Quick-Start Guide

ada ez
WIRE FREE DOOR OPENER

ADA EZ Pro
Pull-Side Operator Quick-Start Guide
700302
Rev. A, 10/14/12

PULL-SIDE APPLICATION
(RIGHT HAND DOOR SHOWN)

PULL-SIDE APPLICATION
(LEFT HAND DOOR SHOWN)

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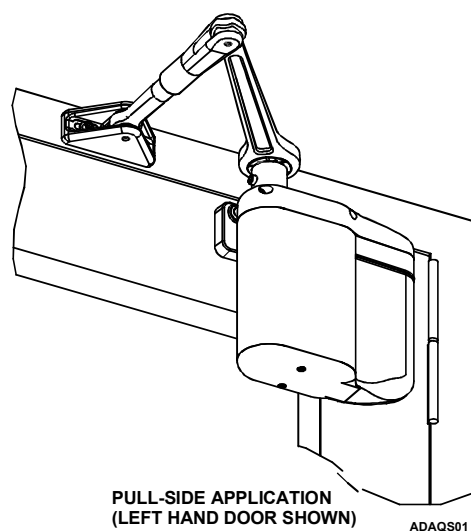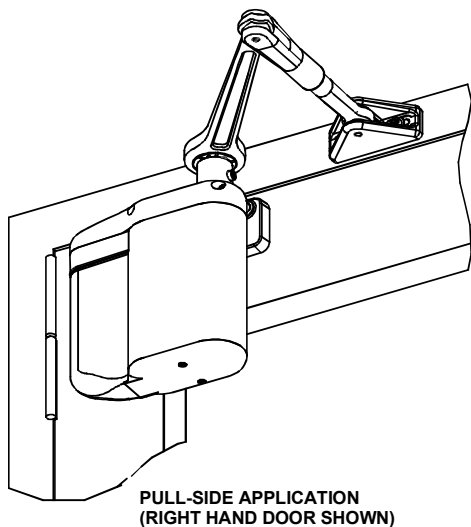
This manual provides quick-reference instructions for installing and operating the pull-side ADA EZ swing door operator. Prior to performing these instructions thoroughly review the following information in document number 70002, "ADA EZ Pro Installation and Operating Instructions:"

- 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.ADAEZ.com. For technical support call (877) 232-3987.
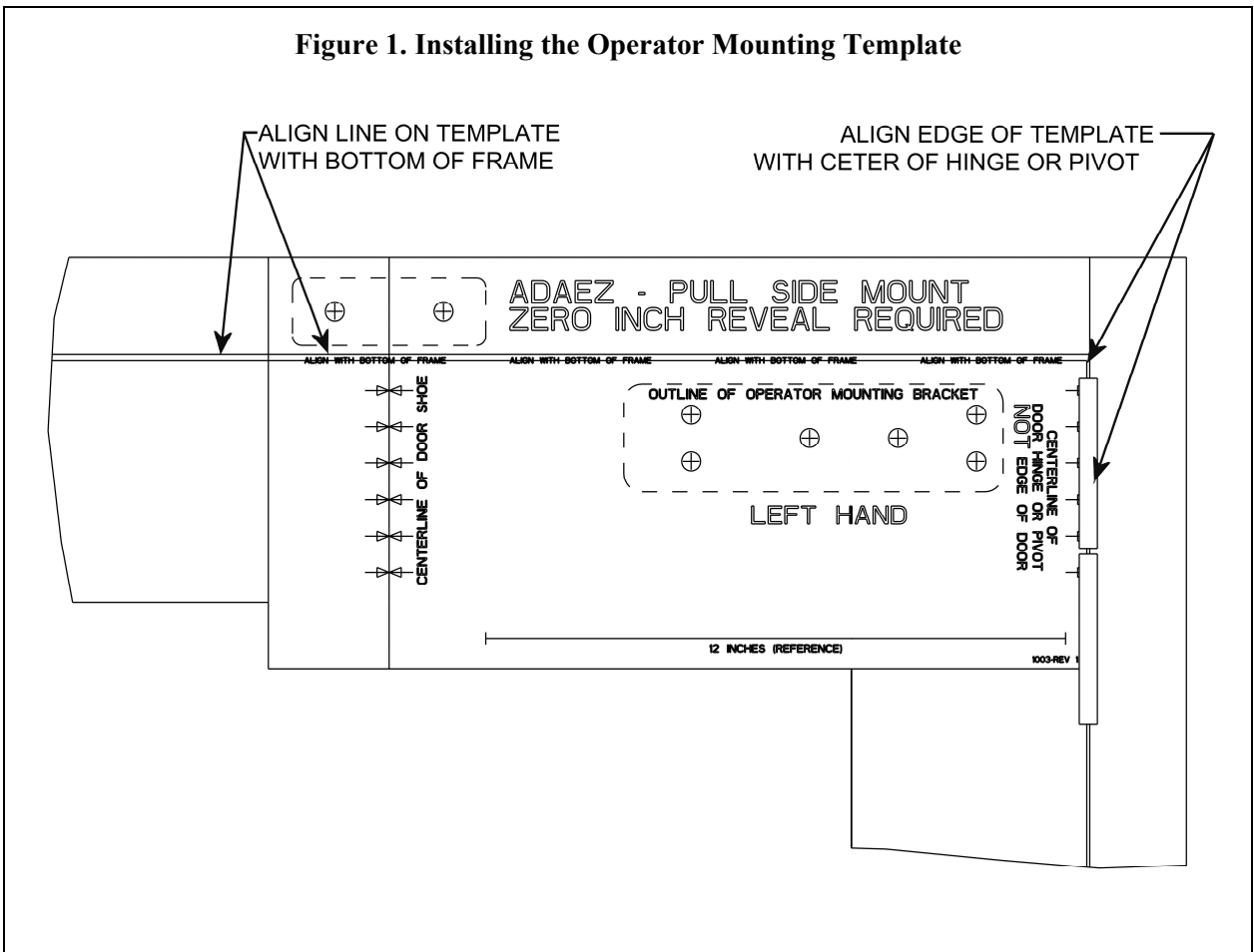
Quick-Start Guide

TABLE OF CONTENTS

1.1   Installing the Operator Mounting Template

1.1.1   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

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

Figure 1. Installing the Operator Mounting Template

ALIGN LINE ON TEMPLATE
WITH BOTTOM OF FRAME

ALIGN EDGE OF TEMPLATE
WITH CETER OF HINGE OR PIVOT

ADAEZ - PULL SIDE MOUNT
ZERO INCH REVEAL REQUIRED

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 NOT EDGE OF DOOR PIVOT OR

LEFT HAND

12 INCHES (REFERENCE)

1003-REV 1

1.2 Mounting the Door Shoe

1.2.1 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″ (19.05 mm) socket head capscrews with washers) securing the door arm pivot bracket to the underside and face of the frame header.

1.2.2 If the door frame is wood, refer to Figure 2 and PERFORM the following:

    a. Using a $^{5}/_{32}''$ (3.97 mm) 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. Mounting the Door Shoe

ADAEZ - PULL SIDE MOUNT
ZERO INCH REVEAL REQUIRED

LEFT HAND
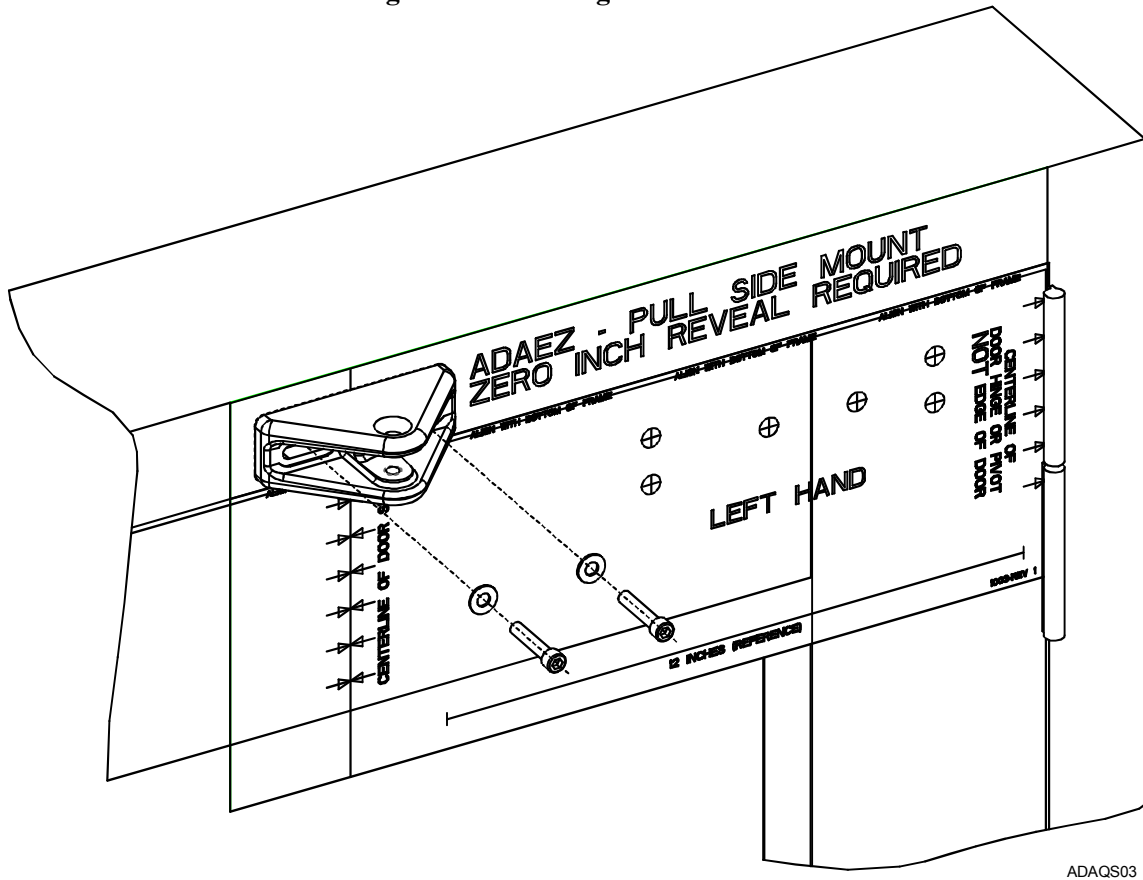
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1.3   Installing the Operator Mounting Bracket and Cover

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.

1.3.1   If the 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″ (19.05 mm) socket head capscrews (with black oxide washers) securing the operator mounting bracket.

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

    a.   Using a $^{5}/_{32}$″ (3.97 mm) 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.

1.3.3   ADJUST the bracket so that there is a $^{5}/_{8}$″ (16mm) space between the top of the bracket and the top of the door.

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

1.3.5   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.

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

Figure 3. Installing the Operator Mounting Bracket and Cover
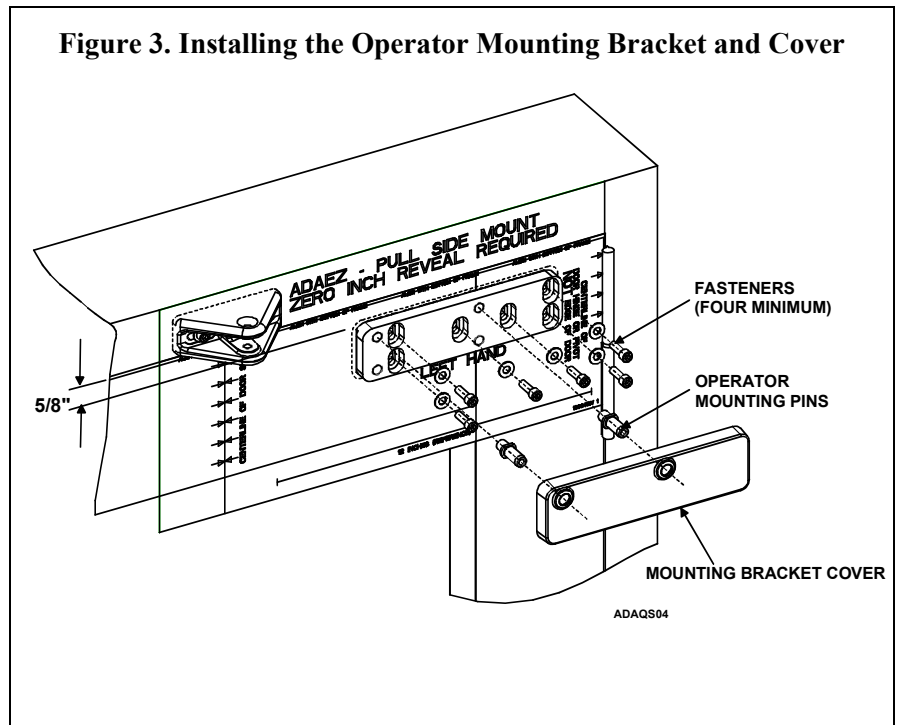
1.4   Installing the Door Operator

1.4.1   REMOVE the dress cover from the 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.

1.4.2   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.

Figure 4. Installing the Operator

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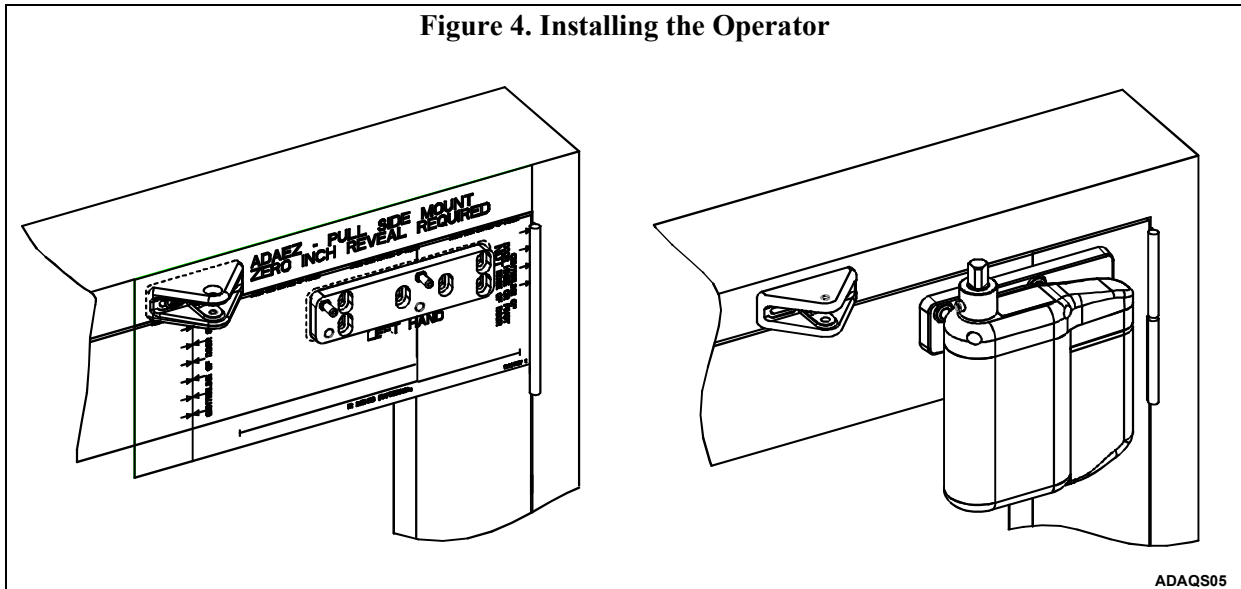
1.4.3   INSTALL and TIGHTEN the two ¼-20 X 1½″ socket head capscrews securing the operator to the operator mounting pins.

1.5   Installing the Door Arm

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

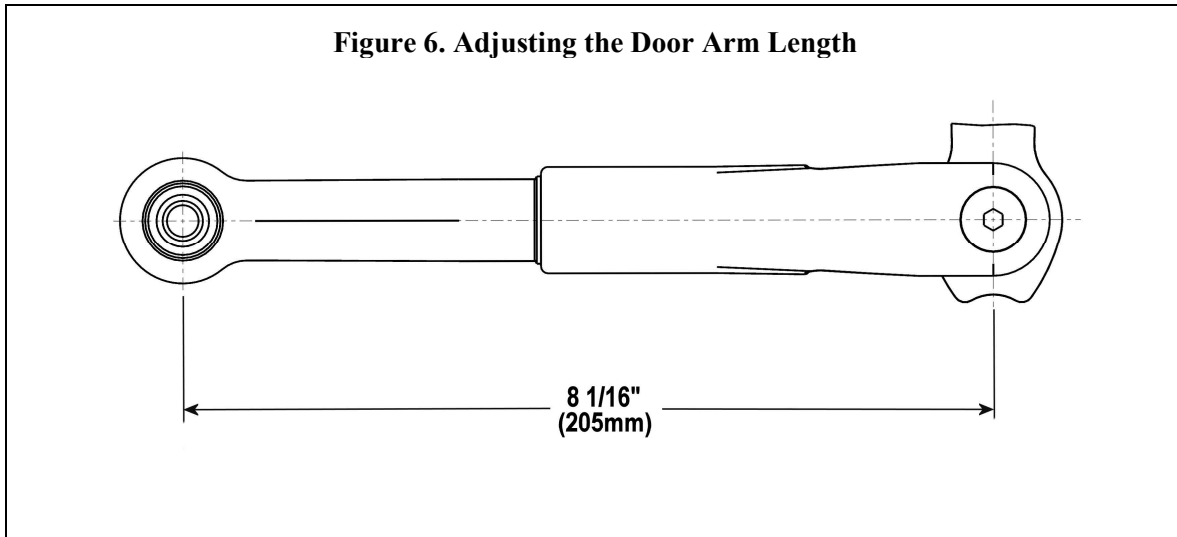1.5.2   TIGHTEN set screw securing shaft extension to operator shaft.

Figure 5. Installing the Shaft Extension

SHAFT EXTENSION SET SCREW

SHAFT EXTENSION
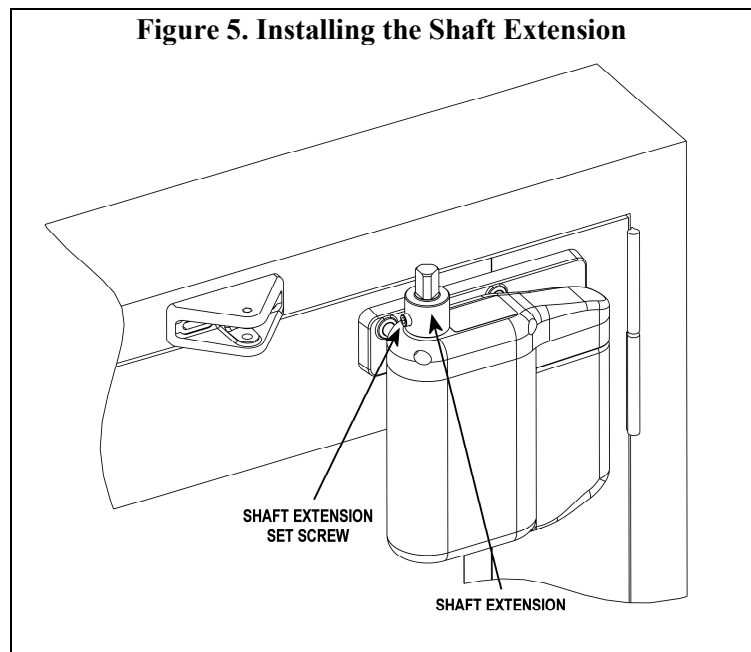
1.5.3   Refer to Figure 6, and ADJUST door arm length to 8 $\frac{1}{16}$″ (204.77 mm).

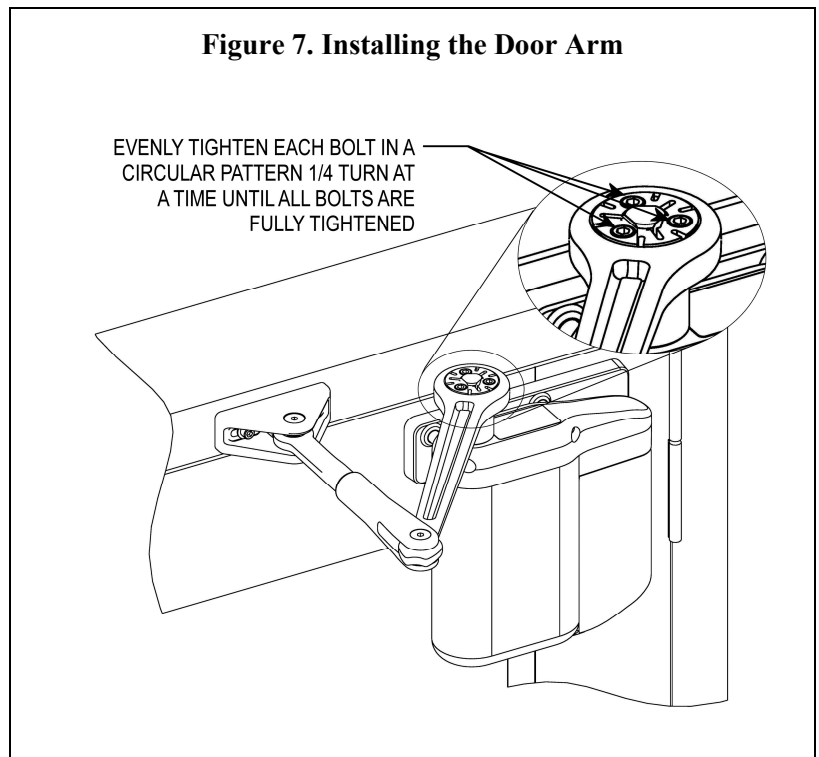**Figure 6. Adjusting the Door Arm Length**

8 1/16"
(205mm)

1.5.1   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.

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.

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

1.5.3   INSTALL the $\frac{5}{16}$ – 18 flat head screw into the door shoe mounting bracket to secure the door arm.

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

1.5.5   SLIDE the dress cover onto the operator.

1.5.6   CONNECT the battery pack connector plug to the operator.

1.5.7   SLIDE the battery pack onto the operator, and ENSURE that the battery pack wires will not interfere with the operator cover.

Figure 7. Installing the Door Arm

EVENLY TIGHTEN EACH BOLT IN A
CIRCULAR PATTERN 1/4 TURN AT
A TIME UNTIL ALL BOLTS ARE
FULLY TIGHTENED

1.6 Installing the Optional Plug-In Transformer

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

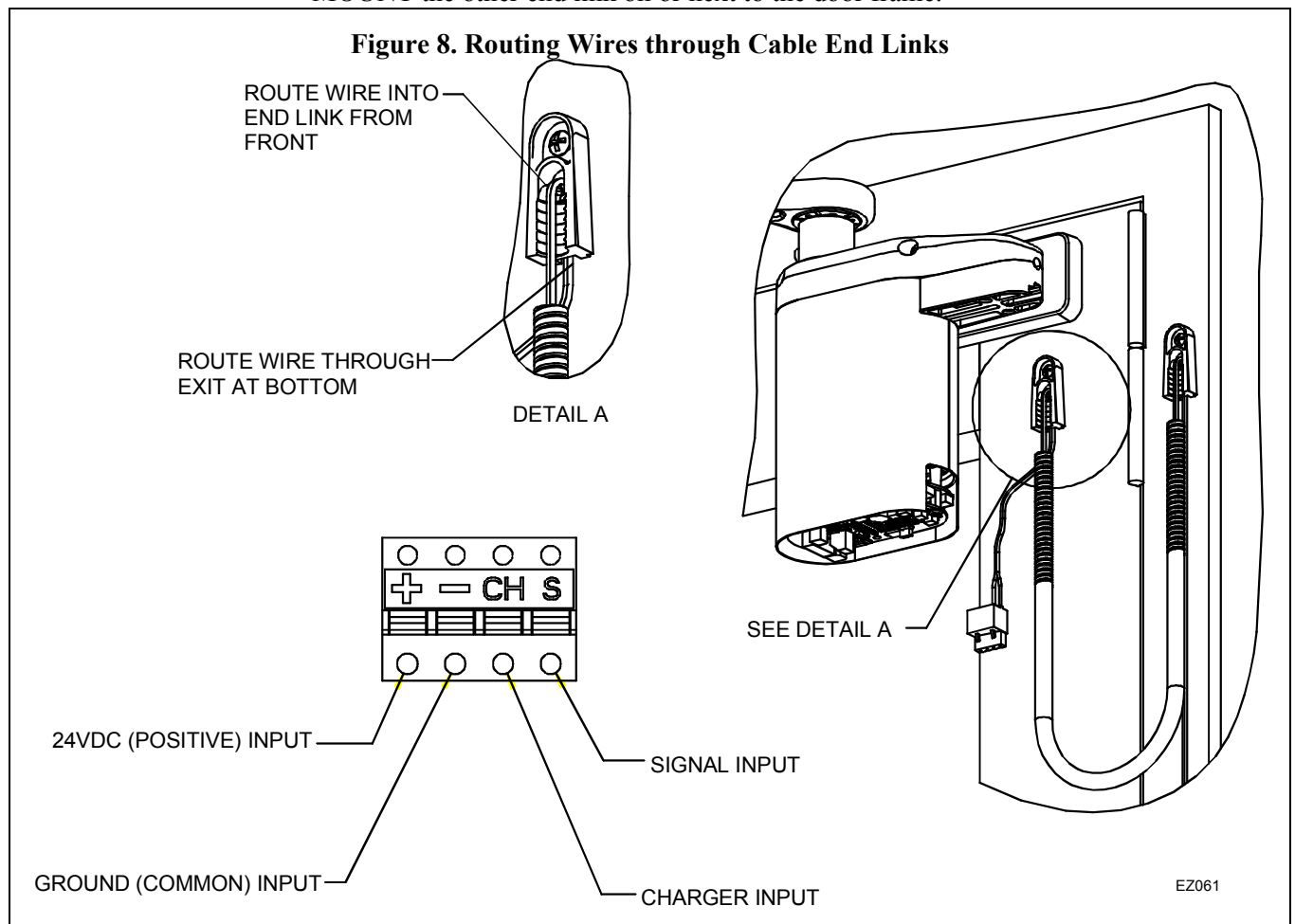1.6.1 ROUTE transformer wiring to a 110-VAC outlet, but do *not* plug transformer into the outlet.

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.

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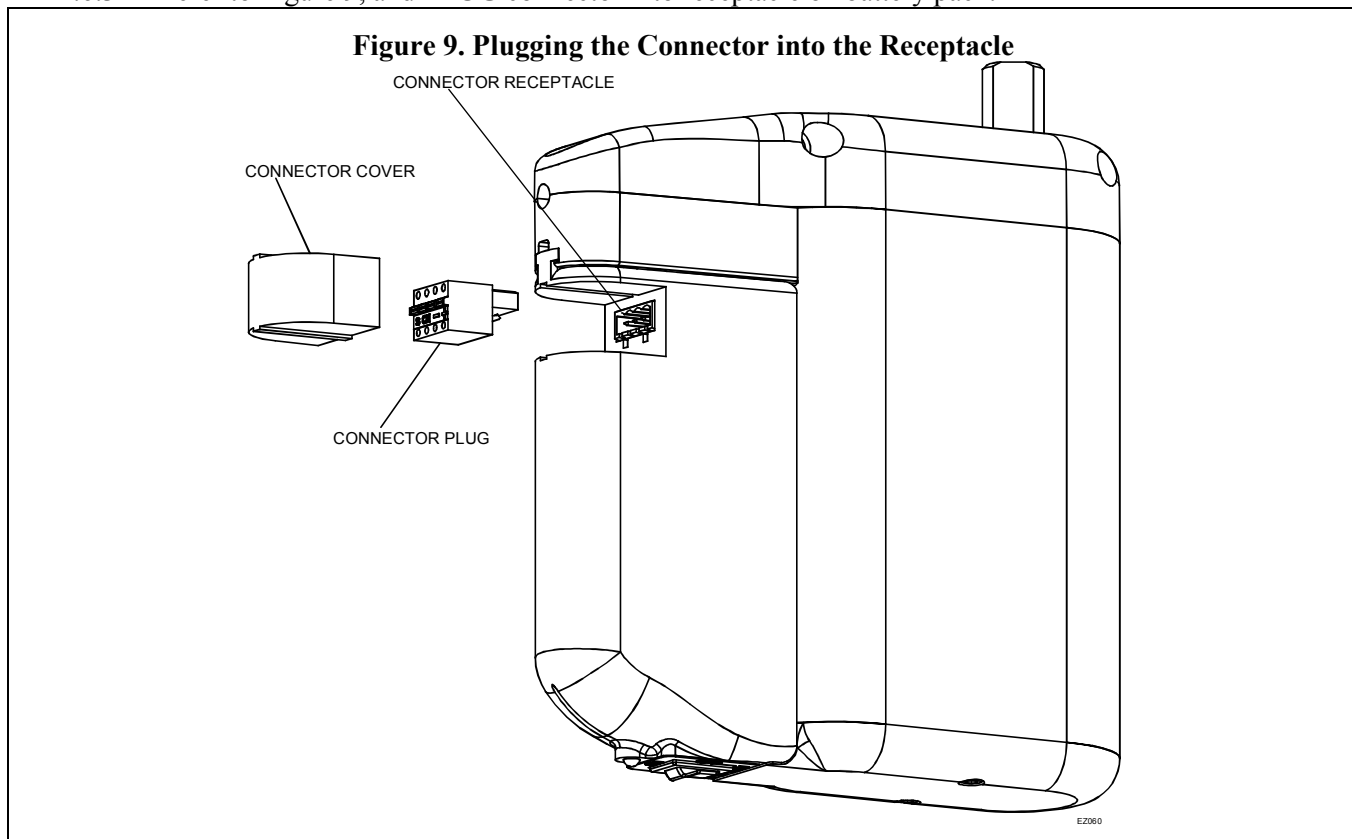
- MOUNT one end link in the area behind or next to the battery pack.

- MOUNT the other end link on or next to the door frame.

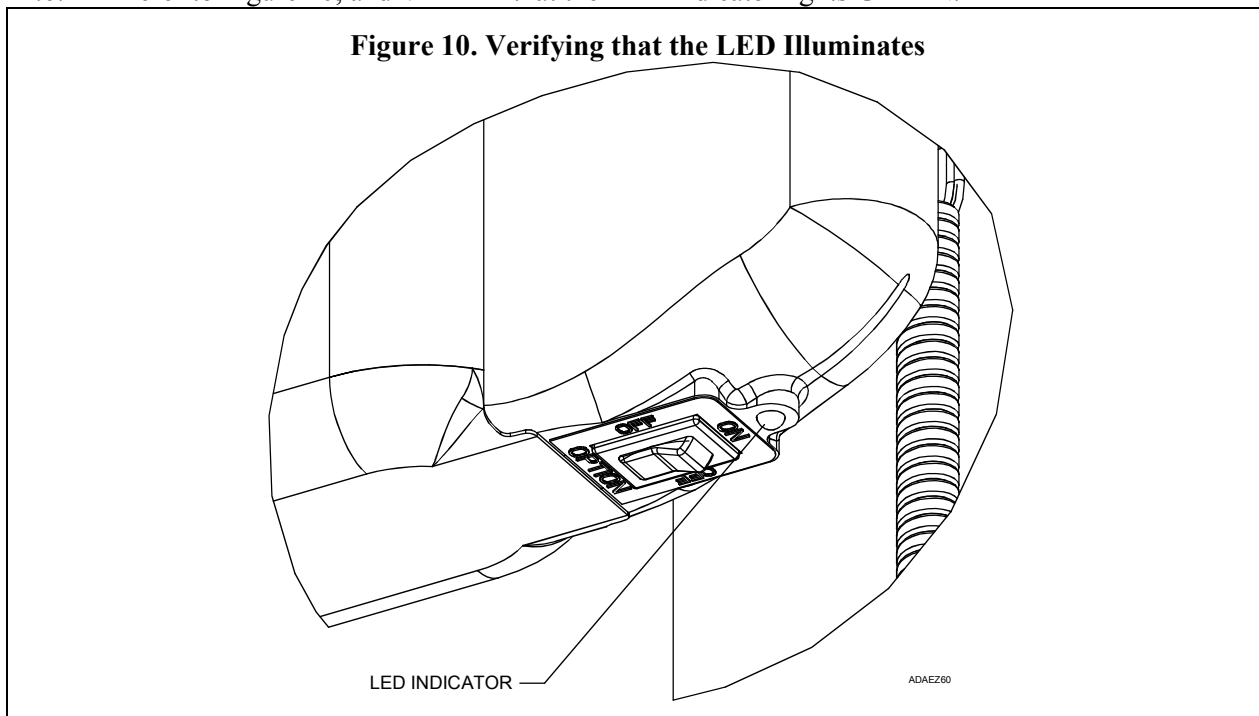**Figure 8. Routing Wires through Cable End Links**

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

EZ061

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

Figure 9. Plugging the Connector into the Receptacle

CONNECTOR RECEPTACLE

CONNECTOR COVER

CONNECTOR PLUG

EZ060

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

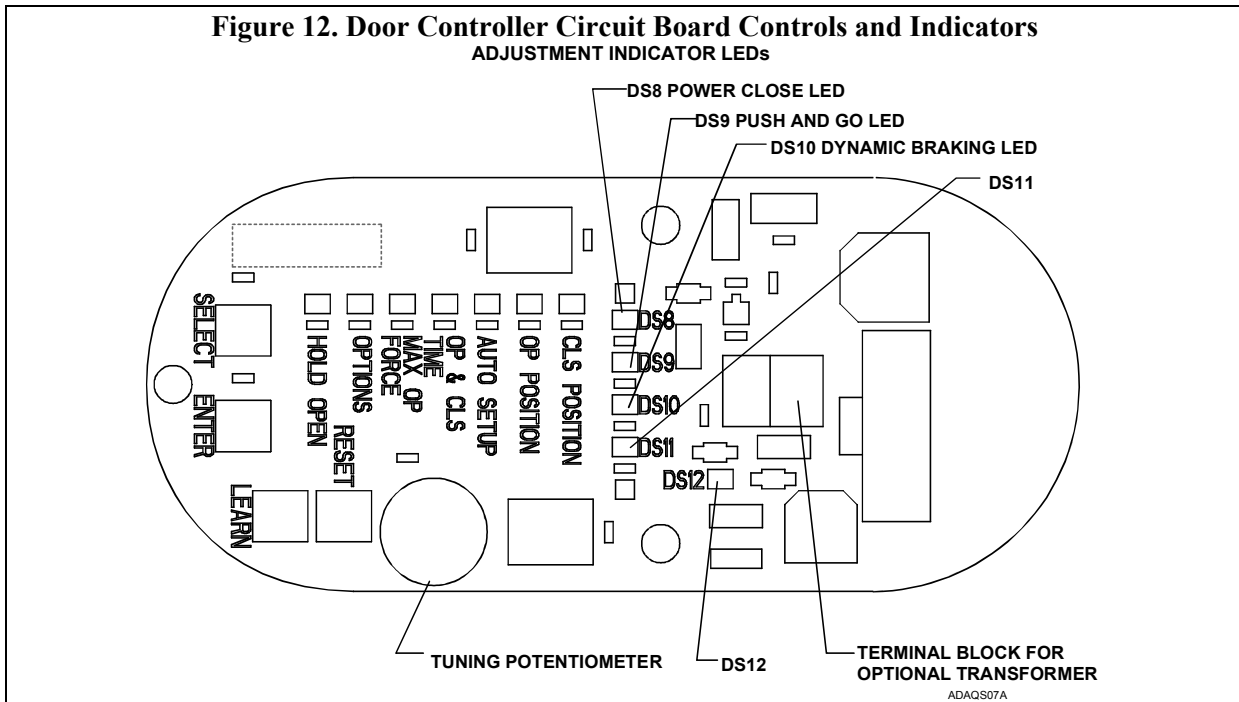**Figure 10. Verifying that the LED Illuminates**

LED INDICATOR

ADAEZ60

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

Figure 11. Plugging the Receptacle Cover onto the Battery Pack

EZ062

700302
Rev. A, 10/14/12
10 of 12
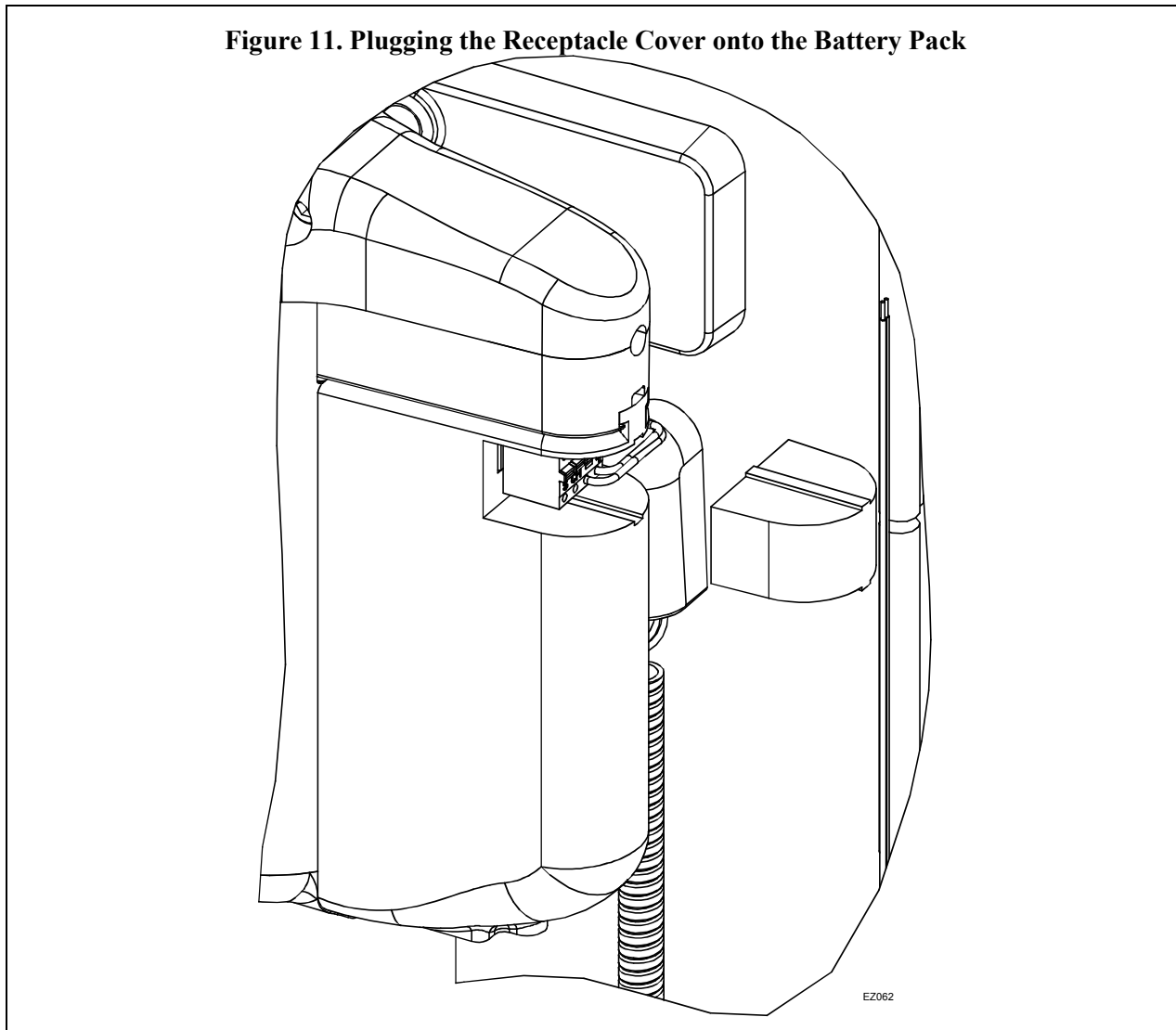
1.7 Programming the Operator

Figure 12. Door Controller Circuit Board Controls and Indicators

1.7.1 Refer to Figure 12, and, at the base of the controller, PRESS and HOLD the "SELECT" and "ENTER" pushbuttons for three seconds. The following shall occur:

- The operator shall enter program mode.
- The four LEDs on the circuit board shall repeatedly flash green.
- The "CLS" position LED shall illuminate red and remain lit.

1.7.2 With the door in the closed position, PRESS the "ENTER" pushbutton. The following shall occur:

- The "CLS" position LED shall flash green.
- The "OP" (open) position LED shall illuminate red indicating that the operator is ready for input.
- The LED shall illuminate green once data has been stored for this parameter.

1.7.3 With the door in the closed position, PRESS the "ENTER" pushbutton.

1.7.4 OPEN the door to its fully open position.

1.7.5 With the door in the fully open position, PRESS the "ENTER" pushbutton. The following shall occur:

- The "OP" position LED shall flash green.
- The "AUTO SETUP" position LED shall illuminate red indicating that the operator is ready for input.
- The LED shall illuminate green once data has been stored for this parameter.

1.7.6   With the door in the fully closed position, PRESS the "ENTER" pushbutton. The following shall occur:

- The door shall open quickly and then close.
- The "AUTO SETUP" led shall illuminate green.

1.7.7   PRESS and HOLD the "ENTER" pushbutton for three seconds. The following shall occur:

- The "AUTO SETUP" led shall go out.
- The second LED (not labeled) shall flash green.
- The door shall be tuned.

1.7.8   To reset the controller, PERFORM the following:

a.   PRESS and HOLD the "RESET" pushbutton.

b.   PRESS and HOLD the "ENTER" pushbutton.

c.   RELEASE the "RESET" pushbutton.

1.7.9   If further door adjustments are necessary, refer to document number 70001, "ADA EZ Installation and Operating Instructions," and ADJUST as needed.

1.8   Initializing the Remote Control

1.8.1   To link an RF switch with a door controller, PERFORM the following:

a.   PRESS and HOLD the "LEARN" pushbutton on the controller until LEDs DS8 through DS11 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. LED DS7 shall flash green indicating that the operator accepted this RF pushbutton.

c.   REPEAT steps 1.8.1.a. and 1.8.1.b. as necessary for up to eight ADA EZ transmitters.

1.8.2   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.