Note
Changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate this device. This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Refer to www.ADAEZ.com to obtain the latest manual and template revisions.
# Installation and Operating Instructions

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1. **PURPOSE**

1.1 **Discussion**

This manual provides system description, installation instructions, operating instructions, troubleshooting recommendations, and a replacement parts listing for the ADA EZ swing door operator.

The ADA EZ is an automatic door opening and closing device that permits automatic operation of single or double right hand or left hand doors measuring 36” to 48” (91 cm to 122 cm) wide and weighing up to 250 lbs (113 kg). The door operator device mounts on a parallel-arm push-side configuration.

The ADA EZ operator allows the door to open manually or by a remote transmitter device. As the door closes the ADA EZ operator generates an electrical charge that restores power to the operator battery. If the door is operated via remote transmitter more often than it is opened manually, the door-closing cycle may not supply enough power to charge the battery and permit remote operation. In this case an optional AC 110-volt transformer is available.

1.2 **Applicability**

This manual is applicable to the ADA EZ-series wireless door opener.

2. **PREREQUISITES**

2.1 If the door is an aluminum storefront door, make sure that you do not drill into the tie rod or the top rail web. Also, do not drill into the junction of the style and rail.

2.2 When using the optional plug-in transformer, a 110-VAC grounded power outlet is available in the vicinity of the door. GFI or ground fault protected outlets are *not* acceptable.

2.3 Protective barrier (caution/warning tape) has been set up to prevent unauthorized access to work area.

2.4 If applicable, the existing door closer has been removed.

2.5 The operator must only be installed on doors and frames in good working order, without sticking or binding during normal operation.

2.6 The door has been secured to prevent unexpected opening or closing during installation.

2.7 Attachment 1 has been reviewed for the following:

- Definitions of the terms used in this procedure
- A listing of the tools, equipment, materials, and consumables used in this procedure.

3. **PRECAUTIONS**

3.1 This product is intended for interior use only.

3.2 The transformer must *not* be plugged into the outlet until the operator and door arm installation are complete.

3.3 The battery should not be installed in the transmitter until the operator and door arm installation are complete.

3.4 An operating door creates pinch hazards. Be careful making operating adjustments while the door is moving.

3.5 The transformer wiring must *not* be concealed behind walls or routed through doorways, window openings, walls, ceilings, or floors. Also, this wiring must be secured to prevent it from becoming entrapped in the moving parts of the operator or door.
4. SYSTEM DESCRIPTION

4.1 General

The ADA EZ operator is shipped in the following pieces (see Figure 1):

- Operator assembled with black cover installed
- Optional silver and bronze covers (when specified)
- Fixed door arm assembly
- Shock-absorbing door arm assembly
- Operator mounting bracket
- Operator mounting bracket cover
- Operator mounting posts
- Door arm pivot assembly
- Battery assembly installed but disconnected from the operator
- Two wireless pushbuttons
- Operator mounting templates (right hand and left hand)
- Hardware pack including fasteners for aluminum and hollow metal, wood, and all installations
- Door decals including the following:
  - Two yellow “CAUTION AUTOMATIC DOOR” decals
  - Two blue “ACTIVATE SWITCH TO OPERATE” decals
  - One yellow “DAILY SAFETY CHECK” decal

Figure 2 illustrates an assembled ADA EZ operator installed on a left hand door. The paragraphs that follow describe its components:
4.1.1 Door Operator Assembly: Includes the following major assemblies:

- **Door Operator:** Contains the mechanical components required to move the door. The operator assembly mounts on the hinge or pivot edge of the door top rail and includes the motor/gearbox, door arm, mounting brackets, regenerative power source, battery pack, and cover.

- **Door Controller:** Contains the hardware and software necessary to control the motion of the door. The door controller circuitry converts the 20 VAC to the DC voltage required by the microcontroller, logic circuitry, and electric strike. Figure 3 illustrates the door controller circuit board controls and indicators.

- **Drive:** Provides the hardware and software necessary to drive the motor based on a door controller command.
4.1.2 Transmitter: An external device that emits an rf signal or an electrical signal to operate the door. When pushed once, the door opens. The transmitter has a range of 85’ (26 m) from either side of the door. One 3-volt 280mAH lithium battery (Part No.CR2032) provides transmitter power. The battery provides approximately 250,000 activations.

4.1.3 Transformer: Converts the incoming 110 VAC power to the voltage required by the controller. Plugs into a standard 110-VAC grounded power outlet wall outlet. Transformer rating as follows: Input 120VAC 50/60Hz. Output 30VDC 500mA.
4.2 Features and Functions

4.2.1 Opening Time: Following an activation signal, the door moves from fully closed to open check or 80 degrees, whichever occurs first. The opening time shall be in accordance with Table 1.

Table 1. Door Sizes and Opening/Closing Times

<table>
<thead>
<tr>
<th>Door Weight (Pounds)</th>
<th>Door Width (Inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>36</td>
</tr>
<tr>
<td>50</td>
<td>3.0</td>
</tr>
<tr>
<td>75</td>
<td>3.0</td>
</tr>
<tr>
<td>100</td>
<td>3.0</td>
</tr>
<tr>
<td>150</td>
<td>3.3</td>
</tr>
<tr>
<td>200</td>
<td>3.8</td>
</tr>
<tr>
<td>250</td>
<td>4.3</td>
</tr>
<tr>
<td>300</td>
<td>4.7</td>
</tr>
<tr>
<td>350</td>
<td>5.1</td>
</tr>
<tr>
<td>400</td>
<td>5.4</td>
</tr>
<tr>
<td>450</td>
<td>5.7</td>
</tr>
</tbody>
</table>

4.2.2 Hold-Open Time: Hold open time shall be adjusted to no less than 5 seconds

4.2.3 Closing Time: Following hold-open time, the door moves from fully open to close check or 10°, whichever occurs first, according to Table 1.

4.2.4 Close Check: Close check shall occur in the last 10 degrees of closing and shall not be less than 1.5 seconds

4.2.5 Closing Force: The door shall not close with a force greater than 15 lbs (6.8 kg) when measured at the latch side of the closing stile. For ADA EZ series, the closing force is adjustable to 8 lbs (3.6 kg).

4.2.6 Opening Force: The door shall not open with a force greater than 15 lbs (6.8 kg) when measured at the latch side of the opening stile.

4.2.7 Transmitter Range: The transmitter has a range of 85' (26 m) from either side of the door.

4.2.8 Operation Upon Loss of Power: Standard installations require no external power and operation will not be affected during a power loss. Typically a maximum of 2,500 cycles can be obtained from a fully charged battery pack. Installations with the optional power transformer will continue to function normally.

4.2.9 Operation Upon Obstruction: If the door meets an obstruction while opening, the door will remain under power for two seconds and then close under spring force. If the door meets an obstruction while closing, the door will maintain a closing force of 8 lbs (3.6 kg) or less.

4.2.10 Transmitter Learn Mode: The transmitter learn mode programs the transmitter to the operator. The system can learn up to eight separate transmitters. The system also has the ability to remove all transmitters programmed into memory.

4.2.11 Door Learn Mode: The door learn mode allows the door to “learn” its fully open and fully closed positions and adjusts the open time, close time, open force, and hold open times to ensure the settings meet the ANSI 156.19 Low Energy Door Operator Code.
4.2.12 Hold Open: The operator provides an adjustable hold open time. Controls on the circuit board allow adjustment of the door-closing time delay from 1 second to 30 seconds.

5. INSTALLATION INSTRUCTIONS

5.1 Determine the Operator and Door Arm Mounting Locations

CAUTION
The operator must only be installed on doors and frames that are in good working order. The door must not stick or bind during normal operation.
If applicable, the existing door closer must be removed before installing the ADA EZ operator.

NOTE
The operator always mounts on the inside of the door at the hinge or pivot edge of the top rail.
The following instructions describe installation on an out-swing application.
The operator is a handed unit and ordered from the factory as a right hand or left hand operator. Changing the hand in the field is not possible.

5.1.1 Refer to Figure 4, and DETERMINE desired door handing.

**Figure 4. Door Handing**

<table>
<thead>
<tr>
<th>LH DOOR</th>
<th>LHR DOOR</th>
<th>RH DOOR</th>
<th>RHR DOOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>IF THE DOOR SWINGS IN AND TO THE LEFT IT IS A LH DOOR.</td>
<td>IF THE DOOR SWINGS OUT AND TO THE LEFT IT IS A LHR DOOR.</td>
<td>IF THE DOOR SWINGS IN AND TO THE RIGHT IT IS A RH DOOR.</td>
<td>IF THE DOOR SWINGS OUT AND TO THE RIGHT IT IS A RHR DOOR.</td>
</tr>
</tbody>
</table>

NOTE: For the purposes of the ADA EZ Operator, a LHR door utilizes a Right Hand Operator and a RHR door utilizes a Left Hand Operator.
The operator comes with two mounting templates—one template is for a right hand door and the other is for a left hand door.

Each template has a solid-line outline and a dotted-line outline. The solid-line outline is for the narrow rail door. The dotted line outline is for the medium or wide rail doors.

Each template provides two additional hole slots. These can be used when the solid-line outline or dotted-line outline mounting holes will interfere with a top rail web, rail-to-stile tie rod(s), or the rail-to-stile junction.

**NOTE**

5.1.2 SELECT the right hand or left hand operator mounting template as applicable.

5.1.3 EXAMINE the inside door top rail and DETERMINE the top rail width (narrow, medium, or wide).

5.1.4 DETERMINE the type of mounting hinge (butt or continuous, center pivot, or offset).

**CAUTION**

On an aluminum storefront door, the operator mounting holes must not be drilled into the top rail web, rail-to-stile tie rod(s), or the rail-to-stile junction.

5.1.5 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

5.1.6 Refer to Figure 4A, and DETERMINE which operator mounting template fold line to use as follows:

a. MEASURE the stop thickness.
   - If the stop is greater than 1 1/2” (38.1 mm), USE the upper template fold line.
   - If the stop is 1 1/2” (38.1 mm), or less, USE the lower template fold line.

b. If the door is a narrow-stile door, USE the solid line mounting location.

c. If the door is an application other than a narrow-stile door, USE the dotted line mounting location.
5.1.7 Refer to Figure 5, and ALIGN the operator mounting template to the centerline of the butt hinge, center pivot, or offset pivot as applicable.
Figure 5. Installing the Operator Mounting Template

ALIGN TEMPLATE WITH HINGE CENTERLINE

TOP VIEW - BUTT HINGE HUNG DOOR

ALIGN TEMPLATE WITH PIVOT CENTERLINE

TOP VIEW - OFFSET PIVOT

LEFT HAND

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

5.1.8 Using a center punch, MARK the mounting hole locations.
5.1.9 Refer to Figure 6, and, using a square, MARK the centerline of the arm pivot onto the underside and face of the frame header and door stop. (This line is shown on the template.)

Figure 6. Marking the Centerline of the Arm Pivot

NOTE
The face of the vertical support must be flush against the face of the frame header. On some door installations, the door stop prevents the bracket from setting flush. If this is the case, the arm pivot bracket can be adjusted by removing the bracket vertical support and reversing it.

In a flush mount installation, the ceiling covers the frame face. In this case, the vertical support of the bracket must be removed. The bracket should then be mounted to the underside of the frame header.

5.2 Mounting the Door Arm Pivot Bracket

5.2.1 Refer to Figure 7 and DETERMINE the orientation of the door arm pivot bracket as necessary to ensure the following (as applicable):

- If the door is a typical installation, the vertical support will set flush against the face of the frame header.
- If the door is a large reveal installation, the bracket will mount to the underside of the frame header.
Figure 7. Determining the Door Arm Pivot Bracket Orientation

EZ002A
CAUTION
To ensure proper installation, the door arm pivot bracket must be fastened to the underside of the header frame and to the face of the header frame with \textit{at least} three fasteners.

NOTE
When attempting to install the rivnuts to the underside of the door frame it may be necessary to remove the door stop.

5.2.2 Refer to Figure 8 and, using a center punch, MARK the door arm pivot bracket hole locations.

5.2.3 If the door frame is aluminum and rivnuts must be installed, PERFORM the following:
   a. Using a \(\frac{25}{64}\)\(\text{"}\) drill, DRILL the door arm pivot bracket holes.
   b. Using a rivnut tool, INSTALL the \(\frac{1}{4}\)-20 steel rivnuts.
   c. INSTALL and TIGHTEN the three (minimum) \(\frac{3}{4}\)" (19.05 mm) socket head capscrews securing the door arm pivot bracket to the underside and face of the frame header.

5.2.4 If the door frame is wood, PERFORM the following:
   a. Using a \(\frac{5}{32}\)" (3.97 mm) drill, DRILL the door arm pivot bracket pilot holes.
   b. INSTALL and TIGHTEN the three #14 x 1 \(\frac{1}{4}\)" wood screws (minimum) securing the door arm pivot bracket to the underside and face of the frame header.

Figure 8. Mounting the Door Arm Pivot Bracket

5.3 Installing the Operator Mounting Bracket

5.3.1 Refer to Figure 9 and DETERMINE the proper operator mounting bracket location.
Figure 9. Determining the Operator Mounting Bracket Location

- **WIDE STILE/TOP RAIL**
  - Use these mounting locations (check to ensure there are no internal door features interfering with mounting positions).
  - Top of Door: 2 3/8"
  - Top of Door Operator Mounting Bracket:

- **MEDIUM STILE/TOP RAIL**
  - Use these mounting locations (check to ensure there are no internal door features interfering with mounting positions).
  - Top of Door: 1 3/4"
  - Top of Door Operator Mounting Bracket:

- **NARROW STILE/NARROW TOP RAIL**
  - Use these mounting hole locations (check to ensure there are no internal door features interfering with mounting positions).
  - Top of Door: 1/2"
  - Top of Door Operator Mounting Bracket:
5.3.2 If the door frame is aluminum and rivnuts must be installed, PERFORM the following:
   • Using a $25/64''$ (9.92 mm) drill, DRILL the operator mounting bracket holes.

5.3.3 Using a rivnut tool, INSTALL the $\frac{1}{4}$-20 steel rivnuts.

**NOTE**
Some door installations may require sex nut and bolt fasteners.

5.3.4 If the door frame is wood, PERFORM the following:
   • Using a $\frac{5}{32}''$ (3.97 mm) drill, DRILL the operator mounting bracket holes.

5.3.5 INSTALL a washer onto each of the four (minimum) $\frac{3}{4}''$ (19.05 mm) socket head operator mounting bracket capscrews.

5.3.6 INSTALL, but do not TIGHTEN the socket head capscrews securing the operator mounting bracket to the door.

5.3.7 ADJUST the operator mounting bracket as follows:
   • If the upper fold on the operator mounting template was used (large stop mounting), ADJUST the bracket so that there is 2 3/8'' (60.32 mm) space between the top of the bracket and the top of the door.
   • If the lower fold on the operator mounting template was used (standard mounting), ADJUST the bracket so that there is 1 3/4'' (44.45mm) space between the top of the bracket and the top of the door.
   • If the narrow stile door mounting location was used (solid line on operator mounting template), ADJUST the bracket so that there is $\frac{1}{2}''$ (12.7 mm) space between the top of the bracket and the top of the door.

5.3.8 TIGHTEN the socket head capscrews securing the operator mounting bracket to the door.

**NOTE**
The operator mounting bracket includes four threaded holes that accept the operator mounting pins. The lower set of two threaded holes is used when the operator is installed on a narrow-rail door. The upper set of two threaded holes is used when the operator is installed on a medium- or wide-rail door.

5.3.9 Refer to Figure 9 and PERFORM one of the following as applicable:
   • If the operator is being mounted to a narrow rail door, TIGHTEN the operator mounting pins into the lower threaded holes in the mounting bracket using a $\frac{7}{16}''$ (11.112 mm) box wrench or large adjustable wrench.
   • If the operator is being mounted to a wide or medium rail door, TIGHTEN the operator mounting pins into the upper threaded holes in the mounting bracket using a $\frac{7}{16}''$ (11.112 mm) box wrench or large adjustable wrench.
5.4 Installing the Door Arm Pivot

5.4.1 Refer to Figure 10, and SLIDE the door arm pivot over the door arm pivot bracket.

Figure 10. Installing the Door Arm Pivot

5.4.2 ENSURE that the dimension from the face of the door to the centerline of the door arm mounting hole is 6 3/8" (161.92 mm).

5.4.3 TIGHTEN the four set screws securing the door arm pivot to the door arm pivot bracket.
5.5 Installing the Door Operator

5.5.1 Refer to Figure 11, and INSTALL the operator mounting bracket cover over the operator mounting bracket.

5.5.2 REMOVE the two capscrews securing the operator bottom cover to the operator.

5.5.3 REMOVE the bottom cover from the operator.

5.5.4 SLIDE the battery pack from the operator and REMOVE the battery pack.

5.5.5 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.

5.5.6 With the battery back facing the jamb, POSITION the operator onto the operator mounting pins. ENSURE the operator does not slide off the mounting pins.

5.5.7 INSTALL and TIGHTEN the two ¼-20 X 1½" socket head capscrews securing the operator to the operator mounting pins.
5.6 Installing the Door Arm

5.6.1 Refer to Figure 12, and, with the door arm coupling screws facing up and the door arm against the door rail, POSITION the larger end of the door arm onto the operator output shaft.

**Figure 12. Installing the Door Arm**

ENSURE DOOR ARM IS TOUCHING FACE OF DOOR BEFORE TIGHTENING COUPLING.

EVENLY TIGHTEN EACH BOLT IN A CIRCULAR PATTERN 1/4 TURN AT A TIME UNTIL ALL BOLTS ARE FULLY TIGHTENED.
CAUTION
The door arm coupling is a two-piece tapered coupling. In order 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.

5.6.2 With the door arm touching the face of the door, TIGHTEN the door arm coupling screws evenly (one quarter turn at a time) until fully tight.

5.6.3 THREAD the adjustable door arm end link into the door arm as necessary to align the end link mounting hole with the door arm pivot mounting hole.

5.6.4 If the door arm end link does not align with the door arm pivot mounting hole and there is no available travel on the threaded end link, PERFORM the following:
   - LOOSEN the socket head cap screws securing the door arm pivot to the door arm pivot bracket.
   - SLIDE the door arm pivot as necessary to align the door arm end link with the door arm pivot mounting hole.
   - TIGHTEN the socket head cap screws securing the door arm pivot to the door arm pivot bracket.

NOTE
In order to apply a preload to the door, the door arm must be threaded into the door arm three revolutions.

5.6.5 THREAD the adjustable door arm end link into the door arm three revolutions.

5.6.6 INSTALL the washer provided onto the top of the door arm end link, and TIGHTEN the $\frac{5}{16} \times \frac{7}{8}\text{"}$ button-head cap screw securing the door arm end link to the door arm pivot bracket.

5.6.7 SLIDE the dress cover onto the operator.

5.6.8 CONNECT the battery pack connector plug to the operator.

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

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NOTE
Ensure that the supplied washer is properly inserted onto the top of the door arm end link to prevent rubbing between the two parts.

5.6.10  Refer to Figure 12A and INSTALL the supplied washer onto the top of the door arm end link.

Figure 12A. Installing the Door Arm End Link Washer
5.7 Installing the Pushbutton Switches

5.7.1 Refer to Figure 13, and INSTALL the pushbutton switches. ENSURE the following:
- Switches are located 1’ to 5’ (30.48 cm to 152.4 cm) from the door, but not more than 12’ (365.76 cm).
- Switches remain accessible from the swing side when the door is opened.
- Switches are not located in a position where the user would be in the path of the moving door.
- Switches are mounted so that the user is in full sight of the door when activating the switch.
- Switches are mounted at a minimum height of 34” (86.36 cm) and a maximum height of 48” (121.9 cm).

5.7.2 CONSULT ANSI A117.1, “Standard on Accessible and Usable Buildings and Facilities,” and other applicable building codes for additional information regarding accessibility requirements for the door and the area around the door.

Figure 13. Installing the Pushbutton Switches

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5.8 Installing the Optional Plug-In Transformer

**NOTE**
An optional plug-in transformer is recommended in installations where the automatic door-opening feature will be used frequently.

5.8.1 Refer to Figure 14, and REMOVE the two capscrews securing the operator bottom cover to the operator.

**Figure 14. Installing the Optional Plug-In Transformer**

5.8.2 REMOVE the bottom cover from the operator.
5.8.3 THREAD the transformer wire through the operator cover and motor cable slot.
5.8.4 CONNECT the two transformer wires to the terminal block on the bottom of the control circuit board.
NOTE
There are two keyed connectors on the operator. One three-position connector accepts the battery pack connector plug.

5.8.5 Refer to Figures 15 and 16, and CONNECT the battery pack connector plug to the operator.

Figure 15. Connecting the Battery Pack
Figure 16. Connecting the Battery Pack
5.8.6 SLIDE the battery pack onto the operator, and ENSURE that the battery pack wires do not interfere with the operator cover.

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

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

5.9 Adjusting Door Spring Tension

5.9.1 PRESS and HOLD the “RESET” pushbutton, then manually OPEN AND CLOSE the door several times. ENSURE that the door opens and closes smoothly.

5.9.2 If the door is difficult to open, refer to Figure 17, and ADJUST door-open spring tension as follows:
   a. INSERT 3/16″ (4.762 mm) hex wrench into spring tension screw.
   b. If necessary, ADJUST door spring tension as follows:
      • If the door feels too light, using the 3/16″ (4.762 mm) hex wrench, TURN the setscrew in the end of the operator clockwise to increase spring tension.
      • If the door feels too heavy, using 3/16″ (4.762 mm) hex wrench, TURN the setscrew in the end of the operator counterclockwise to decrease spring tension.
5.10 Programming the Operator

5.10.1 Refer to Figure 3 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.
NOTE

The doors are shipped with a MAXIMUM spring tension.

A red LED indication for “CLS,” “OP,” or “AUTO SETUP” indicates that no value has been stored for that parameter. When programming the operator a second time the LEDs will illuminate green indicating that a value is stored. Reprogramming a second time simply overwrites the previously stored value.

5.10.2 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.

5.10.3 OPEN the door to its fully open position.

5.10.4 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.

5.10.5 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.

5.10.6 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.

5.10.7 To reset the controller, PERFORM the following:
   a. PRESS and HOLD the “ENTER” pushbutton.
   b. PRESS and RELEASE the “RESET” pushbutton.

5.10.8 If further door adjustments are necessary, refer to Section 5.12, and PERFORM adjustments.

5.11 Initializing the Remote Control

NOTE

The RF pushbuttons are preprogrammed at the factory to work with the operator.

5.11.1 To set an RF switch with a door controller, PERFORM the following:
a. PRESS and HOLD the “LEARN” pushbutton on the controller until the four LEDs (DS8 through DS11) flash green. The controller shall enter the learn mode for 20 seconds.

b. PUSH the RF activation switch. LED DS7 shall flash green indicating that the operator learned this rf switch.

5.11.2 To erase all activation codes learned in the door controller, PERFORM the following:

a. PRESS and HOLD the “LEARN” pushbutton on the controller.

b. PRESS and RELEASE the “RESET” pushbutton.

5.12 Adjusting the Door for Proper Operation (Optional)

NOTE
The parameters for OPEN and CLOSE TIME, OPEN FORCE, and HOLD-OPEN TIME may be manually adjusted if desired.

5.12.1 To enter PROGRAM MODE, 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. If necessary, ADJUST door OPEN and CLOSE TIME as follows:
  a. PRESS the “SELECT” button until the “OP & CLS TIME” LED illuminates.
  b. ROTATE the potentiometer. The following shall occur:
     - The four red LEDs shall illuminate in series. (One lit LED indicates minimum open and close time. Four lit LEDs indicate maximum open and close time.)
     - If the LEDs illuminate green, the open and close time are within code.
     - If the LEDs illuminate red, the open and close time are outside code.
  c. PRESS “ENTER” to select the desired value.

5.12.2 If necessary, ADJUST maximum OPEN FORCE as follows:

a. PRESS the “SELECT” button until the “MAX OP FORCE” LED illuminates.

b. ROTATE the potentiometer. The following shall occur:

- The four red LEDs shall illuminate in series. One lit LED indicates minimum opening force. Four lit LEDs indicate maximum opening force.
- If the LEDs illuminate green, the opening force is within code.
- If the LEDs illuminate red, the opening force is outside code.

 c. PRESS “ENTER” to select the desired value.

5.12.3 If necessary, ADJUST HOLD-OPEN time as follows:

a. PRESS the “SELECT” button until the “HOLD OPEN” LED illuminates.

b. ROTATE the potentiometer. The following shall occur:

- The four red LEDs shall illuminate in series. One lit LED indicates minimum hold-open time. Four lit LEDs indicate maximum hold-open time.

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• If the LEDs illuminate green, the hold-open time is within code.
• If the LEDs illuminate red, the hold open time is outside code.

c. PRESS “ENTER” to select the desired value.

5.12.4 When all adjustments are complete, PRESS and HOLD the “ENTER” pushbutton for three seconds. The operator shall exit programming mode.

NOTE
Changing the RF hibernation setting is not recommended.
The hibernation program will turn off the RF receiver after a period of time saving battery power. There are four time settings: 2 hrs, 8 hrs, 72 hrs, and off. The controls are be shipped with the 2 hour hibernation program in place.

5.12.5 If necessary, CHANGE the RF hibernation setting as follows:

a. PRESS and HOLD “ENTER” button for 10 seconds. The following shall occur:
   • The first LED shall illuminate green to indicate hibernation setting “1” (2 hrs).
   • LEDs DS8 through DS11 shall light to indicate the current hibernation setting. (DS8, setting “1”= 2 hrs (default); DS9, setting “2”= 8 hrs; DS10, setting “3”= 72 hrs; DS11, setting “4”= no hibernation)

b. To change the hibernation setting to setting “2” (8 hrs), PRESS “ENTER.” The second LED (DS9) shall illuminate green.

c. To change the hibernation setting to setting “3” (72 hrs), PRESS “ENTER.” The third LED (DS10) shall illuminate green.

d. To change the hibernation setting to setting “4” (no hibernation), PRESS “ENTER.” The fourth LED (DS11) shall illuminate green.

e. To change the hibernation setting back to setting “1” (2 hrs), PRESS “ENTER.” The first LED (DS8) shall illuminate green.

f. To toggle through the four hibernation settings PRESS SELECT. The setting shall alternate between setting “1,” “2,” “3,” “4,” “1,” “2,” etc.

g. When the desired hibernation setting is selected, PRESS and HOLD “ENTER” for 3 seconds. The following shall occur:
   • The new hibernation setting shall be saved.
   • The hibernation programming mode shall be exited.

h. To reset the hibernation setting controls, PERFORM the following:
   1) PRESS and HOLD “ENTER.”

NOTE
If no buttons are pressed for 10 seconds after entering the hibernation programming mode the mode shall be exited.

2) PRESS “RESET.”
3) RELEASE “RESET.” The hibernation mode shall return to default setting “1” (2 hrs).

5.12.6 INSTALL the bottom cover onto the operator.
5.12.7 INSTALL and TIGHTEN two 8-32 X \( \frac{3}{4} \)" socket head capscrews securing the operator bottom cover to the operator.

5.13 **Replacing the Battery Pack Fuse**

<table>
<thead>
<tr>
<th>NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>The battery pack includes a 5-amp slow-blow fuse.</td>
</tr>
</tbody>
</table>

5.13.1 REMOVE the two capscrews securing the operator bottom cover to the operator.
5.13.2 REMOVE the bottom cover from the operator.
5.13.3 SLIDE the battery pack from the operator.
5.13.4 REMOVE the screw securing the fuse in the battery pack.
5.13.5 REMOVE the fuse.
5.13.6 INSTALL the replacement fuse.
5.13.7 INSTALL and TIGHTEN the screw securing the fuse in the battery pack.
5.13.8 SLIDE the battery pack onto the operator.
5.13.9 INSTALL the bottom cover onto the operator.
5.13.10 INSTALL and TIGHTEN the two capscrews securing the operator bottom cover to the operator.

5.14 **Closeout Procedure**

5.14.1 Refer to Figure 18, and INSTALL door decals as follows:
   a. Thoroughly CLEAN glass, metal, or wood surface.
   b. MARK centerline of decal 50" ±12" (127 cm ±30.48 cm) from finished floor.
   c. REMOVE the smallest section of decal backing from the yellow “CAUTION AUTOMATIC DOOR” decal.
   d. HOLD decal up to glass in desired location, and ENSURE decal is straight.
   e. APPLY sticky surface of decal to door.
   f. Using a ruler or any rigid flat tool, SMOOTH decal to door.
   g. Slowly REMOVE the large section of decal backing and at the same time use ruler of straight edge as squeegee. (This will force out all air bubbles.)
   h. Using the above steps as a guide, MOUNT the blue “ACTIVATE SWITCH TO OPERATE” decal directly below the yellow “CAUTION AUTOMATIC DOOR” decal.
   i. Using the above steps as a guide, MOUNT the yellow “CAUTION AUTOMATIC DOOR” decal and blue “ACTIVATE SWITCH TO OPERATE” decal on the opposite side of the door.
j. Using the above steps as a guide, MOUNT the “DAILY SAFETY CHECK” decal to the door frame.

Figure 18. Installing the Door Decals

5.14.2 ENSURE all connectors are secure.
5.14.3 ENSURE all wires are secured and hidden where possible.
5.14.4 ENSURE the operator dress cover is installed and secure.
5.14.5 ENSURE the controller cover is installed and secure.
5.14.6 ENSURE the door and door trim surfaces are clean.
5.14.7 ENSURE the door installation area is clean and free of debris.
5.14.8 ENSURE that the client/resident is instructed on how to use this product and operate it correctly, and understands how to perform the daily safety check.
5.14.9 COMPLETE Work Order and REPORT your actions to Building Superintendent

5.15 Troubleshooting Recommendations
5.15.1 Refer to Table 2 for a listing of fault symptoms and recommended remedies.
### Table 2. Troubleshooting Recommendations

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Recommended Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Too Hard To Open Manually</td>
<td>Refer to section titled “Adjusting Door Spring Tension” and reduce the door-open</td>
</tr>
<tr>
<td></td>
<td>spring tension.</td>
</tr>
<tr>
<td>Door Will Not Fully Close</td>
<td>Refer to section titled “Adjusting Door Spring Tension” and increase the door-open</td>
</tr>
<tr>
<td></td>
<td>spring tension. The operator must only be installed on doors and frames in good</td>
</tr>
<tr>
<td></td>
<td>working order, without sticking or binding during normal operation.</td>
</tr>
<tr>
<td>Door Arm Rubs On Door Arm Pivot Bracket</td>
<td>Refer to section titled “Installing the Operator Mounting Bracket” and lower the</td>
</tr>
<tr>
<td></td>
<td>bracket mounting position.</td>
</tr>
<tr>
<td></td>
<td>Ensure that the operator is mounted parallel to the face of the door. If the bottom</td>
</tr>
<tr>
<td></td>
<td>of the operator is further away from the door than the top, shim the top of the</td>
</tr>
<tr>
<td></td>
<td>operator mounting bracket to compensate. (Refer to Figures 11 and 12.)</td>
</tr>
<tr>
<td>Door Arm Rotates On Triangular Steel Output</td>
<td>Refer to section titled “Installing the Door Arm” and ensure that the door arm</td>
</tr>
<tr>
<td>Shaft</td>
<td>coupling screws are tightened evenly (one quarter turn at a time) until fully tight.</td>
</tr>
<tr>
<td>Door Does Not Open Automatically</td>
<td>• Refer to figure titled “Connecting the Battery Pack” and ensure the battery is</td>
</tr>
<tr>
<td></td>
<td>properly connected to the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Initializing the Remote Control” and program the rf</td>
</tr>
<tr>
<td></td>
<td>pushbutton switch.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Replacing the Battery Pack Fuse” and ensure the 5-amp</td>
</tr>
<tr>
<td></td>
<td>slow-blow fuse is good.</td>
</tr>
<tr>
<td></td>
<td>• To verify a low voltage battery condition perform the following:</td>
</tr>
<tr>
<td></td>
<td>▪ Remove the operator bottom cover.</td>
</tr>
<tr>
<td></td>
<td>▪ Move the door slightly to “wake up” the controls.</td>
</tr>
<tr>
<td></td>
<td>▪ Observe the DS9 LED.</td>
</tr>
<tr>
<td></td>
<td>▪ If DS9 is flashing green then the battery is good (above 18VDC).</td>
</tr>
<tr>
<td></td>
<td>▪ If DS9 is flashing red then the battery is low (below 18VDC).</td>
</tr>
<tr>
<td></td>
<td>▪ Battery can be charged by optional plug in transformer or by allowing manual</td>
</tr>
<tr>
<td></td>
<td>traffic to restore battery power.</td>
</tr>
<tr>
<td>Door Stays Open Too Long</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the</td>
</tr>
<tr>
<td></td>
<td>door hold open time.</td>
</tr>
<tr>
<td>Door Does Not Stay Open Long Enough</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the</td>
</tr>
<tr>
<td></td>
<td>door hold open time.</td>
</tr>
<tr>
<td>Door Opens Too Fast</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the</td>
</tr>
<tr>
<td></td>
<td>door open time.</td>
</tr>
<tr>
<td>Door Opens Too Slow</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the</td>
</tr>
<tr>
<td></td>
<td>door open time.</td>
</tr>
<tr>
<td>Symptom</td>
<td>Recommended Remedy</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Door Closes Too Fast</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the door close time.</td>
</tr>
<tr>
<td>Door Closes Too Slow</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the door close time.</td>
</tr>
<tr>
<td>Door Opening Force Too High</td>
<td>• Refer to section titled “Programming the Operator” and Auto-Setup the operator.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Adjusting the Door for Proper Operation” and adjust the door open force.</td>
</tr>
<tr>
<td>Can’t Remove Door Arm From Operator Output Shaft</td>
<td>• Loosen but do not remove the three door arm coupling screws using a ( \frac{3}{16} )″ (4.762 mm) hex wrench. Insert the blade of a large flathead screwdriver into one of the three slots extending from the triangular shape. Then using the shaft as the lever point pry upward on each slot until the door arm pops off. See Figure.</td>
</tr>
<tr>
<td>Can’t Remove Battery From Housing</td>
<td>• Refer to Figure 16, and note the T-shaped channel at the top of battery housing.</td>
</tr>
<tr>
<td></td>
<td>• Insert a small flat head screwdriver into the slot above the T-channel and gently pry the battery from the operator housing.</td>
</tr>
<tr>
<td>Can’t Initialize Remote Control</td>
<td>• Ensure that the battery protective tab has been removed from between the battery and the battery holder.</td>
</tr>
<tr>
<td></td>
<td>• Verify that the CR2032 battery installed in the rf transmitter is good.</td>
</tr>
<tr>
<td></td>
<td>• Refer to section titled “Initializing the Remote Control” and erase all activation codes. THEN:</td>
</tr>
<tr>
<td></td>
<td>• Set and RF switch with a door controller following the instructions in the section titled “Initializing the Remote Control.”</td>
</tr>
<tr>
<td></td>
<td>• Loosen the nuts on the back of the switch plate assembly to ensure that the switch is not stuck in the closed position.</td>
</tr>
<tr>
<td>Symptom</td>
<td>Recommended Remedy</td>
</tr>
<tr>
<td>--------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| Door Stays Open at 90 Degrees                    | • Door arm has slipped on the output shaft.  
  o Refer to section titled, “Installing the Door Arm.”  
  o Refer to Figure 12.  
  o Loosen the three door arm coupling screws.  
  o Ensure the door arm is touching the face of the door.  
  o Tighten the door arm coupling screws evenly (one quarter turn at a time) until fully tight. Apply as much torque as possible to screws.  
• Door arm end link washer has not been installed.  
  o Refer to Figure 12A.  
  o Install supplied washer. (Two are supplied; only one is required.)  
• Door arm rubs on door arm pivot bracket.  
  o Refer to Figures 11 and 12.  
  o Ensure that the operator is mounted parallel to the face of the door.  
  o If the bottom of the operator is further away from the door than the top, shim the top of the operator mounting bracket to compensate.  
• Spring force set too low  
  o Refer to section titled, “Adjusting Door Spring Tension.”  
  o Refer to Figure 17.  
  o Increase spring force – note operators are shipped from factory at maximum spring force.  
• Spring pre-load set too high  
  o Refer to section titled, “Installing the Door Arm.”  
  o Refer to Figure 12.  
  o Remove door arm from the door arm pivot assembly.  
  o Decrease pre-load by rotating the door arm end link counterclockwise.  
  o Note making the door arm longer decreases preload.  
• Door arm pivot bracket too close to door face  
  o Refer to section titled, “Installing to Door Arm Pivot Bracket.”  
  o Refer to Figure 10.  
  o Increase the 6 3/8” (161.92 mm) dimension shown below to 6 1/2” (165.1 mm).  |
| Door Stays Open at 90 Degrees Only When Power Operated | • Refer to section titled, “Programming the Operator,” and perform a retune.                                                                                                                                              |
| When Used Manually the Door Arm Reverses and Does Not Allow the Door to Close | • Door arm has slipped on the output shaft.  
  o Refer to section titled, “Installing the Door Arm.”  
  o Refer to Figure 12.  
  o Loosen the three door arm coupling screws.  
  o Ensure the door arm is touching the face of door.  
  o Tighten the door arm coupling screws evenly (one quarter turn at a time) until fully tight. Apply as much torque as possible to screws.  |

5.16 Replacement Parts

5.16.1 Refer to Attachment 2 for a listing of the ADA EZ replacement parts.
## Attachment 1
### Documents, Definitions, Tools, Equipment, and Consumables

#### Documents

#### Definitions
- LED: Light-emitting diode

#### Tools and Equipment (including, but not limited to)
- Electric drill, metal drill bit set, concrete drill bit set
- Drill bit sizes: 25/64”, 5/32” (9.992, 3.969 mm)
- Combination square
- Hammer
- Adjustable Wrench
- Hex wrench set
- Hex wrench sizes: 3/16”, 9/64”, 1/16” (4.762, 3.572, 1.588 mm)
- Rivnut installer
- Staple gun*
- Safety glasses
- Screwdriver kit
- 7/16” (11.112 mm) Box Wrench
- Scribe or center punch
- Wire cutters*
- Hammer
- Screwdriver kit
- 7/16” (11.112 mm) Box Wrench
- Scribe or center punch
- Wire strippers*

#### Consumables (including, but not limited to)
- Clean rags
- Glass cleaner

#### Notes
- Battery fuse: 5-amp slow-blow fuse
- Optional plug-in transformer: Input: 120 VAC 50-60 Hz; Output: 30 VDC, 500 mA
- Transmitter battery: 3 volt, 280 mAH, Lithium, part number CR2032
- The ADA EZ utilizes a lithium-polymer main battery. Fully discharged lithium-polymer batteries are environmentally friendly and landfill safe. Dynatool recycles all ADA EZ lithium polymer batteries. Please return all discharged ADA EZ batteries to Dynatool.
## Attachment 2
### Replacement Parts
   (Sheet 2 of 2)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1001</td>
<td>Door Arm Assembly</td>
<td>1008</td>
<td>Wireless Pushbutton Transmitter</td>
</tr>
<tr>
<td>1002</td>
<td>Operator Dress Cover Black (BHMA693) Finish</td>
<td>1009</td>
<td>Mounting Hardware Kit</td>
</tr>
<tr>
<td>1003</td>
<td>Operator Dress Cover Dark (BHMA710) Finish Bronze</td>
<td>1010</td>
<td>Door Operator Assembly, Right Hand</td>
</tr>
<tr>
<td>1004</td>
<td>Operator Dress Cover Aluminum (BHMA628) Finish</td>
<td>1011</td>
<td>Door Operator Assembly, Left Hand</td>
</tr>
<tr>
<td>1005</td>
<td>Electronic Control Kit</td>
<td>1012</td>
<td>Wireless Pushbutton Assembly (wireless pushbutton transmitter not included)</td>
</tr>
<tr>
<td>1006</td>
<td>Operator Mounting Bracket</td>
<td>1013</td>
<td>Door Arm Pivot Assembly</td>
</tr>
<tr>
<td>1007</td>
<td>Battery Assembly</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Quick Programming Guide

### (Sheet 1 of 2)

<table>
<thead>
<tr>
<th>Step</th>
<th>Operator Action</th>
<th>Response</th>
</tr>
</thead>
</table>
| 1.   | Refer to Figure 3 and, at the base of the controller, PRESS and HOLD the “SELECT” and “ENTER” pushbuttons for three seconds. | • 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. |

### NOTE

The doors are shipped with a MAXIMUM spring tension.  
Always reprogram the operator after adjusting the door spring tension.

2. With the door in the closed position, PRESS the “ENTER” pushbutton.  
   • 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.

3. OPEN the door to its fully open position

4. With the door in the fully open position, PRESS the “ENTER” pushbutton.  
   • 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.

5. With the door in the fully closed position, PRESS the “ENTER” pushbutton.  
   • The door shall open quickly and then close.  
   • The “AUTO SETUP” led shall illuminate green.

6. PRESS and HOLD the “ENTER” pushbutton for three seconds.  
   • The “AUTO SETUP” led shall go out.  
   • The second LED (not labeled) shall flash green.  
   • The door shall be tuned.

7. 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.

8. If further door adjustments are necessary, refer to Section 5.10, and PERFORM adjustment.
## Initializing the Remote Control

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>To set an RF switch with a door controller, PERFORM the following:</td>
</tr>
<tr>
<td>a.</td>
<td>PUSH the “LEARN” switch on the controller. <strong>The controller will enter the learn mode for 10 seconds while green and red LEDs are illuminated.</strong></td>
</tr>
<tr>
<td>b.</td>
<td>PUSH the RF activation switch. <strong>LED DS7 shall flash green indicating that the operator learned this rf switch.</strong></td>
</tr>
<tr>
<td>2.</td>
<td>To erase all activation codes learned in the door controller, PERFORM the following:</td>
</tr>
<tr>
<td>a.</td>
<td>REMOVE the batteries from the operator</td>
</tr>
<tr>
<td>b.</td>
<td>WAIT 30 seconds</td>
</tr>
<tr>
<td>c.</td>
<td>PUSH the “LEARN” switch on the operator</td>
</tr>
<tr>
<td>d.</td>
<td>INSTALL the batteries into the operator. LED DS7 shall flash green indicating that the operator memory is clear</td>
</tr>
</tbody>
</table>