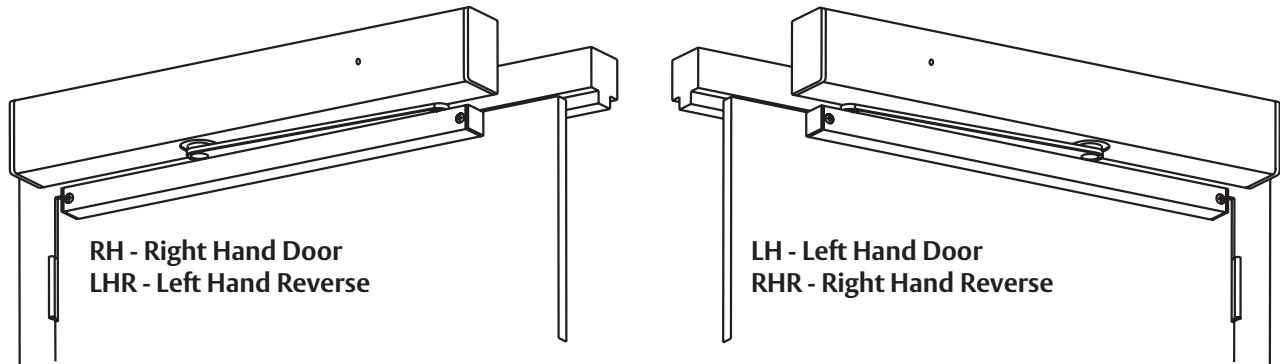
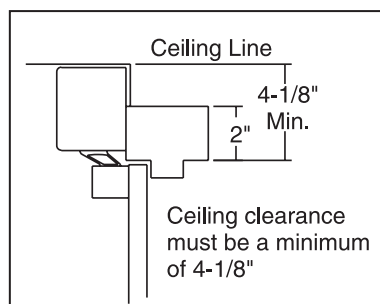


2900 FIREGUARD® Electromechanical Closer-Holder 2980 Multipoint Hold Open with Swing Free Arm

Pull (Hinge) Side



NOTE: Devices are handed and must be the same hand as door.



WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

INSTALLER: LEAVE INSTRUCTIONS FOR BUILDING OWNER

Installation Instructions

TOC	Table of Contents
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2	Install Arm and Track 3
3	Final Adjustment and Regulating Procedures 4
4	Typical Wiring..... 5
5	Template..... 6

1 Install Body and Backplate Assembly

1. Use dimensions shown on template provided to prepare holes.

For concealed wire applications:

Locate and drill 1-1/8" diameter hole in the frame face for 3/4" conduit. (This is normally done at the time the frame is being installed.) Connect conduit to backplate before fastening backplate to frame. (Figure 1)

For surface wire units:

Use conduit bracket attached to backplate. (Figure 2)

2. Attach backplate/closer assembly to frame. Position backplate end with terminal strip AWAY from hinge of frame. (Figure 1)
3. Make electrical connections as described in Typical Wiring section.
4. Make input power connections to power supply board as directed in Typical Wiring section.

NOTE: If electrical connections are to be made at a later date, place cover on chassis now to prevent its loss.

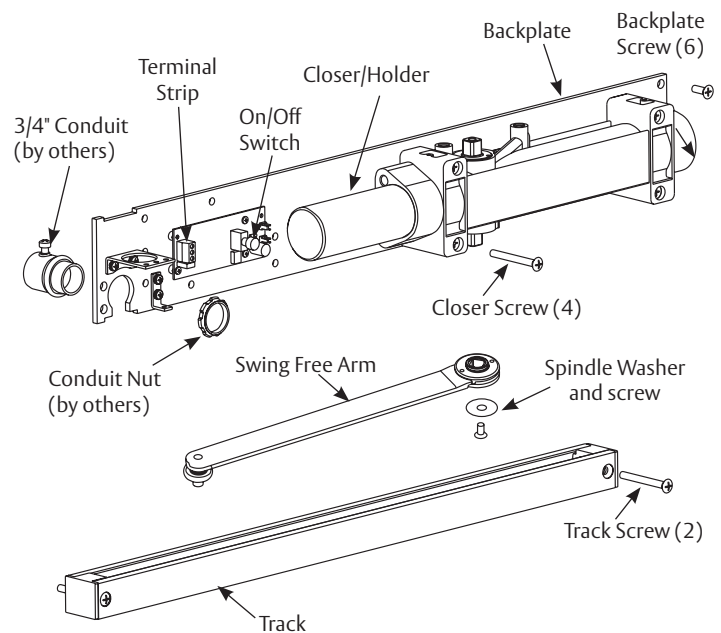


Figure 1

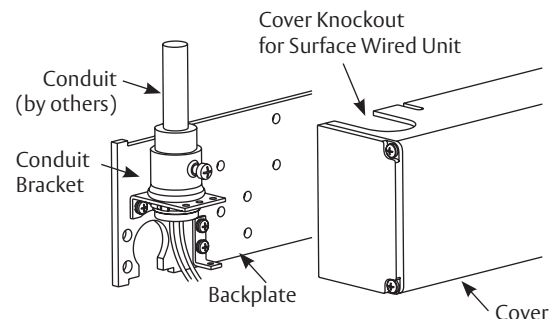


Figure 2

Installation Instructions

2

Install Arm and Track

Installation of the swing free arm requires preliminary adjustment for hand of door.

1. Remove arm screws and rotate hub so that appropriate L.H. or R.H. (hand of door) marking aligns with arm. (Figure 3)
2. Re-install screws and spacer before installation of arm on closer.
3. To activate swing free arm from any hold open position, simply remove two arm screws (and store for future use). Door should swing freely.
4. With appropriate size wrench, rotate closer top spindle approximately 45 degrees. (Figure 4)
5. Install closer arm on bottom spindle approximately parallel to the door and arm length AWAY from hinge.
6. Secure arm with screw and washer.
7. Remove end cap from track.
8. Position track with open side up.
9. Insert roller end of closer arm in sliding groove of track.
10. With arm engaged in slide groove, slide track into position so that prepared holes on door align with track holes.
11. Replace end cap and secure track to door.

NOTE: Closing both valves for door speed and latching speed makes this procedure much easier.

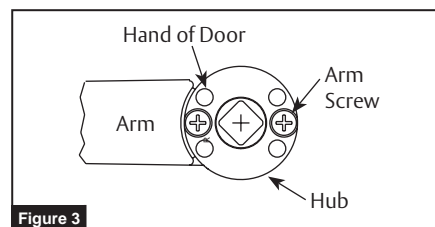


Figure 3

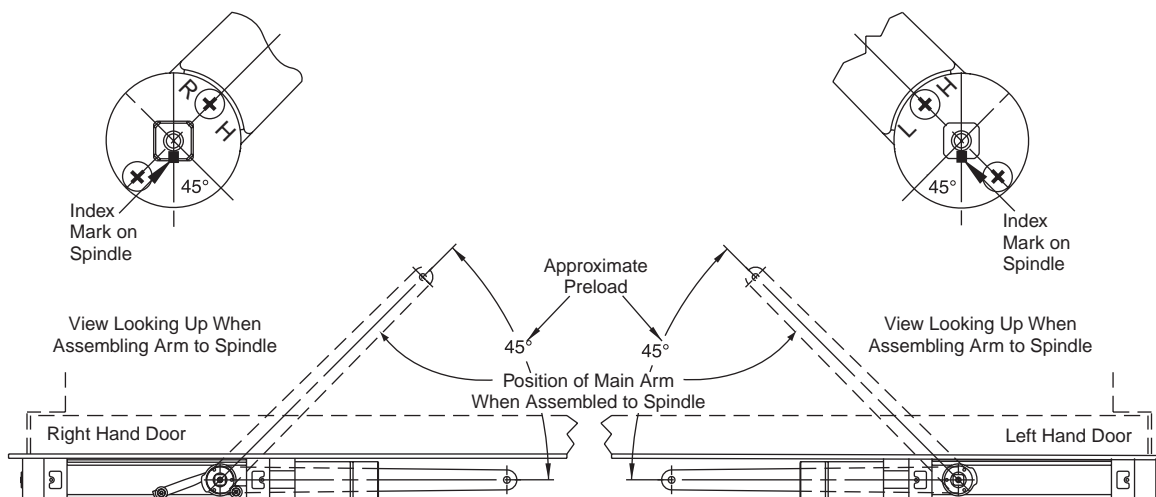


Figure 4

Installation Instructions

3

Final Adjustment and Regulating Procedures

Adjust Spring Power According to Chart (Figure 5)

Turn spring adjustment nut clockwise the required number of turns to match door width as indicated in chart.

NOTE:

- Where strong drafts exist, increase spring power as needed.
- 351 Style door closers normally leave the factory with spring adjustment set at eight (8) turns.

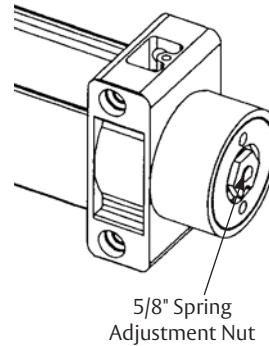


Figure 5

Maximum Width of Door Interior Only	Clockwise Turns of Adjusting Nut
2' 8"	8
3' 0"	8
3' 6"	12
4' 0"	16

Max adjustment is approx 20 turns. Do not forcibly extend adjustment beyond limits.

Adjustment Instructions (Figure 6)

Minimum recommended door closing time is 6 seconds for doors opened to 90 degrees.

Using 1/8" hex wrench, turn valve screw clockwise to slow down or counter clockwise to speed up door movement.

Turn backcheck valve clockwise to increase intensity of backcheck action or counter clockwise to decrease checking (as desired).

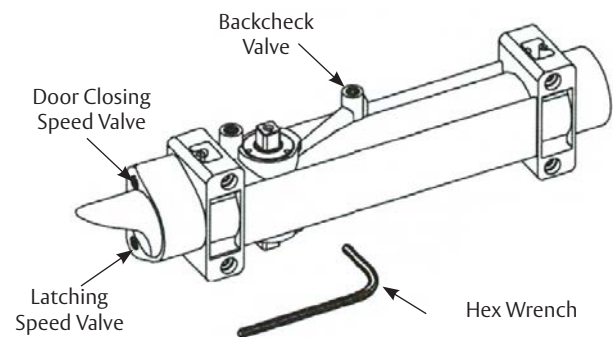
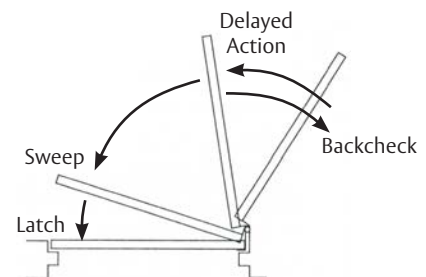


Figure 6



CAUTION: Set backcheck valve for a slight cushioning effect. It is damaging to the closer if the checking action is too abrupt. Backcheck should never be used as a door stop. Always use a door stop to stop the door.



Install Cover (Figure 7)

1. Assemble three (3) short cover screws (#8-32 x 5/16") into bottom of closer body cover mounting bracket approximately one (1) turn.
2. Slide cover onto backplate and closer assembly. Secure with three (3) cover screws.



CAUTION: Avoid interference with electronics and wires during installation of cover.

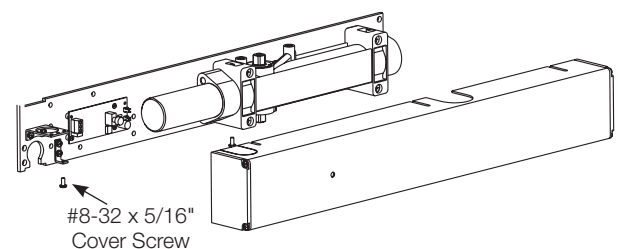


Figure 7

Installation Instructions

4

Typical Wiring



CAUTION

1. Disconnect all power before beginning installation to prevent electrical shock and equipment damage.
2. Installer must be a trained, experienced service person.
3. All wiring must comply with applicable local electrical codes, ordinances and regulations.
4. Maximum wire size is 18AWG.

2980 Stand-Alone Units (Figure 8)

1. Wire stand alone unit to appropriate power supply and fire alarm.
2. Refer to data sticker for proper input voltage and current specifications.
3. Energize power supply.
4. Open door to hold-open point. Door should hold open.
5. Depress on/off switch. Door should close and latch.
6. Adjustment of spring power may be necessary to ensure proper latching. See Final Adjustment and Regulating Procedures section.



***WARNING: Input power supply must match circuit board voltage rating, either 24VAC/DC or 120VAC. (Refer to data sticker)**

3. Energize power supply.
4. Open door to hold-open point. Door should hold open.
5. Depress on/off switch. Door should close and latch.
6. Adjustment of spring power may be necessary to ensure proper latching. See Final Adjustment and Regulating Procedures section.
7. Depress on/off switch again. Open door to hold open position; door will hold open.

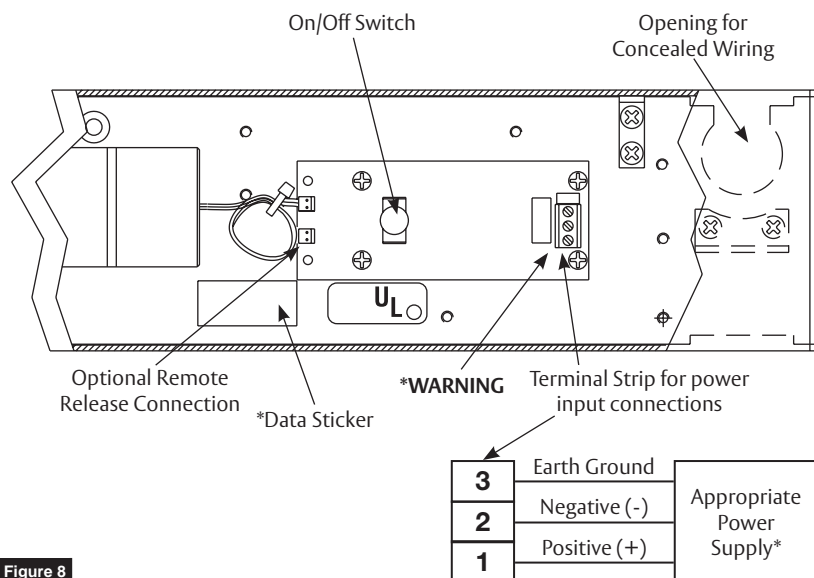


Figure 8

2900 FIREGUARD® Electromechanical Closer-Holder

2980 Hold-Open Swing Free Arm/Pull (Hinge) Side Mounting

Installation Instructions

SARGENT

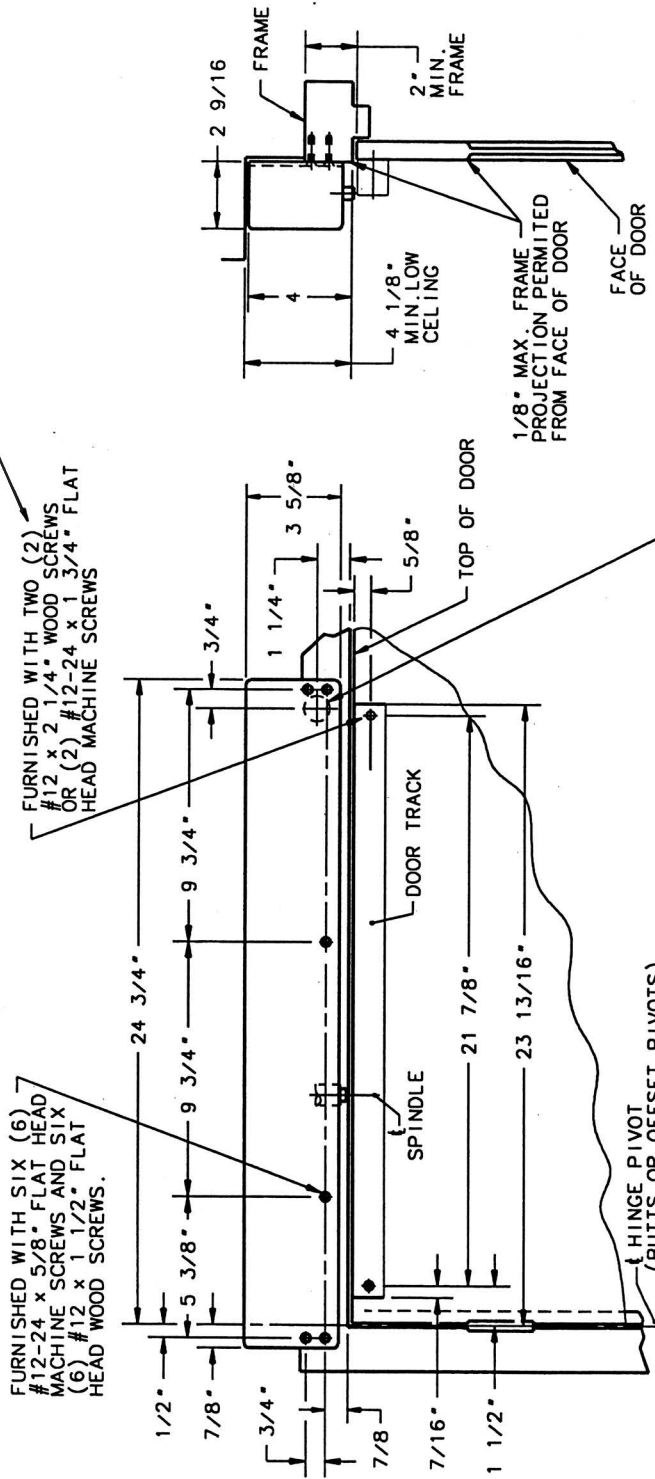
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5

Template

DESCRIPTION	MODEL No.	MAXIMUM DOOR OPENING	RANGE OF HOLD OPEN	REMARKS
MULTI-POINT HOLD-OPEN CLOSER-HOLDER FIREGUARD	2960, 9-2960 & 12-2960	180°	10° TO 170°	SLIDE ARM (RIGID)
	2980, 9-2980 & 12-2980			SLIDE ARM (SWING FREE)

IMPORTANT- IF MORTISE NUTS ARE USED TO MOUNT THE DOOR TRACK THE TWO MORTISE NUT HEADS MUST BE RECESSED FLUSH WITH THE DOOR SURFACE. THIS WILL PREVENT AN INTERFERENCE AT THE "STOP" WHEN THE DOOR IS CLOSED. FOR METAL DOORS THE RECESS PREPARATION MUST BE MADE BY THE DOOR MANUFACTURER.



FOR CONCEALED WIRING ONLY: 1 1/8" DIA. HOLE IS REQUIRED FOR 3/4" CONDUIT FITTING. IT IS IMPORTANT THAT SPACE BE PROVIDED WITHIN THE FRAME FOR THE CONDUIT.

- ② RIGHT HAND DOOR SHOWN. LEFT HAND OPPOSITE.
- ① 12 GAUGE MIN. REINFORCEMENTS REQUIRED FOR METAL DOORS AND FRAMES.

2900 FIREGUARD® Electromechanical Closer-Holder

2980 Hold-Open Swing Free Arm/Pull (Hinge) Side Mounting

Installation Instructions

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