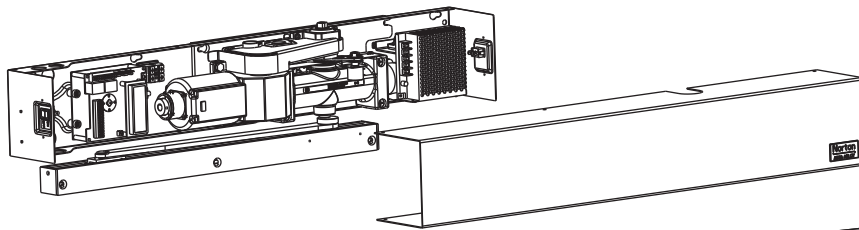
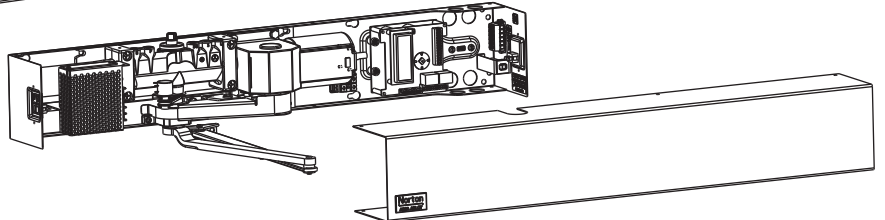


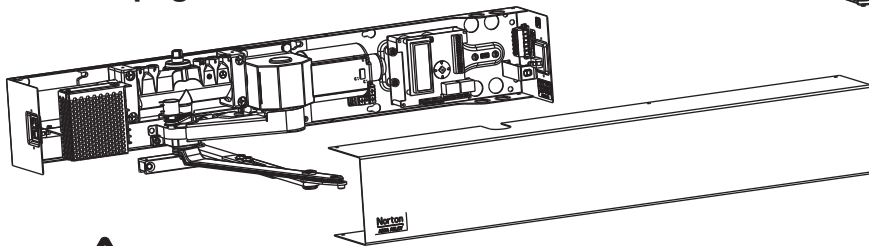
For replacement of 6010LAP on existing 6010 or 6050 installs, see page 2.



For replacement of 6020LAP on existing 6020 or 6030 installs, see page 4.



For replacement of 6020LAP on existing 6060 or 6070 installs, see page 6.



WARNING: Make sure that (120V, 60Hz) input power is turned off at facility's main circuit breaker before proceeding with installation.

IMPORTANT INSTALLATION INSTRUCTIONS

- 1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to any hardware before installing the operator.
- 3) Remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) that are connected to the door before installing the operator.
- 4) Do not connect the door operator to the source power until instructed to do so.

WARNING: To reduce the risk of injury to person, use this operator only with Pedestrian Swing doors.
For Indoor Use Only.

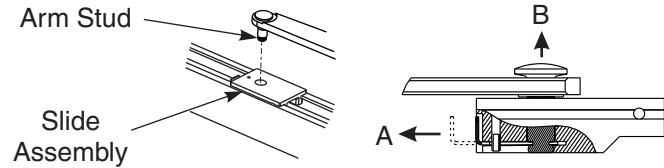
ETL certified; conforms to ANSI/UL standard 325 for automatic closing doors and UL10C Positive Pressure Fire Test for Door Assemblies. Certified to ANSI/BHMA A156.19 for Low Energy Door Operators.

1 Turn off Power

- A. Turn On/Off switch on end cap to the Off position before proceeding.

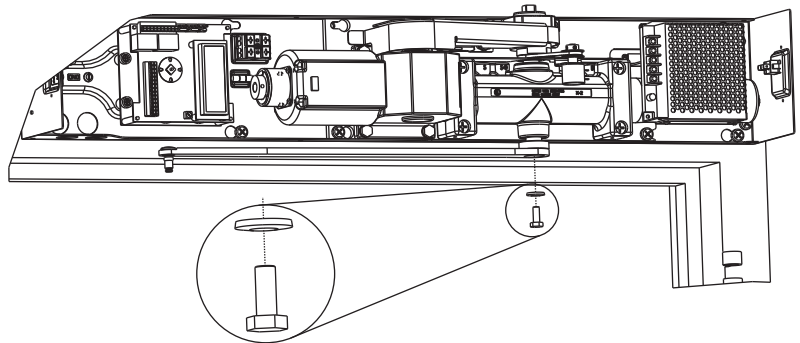
2a For 6010/6050 Units Only: Disconnect Arm From Track

- A. Use small flat blade screw driver to pull clip on back side of Slide Assembly out to disengage Arm Stud.
- B. Pull up on arm until Arm Stud disengages from Slide Assembly. **CAUTION:** Arm will try to close due to spring power on closer.



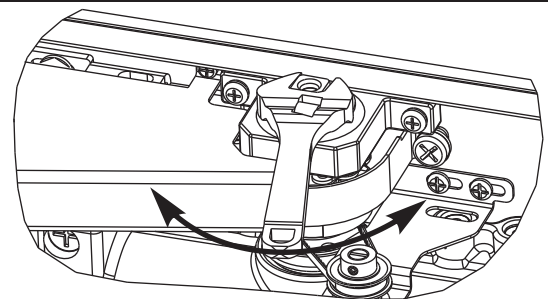
2b Remove Arm Screw From Pinion

- A. Use 7/16" wrench to loosen and remove arm screw and washer.



2c Disassemble Arm From Pinion

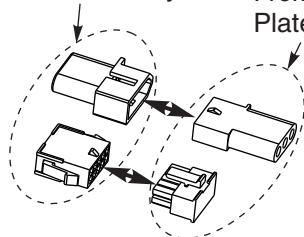
- A. Use adjustable wrench to rotate pinion square on top side of unit approximately 45° so arm moves away from frame.
- B. Remove arm from pinion.
- C. Allow adjustable wrench to rotate back and remove.



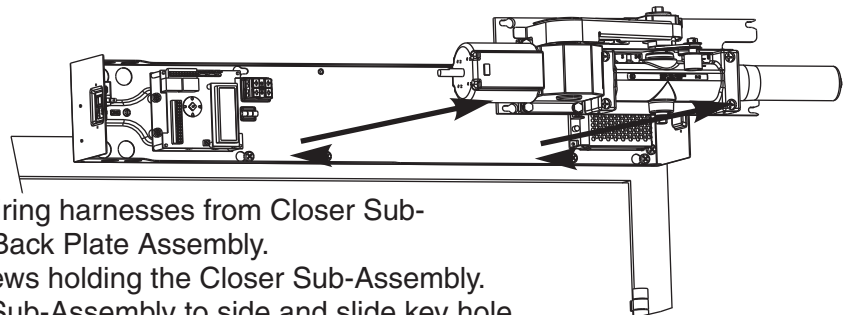
2d Disassemble Closer Sub-Assembly

From Closer Sub-Assembly

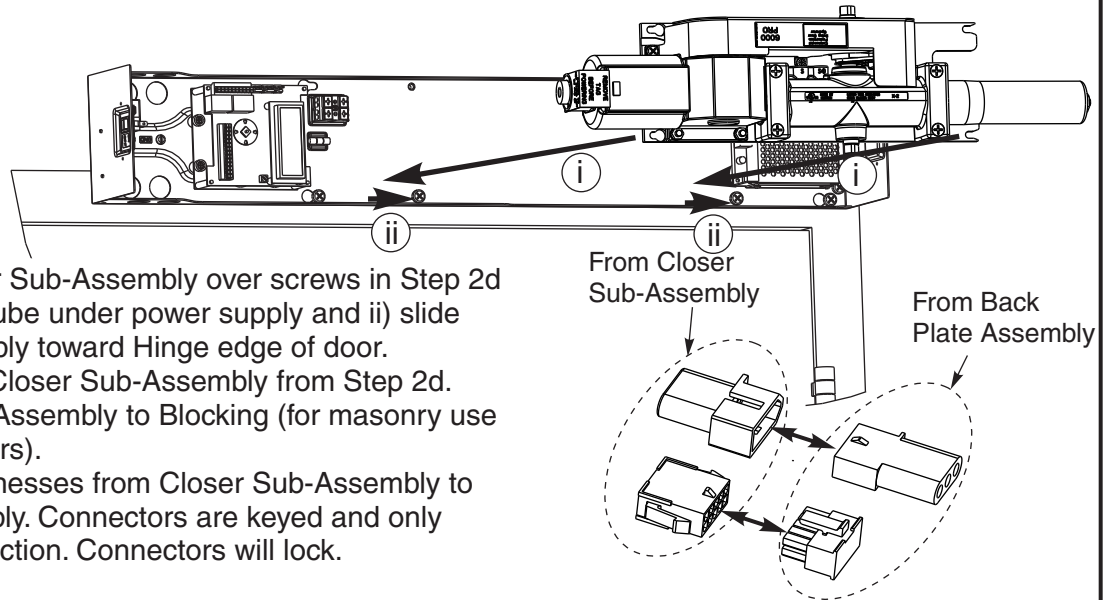
From Back Plate Assembly



- A. Disconnect wiring harnesses from Closer Sub-Assembly to Back Plate Assembly.
- B. Loosen 4 screws holding the Closer Sub-Assembly.
- C. Slide Closer Sub-Assembly to side and slide key hole in back plate over screws to remove Sub-Assembly.



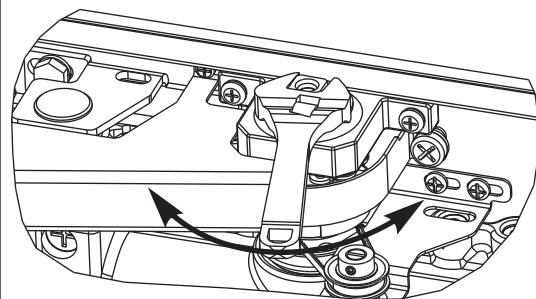
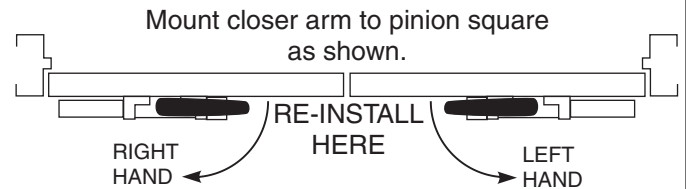
2e Assembly Closer Sub-Assembly



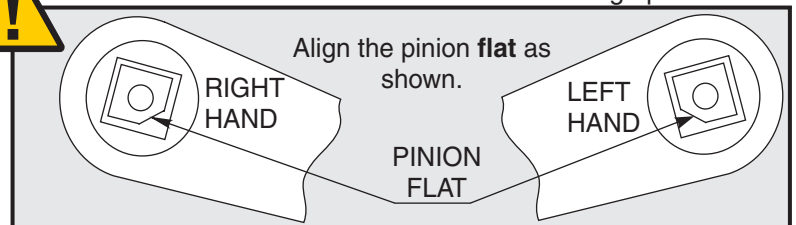
- A. i) Install new Closer Sub-Assembly over screws in Step 2d with closer spring tube under power supply and ii) slide Closer Sub-Assembly toward Hinge edge of door.
- B. Secure screws for Closer Sub-Assembly from Step 2d.
- C. Secure top of Sub-Assembly to Blocking (for masonry use anchors and spacers).
- D. Connect wiring harnesses from Closer Sub-Assembly to Back Plate Assembly. Connectors are keyed and only connect in one direction. Connectors will lock.

2f Assemble Arm to Pinion

- A. Use adjustable wrench to rotate pinion square on top side of unit approximately 45°.
- B. With arm parallel to frame, as at right, and pinion flats oriented as at right mount arm onto pinion square.

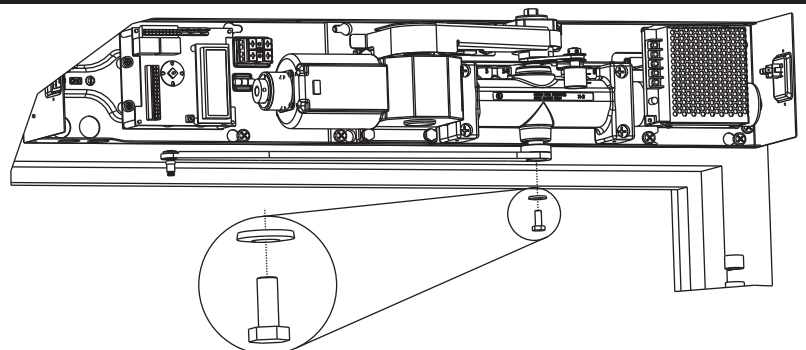


All views from floor looking upward



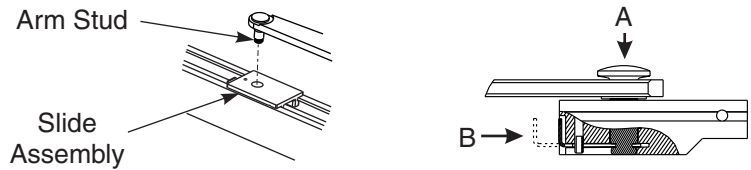
2g Secure Arm to Pinion

- A. Attach arm with provided screw and washer.
- B. Tighten arm screw with 7/16" wrench.



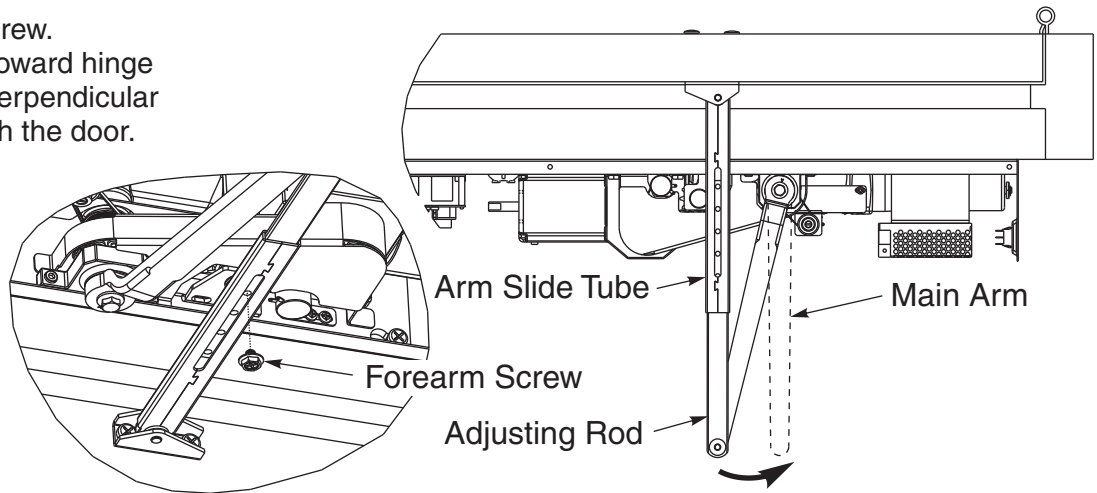
2h Connect Arm To Track

- A. Insert Arm Stud into Slide Assembly
- B. Press clip on back side of Slide Assembly onto Arm Stud.



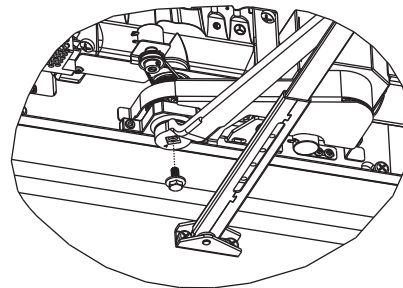
3a For 6020/6030 Units Only: Loosen Arm Assembly

- A. Loosen forearm screw.
- B. Rotate Main Arm toward hinge until Main Arm is perpendicular (at 90 degrees) with the door.



3b Remove Screw and Arm from Pinion

- A. Loosen and remove arm screw with 7/16" wrench.
- B. Remove Main Arm from pinion.

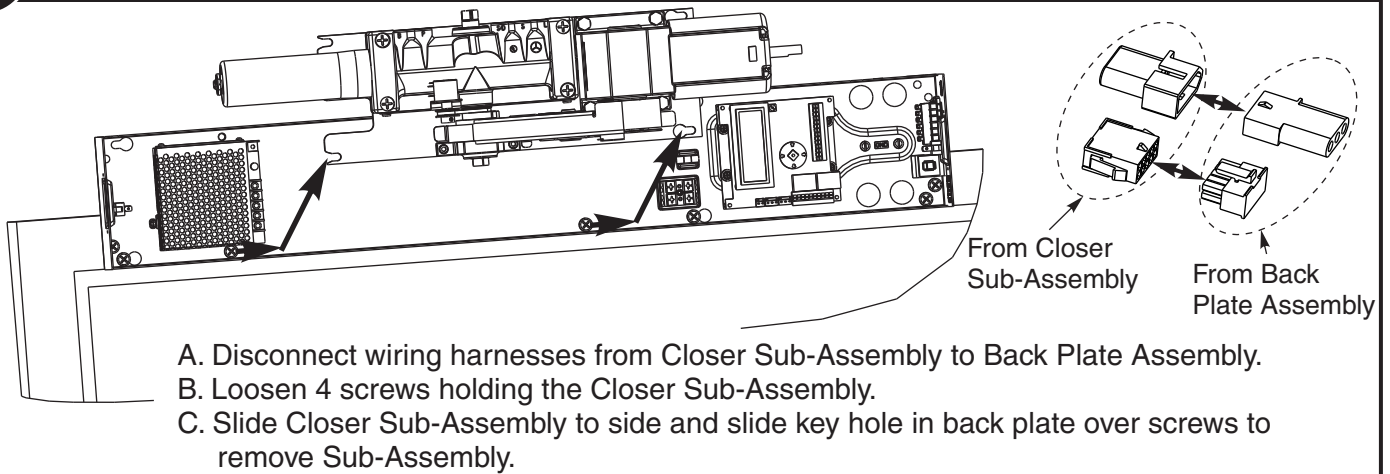


For assistance, contact Norton Technical Product Support at 800-438-1951 Ext 6030.

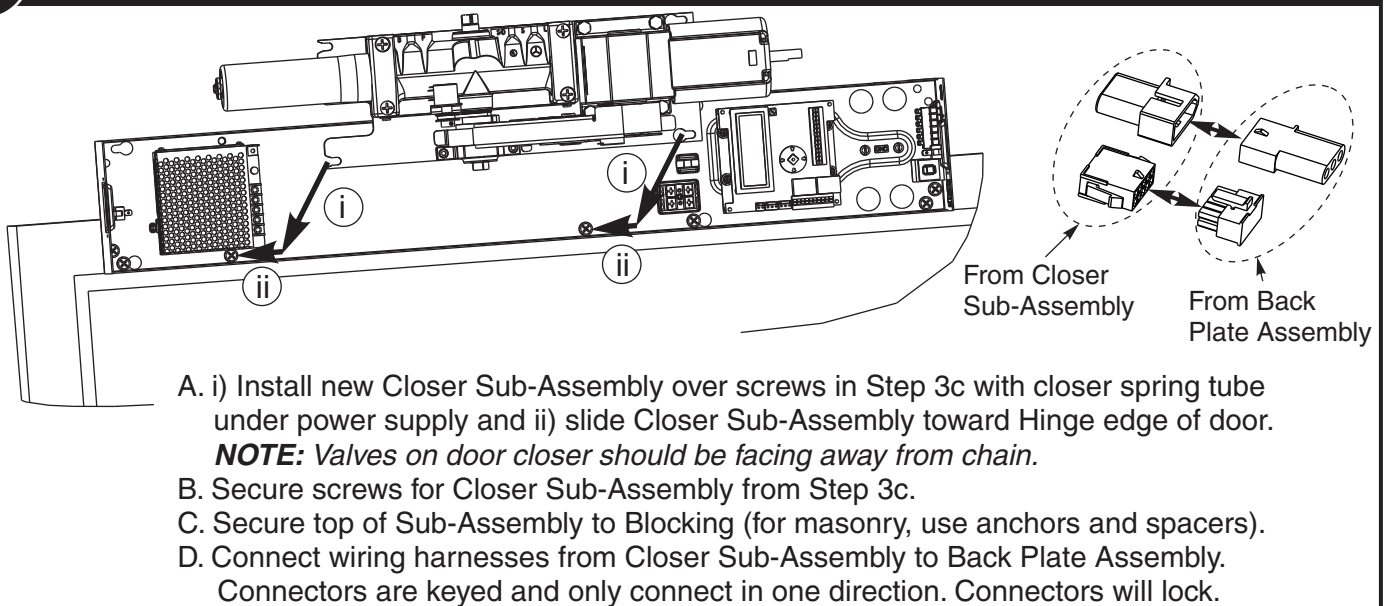
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ASSA ABLOY

3000 Highway 74 East • Monroe, NC 28112
Tel: (800)-438-1951 ext. 6030
www.nortondoорcontrols.com
support.aadcg@assaabloy.com

3c Disassemble Closer Sub-Assembly

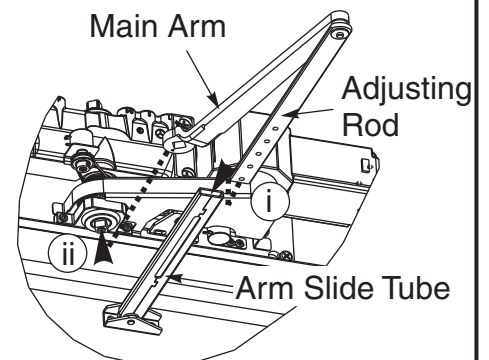
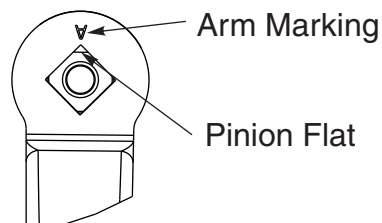


3d Assemble Closer Sub-Assembly



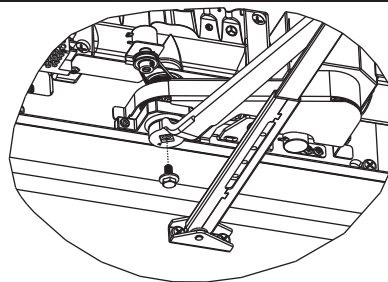
3e Assemble Arm to Pinion

A. i) Slide Adjusting Rod into Tube of Arm Slide and Tube Assembly. ii) Place square of Main Arm onto pinion with pinion flat and arm marking as shown below.



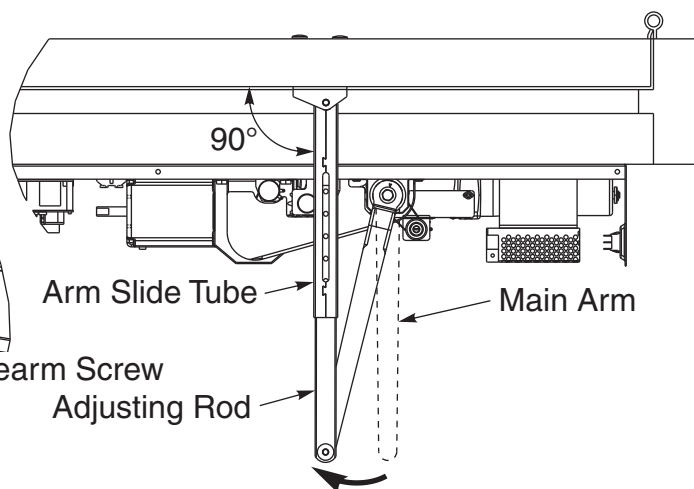
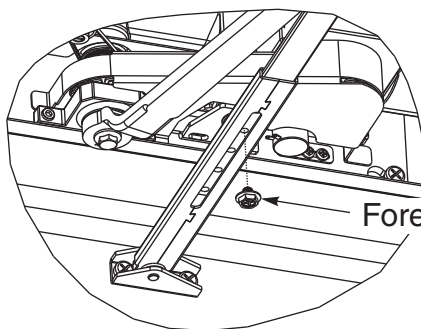
3f Secure Arm to Pinion

- A. Attach arm with provided screw.
- B. Tighten arm screw with 7/16" wrench.



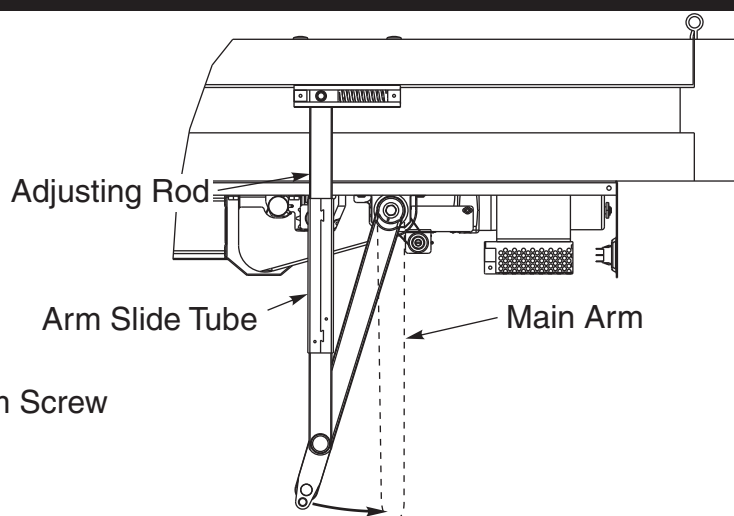
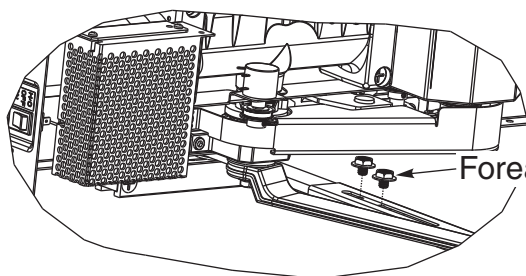
3g Secure Adjusting Rod and Arm Slide Tube

- A. Rotate Main Arm away from hinge until Adjusting Rod and Arm Slide Tube are perpendicular (at 90 degrees) with the door.
- B. Secure with forearm screw.



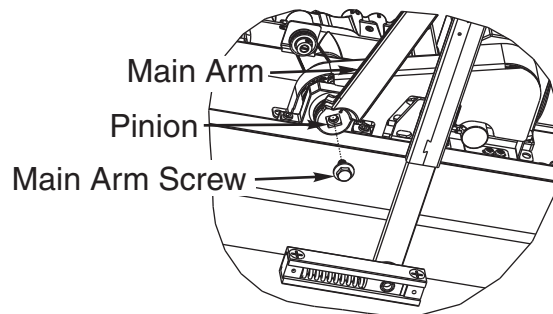
4a For 6060/6070 Units Only: Loosen Adjusting Rod and Arm Slide Tube

- A. Loosen forearm screws.
- B. Rotate Main Arm toward hinge until Main Arm is perpendicular (at 90 degrees) with the door.

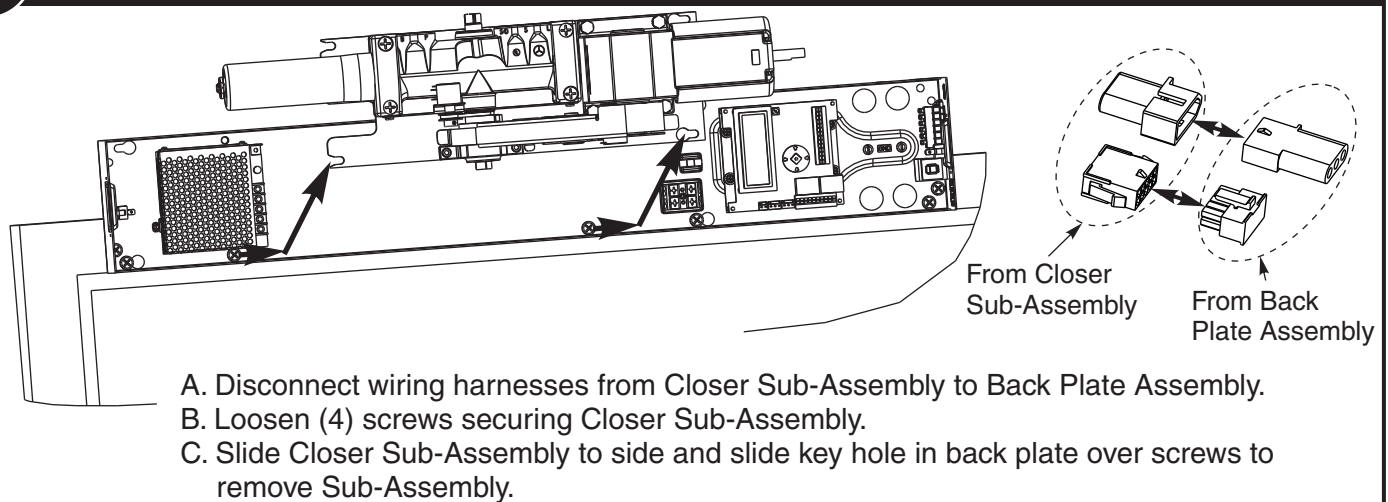


4b Remove Arm from Pinion

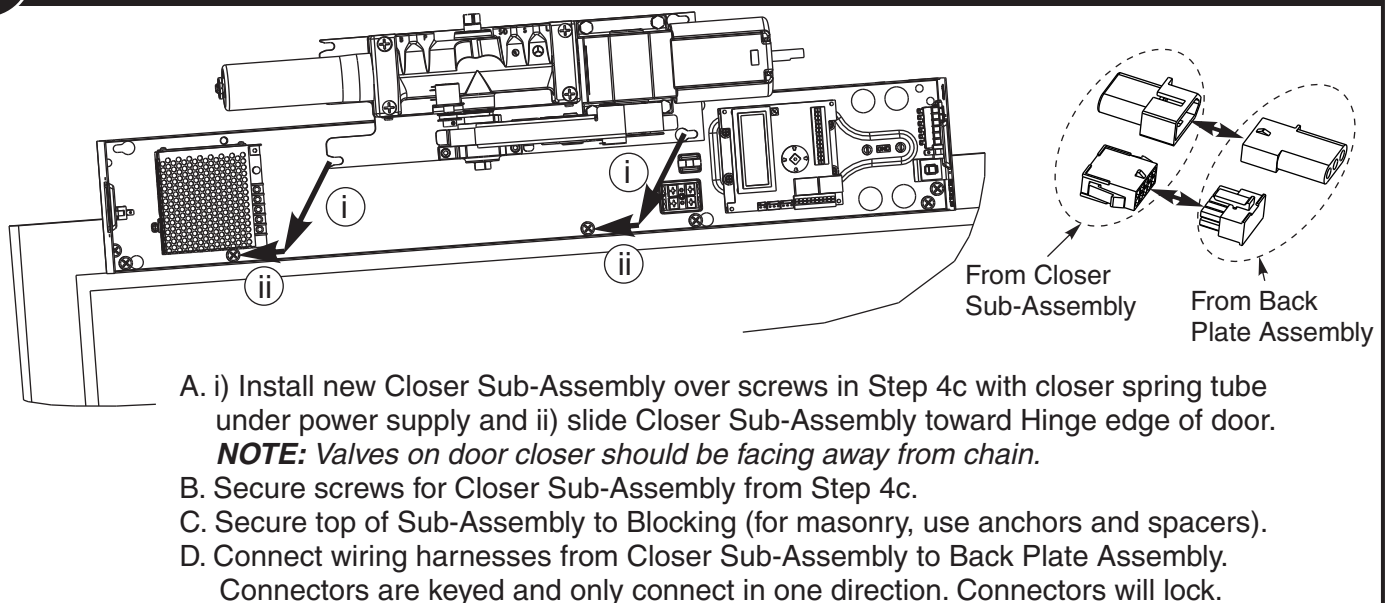
- A. Loosen and remove arm screw from pinion with 7/16" wrench.
- B. Remove Main Arm from Pinion.



4c Disassemble Closer Sub-Assembly

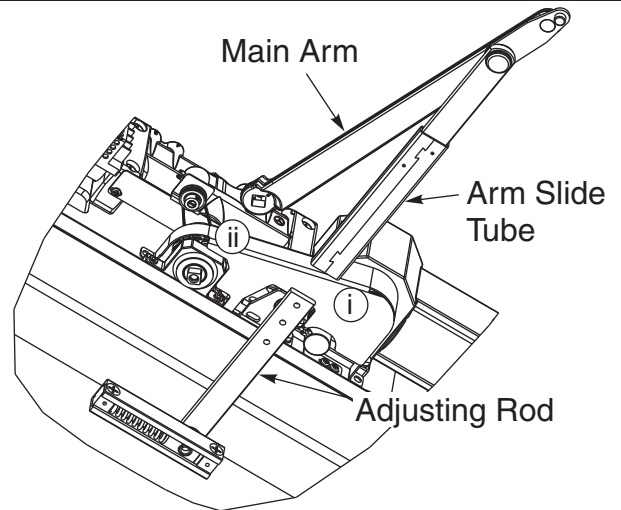
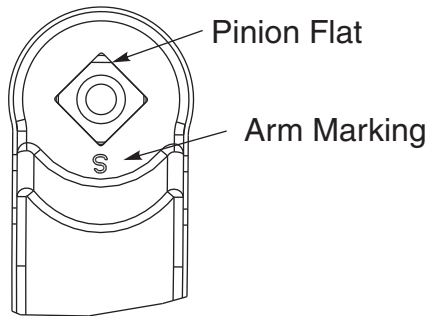


4d Assembly Closer Sub-Assembly



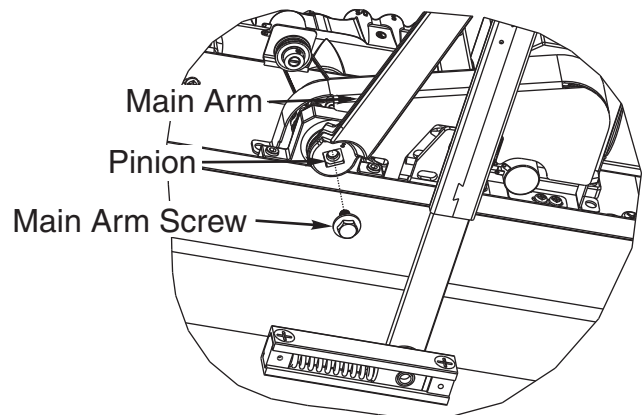
4e Assemble Arm to Pinion

A. i) Slide Adjusting Rod into Tube of Arm Slide and Tube Assembly. ii) Place square of Main Arm onto pinion with pinion flat and arm marking as shown below.



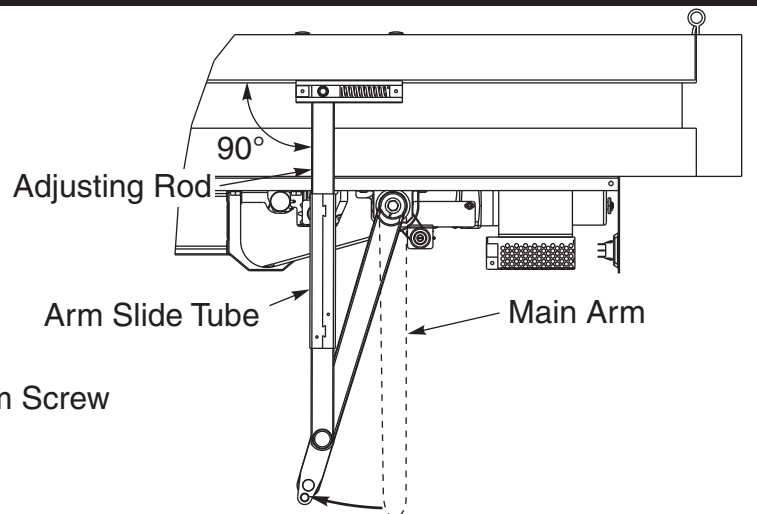
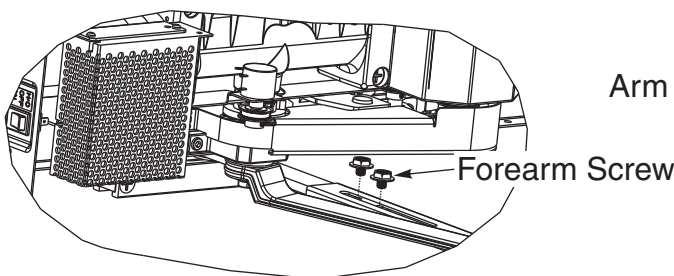
4f Secure Arm to Pinion

A. Secure Main Arm to Pinion with provided screw.
B. Tighten arm screw with 7/16" wrench.



4g Secure Adjusting Rod and Arm Slide Tube

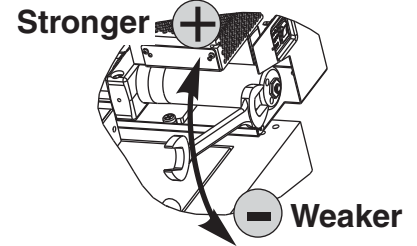
A. Rotate Main Arm away from hinge until Adjusting Rod and Arm Slide Tube are perpendicular (at 90 degrees) with the door.
B. Secure with forearm screws.



5 Closer Spring Force Adjustment

Pull side closers are shipped with spring force at maximum adjustment. Spring force can be lowered as required.

NOTE: A closer set to the ADA required 5 lbs opening force may not be strong enough to close the door due to latching hardware, air pressure, or frame issues.



6 Mechanical Closer Adjustments

Closer Must function mechanically as a standard door closer before applying any power.

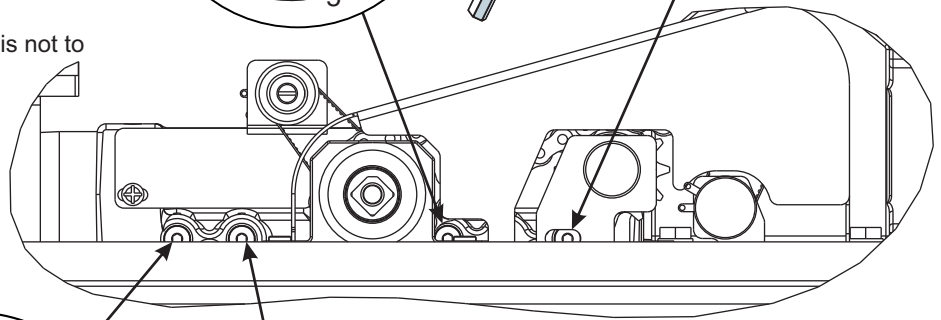
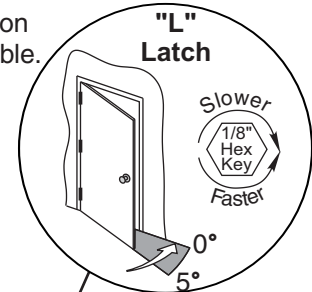
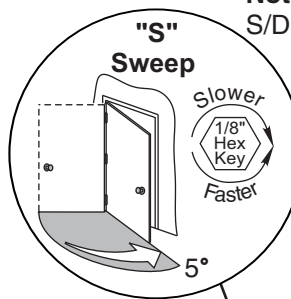
Closing Speed Controls

- Valve "S" Controls Sweep Range from full open to 5°.
- Valve "L" Controls Latch Range from 5° to closed.

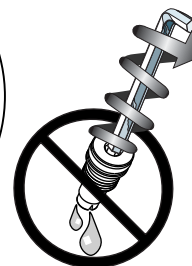
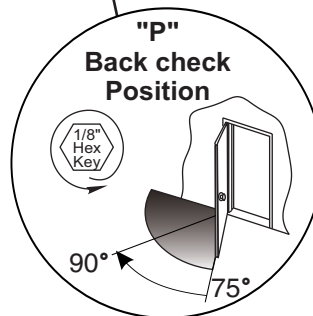
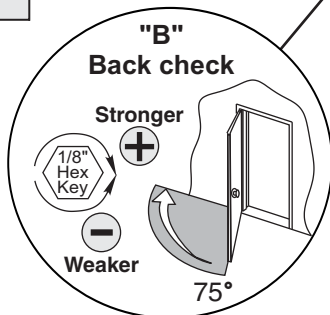
Opening Cycle

- Valve "B" controls the strength of cushioning in Back check Range. NEVER close this valve completely – it is not to provide a positive stop.
- Valve "P" adjusts the angle that back check is felt in the open cycle.

Note: Valve location S/D is not adjustable.



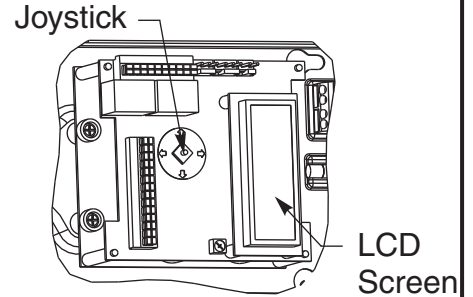
Never Close back check valve completely



Do not remove valves from closer. Hydraulic oil will escape.

7 Controller Interface

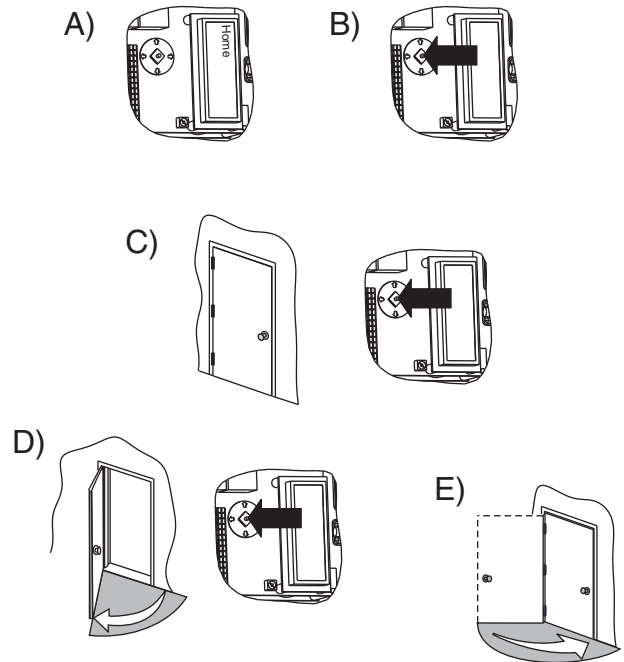
- A. To power unit, flip switch on end cap furthest from the hinge from “OFF” to “ON” position.
- B. To scroll thru menu items, push up or down on joystick.
- C. To change setting of a menu item, when cursor is on that item, push joystick right to increase or left to decrease value.
- D. To permanently accept changes to settings, scroll down to “Save Values” and press in on the joystick. **NOTE:** If power is turned off to the unit before “Save Values” has been accepted to “Saved”, any changes made to that point will be lost.



See Page 12 for Controller Adjustment Options.

8 Set Home and Open Positions

- A. With door closed and 3-position switch on end of back plate in the “OFF” position, use joystick to scroll down menu on LCD screen to “Home”.
- B. Push in on joystick to activate menu feature. Display changes to “Set Close Limit”.
- C. Push in on joystick again, while door is still closed, to set the Home or closed position. Display changes to “Set Open Limit”.
- D. Open door to desired open position and push in on joystick again. Display changes to “Closing to Home”.
- E. Allow door to fully close again. Display changes to “Home”.
- F. Scroll to Save Values and push in on joystick to permanently save open and closed positions.

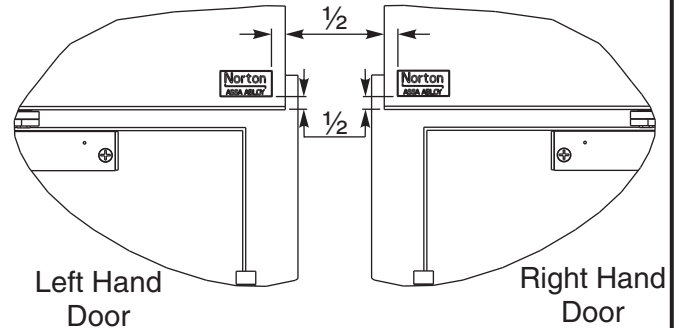
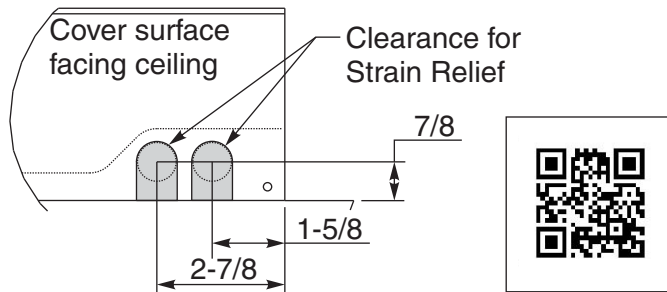
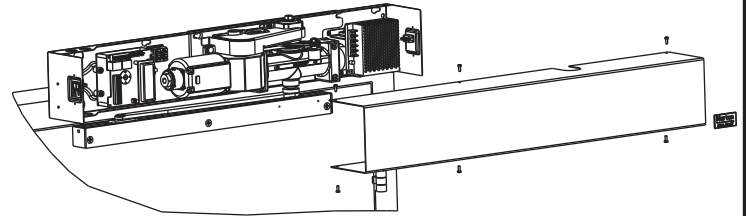


IMPORTANT SAFETY INSTRUCTIONS - WARNING: To reduce the risk of severe injury or death

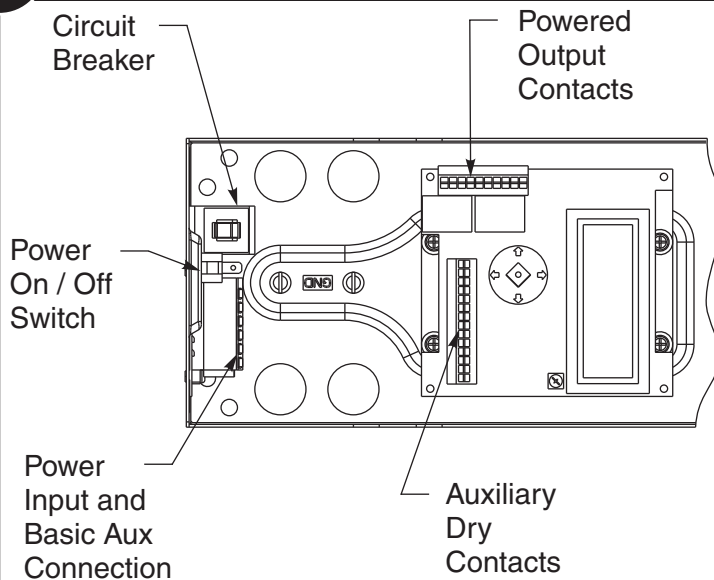
- 1) READ AND FOLLOW ALL INSTRUCTIONS.
- 2) Never let children operate or play with door controls. Keep the remote control (where provided) away from children.
- 3) Personnel should keep away from a moving door in motion.
- 4) Test the door’s safety features at least once a month. After adjusting either the force or the limit of travel, retest the door operator’s safety features.
- 5) KEEP DOOR PROPERLY OPERATING. See Door Manufacturer’s Owner’s Manual. An improperly operating door could cause severe injury or death. Have a trained door systems technician make repairs.
- 6) SAVE THESE INSTRUCTIONS.

18 Install Cover and Label

- If using Surface Mount power input **ONLY**, remove appropriate shaded area from cover, see illustration below. Repaint cut edges as necessary to prevent corrosion.
- Place cover over unit and secure with (6) 6-32 screws taken out previously.
- Attach label to cover as shown at right.



General Electrical Information



- Power inputs at Power Input Connection and Power Output Contacts must be made with copper wire only.
- Maximum wire size:
12 AWG at Power Input connection
14 AWG at all other terminals.
- Power input at terminals LINE and NEUTRAL must be 120VAC at 60 Hz (+10%, -15%).
- Maximum current draw from auxiliary devices is 1.3 amps.
- All wiring and connections use standard wiring practice conforming with local wiring codes.
- Labeled fire or smoke barrier door assemblies require the 120VAC 60Hz power input be supplied through normally closed alarm contacts of the alarm system / alarm panel.**

Controller Interface Description

Screen Display	Adjustments	Default	Description
Mount:	Push or Pull	Pull	Side of opening operator is mounted on
Push:	OFF or PushNGo	Off	Turn on or off Push N Go feature. If On, a slight push or pull of the door starts it automatically opening.
Obst Delay:	0 - 5 sec in 1 sec increments	3s	Obstruction Delay: the amount of time the operator will push against an obstruction before closing if during an opening cycle or reopening and trying to close again if during a closing cycle.
Hold Open:	0 - 30 sec in 1 sec increments	6s	Amount of time door will stay in full open position.
Open Speed:	0 - 100% in 1% increments	100	How fast the door opens to full open position.
Close Speed:	0 - 100% in 1% increments	60	How fast the motor returns to the home position. As Latch and Sweep on the closer are adjusted, adjustments may be needed for Close Speed to assure closer is not trying to backdrive the motor.
Slow Speed:	0 - 100% in 1% increments	55	Speed up or slow down door during last few degrees of opening.
Hold Speed:	0 - 100% in 1% increments	55	Increase or decrease hold open force (when in "ON" position only, not "H/O") to compensate for spring force, wind conditions, etc
Start Delay:	0 - 10 sec in 1 sec increments	0s	Time before operator begins to open door. This is to allow accessories time to function and not hinder the opening of the door.
Vestibule:	OFF, 5 - 30 in 5 sec increments	Off	Amount of delay for opening 2nd vestibule door
Latch Rtrct:	OFF, 3 - 45 in 3 sec increments	Off	Amount of time power is supplied to a latch retraction device.
Alarm Delay:	OFF, 30 sec, 60 sec	Off	Used only for alarm accessories.
A2	Standard, Presence Off, Presence On	Standard	A2 input can be used for Alarm Delay or Input for door mounted presence detector: Presence Off - door will not reactivate; Presence On - door will reopen if presence detected during closing cycle.
Rly2:	Alarm, Activation, On Opened, On Closed	Alarm	How Relay 2 is used: Alarm - used with above Alarm Delay; Activation - acts as an additional NO / NC contact; On Opened - relay trips (closed contacts) when door is in opened position; On Closed - relay trips (closed contacts) when door reaches the fully closed position.
Cycles:	not adjustable	-	Number of electrical cycles on the operator.
Days:	not adjustable	-	Number of full days electricity have been supplied to the operator.
Open Time	not adjustable	-	Time it took for previous opening cycle to go from Home to fully open position.
Close Time	not adjustable	-	Time it took for previous closing cycle to go from fully open position to Home.
Errors	not adjustable	-	Error code seen by controller. See below for Troubleshooting codes.
Home	see Setting Open Position	-	Used to set the Home position and the Fully Open positions of the operator.
Save Values	Save Values or Saved	-	Used to permanently add adjustments to controller's memory.