



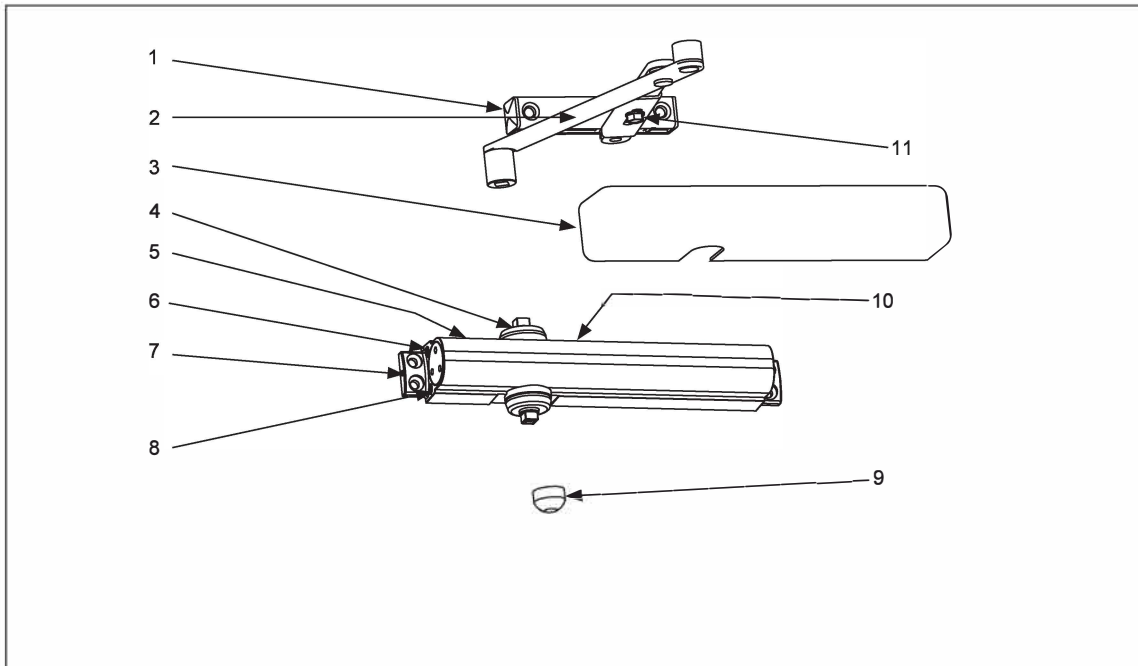
RHDSA-SS Arm Installation Instructions for N900PBF Series Door Closers

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.

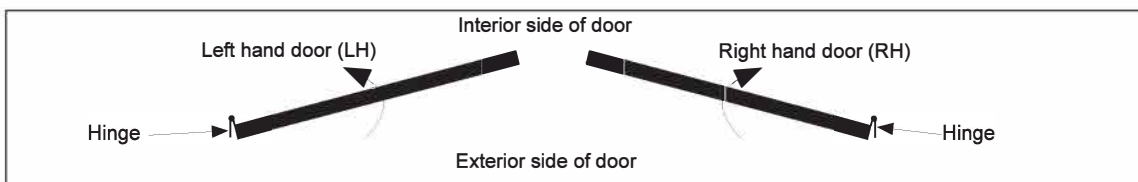


Surface closer system

The closer is comprised of the following components.

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Damper assembly 2. Main arm 3. Cover 4. Pinion 5. Delayed action adjustment 6. Latch speed adjustment 7. Closer body | <ul style="list-style-type: none"> 8. Closing/sweep speed adjustment 9. Dust cap 10. Backcheck action adjustment 11. Connecting arm |
|---|---|

Handing of the door



Tools recommended

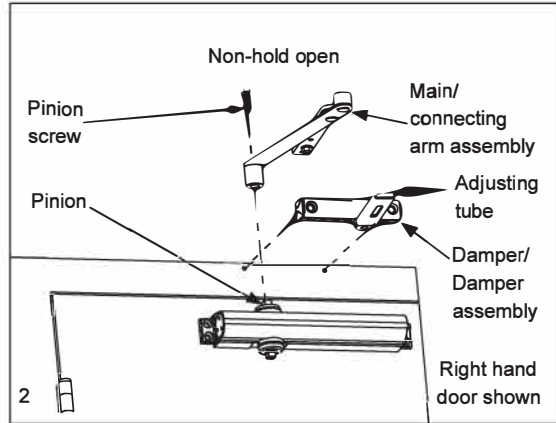
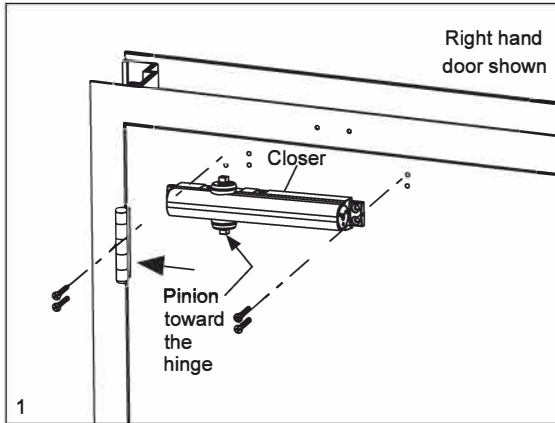
- Drill Bits
 - Metal: 7/32" & 1/4-20 tap
 - Wood: 5/32"
 - DPK: 1/8"
 - Sex nut: 3/8"
- #3 Phillips screwdriver
- 1/2" or 13mm box wrench
- 10" adjustable wrench
- 3/16" hex key
- 5mm hex key (supplied)

PULL SIDE, REGULAR MOUNT

RHDSA-SS Arm Installation Instructions for N900PBF Series Door Closers

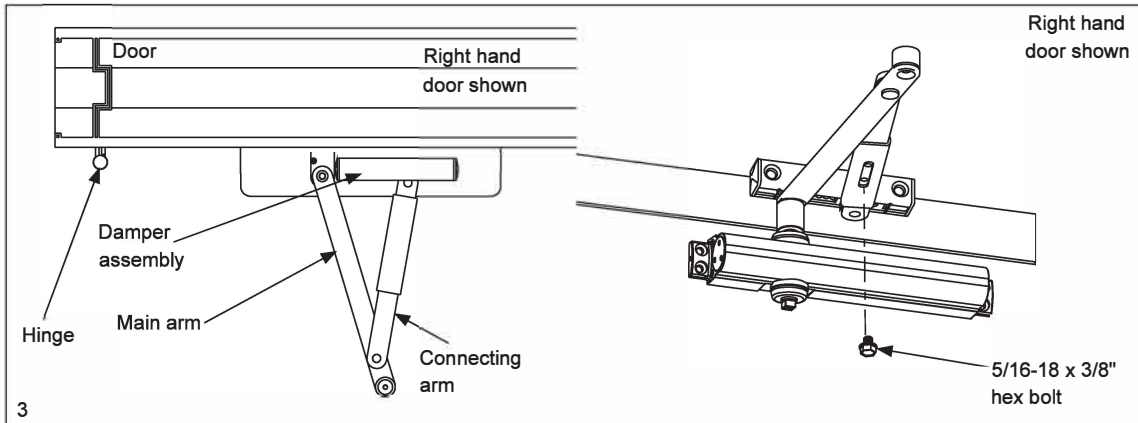
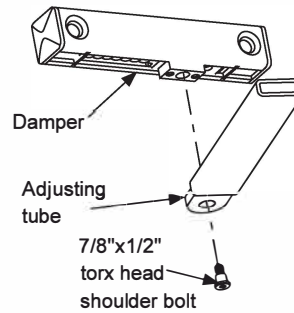
Installation Instructions

Mounting the surface closer & arm assembly (reg mnt)



NOTE: Orient pinion closest to hinge.

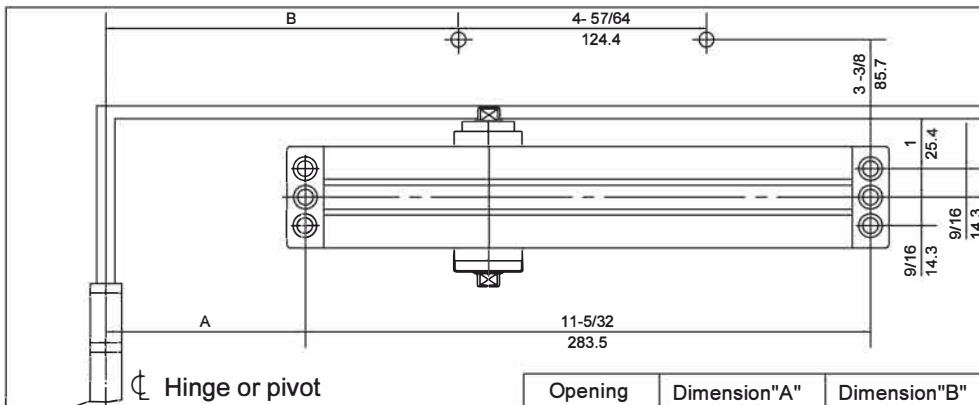
- 1.1 Secure closer body to mounting surface.
 - Use four 1-1/4" combo screws provided.
- 2.1 Secure adjusting tube to damper.
 - Use one 7/8" x 1/2" torx head shoulder bolt provided.
- 2.2 Secure damper assembly to frame.
 - Use two 5/16" x 2" flat head screws [#20 x 2" flat head wood screws] provided.
- 2.3 Secure main arm to operator pinion.
 - Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].



3.1 Slide end of connecting arm into end of damper assembly.

3.2 Secure connecting arm and damper assembly.

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



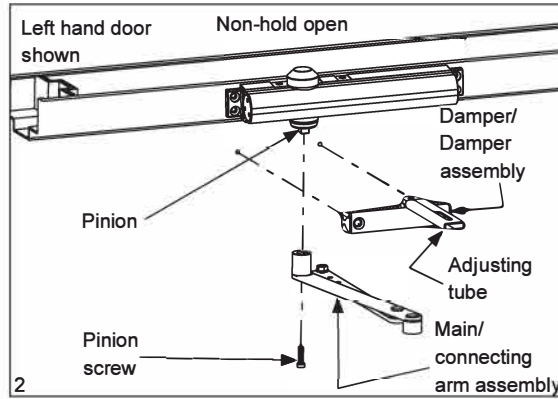
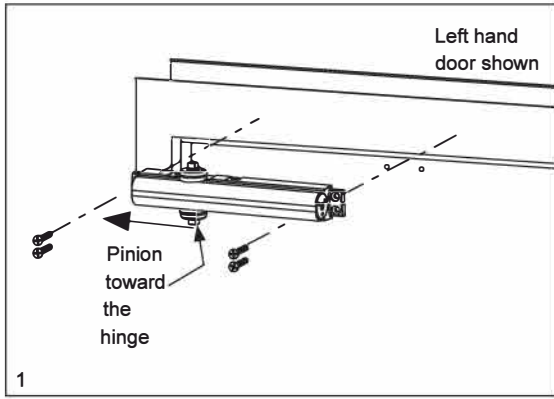
Opening	Dimension "A"	Dimension "B"
TO 85 °	9-25/64 238.6	12-9/32 312
TO 90 °	8-49/64 222.6	11-21/32 296
TO 100 °	7-57/64 200.6	10-25/32 274
TO 110 °	7-7/64 180.6	10-3/64 255



PUSH SIDE, TOP JAMB MOUNT

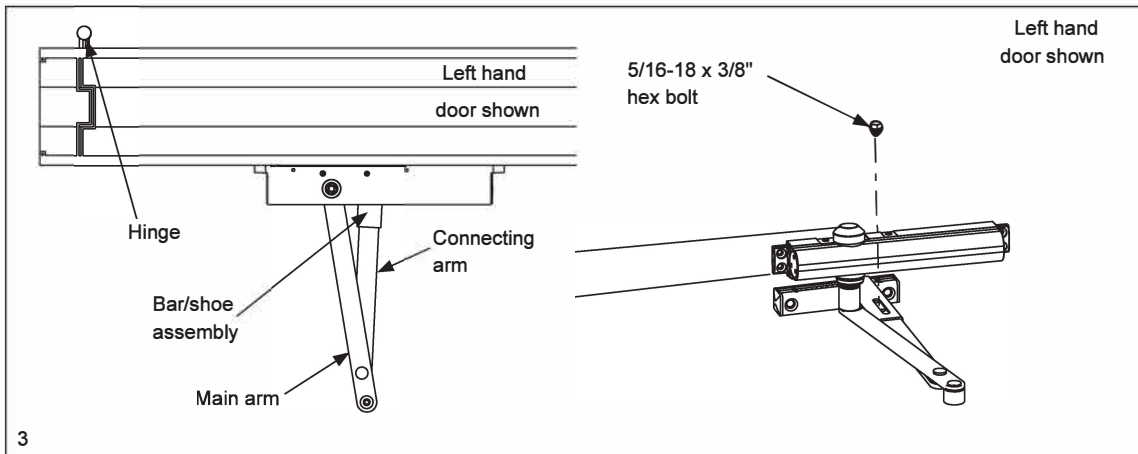
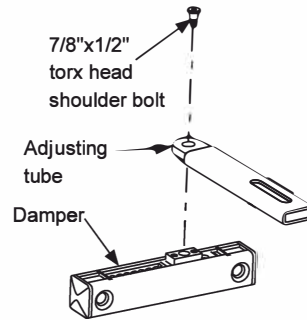
RHDSA-SS Arm Installation Instructions for N900PBF Series Door Closers

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

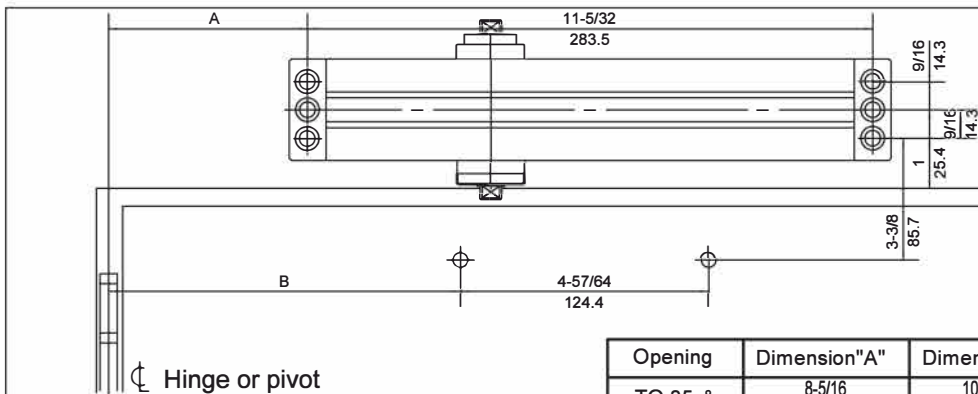


NOTE: Orient pinion closest to hinge.

- 1.1 Secure closer body to plate.
 - Use four 1/4-20 x 5/8" Phillips flat head screws provided with the plate itself.
- 2.1 Secure adjusting tube to damper.
 - Use one 7/8" x 1/2" torx head shoulder bolt provided.
- 2.2 Secure damper assembly to frame.
 - Use two 5/16" x 2" flat head screws [#20 x 2" flat head wood screws] provided.
- 2.3 Secure main arm to operator pinion.
 - Use a torque wrench (25 ft-lbs) and provided pinion screw [M8 x 30 socket head cap screw].



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



Opening	Dimension "A"	Dimension "B"
TO 85 °	8-5/16 211	10-63/64 279
TO 90 °	7-63/64 203	10-43/64 271
TO 100°	6-57/64 175	9-9/16 243
TO 110°	6-17/64 159	8-15/16 227



CLOSER ADJUSTMENTS

Adjustments

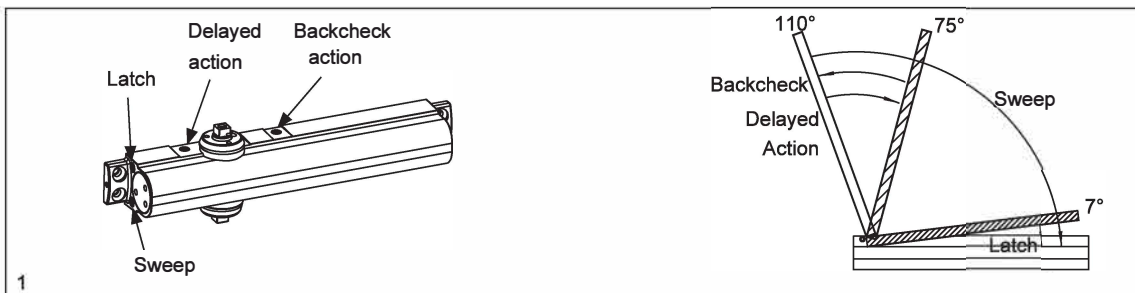
⚠ Confirm closer spring size prior to making any closing speed adjustments.

⚠ 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° - 70°.

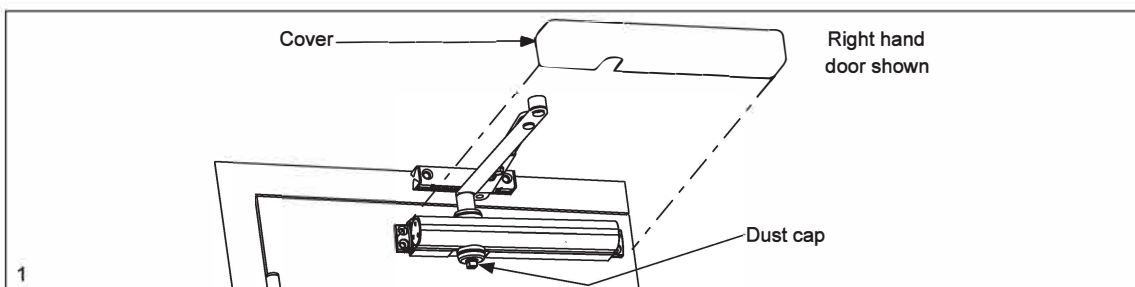
- Increase resistance: Turn valve clockwise
- Decrease resistance: Turn valve counter-clockwise.

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

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

Installing the closer cover

Installing the full cover (only)



1.1 Snap cover over closer body.

1.2 Screw dust cap onto exposed pinion.