

Rigid Arm and Slide Track

Hinge (pull) side of door mounting

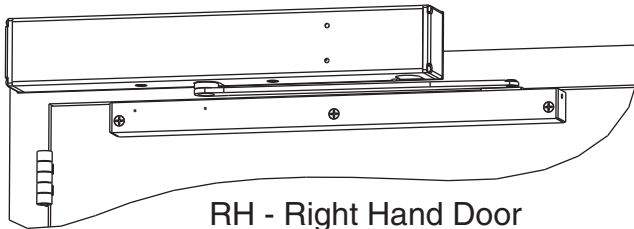
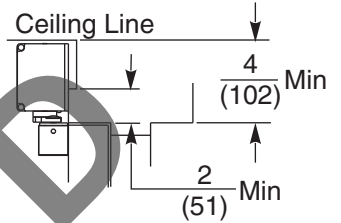
Combination Door Closer-Holder and Releasing Device Signaled by External Detection Equipment

All dimensions shown are in inches and (millimeters) unless otherwise noted.

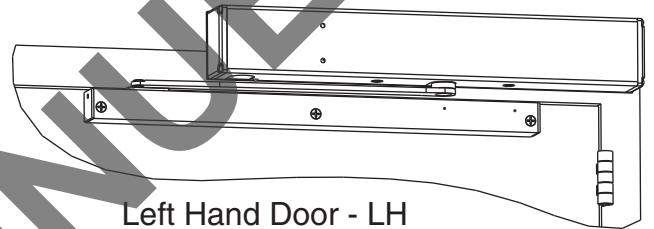
CAUTION AN INCORRECTLY INSTALLED OR IMPROPERLY ADJUSTED DOOR CLOSER CAN CAUSE PROPERTY DAMAGE OR PERSONAL INJURY. THESE INSTALLATION INSTRUCTIONS SHOULD BE FOLLOWED TO AVOID THE POSSIBILITY OF MISAPPLICATION OR MISADJUSTMENT.

Installation Instructions
80-9372-0081-015 (02-09)

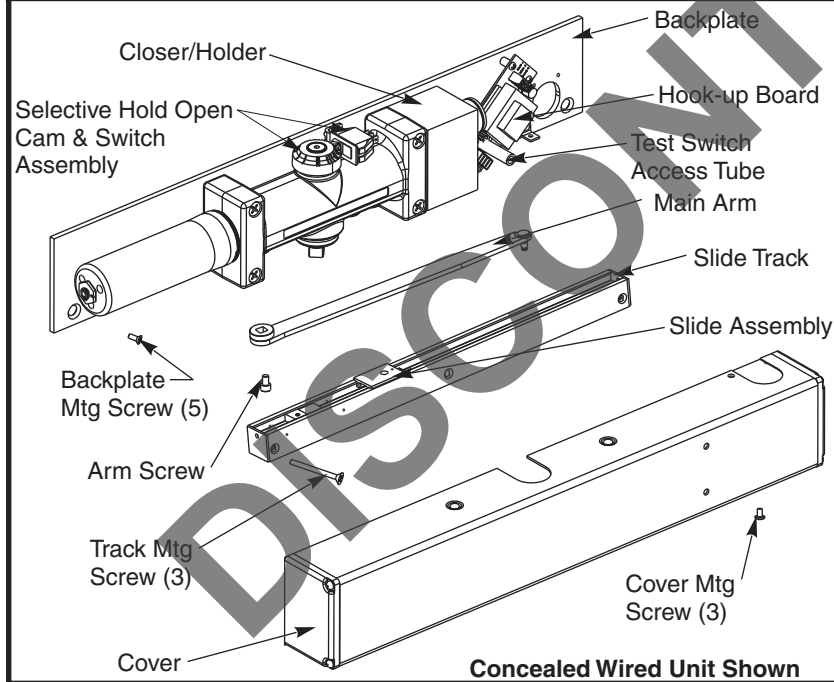
Support Unit Models 4 PULL Selective Multipoint Hold Open



RH - Right Hand Door
LHR - Left Hand Reverse



Left Hand Door - LH
Right Hand Reverse - RHR



Concealed Wired Unit Shown

Preparation for Fasteners

| | Fasteners | Door or Frame | Drill-Sizes |
|----------|--------------------------------|------------------|--|
| Standard | 1/4" - 20 machine screw | Metal | Drill: #7 (0.201" dia.) Tap: 1/4" - 20 |
| | Sleeve nuts and bolts | Hollow Metal | 9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer |
| | | Aluminum or Wood | 3/8" (9.5 mm) through |
| Optional | Through-bolts and grommet-nuts | All | 9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer |

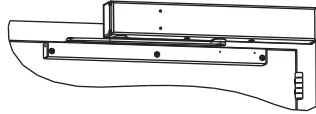
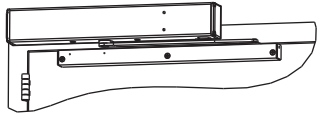
Use of an auxiliary door stop, by others, is suggested, but is required for doors opening beyond 110°.

Requirements:

- Units are handed. Hand of unit and hand of door must be the same.
- Door must be hung on butt hinges or 3/4" (19) offset pivots.
- Door thickness must be 1 3/4" (44) minimum 2 1/4" (64) maximum.
- Door must swing freely through the entire opening and closing cycle before beginning the installation procedure.
- Frame face must be a minimum of 2" (51).
- Ceiling clearance must be a minimum of 4" (102).
- Power input to unit must be of the same voltage as that stated on the unit.
- Unit to be mounted on interior of building in dry environment, maximum humidity of 95%.
- See NFPA70 for wiring requirements and NFPA72 for alarm system requirements.

NOTE: For special applications a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

1 Determine Hand

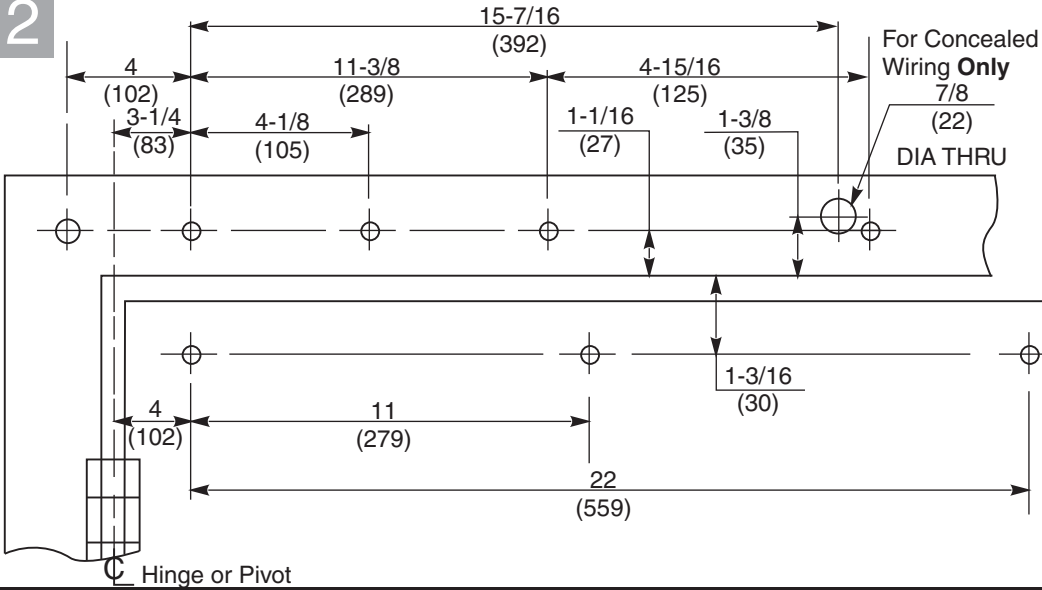


RH - Right Hand Door

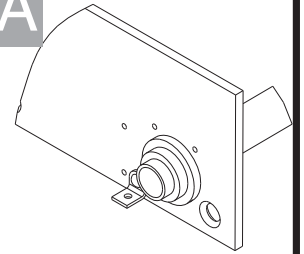
Left Hand Door - LH

LHR - Left Hand Reverse Right Hand Reverse - RHR

2

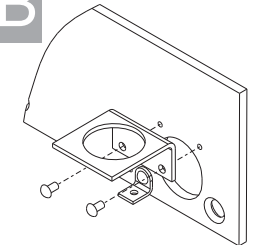


3A



For Concealed Wire Only

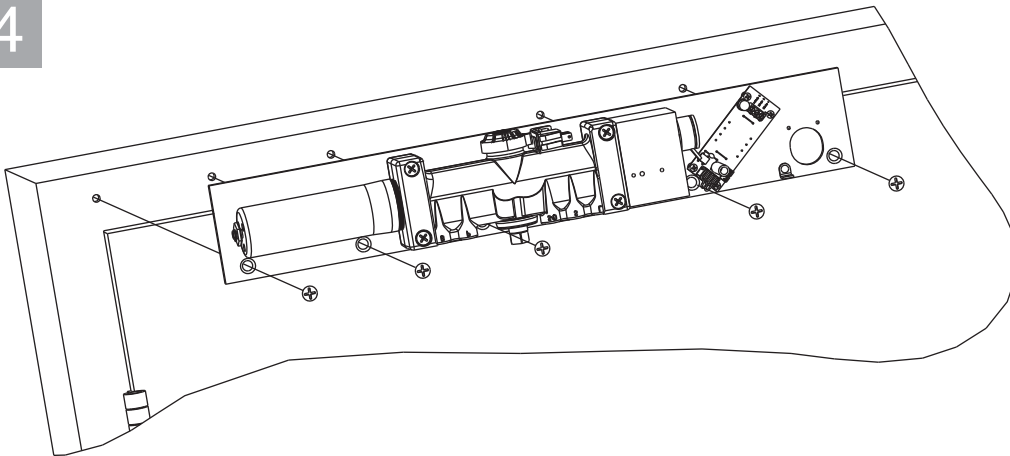
3B



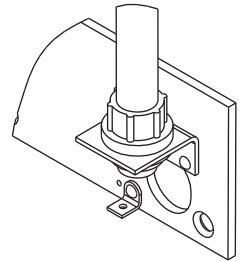
For Surface Wired Only

- Right hand door shown, left hand opposite.
- All dimensions shown in inches (mm).

4

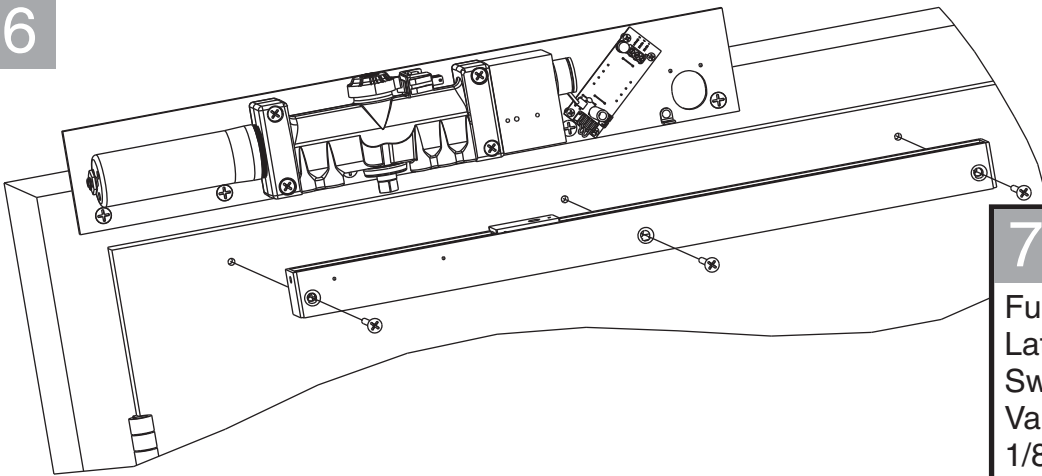


5



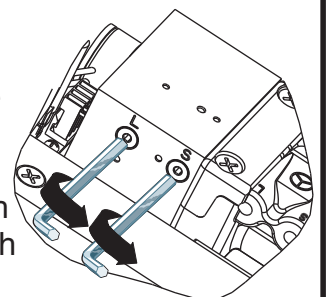
For Surface Wired Only

6



7

Fully close Latch and Sweep Valves with 1/8" wrench provided.



8A

ROTATE TO HERE, THEN REMOVE

START HERE

START HERE

ROTATE TO HERE, THEN REMOVE

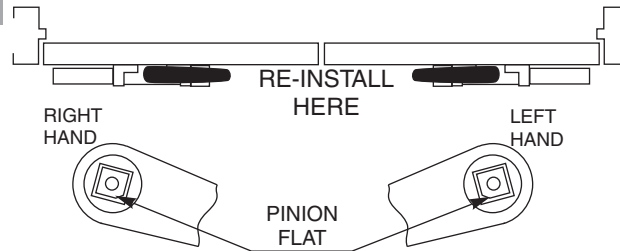
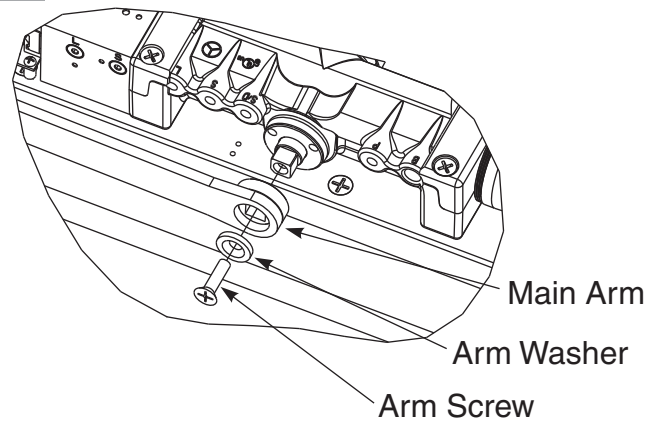
**8B**

RIGHT HAND

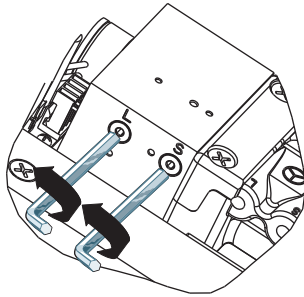
RE-INSTALL HERE

LEFT HAND

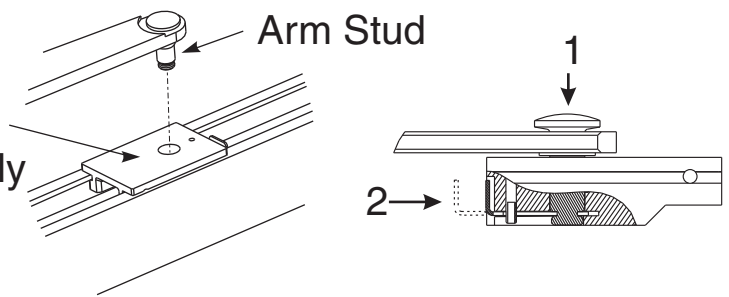
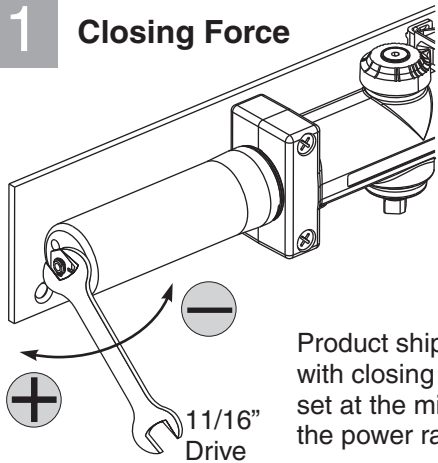
PINION FLAT

**8C****9**

Open Latch and Sweep Valves with 1/8" wrench provided.

**10**

Slide Assembly

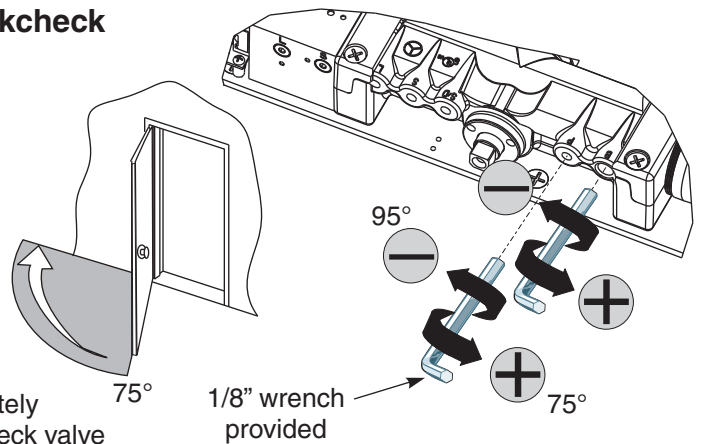
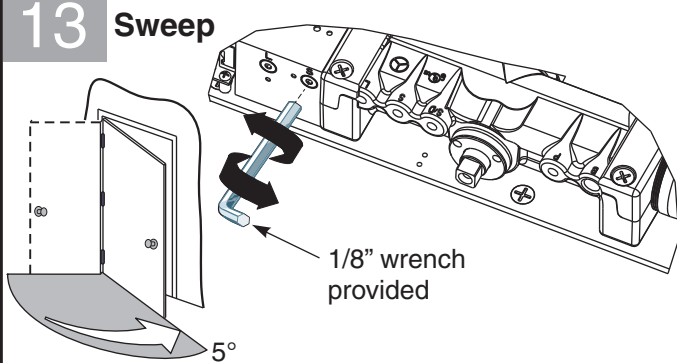
**11****Closing Force**

Product shipped with closing force set at the middle of the power range.

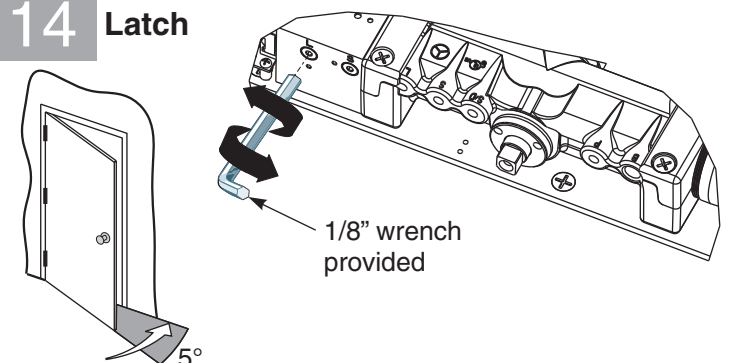
11/16" Drive

12**Backcheck**

Caution: Don't completely close backcheck valve

**13****Sweep**

1/8" wrench provided

14**Latch**

1/8" wrench provided

15**MAKE ELECTRICAL CONNECTIONS:**

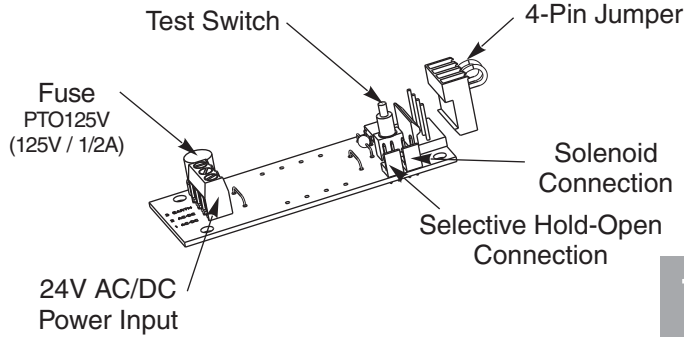
- Power input to unit must be of the same voltage as that listed on the label.
- All wiring connections use standard wiring practice

- Maximum wire size is 18AWG.

- Make input power connections to the hook-up board terminal strip using illustrations and wiring diagrams on Page 4.

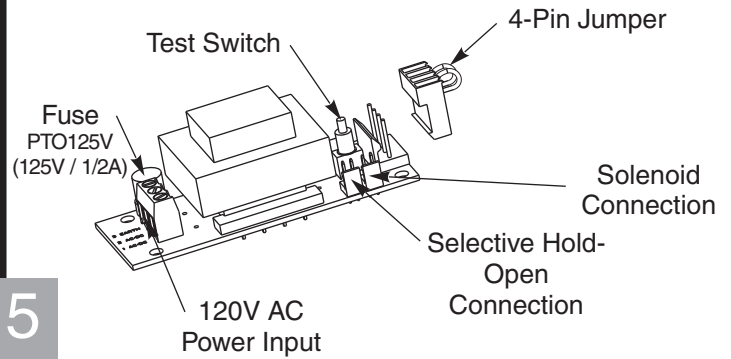
24V AC/DC INPUT CIRCUIT BOARD

(shown with 4-pin jumper for non-detected units)



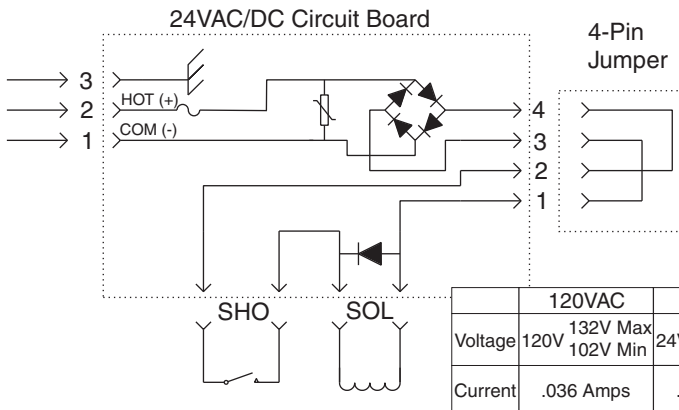
120V AC INPUT CIRCUIT BOARD

(shown with 4-pin jumper for non-detected units)

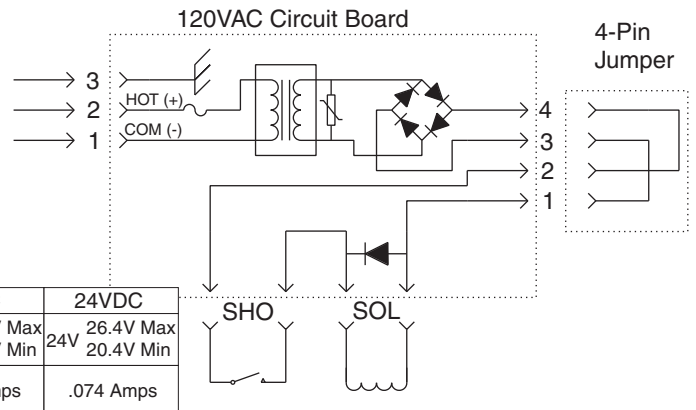


15
cont

Support Unit Wiring Diagram (24VAC/DC Input)

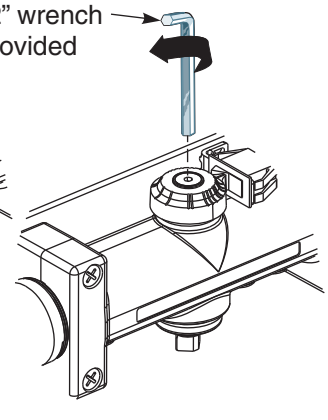
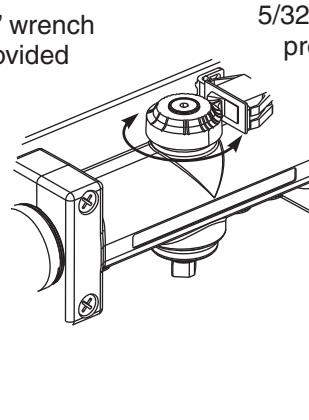
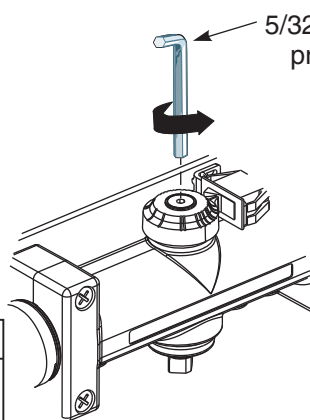
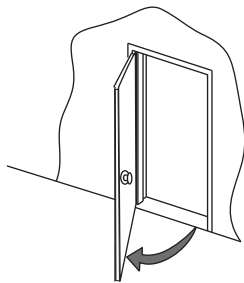


Support Unit Wiring Diagram (120VAC Input)



| | 120VAC | 24VAC | 24VDC |
|---------|---------------------------|----------------------------|----------------------------|
| Voltage | 120V 132V Max 102V Min | 24V 26.4V Max 20.4V Min | 24V 26.4V Max 20.4V Min |
| Current | .036 Amps | .059 Amps | .074 Amps |

16

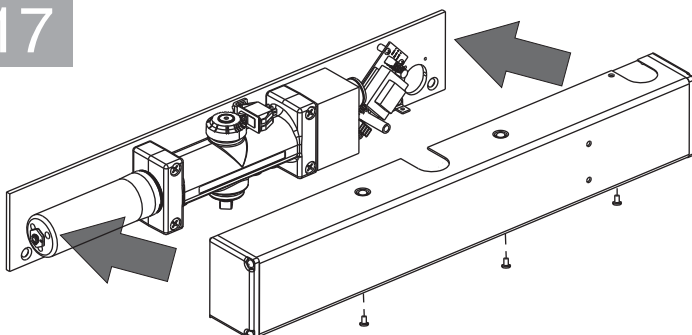


| Setting | G | H | J | K | L | M |
|------------|-----|-----|-----|-----|-----|------|
| Door Angle | 15° | 30° | 45° | 60° | 90° | 135° |

Selective Hold Open Range

These units feature hold open (as shipped) starting at 85°. These units will hold open at virtually any degree of door opening from 85° to 180°. The hold open starting point may be changed (increased or decreased) by loosening the selective hold open cam screw, rotating the cam to the desired new starting point and re-tightening the cam screw.

17



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