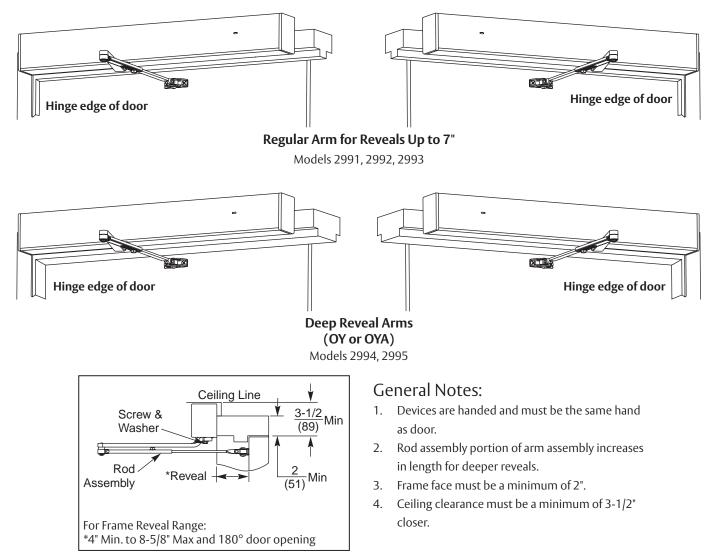
Installation Instructions



2900 FIREGUARD[®] Electromechanical Closer-Holder 2990 Multipoint Hold Open with Double Lever Arm

Pull (Hinge) Side



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

1-800-810-WIRE (9473) • www.sargentlock.com

A7397C 09/21

Copyright © 2005, 2010, 2021, SARGENT Manufacturing Company. All rights reserved. Reproduction in whole or in part without the express written permission of SARGENT Manufacturing Company is prohibited. Experience a safer and more open world

2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

Installation Instructions

TOC	Table of Contents
1	Install Body and Backplate Assembly 2
2	Install Arm
3	Final Adjustment and Regulating Procedures
4	Typical Wiring
5	Optional 80- Prefix Bypass Hold Open Switch6
6	Template

Install Body and Backplate Assembly

1. Use dimensions shown on provided template 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. 3/4" Conduit (by others) (Figure 1)

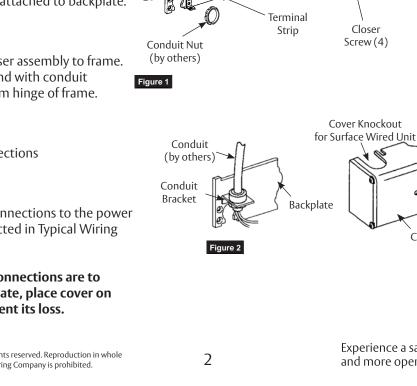
For surface wire units:

Use conduit bracket attached to backplate. (Figure 2)

- 2. Attach backplate/closer assembly to frame. Position backplate end with conduit connection away from hinge of frame. (Figure 1)
- 3. Make electrical connections (see page 5)
- 4. Make input power connections to the 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.

1-800-727-5477 • www.sargentlock.com



Power Supply

Board



A7397C 09/21

Cover

Backplate Screw(6)

Backplate

Closer/Holder

On/Off

Switch

2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

Installation Instructions

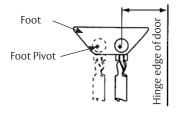


2

Install Arm

Regular Arm:

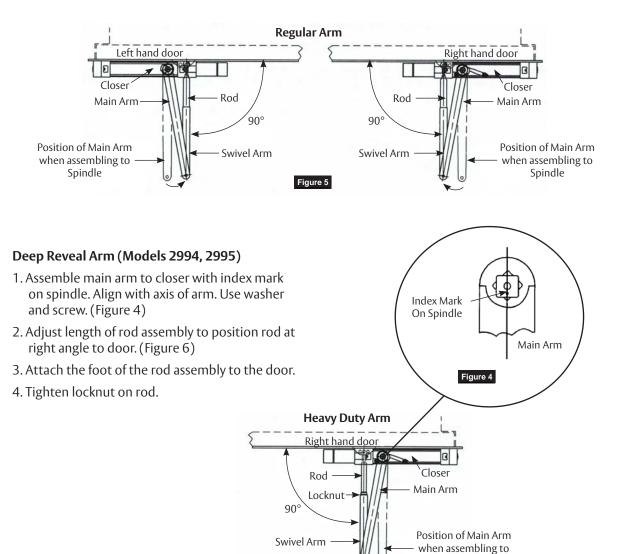
- 1. Attach foot to door with foot pivot AWAY from hinge edge of door. Move foot pivot to hole nearest hinge for additional closing power for all models. (Figure 3)
- 2. Assemble main arm to closer with index mark on spindle. Align with axis of arm. Use washer and screw. (Figure 4)
- 3. Open door and insert rectangular rod into swivel arm. Close door and tighten arm screw securely. (Figure 5)



For illustration purposes only. See template section for dimensions.

Spindle





Experience a safer

and more open world

Figure 6

2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

Installation Instructions

ASSA ABLOY

3

Final Adjustment and Regulating Procedures

Adjust Spring Power According to Chart (Figure 7)

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.

Adjustment Instructions (Figure 8)

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).

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 9)

- 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.

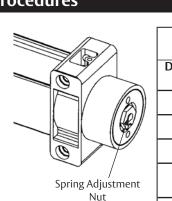
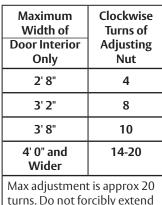
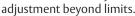
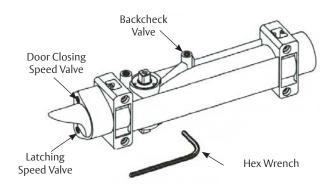


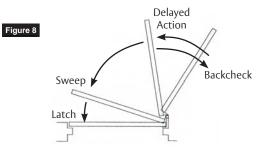
Figure 7

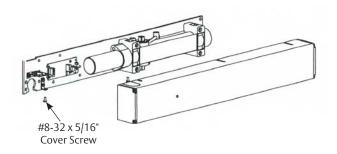
Figure 9











1-800-727-5477 • www.sargentlock.com

2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

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.

2990 Stand-Alone Units (Figure 10)

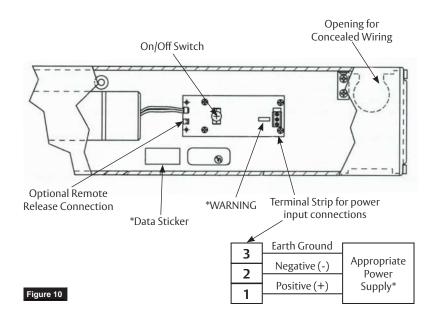
- 1. Wire stand alone unit to appropriate power supply and fire alarm.
- 2. Refer to data sticker for proper input voltage and current specifications.



*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.



2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

Installation Instructions

SAKGEN I

Switch

Roller

5

Optional 80- Prefix Bypass Hold Open Switch for 2960, 2970 & 2990 FIREGUARD[®]

R

Figure 11

General Information

The 80 prefix switch allows initial hold open point to be adjustable from 20 degrees through full door opening. This adjustment is done using a cam on spindle opposite from where arm mounts.

Adjustment Instructions



IMPORTANT

- 1. CAUTION: Disconnect all input power 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.

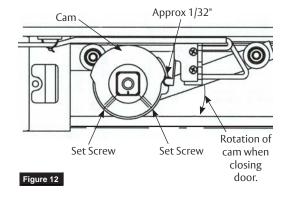
INSTALLATION

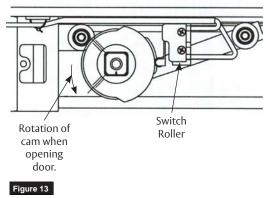
- 1. Mount closer/holder per instruction sheet provided.
- 2. Locate switch roller and cam and loosen both set screws in cam. (Figure 11)
- 3. Open door to desired holding position and hold open with door stop. Rotate cam until switch roller is on lower section of cam and approximately 1/32" from bottom of incline. (Figure 12) Cam should be positioned so when door closes, roller on switch will ride up incline of cam operating the switch. Tighten on set screw in cam with hex key and pull door closed.
- 4. Pull door open to desired hold open position. When switch roller travels down to bottom of incline, door closer will function as a standard multi-point holder. (Figure 13) Depending on door size and closer fall back, cam may need to be adjusted so that switch roller is positioned further from base of incline. When cam is positioned properly for desired door operation, tighten both set screws firmly.

CAM IN DOOR OPEN POSITION

Set Screw (2 Places)

Cam





CAM IN DOOR CLOSED POSITION

1-800-727-5477 • www.sargentlock.com

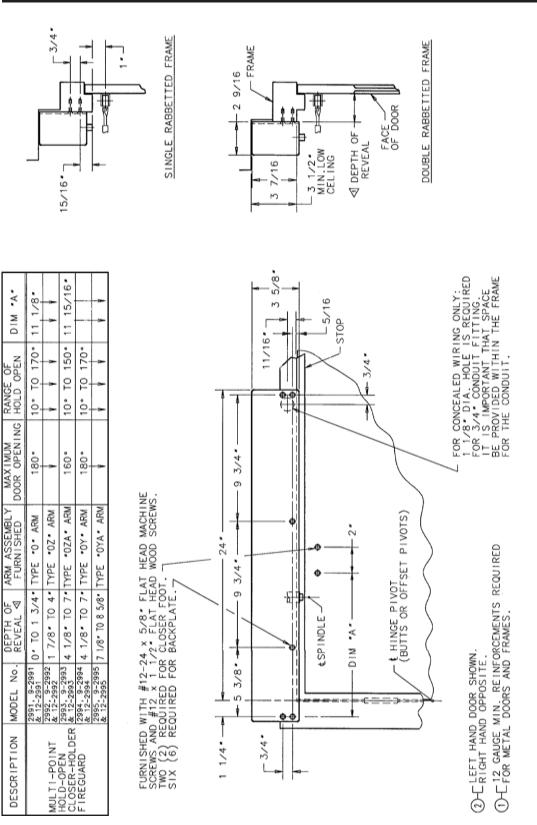
A7397C 09/21

2990 Hold-Open Double Lever Arm/Push (Stop) Side Mounting

Installation Instructions

6

Template



1-800-727-5477 • www.sargentlock.com

Copyright © 2005, 2010, 2021, SARGENT Manufacturing Company. All rights reserved. Reproduction in whole or in part without the express written permission of SARGENT Manufacturing Company is prohibited.

A7397C 09/21



The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.



SARGENT Manufacturing Company 100 Sargent Drive New Haven, CT 06511 USA 800-727-5477 www.sargentlock.com

Founded in the early 1800s, SARGENT® is a market leader in locksets, cylinders, door closers, exit devices, electro-mechanical products and access control systems for new construction, renovation, and replacement applications. The company's customer base includes commercial construction, institutional, and industrial markets.

 $\label{eq:copyright} @ 2005, 2010, 2021, SARGENT Manufacturing Company. All rights reserved. Reproduction in whole or in part without the express written permission of SARGENT Manufacturing Company is prohibited.$