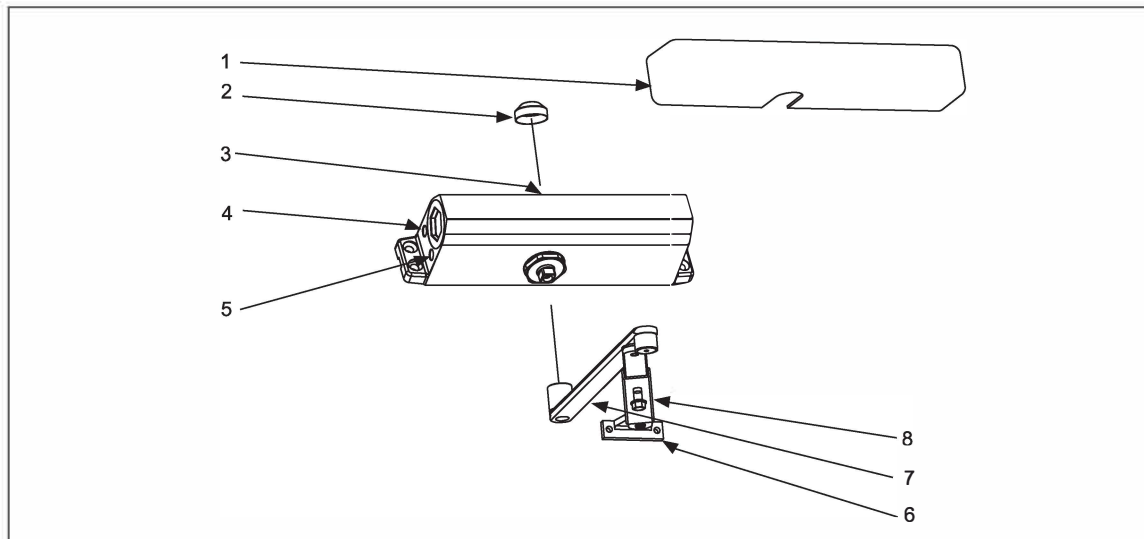




RHDSTP Arm Installation Instructions for 300 Series / 500 Series Door Closers

Closer setup

- ⚠ Follow included template to properly prepare door frame for all accessories of the closer installation.
- ⚠ Know the swing of the door which is being installed prior to installation.
- ⚠ Verify closer spring size prior to installation. See "Spring size chart" on page 2.
- ⚠ Make sure door efficiently operates prior to installing closer.

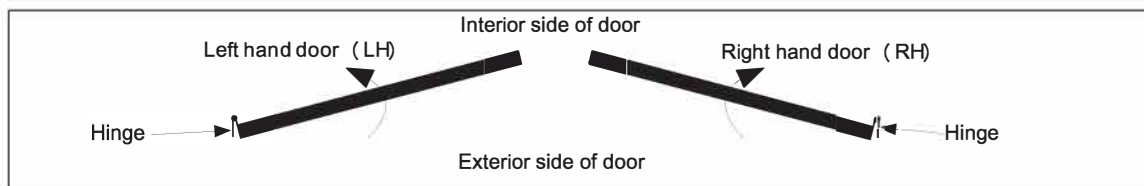


Surface closer system

The closer is comprised of the following components.

- 1. Cover
- 2. Dust cap
- 3. Pinion screw
- 4. Latch speed adjustment
- 5. Closing/sweep speed adjustment
- 6. Bar/shoe assembly
- 7. Main arm
- 8. Connecting arm

Handing of the door



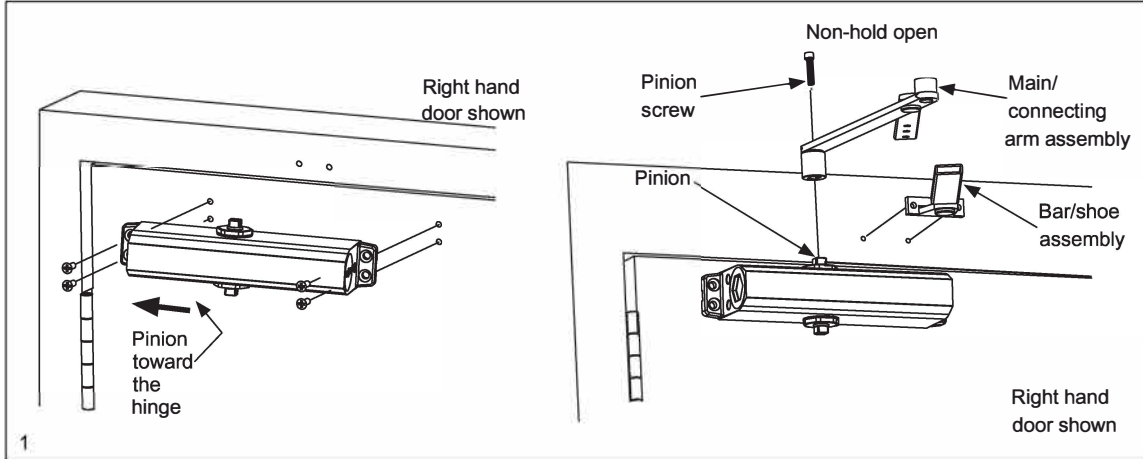
Tools recommended

- Drill Bits
 - Metal: 7/32" & 1/4-20 tap
 - Wood: 5/32"
 - DPK: 1/8"
 - Sex nut: 3/8"
- #3 Phillips screwdriver
- 1/2" or 13mm box wrench
- 10" adjustable wrench
- 3/16" hex key
- 5mm hex key (supplied)

PULL SIDE, REGULAR MOUNT

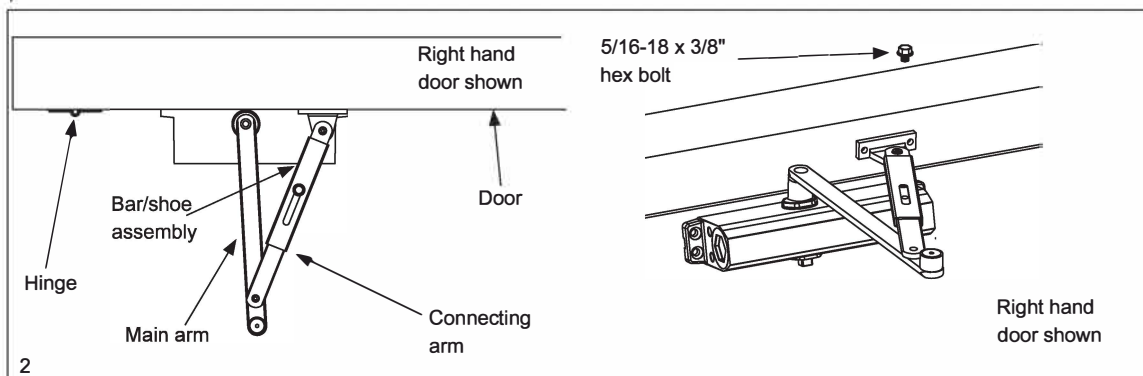
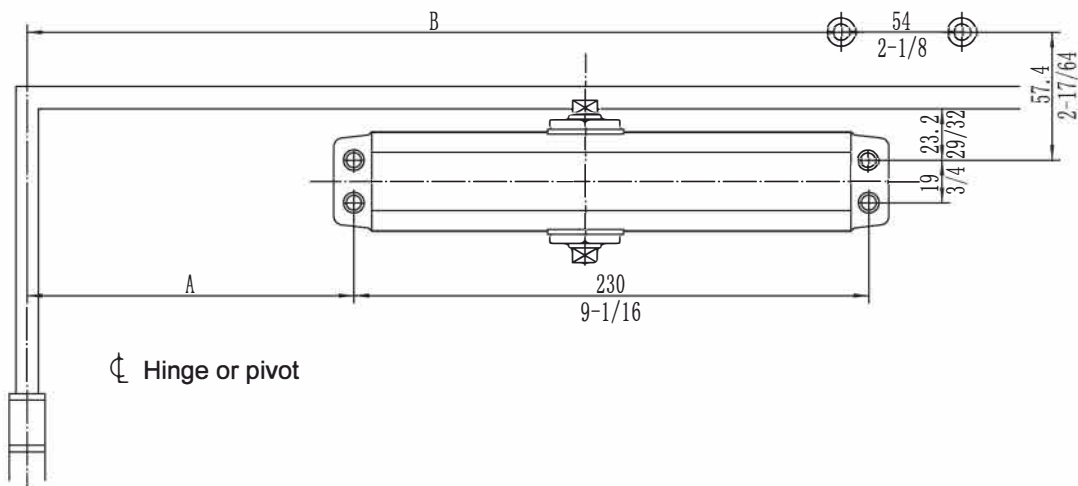
Installation Instructions

Mounting the surface closer & arm assembly (reg mnt)



- 1.1 Secure closer body to door.
 - Use four 1-1/4" combo screws provided.
- 1.2 Secure the bar/shoe assembly to frame.
 - Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.
- 1.3 Secure main arm to operator pinion.
 - Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].

Opening	Dimension "A"	Dimension "B"
TO 85 °	5-3/4 146	14-21/64 364
TO 90 °	5-1/8 130	13-31/32 355
TO 95 °	4-21/64 110	13-45/64 348
TO 100°	5-15/64 133	13-5/64 332
TO 105°	3-47/64 95	12-23/32 323
TO 110°	3-5/8 92	12-21/64 313



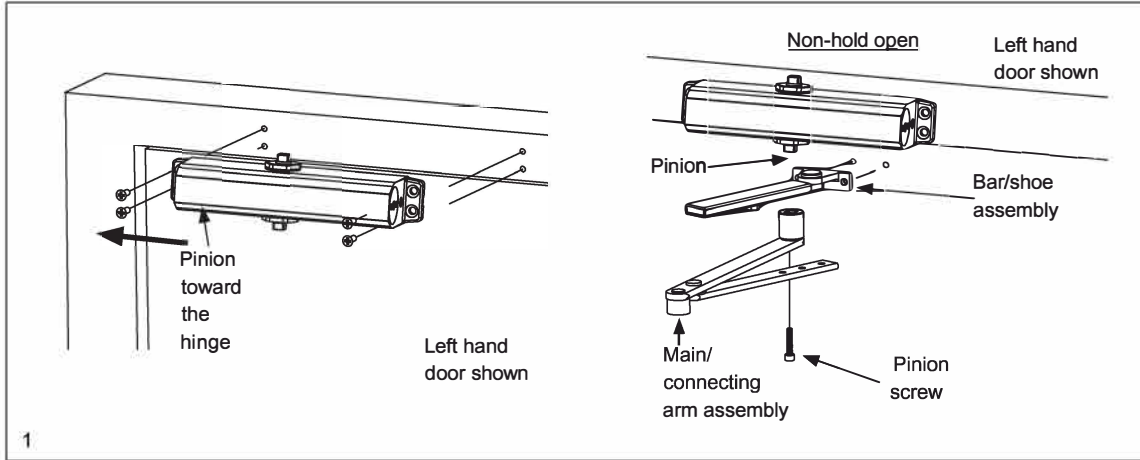
- 2.1 Slide end of connecting arm into end of bar/shoe assembly.
- 2.2 Secure connecting arm and bar/shoe assembly.
 - Use provided fastener [5/16-18 x 3/8" hex bolt].



RHDSTP Arm Installation Instructions for 300 Series / 500 Series Door Closers

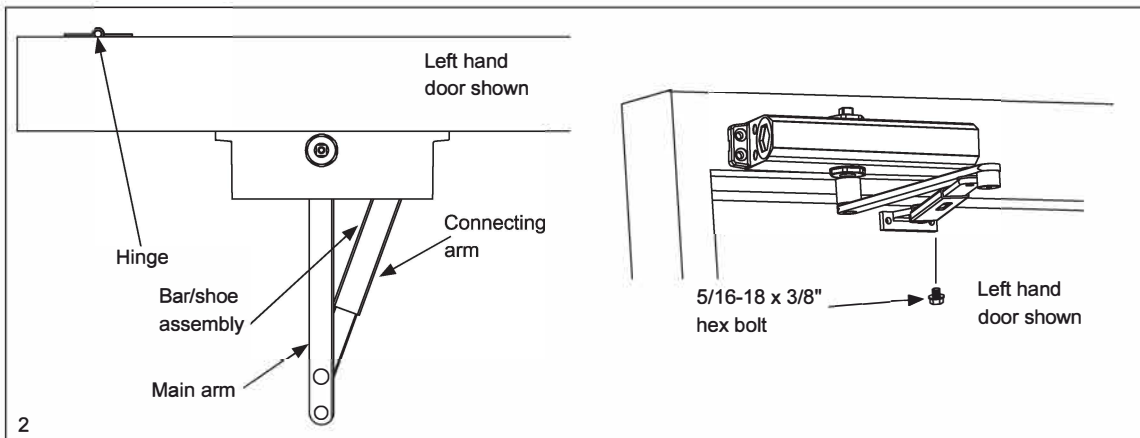
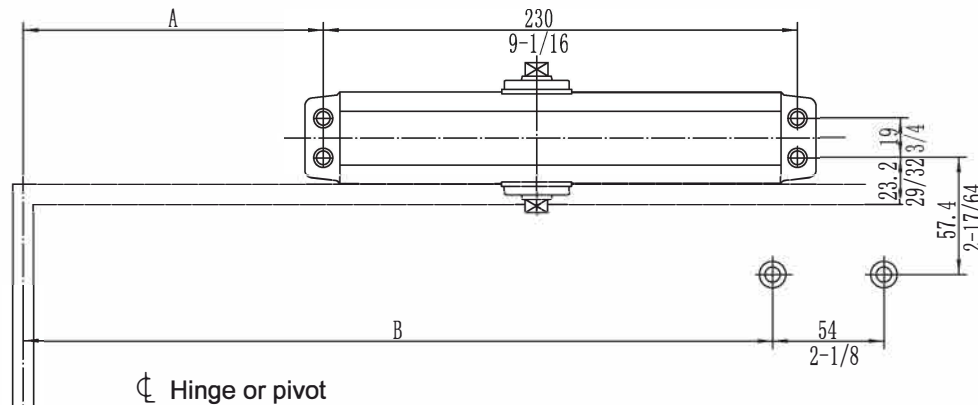
PUSH SIDE, TOP JAMB MOUNT

Mounting the surface closer & arm assembly (top jamb mnt)



- 1.1 Secure closer body to frame.
 - Use four 1-1/4-20 x 5/8" Phillips flat head screws provided.
- 1.2 Secure bar/shoe assembly to mounting surface.
 - Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.
- 1.3 Secure main arm to operator pinion.
 - Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].

Opening	Dimension "A"	Dimension "B"
TO 85 °	6-3/8 162	13-11/32 339
TO 90 °	5-5/8 143	12-53/64 326
TO 95 °	5-25/64 137	12-7/16 316
TO 100°	5-1/8 130	11-31/32 304
TO 105°	4-7/8 124	11-11/16 297
TO 110°	4-39/64 117	11-29/64 291



- 2.1 Slide end of connecting arm into end of bar/shoe assembly.
- 2.2 Secure connecting arm and bar/shoe assembly.
 - Use provided fastener [5/16-18 x 3/8 hex bolt].



RHDSTP Arm Installation Instructions for 300 Series / 500 Series Door Closers

CLOSER ADJUSTMENTS

Adjustments

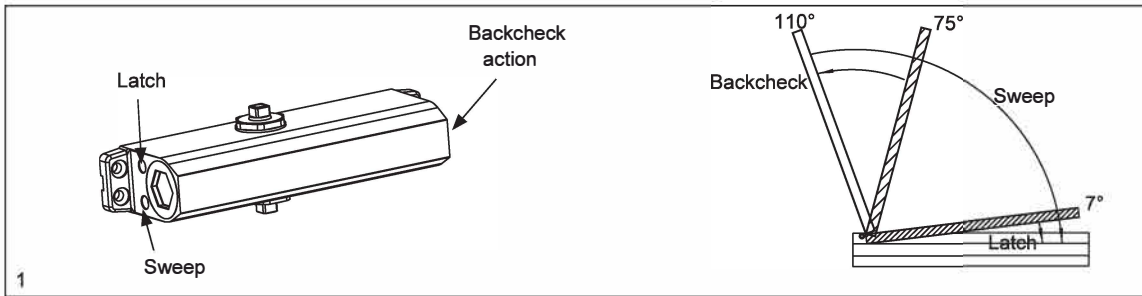
⚠ Confirm closer spring size prior to making any closing speed adjustments.

⚠ Do not back valves out beyond closer casting.

⚠ Maximum opening angle is 110°.

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

Adjusting the closing speeds: sweep, latch, and backcheck



1.1 Adjust sweep speed for the area from 70° - 10°.

- Increase sweep speed: Turn valve counter-clockwise
- Decrease sweep speed: Turn valve clockwise

1.2 Adjust latch speed from 10° - 0°.

- Increase latch speed: Turn valve counter-clockwise
- Decrease latch speed: Turn valve clockwise

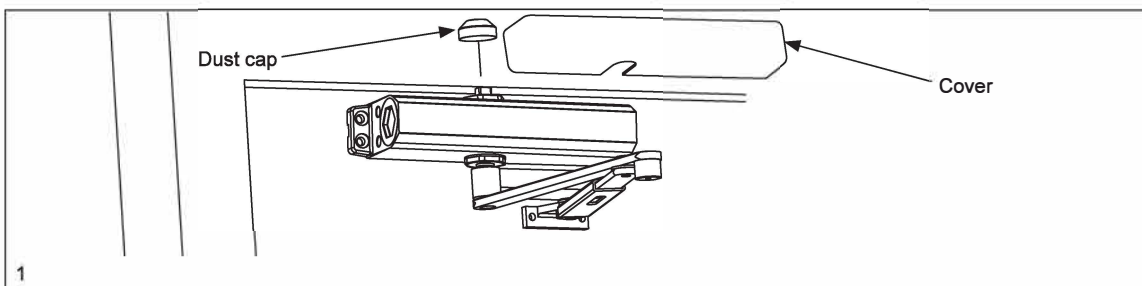
1.3 Adjust backcheck for the area from 110° - 75°.

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

1.4 Adjust Delayed Action for the area from 110° - 75°.

- Increase delay: Turn valve counter-clockwise
- Decrease delay: Turn valve clockwise

Installing the closer cover



1.1 Snap cover over closer body.

1.2 Screw dust cap onto exposed pinion.