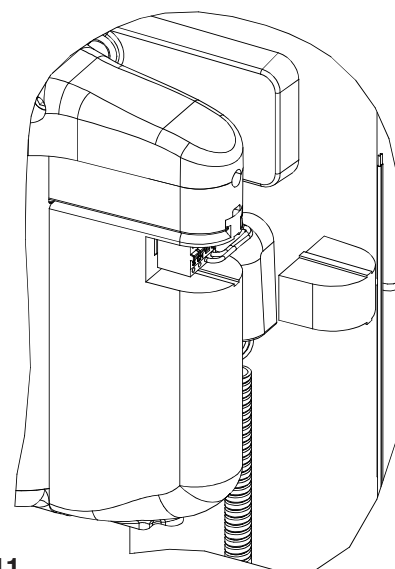5. Refer To Figure 11, and INSTALL receptacle cover onto battery pack.

Figure 11

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7 Programming the Operator

CLOSE POSITION

SELECT LEARN

OPEN POSITION

ENTER RESET

AUTO SETUP

OPTIONS

PC PG DB LA

1 2 3 4

OPEN & CLOSE TIME
OPEN & PWR CLOSE
FORCE
HOLD OPEN/
EXECUTIVE

**TUNING
POTENTIOMETER**

**OPTIONS:
POWER CLOSE
PUSH & GO
DYNAMIC BRAKING
LATCH ASSIST**
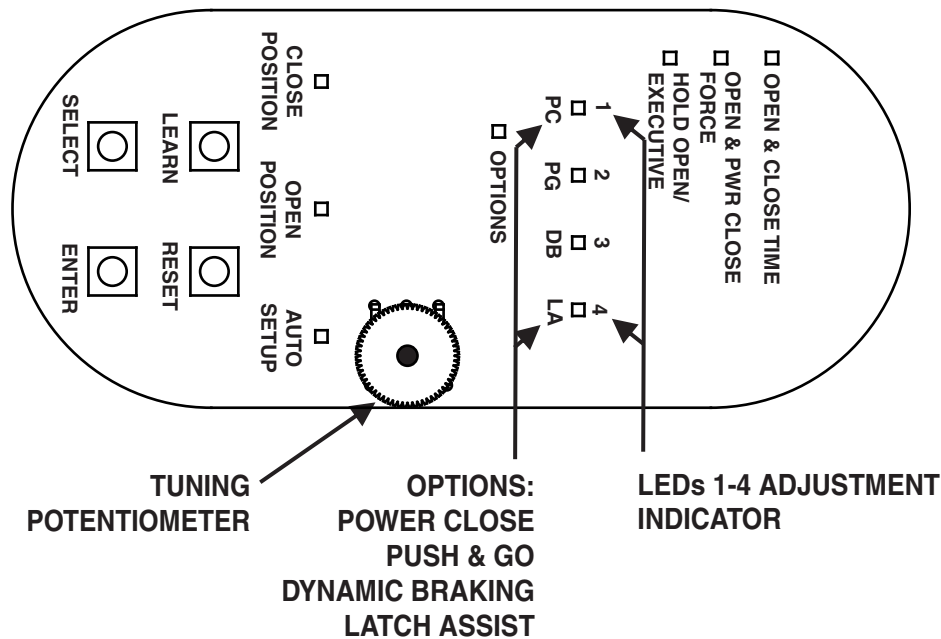
**LEDs 1-4 ADJUSTMENT
INDICATOR**

Figure 12

1.   Refer to Figure 12 and, at the base of the setup board, PRESS and HOLD both "SELECT" and "ENTER" pushbuttons until LEDs 1 through 4 flash. The following shall occur:
   • The operator shall enter program mode.
   • The "CLOSE POSITION" LED shall illuminate red and remain lit.

2.   With the door in the closed position, PRESS and RELEASE the "ENTER" pushbutton. The following shall occur:
   • The "CLOSE POSITION" LED shall flash green briefly.
   • The "OPEN POSITION" LED shall illuminate red.

3.   With the door in the fully open position, PRESS and RELEASE the "ENTER" pushbutton. If the ENTER button is not accessible with the door in the fully open position, PRESS and RELEASE one of the activation pushbuttons. The following shall occur:
   • The "OPEN POSITION" LED shall flash green briefly.
   • The "AUTO SETUP" LED shall illuminate red.

4.   With the door in the closed position, PRESS and RELEASE the "ENTER" pushbutton. The following shall occur:
   • The door shall rapidly open 30 to 45 degrees and then close.
   • The "AUTO SETUP" led shall illuminate green.
   • The Operator will exit programming mode.

5.   If further door adjustments are desired or optional features will be enabled refer to Section 11, and PERFORM adjustments.

6.   To reset the controller, PERFORM the following:
   •   PRESS and HOLD the "ENTER" button,
   •   While holding down the "ENTER" button PRESS and RELEASE the "RESET" button.
   •   LEDs 1 through 4 shall flash green briefly

NOTE: Resetting the controller does not reset the RF transmitters.

8   Initializing the Remote Control

1. To link an RF switch with a door controller, PERFORM the following:
   a. PRESS and HOLD the "LEARN" pushbutton on the controller until LEDs 1 through 4 flash green. The controller shall remain in the learn mode for 20 seconds or until the RF signal is received.
   b. PUSH the RF pushbutton. CLOSE POSITION LED shall flash green indicating that the operator accepted this RF pushbutton.
   c. REPEAT steps a. and b. as necessary for up to eight ADAEZ transmitters.

2. To remove all RF pushbuttons from memory, PERFORM the following:
   a. While pressing and holding the "LEARN" pushbutton on the controller, PRESS and RELEASE the "RESET" pushbutton.