

CLSC15 SURFACE CLOSER INSTALLATION INSTRUCTIONS—

Tools recommended

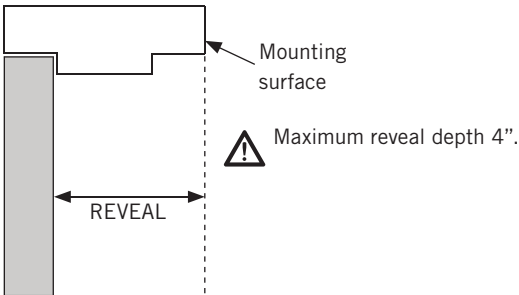
- Drill Bits
- Metal: 3/16" [#12]
- Wood: 5/32" [#22]
- #2 Phillips screwdriver
- 1/2" or 13mm box wrench
- 10" adjustable wrench
- 4mm hex key

Follow included templates to properly prepare door frame.

Verify the swing of the door which is being installed prior to installation.

Verify closer spring size prior to installation. See "Spring size chart".

Make sure door operates efficiently prior to installation.

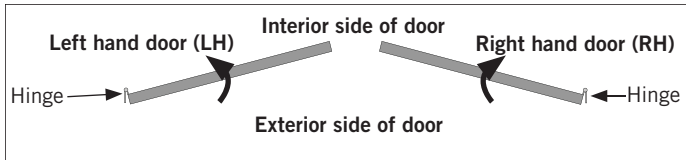


Technical specifications

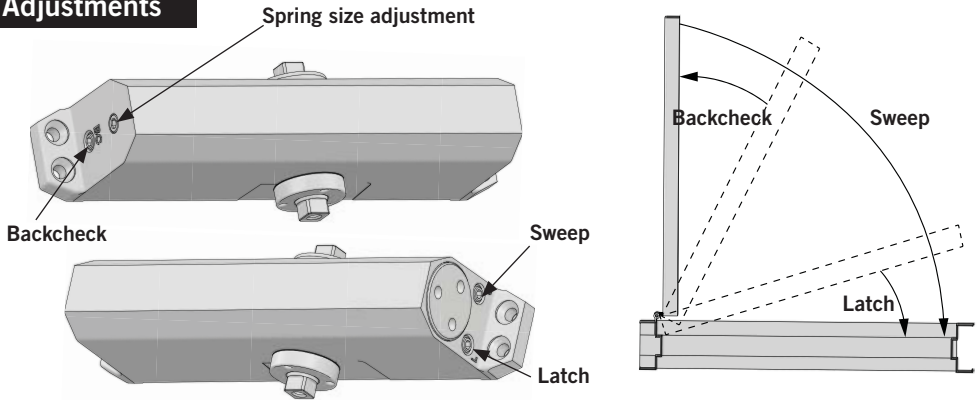
Spring size chart

Closer is shipped at a size 3 from factory.

Regular & top jamb closers			Parallel arm closers		
Maximum size of door width			Maximum size of door width		
Closer size	Interior	Exterior	Interior	Exterior	# Turns from size 3
1	28"				12 CCW
2	34"	28"	28"		6 CCW
3	38"	30"	34"	28"	0 turns
4	48"	36"	38"	30"	9 CW
5	54"	42"	48"	36"	13 CW



Adjustments



1.1 Adjust the **spring size** for the door width listed in the corresponding "spring size chart". **Closer is set at size 3 from the factory.**

- Increase spring size: Turn full 360° turns clockwise
- Decrease spring size: Turn full 360° turns counter-clockwise

1.2 Adjust the **sweep (closing & latch) speed** from 90° to 10°

- Increase speed: Turn valve counter-clockwise

- Decrease speed: Turn valve clockwise.

1.3 Adjust the **latch speed** for 10° - 0°.

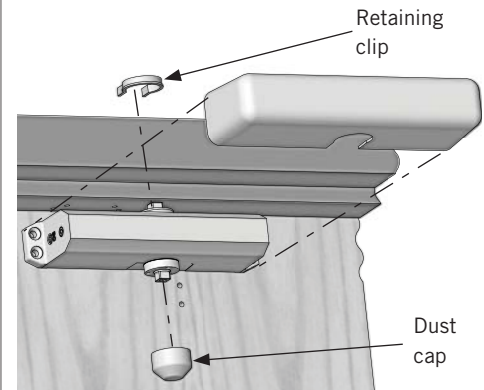
- Increase resistance: Turn valve clockwise
- Decrease resistance: Turn valve counter-clockwise.

Do not back valves out beyond closer casting.

Use a 4mm hex key

Door should close in 3 to 6 seconds from 90°.

INSTALLING THE OPTIONAL COVER

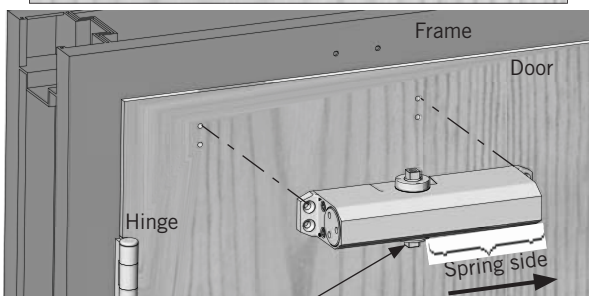
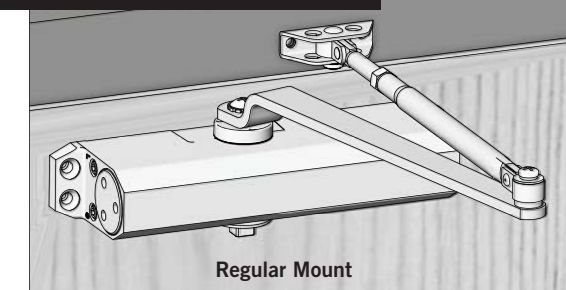


1.1 Lay retaining clip on pinion, open side toward door.

1.2 Slide cover over closer body and snap onto retaining clip.

1.3 Slide dust cap over bearing housing.

REGULAR MOUNT: PULL SIDE



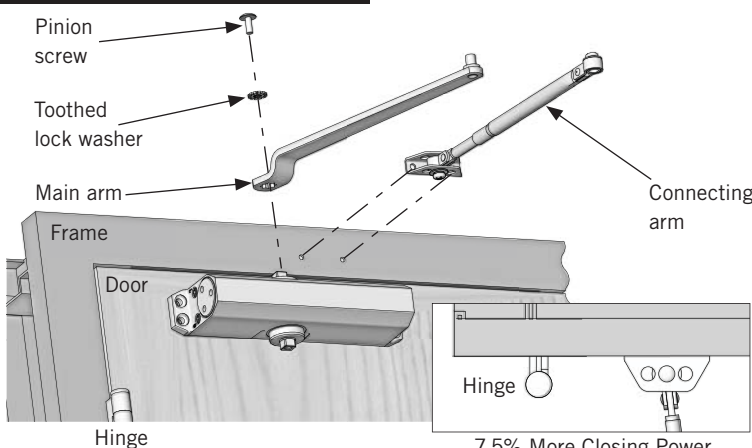
NOTE: Orient spring side away from the hinge.

Refer to regular mount template for drill hole dimensions.

1.1 Secure closer body to door.

- Use four #14 x 1-1/2" wood screws [1/4" x 1-1/2" self-tapping flat head screws]

REGULAR MOUNT (CONTINUED)



2.1 Secure connecting arm assembly to frame.

- Use two #14 x 1-1/4" wood screws [1/4" x 1-1/4" self-tapping round head screws]

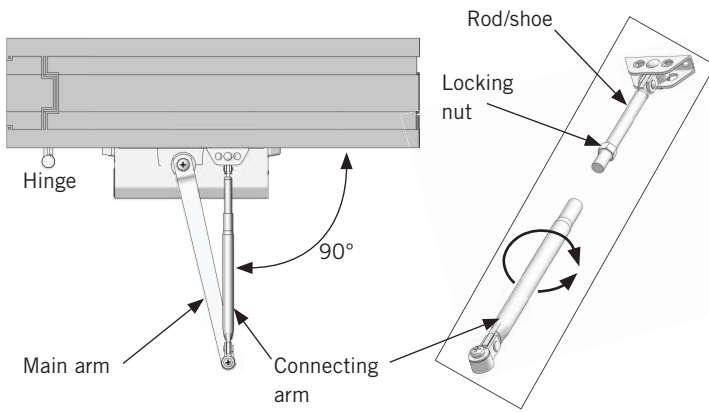
2.2 Secure main arm to closer pinion.

- Use pinion screw and toothed lock washer

To increase latch power by 7.5%, fasten the connecting arm in the hole towards the hinge. See image above.

Main arm must be initially mounted as shown

REGULAR MOUNT (CONTINUED)



3.1 Line up ends of arms.

Do not fasten together yet.

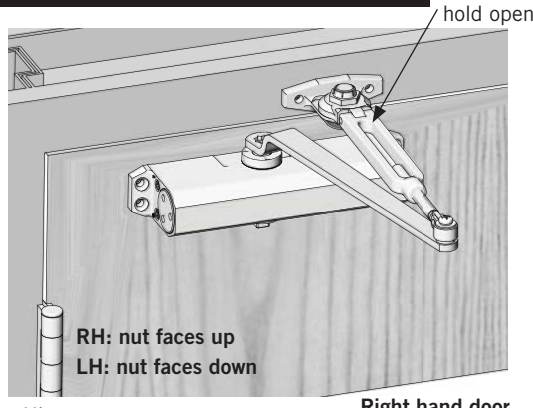
3.2 Secure main arm with connecting arm together to proper length reveal.

Keep connecting arm at a 90°.

- Use provided pan head screw, lock washer, & flat washer.

3.3 Tighten locking nut on connecting arm.

FRICTION HOLD OPEN OPTION: REGULAR MOUNT



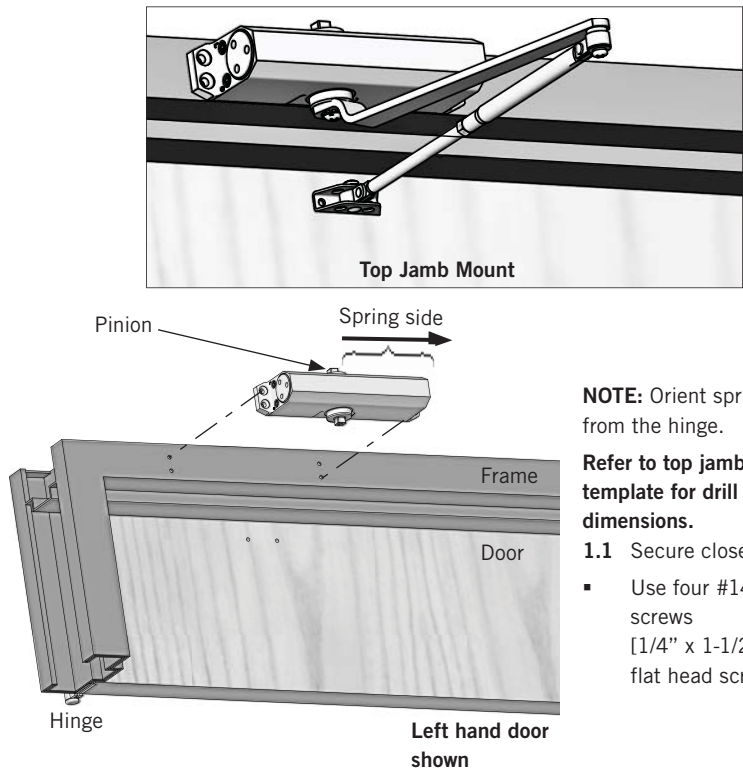
1.1 Follow steps 1-3. Substitute for friction hold open arm.

1.2 Set hold open position.

- Loosen hold open nut.
- Open door 10° before desired hold open position.
- Tighten hold open nut securely.

1.3 To disengage hold open: Pull/push door closed until hold open releases and closer takes over.

TOP JAMB MOUNT: PUSH SIDE



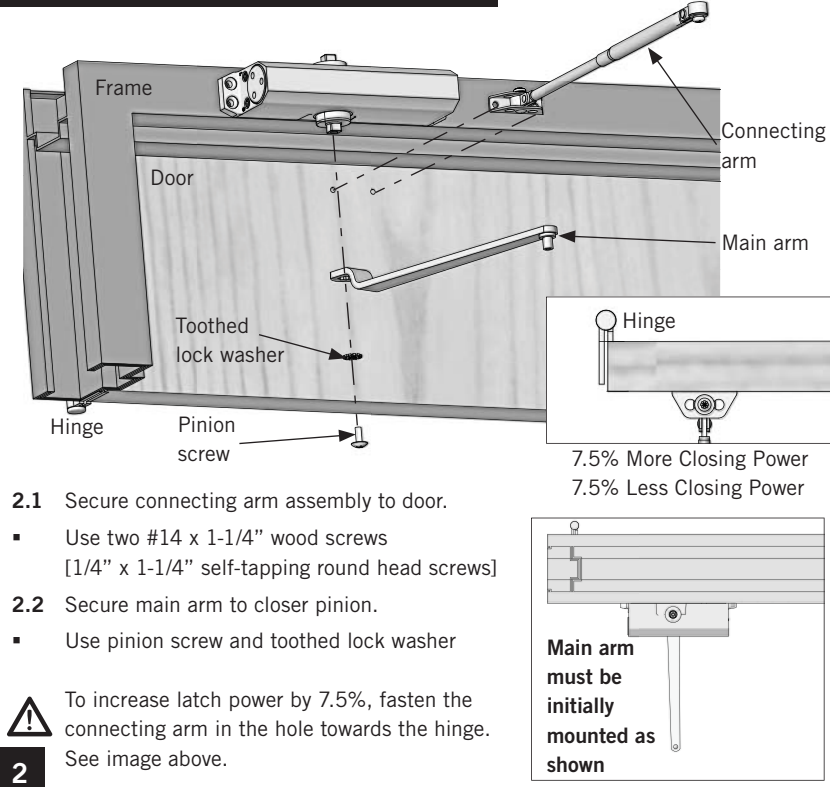
NOTE: Orient spring side away from the hinge.

Refer to top jamb mount template for drill hole dimensions.

1.1 Secure closer body to frame.

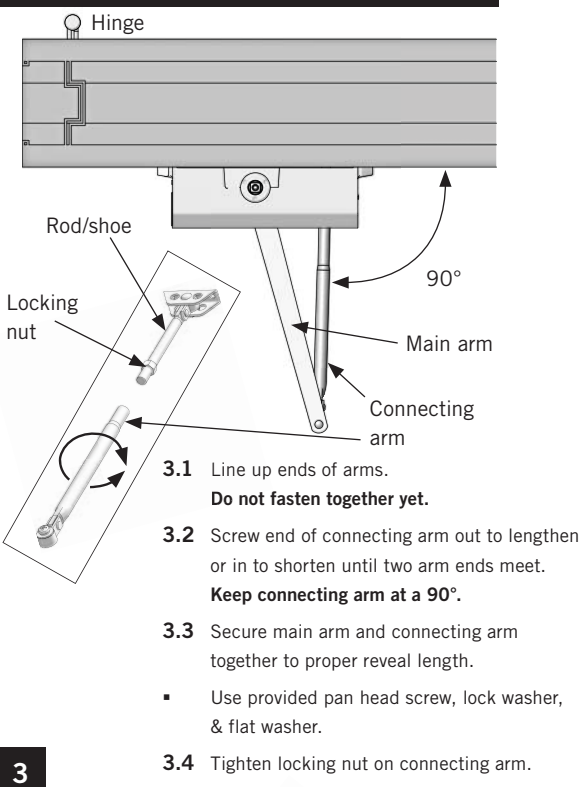
- Use four #14 x 1-1/2" wood screws [1/4" x 1-1/2" self-tapping flat head screws]

TOP JAMB MOUNT (CONTINUED)



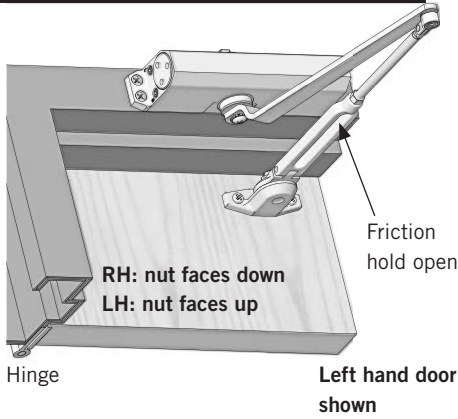
- 2.1** Secure connecting arm assembly to door.
- Use two #14 x 1-1/4" wood screws [1/4" x 1-1/4" self-tapping round head screws]
- 2.2** Secure main arm to closer pinion.
- Use pinion screw and toothed lock washer
- !** To increase latch power by 7.5%, fasten the connecting arm in the hole towards the hinge. See image above.

TOP JAMB MOUNT (CONTINUED)



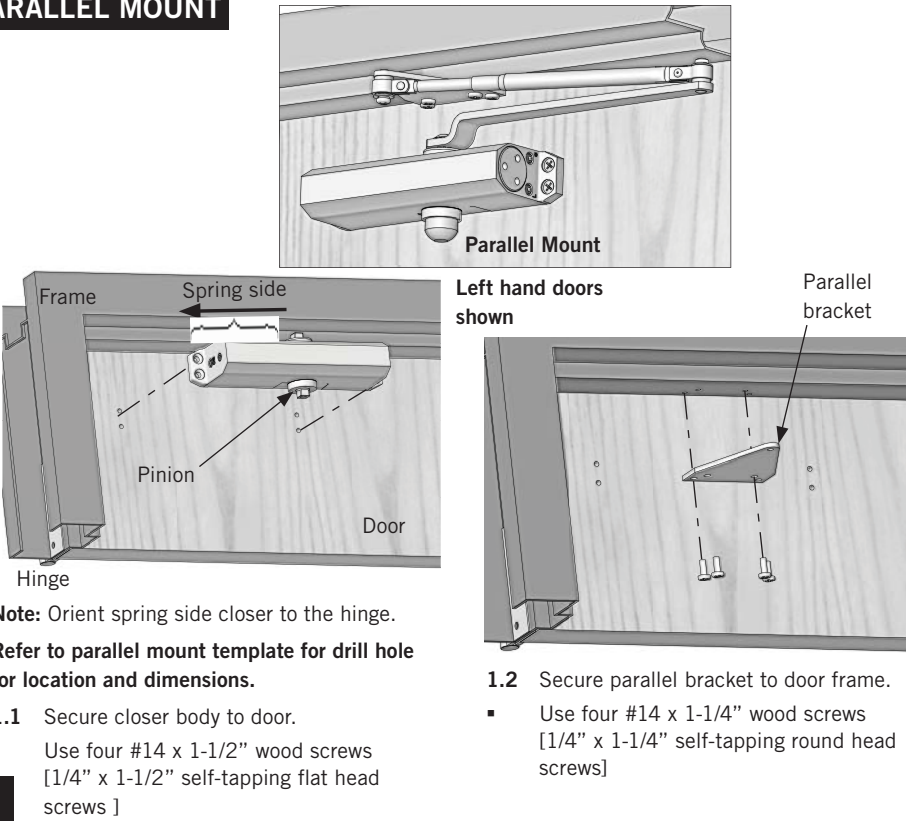
- 3.1** Line up ends of arms. **Do not fasten together yet.**
- 3.2** Screw end of connecting arm out to lengthen or in to shorten until two arm ends meet. **Keep connecting arm at a 90°.**
- 3.3** Secure main arm and connecting arm together to proper reveal length.
- Use provided pan head screw, lock washer, & flat washer.
- 3.4** Tighten locking nut on connecting arm.

FRICITION HOLD OPEN OPTION: TOP JAMB



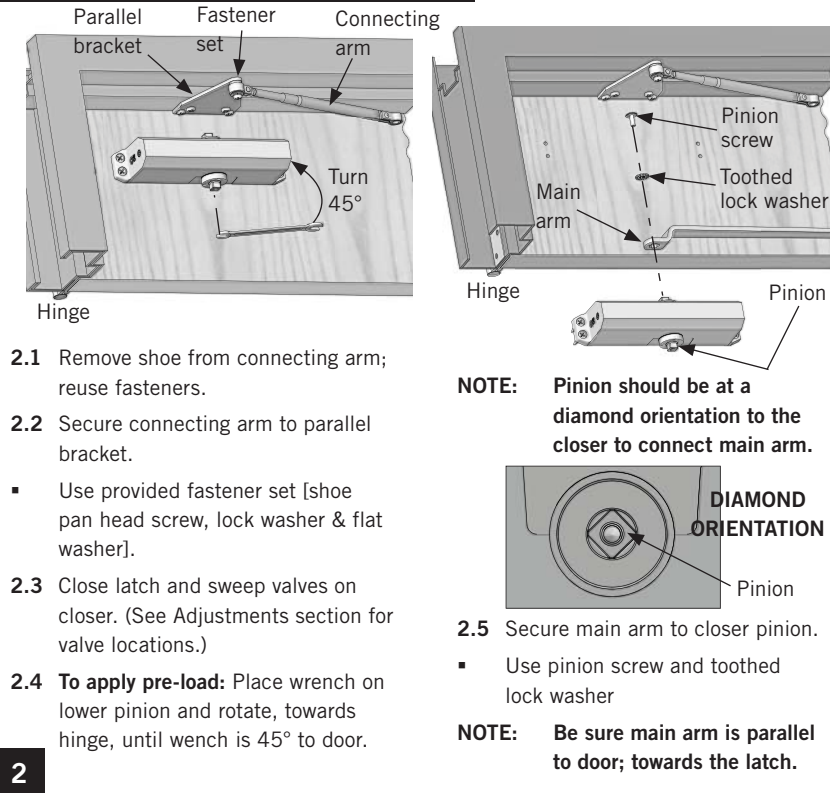
- 1.1** Follow steps 1-3. Substitute friction hold open arm.
- 1.2** Set hold open position.
- Loosen hold open nut.
 - Open door 10° before desired hold open position.
 - Tighten hold open nut securely.
- 1.3 To disengage hold open:** Pull/push door closed until hold open releases and closer takes over.

PARALLEL MOUNT



- 1.2** Secure parallel bracket to door frame.
- Use four #14 x 1-1/4" wood screws [1/4" x 1-1/4" self-tapping round head screws]

PARALLEL MOUNT (CONTINUED)



- 2.1** Remove shoe from connecting arm; reuse fasteners.
- 2.2** Secure connecting arm to parallel bracket.
- Use provided fastener set [shoe pan head screw, lock washer & flat washer].
- 2.3** Close latch and sweep valves on closer. (See Adjustments section for valve locations.)
- 2.4 To apply pre-load:** Place wrench on lower pinion and rotate, towards hinge, until wrench is 45° to door.

NOTE: Pinion should be at a diamond orientation to the closer to connect main arm.

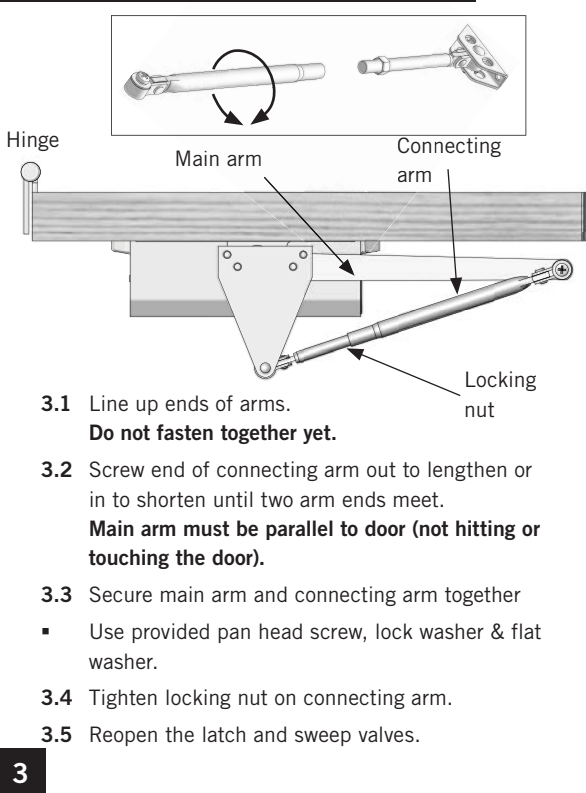
DIAMOND ORIENTATION

2.5 Secure main arm to closer pinion.

- Use pinion screw and toothed lock washer

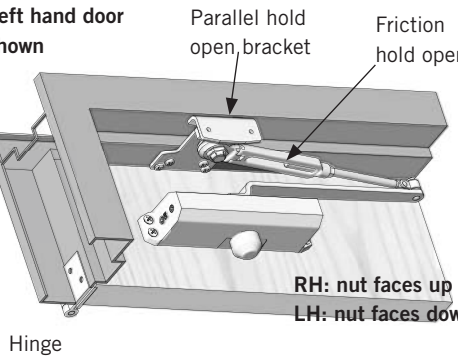
NOTE: Be sure main arm is parallel to door; towards the latch.

PARALLEL MOUNT (CONTINUED)



- 3.1** Line up ends of arms. **Do not fasten together yet.**
- 3.2** Screw end of connecting arm out to lengthen or in to shorten until two arm ends meet. **Main arm must be parallel to door (not hitting or touching the door).**
- 3.3** Secure main arm and connecting arm together
- Use provided pan head screw, lock washer & flat washer.
- 3.4** Tighten locking nut on connecting arm.
- 3.5** Reopen the latch and sweep valves.

FRICITION HOLD OPEN OPTION: PARALLEL MOUNT



- 1.1** Follow steps 1-3. Substitute for friction hold open arm.
- 1.2** Secure parallel hold open bracket to door frame, using four 1/4-20x5/8" pan head screws provided [#14 wood screws].
- 1.1** Secure hold open arm to hold open bracket, using two 1/4-20x5/8" pan head screws.
- 1.2** Set hold open position.
- Loosen hold open nut.
 - Open door 10° before desired hold open position.
 - Tighten hold open nut securely.
- 1.3 To disengage hold open:** Pull/push door closed until hold open releases and closer takes over.