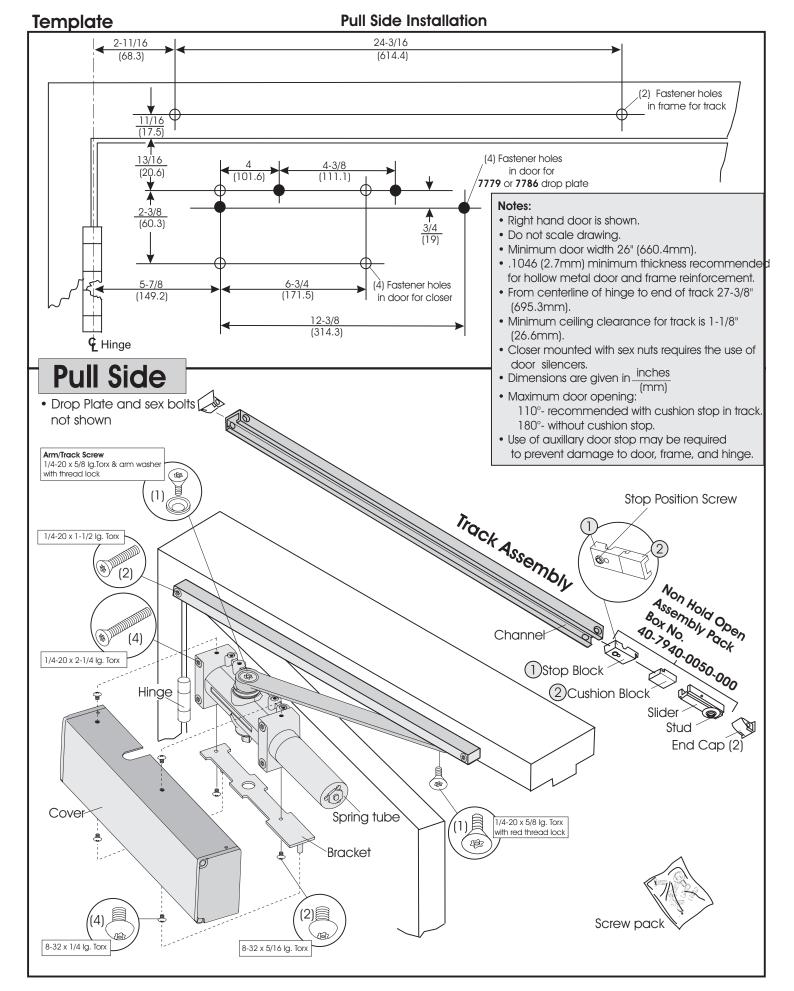
Installation Instructions Norton 80-9377-0670-020 (06-24) 7570ST, 7770ST, 7560ST & 7760ST (Pull Side Mounted) PS7570ST, PS7770ST, PS7560ST & PS7760ST (Push Side Mounted) Security Door Closer or Door Closer with Security Arm Only Slide Track Installations CAUTION • For Closers with or without "DA" suffix, delayed action closing feature. An incorrectly installed or improperly adjusted door closer can cause property lamage or personal injury. These instructions Non Hold Open Models should be followed to avoid the possibility of misapplication or misadjustment. Series • Sized Door Closers 7760/7770 have 50% power Product Type Multi-Sized Size Closer increase capability. Closer size 2 has the weakest power, Closer 7570ST closer size 6 has the strongest power. Security Door Closer 7770ST 7570BF-ST Door Closer with **PS7570ST** • Multi-Sized Closer 7560/7570 can be adjusted from a Security Cover, **PS7770ST** PS7570BF-ST Security Arm & Security Track size 2 thru 6. 7560ST 7760ST •BF (Barrier Free) Closer 7560BF/7570BF can be Door Closer with 7560BF-ST Security Arm Only adjusted from size 1 thru 4. This series is intended for **PS7560ST PS7760ST** use where doors are required to meet accessibility PS7560BF-ST standards **Installation Type** (III ٥Ì Doo Edge of Hinge | Left Hand Door-LH **Right Hand Door-RH Right Hand Reverse-RHR** Left Hand Reverse-LHR Pull (Hinge) Side Mounted Door ð Edge Left Hand Door-LH **Right Hand Door-RH** Hinge | **Right Hand Reverse-RHR** Left hand Reverse-LHR Push (Stop) Side Mounted

•Maximum pull side frame reveal is 1/8" (4mm).

• Minimum frame face for pull side is 1-1/8" (26.6mm).

- •Security Door Closers 7770/7570 only. Door closer cover is handed and cannot be reversed. All other components are non handed.
- •The use of ball bearing hinges is recommended for the door on which the closer will be installed. Door must swing freely.
- •A separate door stop, supplied by others, is recommended to assist in preventing damage to the door closer, closer arm; or to the door, frame or adjacent walls.
- Door and frame must be properly reinforced, or the use of special fasteners employed, to prevent door collapse or the mounting screws from pulling out.
- •All dimensions are given in inches with corresponding metric dimensions (millimeters) in parenthesis.
- •Torx tamper resistant drive screws are normally supplied with this product.

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Installation Sequence Pull or Push Side Mount

- Determine hand of door and type of installation from illustrations on page 1. Closer covers are handed. Hand of cover must match hand of door.
- Use template dimensions to locate fastener holes on door and frame. See "Preparation for Fasteners" chart below.
 - Frame: Prepare the frame for mounting track. Drill and tap holes for 1/4-20 machine screws.
 - **Door:** Prepare the door for mounting closer. Drill and tap (4) holes for 1/4-20 machine screws, 3/8 diameter sex-nuts, or through bolts and grommet-nuts.

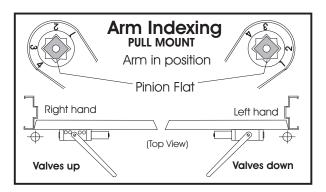
Note: If drop plate is used, prepare holes for 7779/7786 drop plate instead of closer. Secure drop plate before mounting closer.

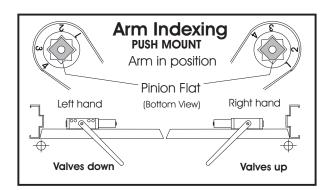
- Fasten closer to door or drop plate. Position spring tube away from hinge. See arm indexing illustrations (above right) for valve positioning (up or down). Secure mounting screws.
- Install arm on closer pinion see arm indexing illustrations (above right). Position slide arm with counterbore facing up and align with pinion flat as illustrated. Install onto pinion. Secure with washer and flat head torx drive arm screw with thread lock.
- Track Assembly

Remove slider assembly parts from box # 40-7940-0050-000 and insert into channel in the order shown.

Insert end caps into ends of track prior to installing.

Preparation for Fasteners					
Fasteners	Door or Frame	Drill Sizes			
1/4" -20 machine screw	Metal	drill: #7 (.201") tap: 1/4" -20			
Sex-nuts and bolts (Optional)	Hollow Metal	9/32" (7.00mm) through 3/8" (9.50mm) door-fac opposite to closer			
	Aluminum or Wood	3/8" (9.50mm) through			
Through-bolts and grommet-nuts (Optional)	All	9/32" (7.00mm) through; 3/8" (9.50mm) dia. x 3/8" (10mm) deep door face opposite to closer			





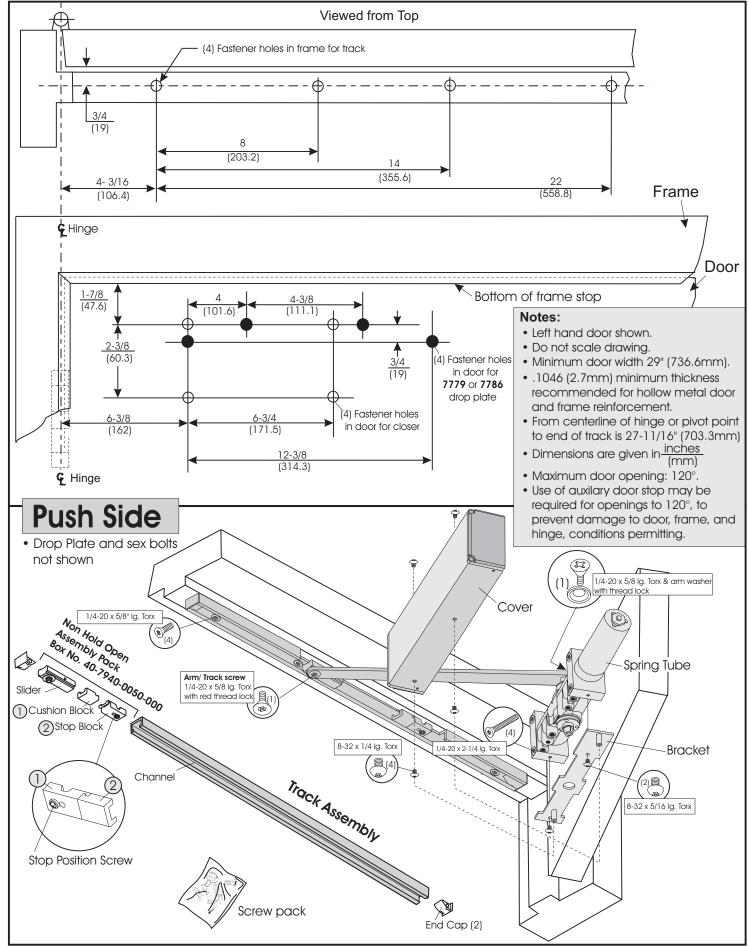
- Install track to frame. Place the assembled slide track against frame with the open side down, stop and cushion blocks toward the hinge. Move the slide to the opposite end of the slide track. Secure slide track with 1/4-20 torx drive mounting screws.
- **Connect arm to track.** Open door approximately 5"(127mm), rotate arm to slider and place end on stud. Push down on arm and tap gently to seat (to prevent stud from turning during assembly). Secure with 1/4-20 x 5/8" long flat head torx drive screw with thread lock. CAUTION: Closer arm is under spring tension and

may be difficult to rotate.

- Set door opening angle. Open door to the angle you want the door to stop. With the door held at that location, slide stop with cushion block against slider. Tighten the stop position screw (large set screw) with 3/16" hex wrench (from screw pack) until secure. Release door.
- Adjust closer (see page 5) before installing cover.
- Series 7570 & 7770 only: Fasten cover bracket to closer with (2) 8-32 x 5/16" round head torx screws. (See illustration page 2 or 4). Bracket must extend underneath and toward spring tube.
- Install Cover (see illustration). Fasten cover to closer and cover bracket with (4) 8-32 x 1/4" long round head torx screws.
 For closers with Security Slide Track Arm Only (Series 7560ST & 7760ST) fasten cover with (2) 8-32 x 1/4" round head torx screws at top of closer.

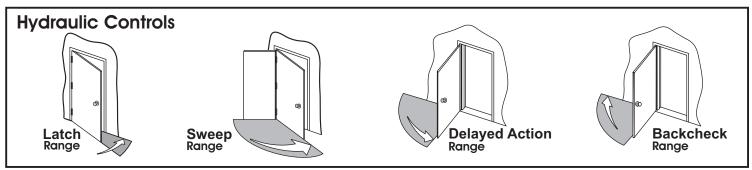
Template

Push Side Installation



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Closer Adjustments



Closing Power

7760/7770 Models come in five different sizes (2 through 6); each power size can be increased by 50%. Adjust as required. See Figure 1.

7560(BF)/7570(BF) Models are fully adjustable. For proper sizing see Power Adjustment Chart. To adjust closer power, see Figure 1. Increase or decrease power as necessary.

Closing Cycle (see illustrations above).

Valve "L" controls door speed in Latch Range.

Valve "S" (optional) controls door speed in Sweep Range for Delayed Action Closer only.

Valve "SD" controls door speed in Sweep Range for Standard Closer or Delay

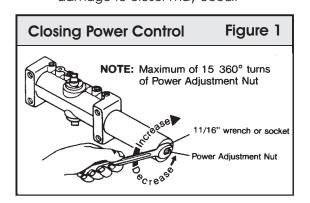
Range

for Delayed Action Closer Use 1/8" hex-key furnished and adjust as shown in **Figure 2**.

Attention: Adjust closing speed to between 4 to 7 seconds from 90°. Use of door by handicapped, elderly or small children may require greater closing time.

Opening Cycle (see illustration above).

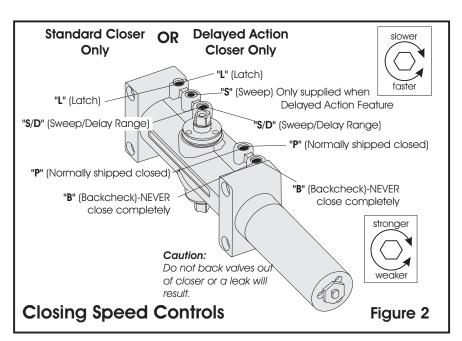
Valve "**B**" cushions (slows) door opening in the **Backcheck Range**. NOTE: Never close this valve completely or damage to closer may occur.



Power Adjustment Chart

Door Size Inches (mm)	Full Clockwise Turns of Closer Power Adjustment Nut				
	7570ST/ 7560ST PS7570ST/ PS7560ST		7570BF-ST/ 7560BF-ST PS7570BF-ST/ PS7560BF-ST		
	Interior Door	Exterior Door	Interior Door	Exterior Door	
28-32 (0.07-0.80)	0	2	1	4	
<u>33-36</u> (0.85-0.90)	2	5	3	6	
<u>37-42</u> (0.95-1.05)	5	8	5	8	
<u>43-48</u> (1.10-1.20)	8	11	8	12	

NOTE: Maximum of 15 turns (360°) of Power Adjustment Nut. Closer is shipped set at lowest power setting.



Norton

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Page 5

Approved 2024-06-06