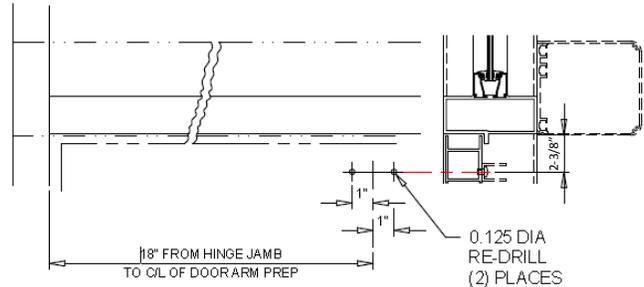
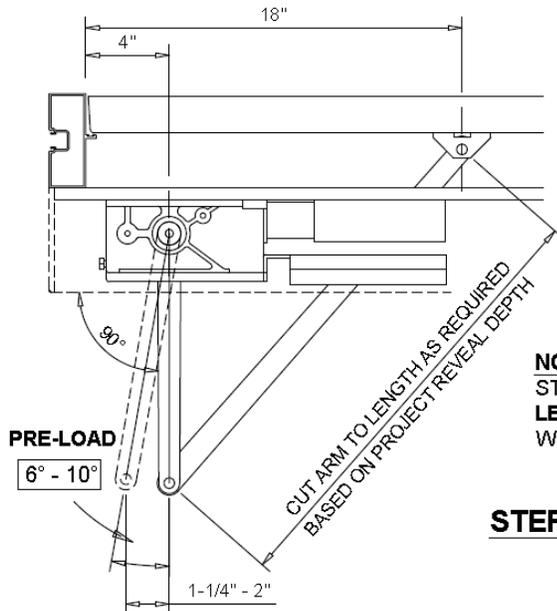


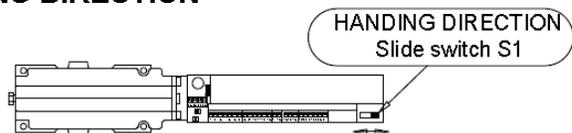
DEVICES COVERED IN THIS DOCUMENT: 8400 Operator with Standard Push Arm

**STEP 1 - ARM PRE-LOAD** Arm installation to be completed prior to powering up the operator



**NOTE:**  
 STANDARD ARM ACCOMMODATES UP TO A 12" REVEAL. **MUST CUT TO LENGTH** AS REQUIRED TO MAINTAIN 90° ANGLE FOR INSTALLATIONS WITH SMALLER REVEALS.

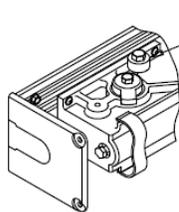
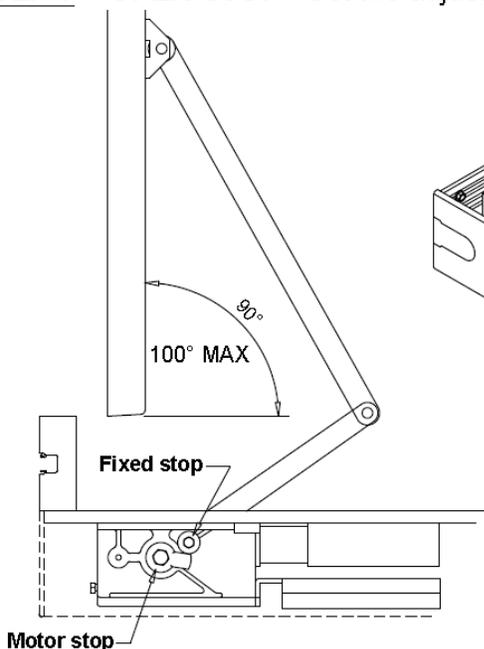
**STEP 2 - SWING DIRECTION**



**NOTE:**  
 With **NO** power applied to the operator, attach the main arm to the motor allowing for a minimum of 6° pre-load and pull against motor resistance to make the final 90° connection to the door portion. Arm spindle adaptor has splines to allow for adjustment in 6° increments.

After attaching the arm if the operator does not close slowly when opened manually, the handing direction will need to be changed. With no power applied, slide switch to to change direction.

**STEP 3 - OPEN STOP** - Set the adjustable stop prior to conducting a calibration run.



**Fixed stop** is slightly eccentric; loosen fastener and rotate for smaller adjustments.



**Motor stop** is splined allowing for indexing in 6° increments. Rotate the fixed stop for smaller adjustment.

**SETTING THE OPENING STOP**

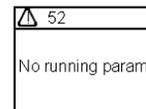
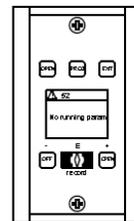
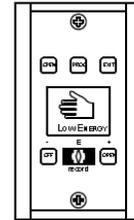
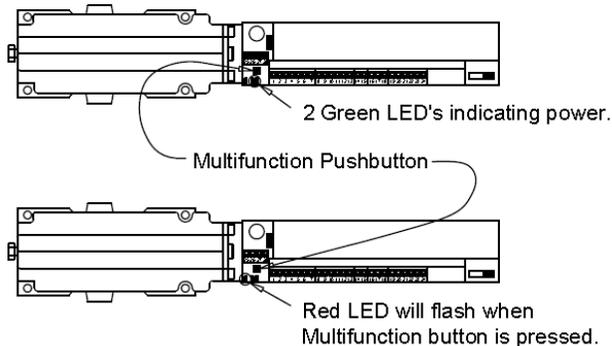
Pull door to desired open angle and set the spindle stop so that it contacts the fixed stop on the top of the motor.

Building and safety codes for entrance products and hardware vary widely. Operators are factory set for LOW ENERGY USA / ANSI A156.19. Any variation in this setting will require AAADM certification. Hager Companies recommends reviewing local codes for your specific application and assumes no responsibility. These drawings are for reference only. Hager Companies reserves the right to change these drawings when deemed necessary for improvement. © HAGER COMPANIES, INC. 2013

## STEP 4 - RESET and CALIBRATION

- Verify arm installed correctly and door operates properly mechanically.
- Apply 120VAC power to operator to allow for reset and calibration of operator.

Upon powering up the display at the end of the operator should read "LOW ENERGY" and two green LED's will light up.



### RESET:

- Press and HOLD multifunction button for (8) red flashes.
- Display will reset and message 52 "No run param" will appear.

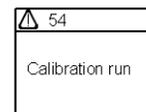
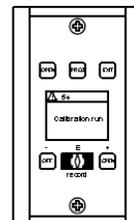
**NOTE:**  
- If Pair operator, reset master first, then slave.

**NOTE:** On pair units you will need to set the slave control in programming after the resetting process. Press and hold multifunction button for (4) red flashes. The display will change to the programming menu. Using the "+" button scroll down to "Param Slave" / press "Record" button / scroll down to "Control Panel" / press "Record" button / "Mech Panel" / Press "Record" button / scroll up to "3 POS Auto" and press "Record" button to select / press "PROG" button until the "exit programming" screen is displayed / press "Record" button to exit.

### CALIBRATION:

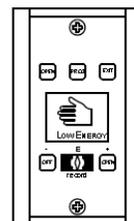
- Door **MUST** be calibrated before applying an activation.
- Verify the door is unlocked.
- Press and HOLD multi function button for (3) red flashes.
- Display will read 54 "Calibration run".
- Door must complete one complete cycle with no obstructions.
- Display will show hand and "Low Energy"

**NOTE:**  
- If Pair operator, calibrate master first, then slave.



### VERIFY CALIBRATION:

- With the door unlocked Press the multifunction button for (1) red flash.
- Door will swing to full open and return to closed position.



### ACTIVATION:

- Connect wires from push button to terminals 1 and 2.

