SARGENT® 2478/9-2478 FIREGUARD® Closer-Holder Device **DOUBLE EGRESS INSTALLATION INSTRUCTIONS**

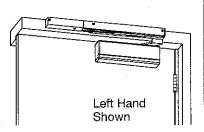
CAUTION: FAILURE TO INSTALL OR ADJUST PROPERLY MAY RESULT IN INJURY OR DAMAGE For assistance, contact SARGENT at 800-810-WIRE (9473) or www.sargentlock.com

NOTE: AN AUXILIARY DOOR STOP IS REQUIRED AT HOLD OPEN

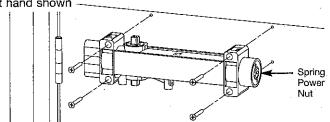


A CAUTION:

- 1. DISCONNECT ALL POWER BEFORE INSTALLATION
- 2. ALL WIRING TO BE PERFORMED BY QUALIFIED PERSONNEL TO COMPLY WITH ALL APPLICABLE **LOCAL CODES**
- 3. MAXIMUM WIRE SIZE IS 18 AWG

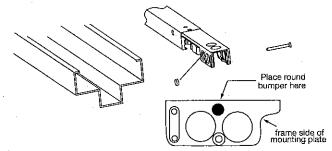


- Use enclosed template on page 4. Drill and tap door and frame for 12-24 machine screws, and prepare hole for conduit. Do not drill through channel, as damage will occur voiding warranty
- 2 Install closer body to door with spring power nut away from hinge Left hand shown



351 closers are non-handed. RH must be on top for right hand doors and LH must be on top for left hand doors.

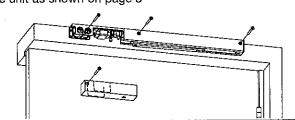
mounting plate (frame side) between conduit openings



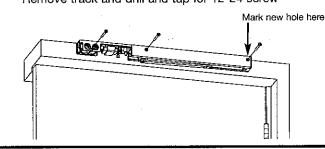
To provide clearance for cover, install rubber spacer to

Secure track to frame with electronics away from hinge with 4 screws provided

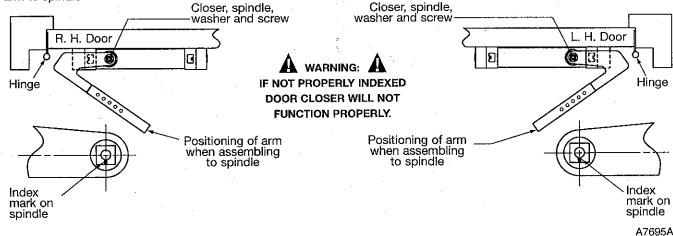
Secure conduit or cable (by others) per local codes Wire unit as shown on page 3



When retrofitting 2477 installations, install track as shown. Then mark remaining hole closest to hinge. Remove track and drill and tap for 12-24 screw



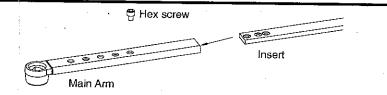
Rotate bottom spindle with wrench approximately 45°. Align index mark in spindle to arm. Use screw and washer to secure main 5 arm to spindle



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Adjust hold open angle by adjusting arm length: Range of 85° to 115° is obtainable.

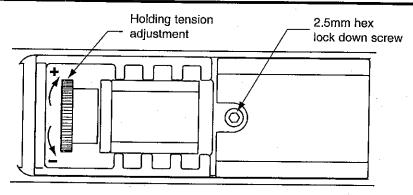
With roller assembly hold open setting, open door and slide insert into main arm for desired hold open. Secure arms with 9/64" hex screw



Final Adjustment and Regulating Procedures

To adjust holding tension:

- Loosen 2.5mm lock down screw
- Turn knob for desired tension
- Retighten 2.5mm lock down screw

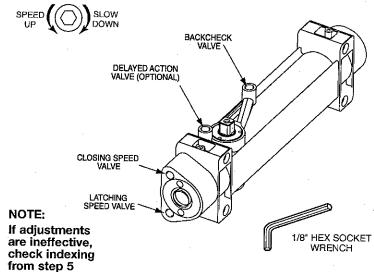


Closing and latching speeds:

Turn valves clockwise to slow down or counterclockwise to speed up door movement

Backcheck:

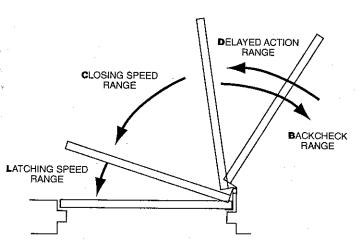
Turn valve clockwise to increase or counterclockwise to decrease



CAUTION: SET VALVE FOR SLIGHT CUSHIONING EFFECT. NEVER USE THE BACKCHECK AS A DOOR STOP ALWAYS USE A DOOR STOP TO STOP THE DOOR

Delayed action feature (optional feature):

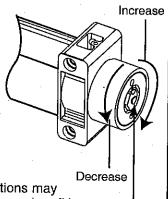
When provided, turn valve clockwise to slow down or counterclockwise to speed up door movement



Adjust power to allow door to close and latch

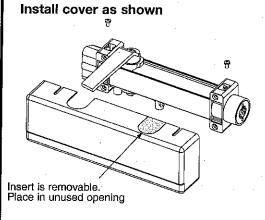
NUMBER OF TURNS OF SPRING POWER ADJUSTING NUT		
DOOR WIDTH (INCHES)	EXTERIOR DOORS	EINTERIOR DOORS
24-30	TURN nut 1-3 (TURN nut 1-3 (
30-36	FACTORY SET	FACTORY SET
36-42	TURN nut 1-4	TURN nut 1-3
42-48	TURN nut 7-9)	TURN nut 4-6

Adjusting door to close due to high draft conditions may exceed ADA Standards. Consult local ordinances when fire doors are involved



5/8"

Adjusting Nut

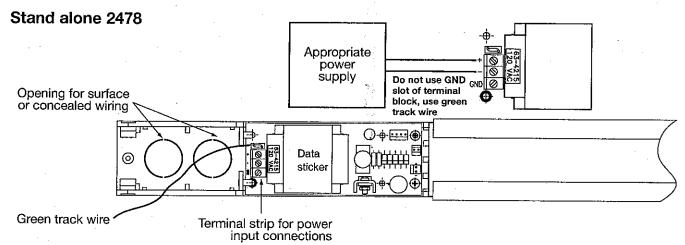


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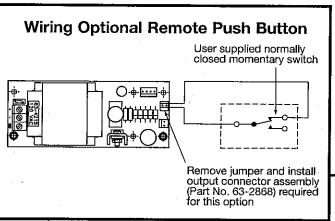
INSTALLER: LEAVE INSTRUCTIONS WITH BUILDING OWNER

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 18 AWG



Note: 120VAC boards require earth ground connection to green track wire



- Wire stand alone unit to appropriate power supply and fire alarm. Earth ground wire connects to green wire
- Refer to data sticker for proper input voltage and current specifications
- Energize power supply. Current draw of .1 AMP per unit
- Open door to hold-open point. Door should hold open
- Depress holder on/off switch. Door should close and latch
- Depress holder on/off switch to reactivate latch

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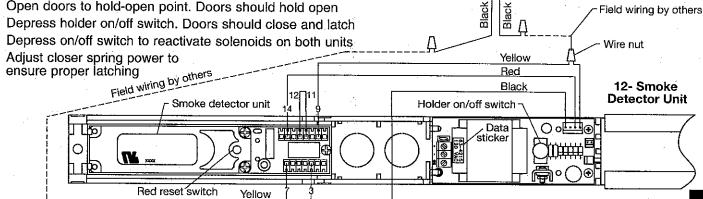
Adjust closer spring power to ensure proper latching

9- Companion Unit

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- Companion units are designed to work with smoke detector unit 12-2478 only
- Wire companion unit to smoke detector unit as shown on wiring diagram
- Do not disconnect any existing wires on smoke detector unit's terminal strip
- Energize power supply
- Open doors to hold-open point. Doors should hold open

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