RHDSTP Arm Installation Instructions for N900PBF Series Door Closers

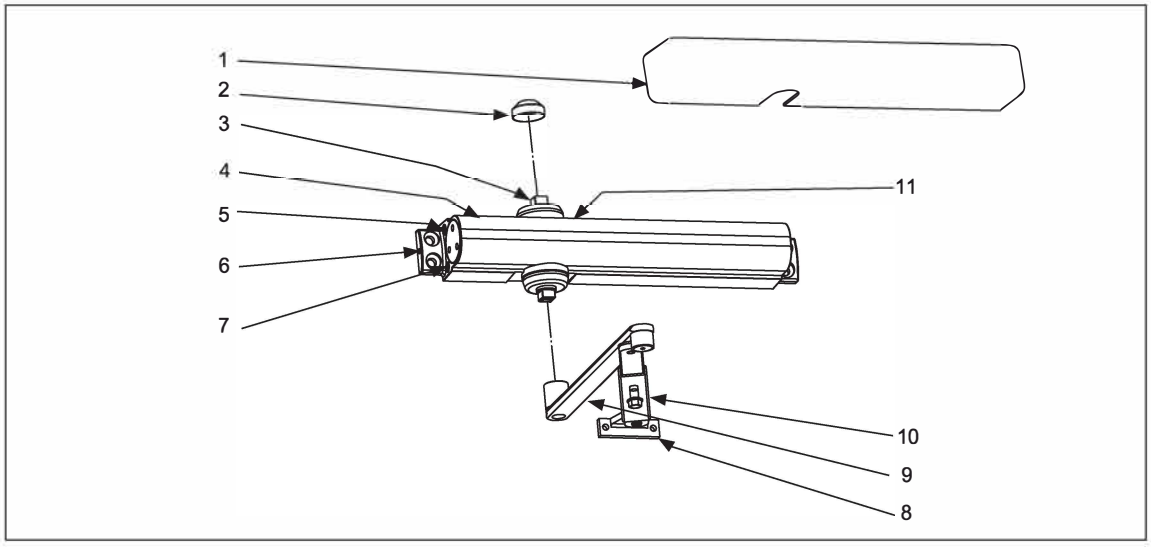
Closer setup

⚠ 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.

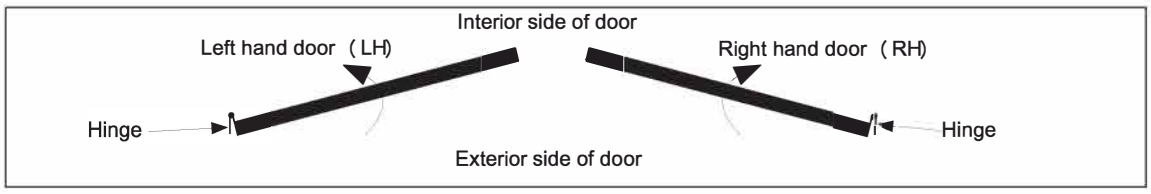
⚠ Make sure door efficiently operates prior to installing closer.



Surface closer system
The closer is comprised of the following components.

1. Cover
2. Dust cap
3. Pinion screw
4. Delayed action adjustment
5. Latch speed adjustment
6. Closer body
7. Closing/sweep speed adjustment
8. Bar/shoe assembly
9. Main arm
10. Connecting arm
11. Backcheck action adjustment

Handing of the door



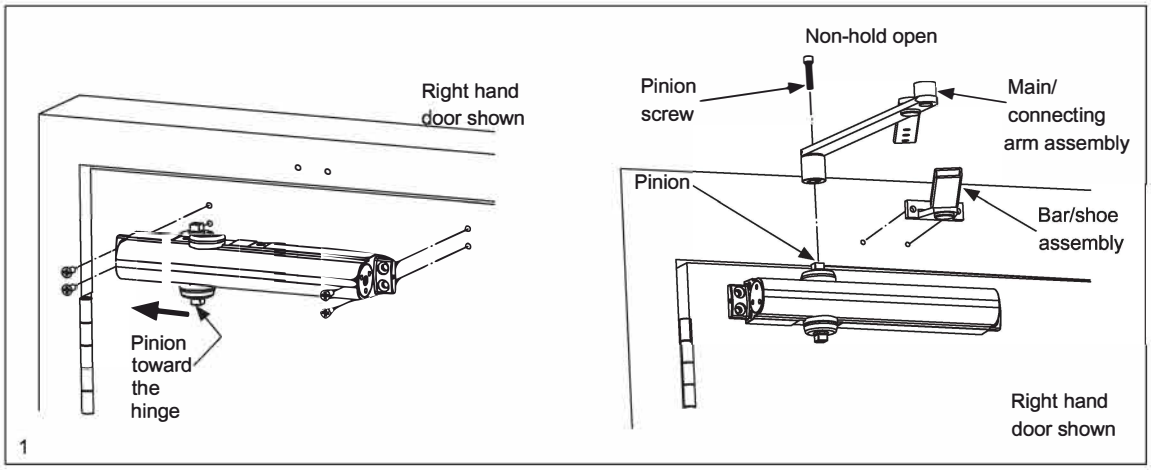
Tools recommended

- 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)

RHDSTP Arm Installation Instructions for N900PBF Series Door Closers

PULL SIDE, REGULAR MOUNT

Mounting the surface closer & arm assembly (reg mnt)



1.1 Secure closer body to door.

- Use four 1-1/4" combo screws provided.

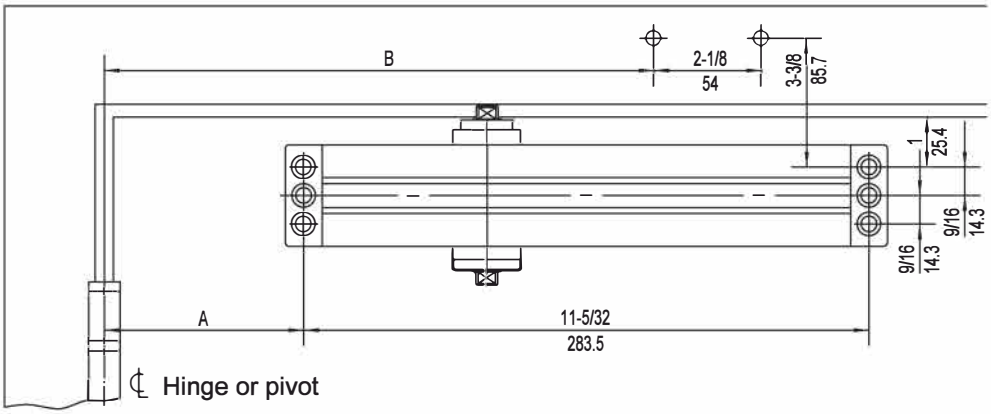
1.2 Secure the bar/shoe assembly to frame.

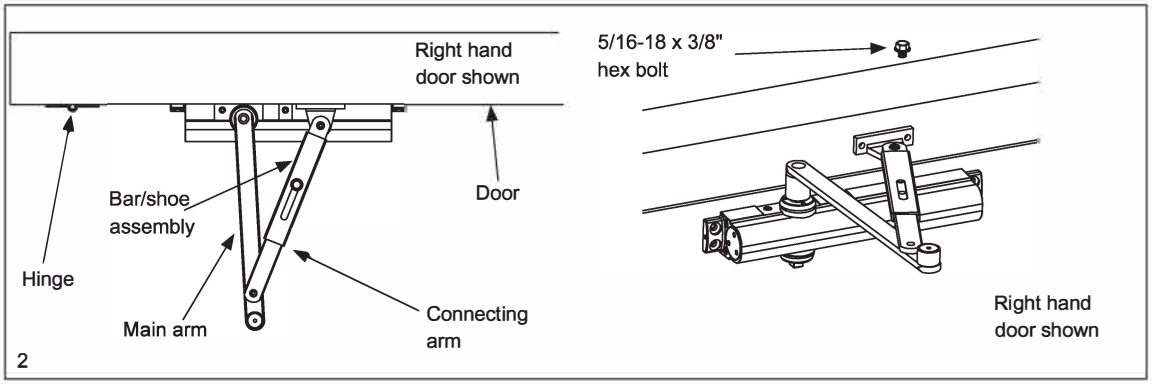
- Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.

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 °	6-1/4 158.6	14-21/64 364
TO 90 °	5-39/64 142.6	13-31/32 355
TO 95 °	4-53/64 122.6	13-45/64 348
TO 100°	5-47/64 145.6	13-5/64 332
TO 105°	4-15/64 107.6	12-23/32 323
TO 110°	4-1/8 104.6	12-21/64 313





2.1 Slide end of connecting arm into end of bar/shoe assembly.

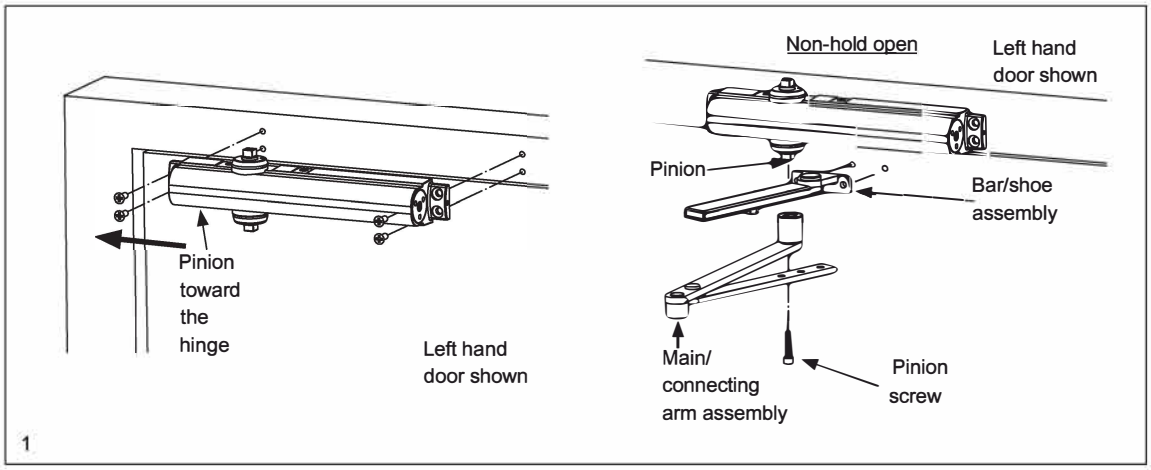
2.2 Secure connecting arm and bar/shoe assembly.

- Use provided fastener [5/16-18 x 3/8 hex bolt].

RHDSTP Arm Installation Instructions for N900PBF 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.

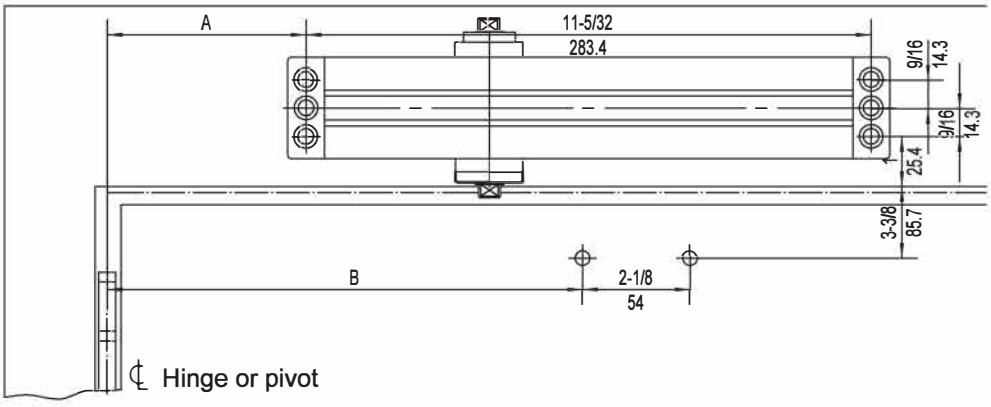
1.2 Secure bar/shoe assembly to mounting surface.

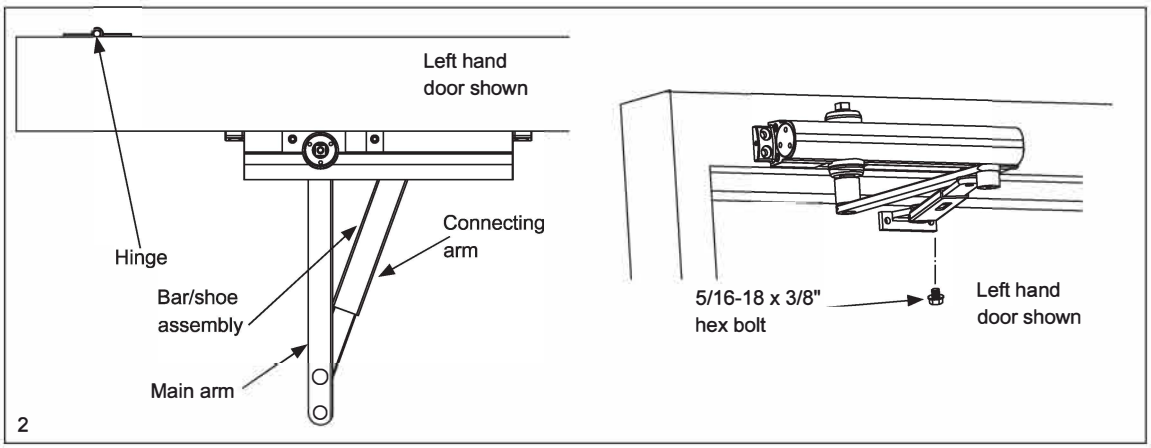
- Use two 1/4-20 x 5/8" Phillips round head screws [#14 x 1-1/4" round head wood screws] provided.

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 °	6-7/8 174.6	13-11/32 339
TO 90 °	6-1/8 155.6	12-53/64 326
TO 95 °	5-57/64 149.6	12-7/16 316
TO 100°	5-39/64 142.6	11-31/32 304
TO 105°	5-3/8 136.6	11-11/16 297
TO 110°	5-7/64 129.6	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 N900PBF Series Door Closers

CLOSER ADJUSTMENTS

Adjustments

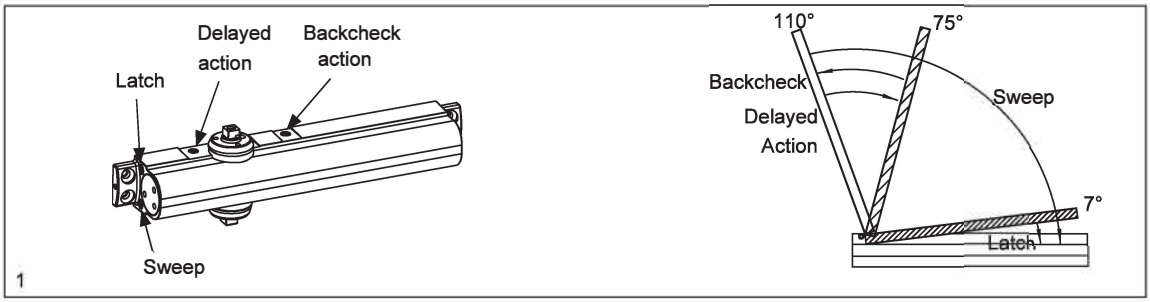
⚠ Confirm closer spring size prior to making any closing speed adjustments.

⚠ Do not back valves out beyond closer casting.

⚠ Maximum opening angle is 110º.

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

Adjusting the closing speeds: sweep, latch, and backcheck



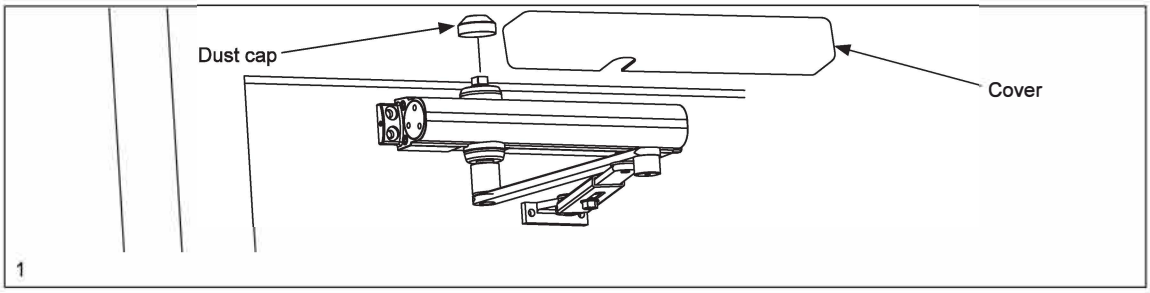
1.1 Adjust sweep speedfor the area from 70° - 10°.
- Increase sweep speed: Turn valve counter-clockwise
- Decrease sweep speed: Turn valve clockwise

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.