7500/7700 SERIES Institutional Door Closer



ASSA ABLOY, the global leader in door opening solutions



OVERVIEW

The 7500 Series Door Closer offers customers the ideal combination of superior performance, strength and quality. Ideal for interior or exterior doors in facilities that demand reliability.

Features

- Non-handed
- Rack-and-pinion design
- Cast aluminum body
- 2-3/16" (56mm) projection
- 1-1/2" (38mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Staked valves
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- Backcheck positioning valve
- NorGlide[®] fluid
- Molded plastic cover
- All standard arm applications allow doors to swing 180°, conditions permitting
- Self-drilling screws
- Full-size template
- Heavy-duty arms: Regular Rigid, Parallel Rigid, CloserPlus[®], CloserPlus Spring[™] and Unitrol[®]
- Slide Tracks: push or pull side mounting

Optional Features

- Corrosion resistant model (non-hold open only). Specify 7500SS
- Metal cover. Specify M suffix
- Lead lined metal cover. Specify MLL suffix
- Enhanced backcheck. Specify EBC suffix
- Delayed action with pressure relief valve
- Retrofit plates

Features	7500	7700
Adjustable spring sizes 1 through 6 (ADA Compliant)	Х	
Sized springs 2,3,4,5,6 with 50% power adjustment		Х
Tri-Style® packaging; tri-packed for regular, top jamb or parallel arm mounting	Х	
Bi-packed for regular or top jamb mounting		Х

Compliance Standards

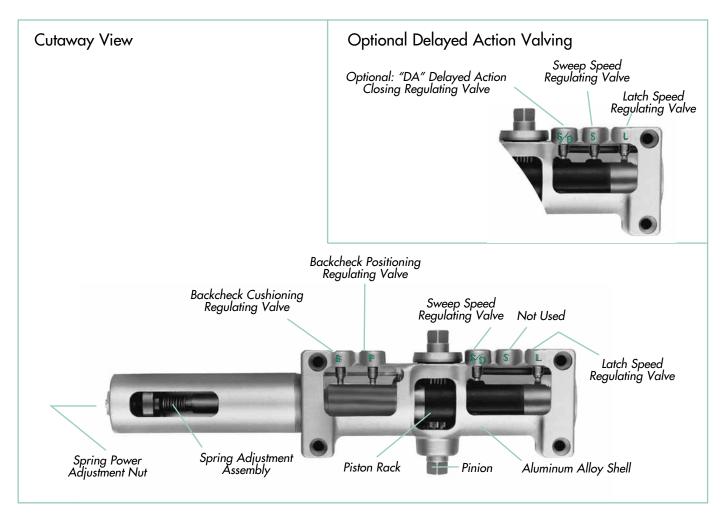
- Exceeds 10 million cycles (witnessed and verified by UL)
- ANSI/BHMA A156.4, Grade 1 certified BHMA
- UL listed
- UL10C compliant for positive pressure
- ADA Compliant (7500)
- 25-year limited warranty

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OVERVIEW



COMPLIANCE STANDARDS

The series 7500 door closers are designed to comply with requirements of the Americans with Disabilities Act (A.D.A.) and ANSI/BHMA standard A117.1. All series 7500/7700 door closers are ANSI/BHMA A156.4 Grade 1 certified. All Norton series 7500/7700 closers with non-hold open arms are listed by Underwriters' Laboratories for labeled fire doors. This includes compliance to UL10C for 3-hour assemblies. The product is manufactured in an ISO 9001 facility.

Windstorm

Norton 7500 door closers are UL certified for inswing and outswing single and pair (up to 8'0" x 8'0") door assemblies to ICC 500 for Storm Shelters. Additionally, the 7500 meets FEMA 361 guidelines.

7500 is part of a complete ASSA ABLOY tornado and hurricane shelter solutions utilizing Ceco StormPro 361, Curries StormPro 361, Fleming F5 doors and frames and McKinney SP hinges.

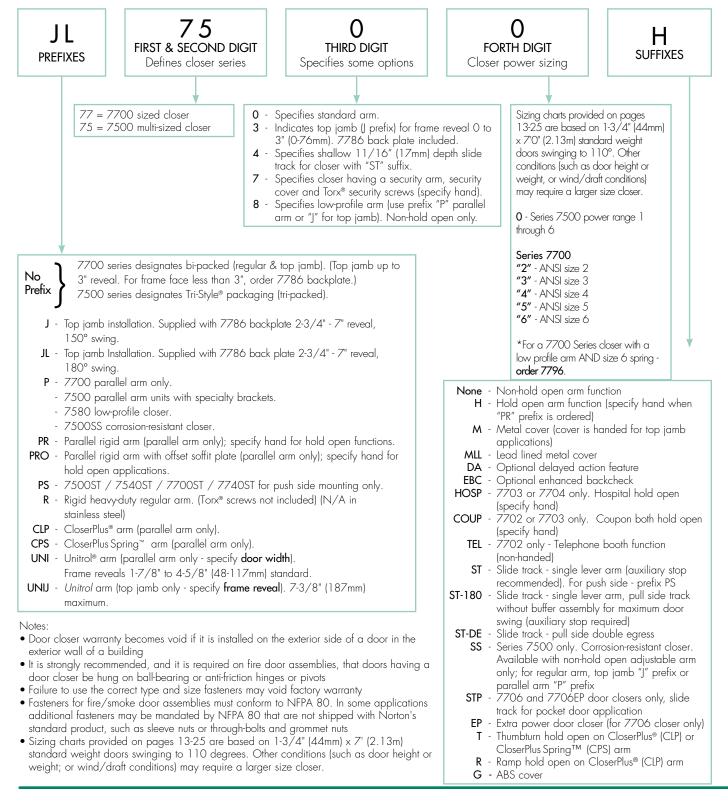
CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door.



HOW TO ORDER

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop.



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Norton[®] ASSA ABLOY

FASTENERS

		Arm								
Туре	Description	RA	PA	ΓJ	Low Profile	PR	CLP/ CPS	UNI	UNI-J	Slide Track
				DOOR						
SDST	Self Drilling Self Tapping	S	S	S	S	S	S	S	S	S
MS	Machine Screw	S	S	S	S	S	S	S	S	S
SN	Sleeve Nut	0	0	0	0	S	S	S	S	S
TBGN	Thru Bolts & Grommet Nuts	0	0	0	0	0	0	0	0	0
SMS	Sheet Metal Screws	0	0	0	0	0	0	0	0	0
TORX®	Torx Drive Security Screw	0	0	0	0	0	0	0	0	0
				FRAME						
SDST	Self Drilling Self Tapping	S	S	S	S	S	S	S	S	S
MS	Machine Screw	S	S	S	S	S	S	S	S	S
SMS	Sheet Metal Screws	0	0	0	0	0	0	0	0	0
TORX	Torx Drive Security Screw	0	0	0	0	0	0	0	0	0

S = standard; O = optional

SN are for use on unreinforced hollow metal doors or to prevent any hollow metal door from collapse/dimpling. They can also be used for thru bolting on wood doors. SN are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors. **TBGN** are an alternative to SN for wood doors. TBGN are supplied standard for 1-3/4" (44mm) thick doors. They can be specified for 1-3/8" (35mm) thick doors.

SMS - when specified, closer will be packed with sheet metal screws for the door AND sheet metal screws plus machine screws for the frame. TORX screws with security pin are standard with 7570/7770 Security Door Closers. *Torx* may be specified for all other series applications. *Torx* are only available with machine screw threads. Sheet metal screw threads are not available.

FINISHES

Norton offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA	US	Description
600*	SRI	Prime Coat
605	US3	Bright Brass
606	US4	Satin Brass
611	US9	Bright Bronze
612	US10	Satin Bronze
613E	US10BE	Dark Oxidized Satin Bronze - Equivalent
625	US26	Bright Chrome
626	US26D	Satin Chrome
689	AL	Aluminum

ANSI/BHMA	US	Description
690	STAT	Statuary Bronze
691	DB	Dull Bronze
693	315	Black
694	312	Medium Amber
696	GB	Gold

* 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

• Norton closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.

• When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.



FEATURES

Aluminum Alloy Housing

Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation

Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not interfere.

Non-handed

With few exceptions all series 7500 and 7700 door closers are non-handed and can be installed on either right or left hand swing doors. Pinion shaft extends vertically through the closer body in both directions. Some options, as noted on pages 6-8, will require that the hand of the closer be specified.

Sweep Speed Control Valve

Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Value

Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Tri-Style® Packing

7500 comes with screws, brackets and soffit plates to allow for regular, top jamb, and parallel arm installations.

OPTIONAL FEATURES

Corrosion-Resistant Door Closer

The series 7500SS door closers with molded plastic cover are available for use where corrosive conditions exist. This series is provided with brass adjustment valves, a 440 grade stainless steel pinion shaft, an all-aluminum body and bronze closer arm bushings; all other components are of 302/303 grade stainless steel. Fasteners are 8-18 stainless steel. This product is available for standard regular arm, top jamb and parallel arm, non-hold open, applications only.

Adjustable Backcheck Cushion Valve

Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted limits.

Adjustable Backcheck Position Valve

Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater door angle, up to a maximum of 20° farther (approximately 95°).

Standard Molded Cover

Molded of high-impact U.L. listed material and covers the entire closer body assembly. This cover is non-handed for all applications.

Warranty

These closers carry a limited 25-year warranty against defect, and life of the building on the aluminum housing.

Closer Fluid

NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

Door Closer Power Options

Series 7700 Sized Door Closer

Available in five different power sizes (2, 3, 4, 5 or 6). Each power size is adjustable up to 50% stronger than the minimum closing force for that size, as outlined in ANSI/BHMA specification A156.4.

Series 7500 Multi-Sized Door Closer

Adjustable through the entire power range of door closer sizes 1 through 6, as outlined in ANSI/BHMA standard A156.4.

The series 7500 also conforms to the minimum opening force requirements of the Americans with Disabilities Act (A.D.A.) and ANSI/BHMA standard A117.1 for interior doors.

Optional Metal Cover

This steel cover is non-handed for regular and parallel arm applications, but is handed for top jamb applications. Cover is available in sprayed or architectural plated finishes.



Security Cover

Supplied standard with all series 7570/7770 door closers. This deep drawn steel cover is handed for all applications. The cover is fastened to the closer body at two points on top and to the door closer body stand-offs at two points on the bottom.

Optional ABS Cover Consult factory for details

OPTIONAL FEATURES

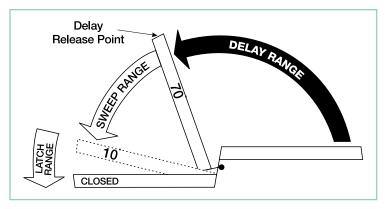
Enhanced Backcheck

This feature provides adjustable backcheck intensity beginning at approximately 15 degrees of the door opening cycle. It is intended for use in situations where the standard backcheck beginning at approximately 75° of door opening allows too much unrestricted door travel to obtain control of the door without the fear of peripheral damage to the door closer, door, frame, hinges or pivots; or adjacent walls or structures. This feature is most frequently used in schools and detention facilities. Specify suffix EBC.

Adjustable Delayed Action Closing

An optional hydraulic feature that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door release and valve adjustment. The valve can be adjusted with a 1/8" (3mm) hex key from no delay time up to maximum delay times of:

Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds



Pressure Relief Safety Valve

The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.

Suggested Applications

Delayed Action closing allows slow-moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic. Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/warehouse facilities, doors to workshops or laboratories, to kitchen and food processing areas, etc.

OPTIONAL FEATURES ARMS

Non-Hold Open

Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® arms.

Hold Open

Achieved by means of friction or ball and detent/roller. Friction hold open has a range of 90° to 180° using template location and mechanical adjustment. Ball and detent or roller hold open is effective in a range of 85° to 110°. Hold open arm door closers are not permitted to be used on fire door assemblies.

Door Opening Degrees

Arm Function	Regular Arm, Top Jamb Parallel Arm	Parallel Rigid Arm	CloserPlus® Parallel Arm	CloserPlus Spring™ Parallel Arm	Unitrol® Parallel Arm	Unitrol Top Jamb	Low Profile Regular, Parallel	Slide Track
Non-Hold Open	1	1	85° to 110°	85° to 110°	85° to 110°	85° to 110°	1	85° to 110°/180°
Hold Open	90° to 180°	85° to 180°	85° to 110°	85° to 110°	85° to 110°	85° to 110°	N/A	85° to 110°

✓=180° trim and template permitting

SPECIAL FUNCTION DOOR CLOSER

7700 Special Function Door Closers

Telephone Booth Operation

Closer holds the door to the telephone booth open at 5° from the closed position. This prevents the light switch from being activated and allows the booth to be ventilated. It also indicates to users that the booth is unoccupied. Available in size 2 only for regular arm or top jamb application only.

SUGGESTED SPECIFICATIONS

7500 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy body. Closers shall be surface mounted and shall project no more that 2-3/16" (55mm) from the surface of the door. Closers shall be non-handed to permit installation on doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from size 1 through size 6. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep speed and latch speed. Closers shall have backcheck cushioning controlled by a hex key adjusted valve. Closers shall have backcheck position controlled by a hex key adjusted valve.

[Closers shall have adjustable delayed-action closing controlled by a hex key adjustable valve.]

[Closers shall be highly corrosion resistant and shall have all external body components of aluminum, brass or stainless steel material and all fasteners of stainless steel.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/-7-1/2%) power adjustment. **Closers shall be enclosed in a [molded resin cover] [plated or sprayed metal cover]. Closers to be Norton [7500] [7500M] [7500SS].

**For special arms insert the appropriate specification from column three on this page.

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Coupon Booth Hold Open

Most commonly used on doors to safe deposit box inspection cubicles. Closer holds the door to the booth open at 15° to indicate that the booth is available for use by a safe-deposit-box renter. When the door is opened beyond 70°, the closer will close the door and engage the lock, providing the occupant with the desired privacy. Available in sizes 2 and 3 only for regular arm, top jamb or parallel arm application. Specify hand.

Hospital Hold Open

Closer will hold door open at approximately 15° for ventilation, 45° for observation and beyond 90° for full access.

Closer is supplied with a standard hold open arm for the beyond 90° hold open position. Available in sizes 3 and 4 only for regular arm, top jamb or parallel arm application. Specify hand.

7700 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more that 2-3/16" (55mm) from the surface of the door. Closers shall be non-handed to permit installation of doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have power adjustment to permit a 50% increase in power over the minimum closing force for each size. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep speed and latch speed. Closers shall have backcheck cushioning controlled by a hex key adjusted valve. Closers shall have backcheck position controlled by a hex key adjusted valve.

[Closers shall have adjustable delayed action closing controlled by a hex key adjustable valve.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/ - 7-1/2%) power adjustment. * * Closers shall be enclosed in a [molded resin cover] [plated or sprayed metal cover]. Closers to be Norton [7700] [7700M].

**For special arms insert that specification here (see column three on this page).

**Unitrol[®] Arm

Door closers shall have a fixed door stop feature effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the [soffit plate] [arm shoe] pivot. [Closers shall be provided for parallel arm installation using rigid steel main arm and secondary arm lengths proportional to the door width.] [Closers shall be provided for top jamb installation using steel, rigid main arm and telescoping secondary arm adequate for the frame reveal of the openings.]

**CloserPlus® Arm

Door closers shall have a field reversible door stop. Hold open tension shall be adjustable effective at one point selected at installation, from 85° - 110° in five degree increments. Closers shall be provided for parallel arm installation using a forged rigid steel main arm and secondary arm.

****CloserPlus Spring™ Arm** Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in fivedegree increments. Door stop mechanism shall be reversible and have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be attached to soffit plate. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel installation using a forged rigid steel main arm and secondary arm.

APPLICATIONS



Non-hold open arm shown

Regular Arm

This is the only pull-side application where a double lever arm is used. It is the most power efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered.

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.



Non-hold open arm shown

Top Jamb

For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just $2 \cdot 1/8''$ (54mm). This application provides the best door control for doors in exterior walls that swing out of a building.

The entire door closer and arm assembly project from the frame, similar to the regular arm application, where matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of frame reveal.



Non-hold open arm shown

Parallel Arm

This application provides the most appealing design appearance for a surface-mounted door closer having a double lever arm. This also makes it beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

Due to the geometry of the arm it is approximately 25% less power-efficient than a regular arm application. The entire closer and arm assembly are mounted below the frame stop, requiring a top rail clearance on the door of between 6-5/8" (168mm), when using a low profile arm, to 7-1/4" (184mm), when using the hold open arm.



Non-hold open arm shown

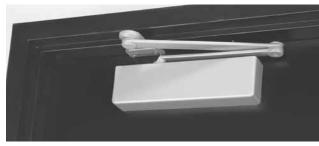
Corner Bracket

This application can be used where top jamb and parallel arm application will not accommodate the door and frame conditions. Requires minimal top rail on the door; however, vertical clearance to the floor within the door opening should be checked to ensure code compliance.

The close proximity, for this application, of the door closer to the door's pivot point reduces the door closer's power efficiency by approximately 25% when compared to a regular arm. The projection of the arm from the door face might pose questions regarding design parameters.



APPLICATIONS

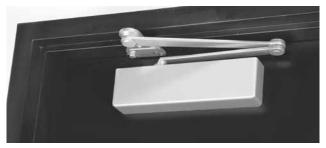


Non-hold open arm shown

Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open available - specify hand when ordering.



Non-hold open arm shown

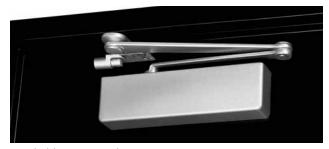
CloserPlus® Arm

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Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The *CloserPlus* arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Hold open strength is adjustable.



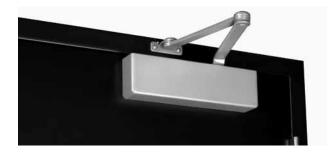
Non-hold open arm shown

CloserPlus Spring[™]

This arm has all of the characteristics of the *CloserPlus* arm with an additional steel buffer spring that provides greater protection at the end of the door opening cycle.

For extreme conditions, use of a *Unitrol* arm is recommended. Available with or without hold open.

APPLICATIONS



Regular Rigid Heavy-Duty Arm

This double lever arm features a non-adjustable secondary arm. Orbitally riveted joints prevent tampering or disassembly. Prefix "R" to model number. Available non-hold open only.



Non-hold open arm shown

Parallel Rigid Offset Arm

This heavy-duty parallel rigid arm provides additional vertical clearance. It is well suited for applications where weather-stripping or other hardware prevents the use of the standard Parallel Rigid (PR) soffit plate. The non-hold open and hold arms allow 1-1/4" clearance. When used in conjunction with a #6891 spacer block, the PRO arm provides 1-7/8" clearance to accommodate the use of a surface overhead stop/holder.



Unitrol[®] Parallel Arm

Unitrol[®] Arm

Unitrol® Top Jamb

Can be used for either parallel arm or top jamb applications. Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The Unitrol uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbf. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.



APPLICATIONS





Low Profile Push Side

Slide Track

Whether pull or push side mounted, slide track applications provide the designer with the smoothest lines available in a surface mounted door closer. The single lever arm allows components to be located in a stack configuration to minimize projection and eliminate obtrusive arm angles. The arm geometry reduces door closer power efficiency by approximately 25% from that of a regular arm.

A variation of the standard slide track application is available for pocket doors, where it is desirable to have the door closer completely concealed when the door is in the 90° open position. See page 26 for details.

Standard Unit:

- Adjustable 85° to 110° (hold open and non-hold open). Track is supplied with a spring buffered stop. An auxiliary stop, by others, is recommended.
- Specify if hold open unit is required.
- 1'80° swing (non-hold open, pull side only) is also available. This track assembly requires that a door stop, by others, be supplied to stop the door.



Regular Arm - Regular Arm allows closer to be installed where there is as little as 1" (25mm) of frame face or ceiling clearance.



Parallel Arm - Parallel Arm allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm application.

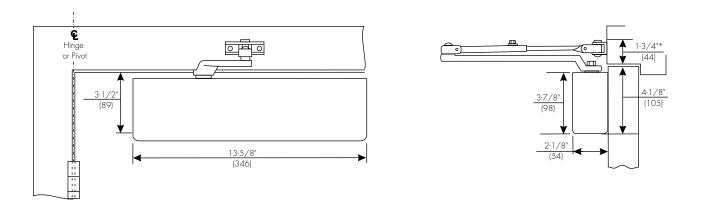
Low Profile Arm

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Supplied with 7580/7780 series door closers for non-hold open installations only. Low profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space.



REGULAR ARM

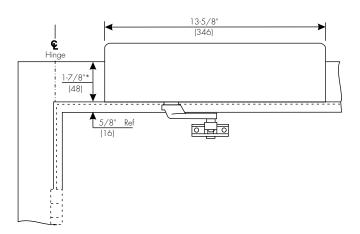


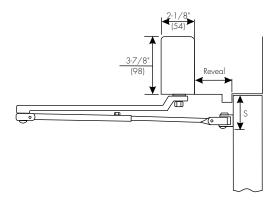
Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally. * This dimension will vary. Standard non-hold open arm illustrated.

Maximum Door Width		Model Number					
Inches	s (cm)	Sized	Closers	Multi-Sized Closers			
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open		
32" (81)	30" (76)	7702	7702H		7500H		
38" (97)	34" (86)	7703	7703H				
48" (122)	42" (107)	7704	7704H	7500			
54" (137)	48" (122)	7705	7705H				
Unusual Conditions		7706	7706H				



TOP JAMB ARM



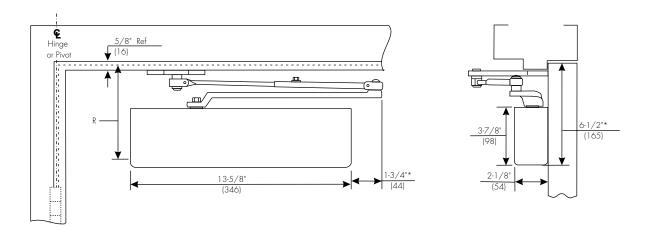


Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally. * Minimum frame face with 7786 drop plate. 3-1/4" (83mm) required when drop plate is not used.

		Reveal Range	Maximum		Model		Number		
Model N	Number	Inches	Door Opening		Door Width	Sized Closers		Multi-Sized Closers	
Multi-Sized	Sized	Non-Hold Oper	n Arm	Inche	s (cm)	Non-		Non-	
7500/7500M	7700/7730M	0" to 3" (0 to 76mm)	180°	Interior	Exterior	Hold Open	Hold Open	Hold Open	Hold Open
J7500	J7700	2-3/4" to 7" (70 to 178mm)	150°	32" (81)	30" (76)	J7702 JL7702	J7702H JL7702H		
JL7500	JL7700	2-3/4" to 7" (70 to 178mm)	180°	38" (97)	34" (86)	J7703 JL7703	J7703H Jl7703H		
J7580 x 7787	J7780 x 7787	0" to 2-3/4" (0 to 70mm)	180°	48" (122)	42" (107)	J7704 JL7704	J7704H JL7704H	7500 J7500	7500H J7500H
Multi-Sized	Sized	Hold Open A	vrm			5	0	JL7500	JL7500H
17500/J7530MH	J7700H/ J7730MH	0" to 3"	180°	54" (137)	48" (122)	J7705 JL7705	J7705H Jl7705H		
J7500H	J7700H	(0 to 76mm) 2-3/4" to 6-3/4" (70 to 171mm)	150°	Unusual (Conditions	J7706 JL7706	J7706H Jl7706H		
JL7500H	JL7700H	2-3/4" to 6-3/4" (70 to 171mm)	180°						

S Minimum Top Rail of Door						
Without Dr	op Plate or with 7786 Back	Plate (mm)	Ň	With 7787 Drop Plate (mm)		
J7700/ J7730M J7700 J7500/ J7530M J75300	J7700H/ J7730MH J7700H J7500H/ J7530MH J7530H	J7780 J7580	J7700/ J7730M J7700 J7500/ J7530M J75300	J7700H/ J7730MH J7700H J7500H/ J7530MH J75300H	J7780 J7580	
2" (51mm)	2-1/2" (64mm)	N/A	4-1/8" (105mm)	4-5/8" (117mm)	3-5/8" (92mm)	

PARALLEL ARM



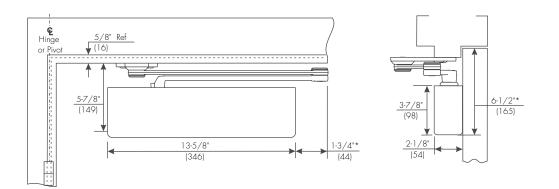
Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally. * This dimension will vary. Standard non-hold open arm illustrated.

		Model Number						
Maximum Door Width Inches (cm)		Sized C	Closers	Multi-Sized Closers				
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open			
30" (76)		P7702	P7702H		7500H			
36" (91)	30" (76)	P7703	P7703H	_				
42" (107)	36" (91)	P7704	P7704H	7500				
48" (122)	42" (107)	P7705	P7705H					
54" (137)	48" (122)	P7706	P7706H					

R (inches/mm) Minimum Top Rail of Door with 5/8" (16mm) Frame Stop							
W	/ithout Drop Pla	With 7788	Drop Plate				
P7700	P7700H	P7780	P7700H	P7780			
5-7/8" (149)	6-1/4" (159)	5-3/8" (137)	2-3/4" (70)	1 <i>-7/</i> 8" (48)			



PARALLEL RIGID ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

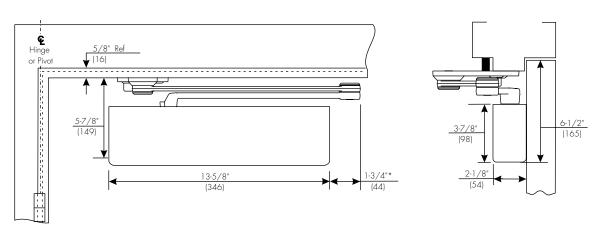
Maximum Door Width Inches (cm)		Model Number						
		Sized Closers		Multi-Sized Closers				
Interior	Exterior	Non-Hold Open	Non-Hold Open Hold Open*		Hold Open*			
30" (76)	—	PR7702	PR7702H		PR7500H			
36" (91)	32" (81)	PR7703	Pr7703H					
42" (107)	36" (91)	PR7704	PR7704H	PR7500				
48" (122)	42" (107)	PR7705	Pr7705H					
	48" (122)	PR7706	PR7706H					

*Specify hand when ordering.

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CLOSERPLUS® ARM

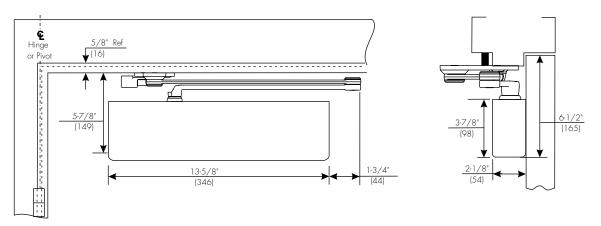


Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Maximum Door Width Inches (cm)		Model Number						
			N	Multi-Sized Closers				
Interior	Exterior	Non-Hold Open	Non-Hold Open Thumbturn Ramp Hold Open Hold Open		Non-Hold Open	Thumbturn Hold Open	Ramp Hold Open	
30" (76)	_	CLP7702	CLP7702T	CLP7702R		CLP7500T	CLP7500R	
36" (91)	32" (81)	CLP7703	CLP7703T	CLP7703R				
42" (107)	36" (91)	CLP7704	CLP7704T	CLP7704R	CLP7500			
48" (122)	42" (107)	CLP7705	CLP7705T	CLP7705R				
	48" (122)	CLP7706	CLP7706T	CLP7706R				



CLOSERPLUS SPRING™ ARM

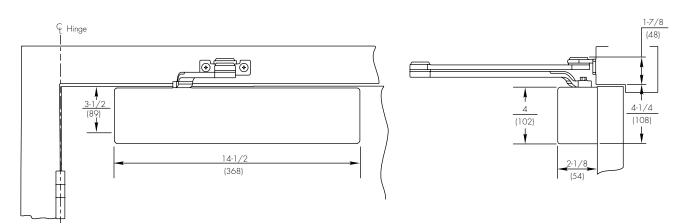


Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

	Door Width	Model Number					
Inche	s (cm)	Sized Closers		Multi-Sized Closers			
Interior	Exterior	Non-Hold Open	Thumbturn Hold Open	Non-Hold Open	Thumbturn Hold Open		
30" (76)	—	CPS7702	CPS7702T				
36" (91)	32" (81)	CPS7703	CPS7703T				
42" (107)	36" (91)	CPS7704	CPS7704T	CPS7500	CPS7500T		
48" (122)	42" (107)	CPS7705	CPS7705T				
_	48" (122)	CPS7706	CPS7706T				



REGULAR RIGID HEAVY-DUTY ARM

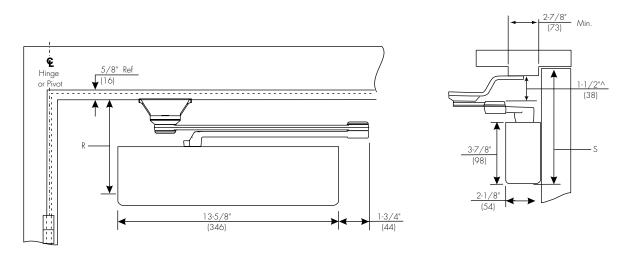


Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Maximum	Maximum Door Wid t h		el Number		
Inches (cm)		Non-Hold Open Only			
Interior	Interior Exterior		Multi-Sized Closers		
36" (91)	30" (76)	R7702			
42" (107)	36" (91)	R7703			
46" (122)	42" (107)	R7704	R7500		
54" (137)	48" (122)	R7705	-		
	52" (132)	R7706			



PARALLEL RIGID OFFSET ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally. ^ If clearance greater than 1-1/2" is needed, 6891 spacer block is required.

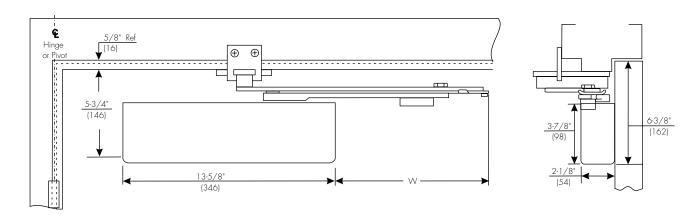
Minimum To	nes/mm) p Rail of Door mm) Frame Stop	S Minimum Top Rail of Door		
Without 6891 Spacer	Without 6891 Spacer With 6891 Spacer		With 6891 Spacer	
7-1/8" 7-5/8" (181) (194)		7-5/8" (194)	8-1/8" (206)	

Maximum I	Door Width	Model Number					
Inche	s (cm)	Sized (Closers	Multi-Sized Closers			
Interior	Exterior	Non-Hold Open Hold Open*		Non-Hold Open	Hold Open*		
30" (76)		PR07702	PRO7702H				
36" (91)	32" (81)	PR07703	Pro7703H				
42" (107)	36" (91)	PR07704	Pro7704H	PR07500	PRO7500H		
48" (122)	42" (107)	PR07705	Pro7705H				
	48" (122)	PR07706	PRO7706H				

*Specify hand when ordering.



PARALLEL UNITROL® ARM



Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally. Door width must be specified when ordering.

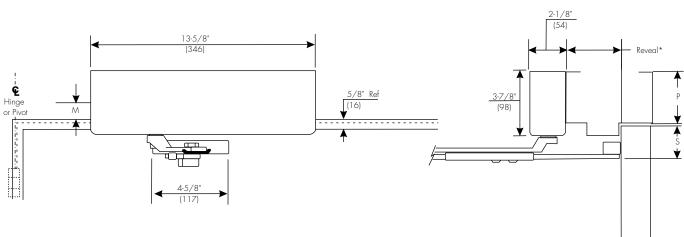
Use 6190 bracket for reveals 1-7/8" - 4-5/8" (48 to 117mm). Reveals in excess of 4-5/8" (117mm) require use of a 6191 reinforcing kit. Reveals to 1/8" (3mm) require use of a 2019L angle bracket.

Door Width	W
inches/cm	Arm Extension Beyond Closer
28-32"	8-5/8"
(71-81)	(219)
33-41"	10-1/8"
(84-104)	(257)
42-48"	1 1-1/2"
(107-122)	(292)

Maximum Door Width Inches (cm)						
		Sized Closers		Multi-Sized Closers		
Interior Exterior		Non-Hold Open	Hold Open	Non-Hold Open Hold Open		
30" (76)	_	UNI7702	UNI7702H			
36" (91)	30" (76)	UNI7703	UNI7703H			
42" (107)	36" (91)	UNI7704	UNI7704H	UNI7500	UNI7500H	x Specify Door Width
48" (122)	42" (107)	UNI7705	UNI7705H			
	48" (122)	UNI7706	UNI7706H			



TOP JAMB UNITROL® ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally. * Reveals up to a maximum of 7-3/8" (187mm). Reveal must be specified when ordering.

Backplates	M	P	S
	Minimum Frame Face	Minimum Ceiling Clearance	Minimum Top Rail Clearance
7786^	1-5/8"	3-1/8"	2-1/4"
	(41)	(79)	(57)
7787		/8" 8)	3-1/2" (89)

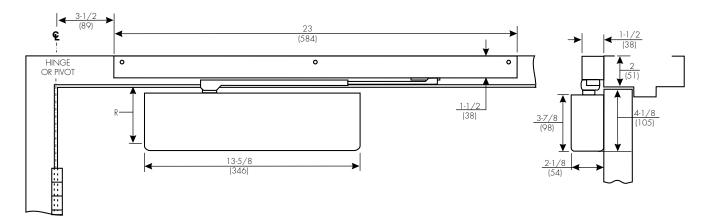
^ supplied standard with closer

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Maximum Door Width Inches (cm)						
		Sized Closers		Multi-Sized Closers		
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	
34" (86)	_	UNIJ7702	UNIJ7702H		UNIJ7500H	
42" (107)	34" (86)	UNIJ7703	UNIJ7703H			
48" (122)	42" (107)	UNIJ7704	UNIJ7704H	UNIJ7500		x Specify Fra Reveal
54" (137)	48" (122)	UNIJ7705	UNIJ7705H	_		
_	54" (137)	UNIJ7706	UNIJ7706H			



PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop				
Without Drop Plate	With 7786 Drop Plate			
3-1/2" (111)	2-5/8" (67)			

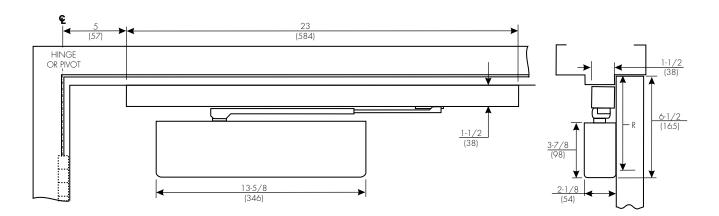
Maximum Door Width Inches (cm)		Model Number ^{1, 2}						
		Sized Closers			Multi-Sized Closers			
		Non-Hold Open		Hold Open	Non-Hold Open		Hold Open	
Interior	Exterior	85°-100°	85°-180°	85°-100°	85°-100°	85°-180°	85°-100°	
32" (81)	_	7704ST	7704ST-180	7704STH				
38" (97)	32" (81)	7705ST	7705ST-180	7705STH	7500ST	7500ST-180	7500STH	
48" (122)	38" (97)	7706ST	7706ST-180	7706STH				

1- Units can also be mounted with the closer body on the jamb. Prefix the model number with a "J". Where the frame face is less than 3-3/8" (86mm) a number 7786JP backplate will be required.

2- Units can also be installed on double egress doors using a handed arm that will accommodate the frame profile. Suffix the model number with "DE". For reveal ranges 1/4" to 3" (6 to 76mm).



PUSH SIDE SLIDE TRACK



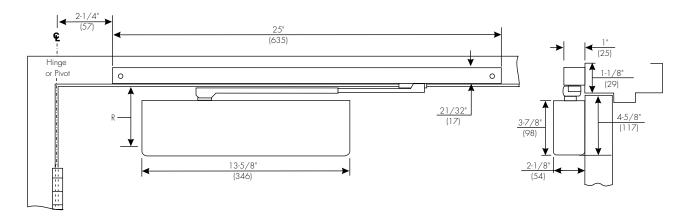
Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop		
Without Drop Plate With 7788 Drop Plat		
6" (152)	2-5/8" (67)	

Maximum	Door Width	Vidth			
Inche	es (cm)	Sized Closers		Multi-Size	ed Closers
Interior	Exterior	Non-Hold Open 85°-110°	Hold Open 85°-110°	Non-Hold Open 85°-100°	Hold Open 85°-100°
32" (81)	_	PS7704ST	PS7704STH		
38" (97)	32" (81)	PS7705ST	ps7705sth	PS7500ST	PS7500STH
48" (122)	38" (97)	PS7706ST	PS7706STH		



LOW PROFILE PULL SIDE SLIDE TRACK



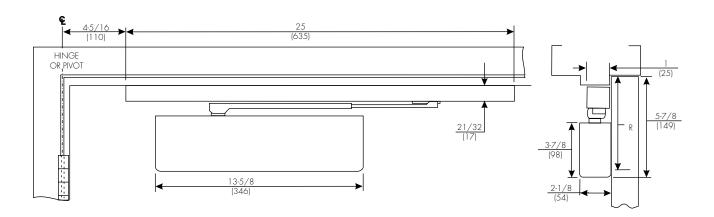
Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop		
Without Drop Plate	With 7786 Drop Plate	
3-1/2" (89)	2" (51)	

Maximum Door Width	Model Number			
Inches (cm)	Sized Closers		Multi-Sized Closers	
Interior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
32" (81)	7744ST	7744STH		
38" (97)	7745ST	7745STH	7540ST	7540STH
48" (122)	7746ST	7746STH		



LOW PROFILE PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

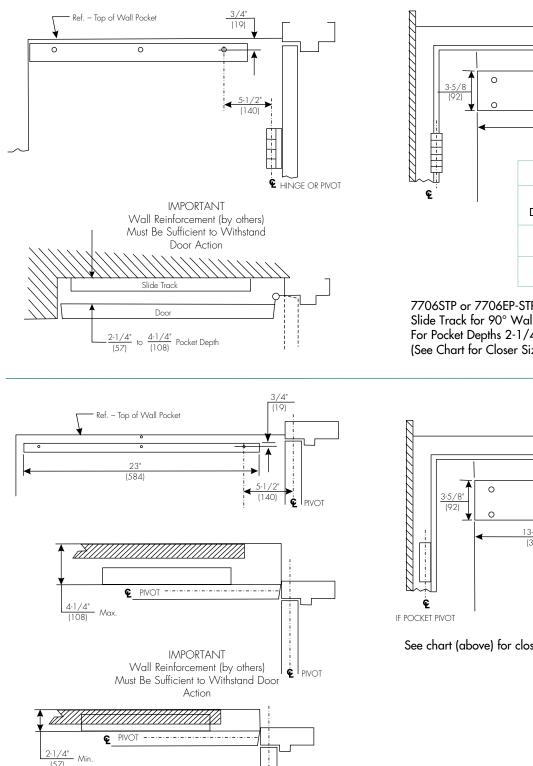
R (inches/mm) Minimum Top Rail of Door with Frame Stop		
Without Drop Plate	With 7788 Drop Plate	
5-1/4" (133)	3-5/8" (92)	

Maximum Door Width	Model Number			
Inches (cm) Sized Closers		Multi-Sized Closers		
Interior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
32" (81)	PS7744ST	PS7744STH		
38" (97)	PS7745ST	PS7745STH	PS7540ST	PS7540STH
48" (122)	PS7746ST	PS7746STH		

6-3/8

(162)

POCKET DOOR 7706STP

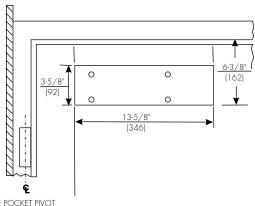


É PIVOT

0 ᡟ 13-5/8 (346) Closer Sizing Chart (cm) Maximum Closer Door Width 42" 7706STP (107)48" 7706EP-STP (122)

0

7706STP or 7706EP-STP Series Closers Slide Track for 90° Wall Pocket Installation For Pocket Depths 2-1/4" to 4-1/4" (57mm to 108mm) (See Chart for Closer Sizing)



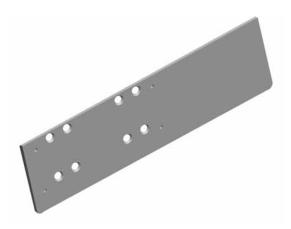
See chart (above) for closer sizing.

Note: Contact factory if door weight exceeds 250 lbs.

(57)



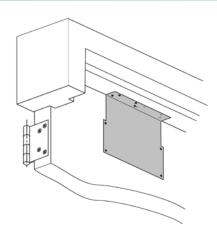
RETROFIT PLATE



The retrofit plates allow the 7500 door closers to replace the 4040 or 4010 closers without modifying the existing hole pattern in the door. The plates will work with regular and parallel arm applications.

Note: The location of the arm shoe on the frame will change, therefore the frame must be patched.

Model Number	Replaces
RP75-4040	LCN-4040
RP75-4010	LCN-4010
RP75-M2020	Rixson® M2020

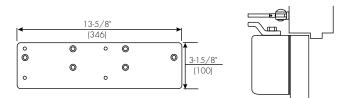


Metal templates help the installer locate the correct mounting holes for several parallel arm applications.

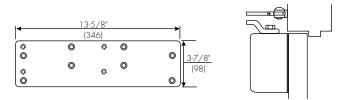
Model Number	Arm Applications
P77MT	Parallel Arm (NHO only) Parallel Rigid, CloserPlus®, CloserPlus Spring™

REGULAR ARM

Closer Mounting Plate

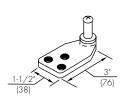


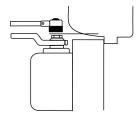
Narrow Top Rail - #7786 Drop Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.



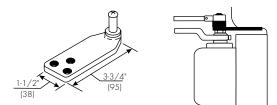
Overhead Door Holder - #7786OH Drop Plate: For use where a surface or concealed overhead door holder prevents normal arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 2-7/8" (73mm) from the top of the door.

Brackets for Non-Hold Open Arms



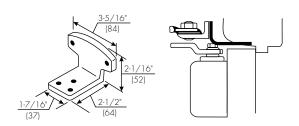


Molded/Bull Nose Trim - #2403B Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.



Molded/Bull Nose Trim - #2403-3/4 Bracket: This bracket is similar to - but longer than - the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

Brackets for Hold Open Arms



Molded/Bull Nose Trim - #80 Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard hold open shoe. It is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a rabbet up to 2" (51mm) deep. This bracket is used in combination with the standard hold open mounting shoe. Norton[®] ASSA ABLOY

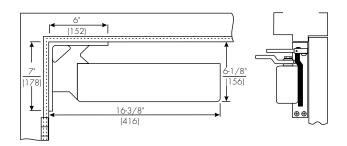


REGULAR ARM

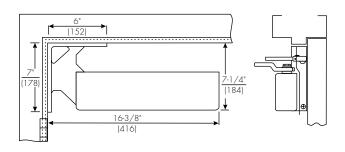
Corner Brackets for Closer Mounting

For closer sizing information use the Parallel Arm Sizing Chart on page 15. The use of a corner bracket requires a door closer of the opposite hand from that of the door when ordering handed closers.

Closer Mounting Plates



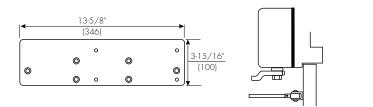
Mounting Opposite Hinge Side - #7798 Standard Drop Corner Bracket: For use where it is desired to mount a regular arm nonhold open closer.



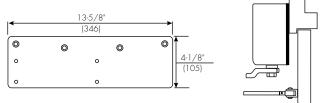
Extra-Drop Mounting Opposite Hinge Side - #7797 Corner Bracket: For use where it is desired to mount a regular arm hold open closer, or where it is necessary for a regular arm non-hold open closer to clear a separate overhead door holder. This bracket drops the closer 1-1/8" (29mm) lower than the #7798 Corner Bracket.

TOP JAMB

30



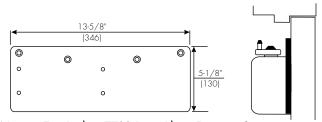
Narrow Frame - #7786 Back Plate: For use where a narrow frame face prevents the closer from being mounted directly to the frame. This back plate must be used for closer mounted on a frame between 1-7/8" and 3-1/8" (48 and 79mm) in height.



Low Ceiling Clearance - Overhead Door Holder - #7787 Drop Plate: For use where the ceiling clearance is between 1-7/8" and 3-7/8" (48 and 98mm) or where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows the arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-1/8" (79mm) from the top of the door.

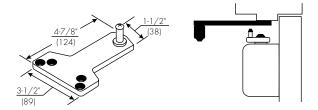
PARALLEL ARM

Closer Mounting Plate

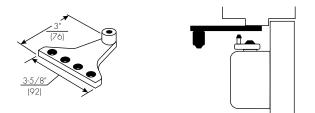


Narrow Top Rail - #7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

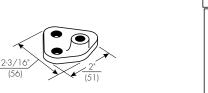
Brackets for Non Hold Open Arms

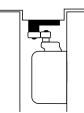


Standard Installation - #1618 Soffit Plate: Supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25mm). Specify **1618A-SS** for stainless steel soffit plate.

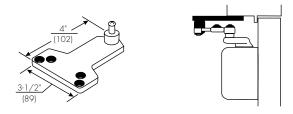


Narrow Frame/Removable Stop - #2018B Soffit Plate: For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This soffit plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weather-stripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.





Mounting between Doors - #2018 Soffit Bracket: For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 3" (76mm) of header space. Permits closer arm to clear up to 5/8" (16mm) high stop.

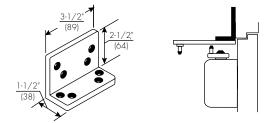


Blade/Applied Stop - #2018D Soffit Plate: For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standard soffit plate, it requires a minimum frame reveal of 1-1/2" (38mm). Permits closer to clear up to a 5/8" (16mm) stop.

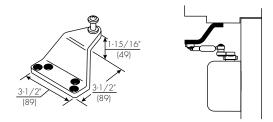


PARALLEL ARM

Brackets for Non Hold Open Arms (continued)

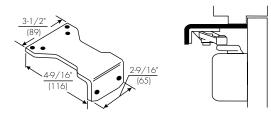


Flush Transom - #2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.

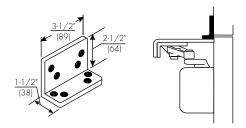


Extra-Clearance - #2018S Offset Soffit Plate: For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 2" (51mm) of clearance when a separate overhead door holder is used. Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weather-stripping prevent the use of other soffit plates.

Brackets for Hold Open Arms



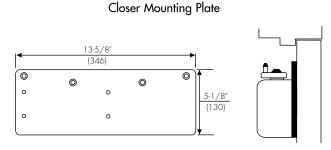
Parallel Hold-Open - #1628H Adapter Plate: Supplied standard with all parallel arm hold-open closers. It can also be used to convert regular arm or top jamb hold-open arms to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1" (25mm).



Flush Transom Hold-Open - #2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of the standard 1628H hold-open adapter plate. It is used in combination with the 1628H adapter plate.

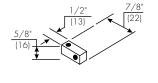
32

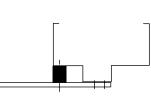
PARALLEL RIGID ARM



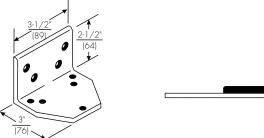
Narrow Top Rail - #7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

Brackets for Non-Hold Open Arms & Hold Open Arms

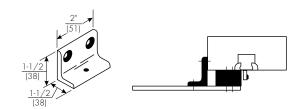




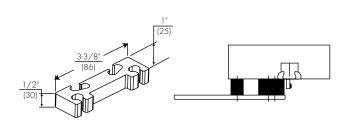
Standard - #2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all parallel rigid arm closers.



Flush Rabbeted Transom - #2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with



Narrow Frame - #6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the #6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.



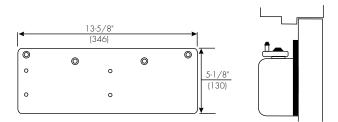
Clearance/Support Blade Stop - #6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

the standard soffit plate.



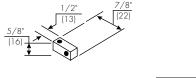
CLOSERPLUS® ARMS

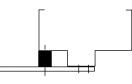
Closer Mounting Plate



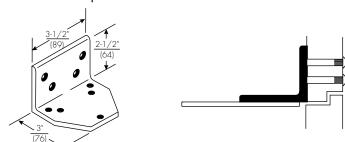
Narrow Top Rail - #7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

Brackets for Non-Hold Open Arms & Hold Open Arms

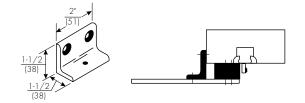




Standard - #2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all parallel rigid arm closers.

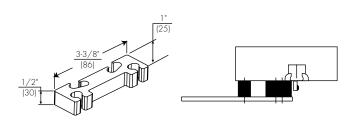


Flush Rabbeted Transom - #2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



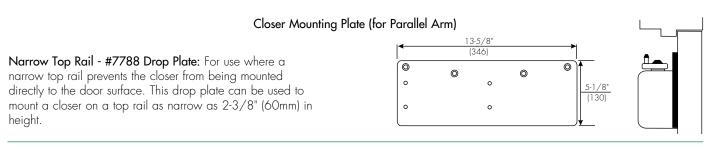
Narrow Frame - #6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the #6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11 mm) in height.

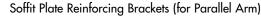
34

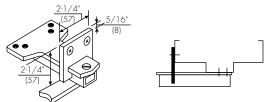


Clearance/Support Blade Stop - #6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

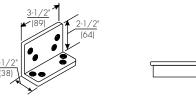
UNITROL® ARM







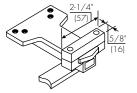
Additional Support - #6190 Reinforcing Bracket: Standard for use with all Parallel Arm *Unitrol* Door Controls. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).

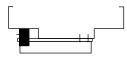


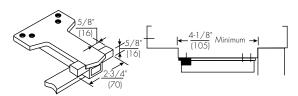
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Flush Rabbeted Transom - #2022 Angle Bracket: Optional for use with all Parallel Arm *Unitrol* Door Controls. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.

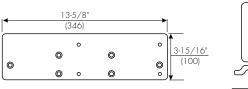




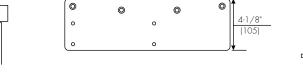


Wide Frame - #6191 Reinforcing Kit: Optional for use with all Parallel Arm *Unitrol* Door Controls. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.

Closer Mounting Plate (for Top Jamb)







13-5/8

(346)

Minimum Ceiling Clearance - #7787 Drop Plate: For use where the ceiling clearance is as little as 1-7/8" (48mm).

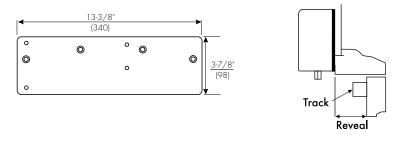
Standard Installation - #7786 Back Plate: Can be mounted where a frame face is as narrow as 1-5/8" (41mm) in height.

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7500/7700 SERIES INSTITUTIONAL DOOR CLOSER

SLIDE TRACK



Slide Track - #7786JP Back Plate: Required for frames with standard 2" (51mm) profile face. Without plate, minimum 4" (102mm) face frame required.



Description

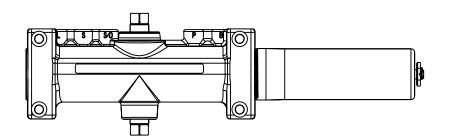
Multi-Size Closer Body

Corrosion Resistant

Closer Body

Sized Closer Body

DOOR CLOSER BODY ASSEMBLIES



Torx [®] Screw Pack		
Arm Type	Model Number	
Regular, Top Jamb & Parallel	TX47	
Parallel Rigid, CloserPlus® CloserPlus Spring™	PRTX47	
Regular Rigid Heavy-Duty	RTX47	
Unitro ^{l®} Arm	UNITX47	

Closer Series	Cover Material	Model No.	Dimensions (Inches/mm)
7500/7700	Plastic	7700P & 7700PG	13-3/4 (349) × 4" (102) × 2-1/8" (54)
	Metal	7700M	13-5/8" (346) × 3-7/8" (98) × 2-3/16" (56)

Model Number

7500LAP

7500SSLAP

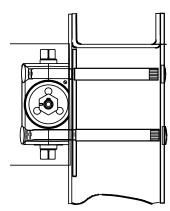
770*LAP

LAP = Less All Parts

* Specify Size When Ordering

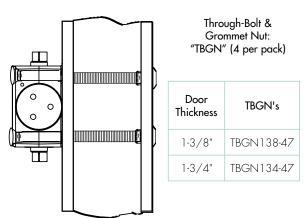
Steel Door Application

Sleeve Nut: "SN" (4 per pack) or Sleeve Nut & Screw: "SNB" (4 per pack)



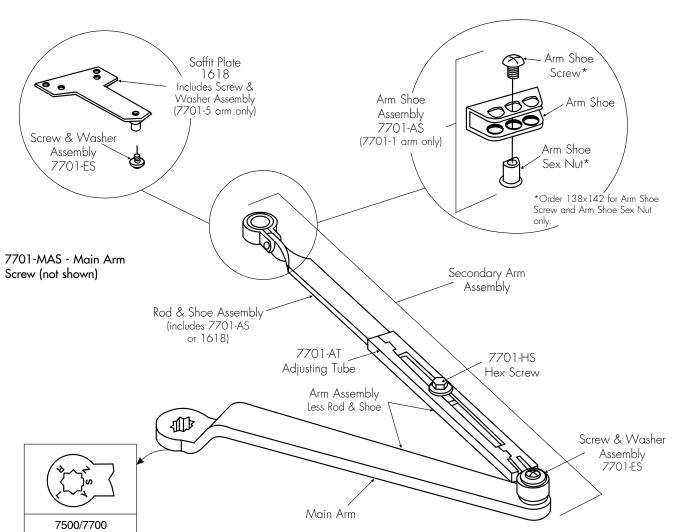
Door Thickness	SN's	SNB's	
1-3/4"	SN-134	SNB134-47	
2"	NA	SNB200-47	
2-1/4"	SN-214	SNB214-47	
S.S. SNB'S 1-3/4" (Stainless Steel)	SN-134SS	SNB134SS-47	

Aluminum and Wood Door Application (Aluminum Door Shown)





NON-HOLD OPEN ARM ASSEMBLIES

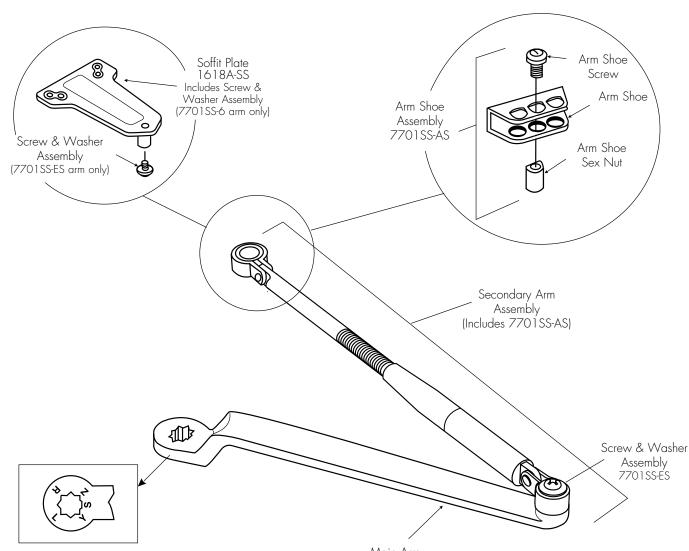


Note: Mounting hardware included with all parts orders.

Closer Series	Complete Arm Assembly	Main Arm Assembly' (length)(mm) (includes 7701-ES)	Secondary Arm Assembly (includes 7701-ES)	Arm Assembly Less Rod and Shoe	Rod & Shoe Assembly ² (length) (mm)
7500/7700	7701-1	7701-1M	7701-111	7701-1W	7701-11 (8-7/8)(225)
J7500/J7700	7701-1A	(11)(279)	7701-121	7701-100	7701-11A (12-9/16)(319)
JL7500/JL7700	7701-1B	7701-2M (13-1/2)(343)	7701-131	7701-2W	7701-11B (15-3/16)(386)
P7500/P7700	7701-5	7701-1M	7701-115	7701 114/	7701-15 (8-7/8)(225)
P7500/P7700 ³	7701-5A	(11)(279)	7701-115A	7701-1W	7701-15A (12-9/16)(319)
7500	7701-25 (tri-packed includes 7701-1 plus 1618 plate)	 C to C length shown in parentheses. C of connecting link to end of rod shown in parentheses. For 180° door swing when using a special template for doors hung on 6" to 8" (152 to 203mm) wide throw hinges. 			



STAINLESS STEEL ARM ASSEMBLIES



Main Arm

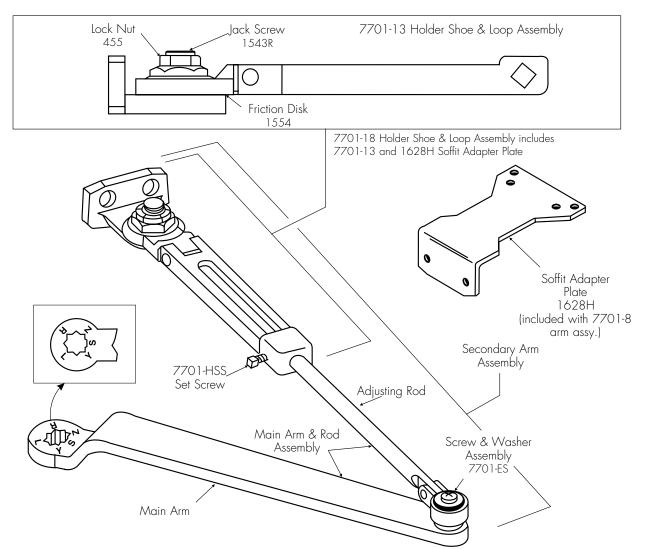
Closer Series	Complete Arm Assembly	Main Arm Assembly (length)(mm) (includes 7701SS-ES)	Secondary Arm Assembly (includes 7701SS-ES)
7500SS	7701SS-1		7701SS-111
J7500SS	7701SS-1A	7701SS-1M (11)(279)	7701SS-121
P7500SS	7701SS-6		7701SS-116

Note: Mounting hardware included with all parts orders.

1. C to C length shown in parentheses



HOLD OPEN ARM ASSEMBLIES



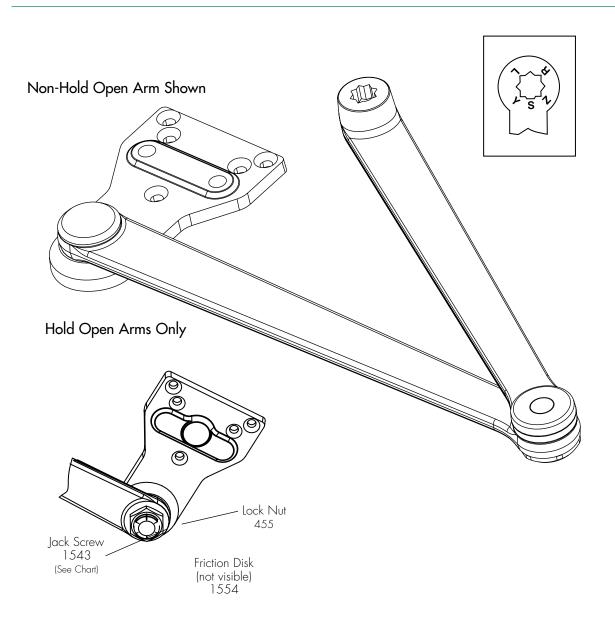
Note: Mounting hardware included with all parts orders.

Closer Series Assembly	Complete Arm Assembly	Main Arm ¹ (Length)(mm) (includes 7701-ES)	Secondary Arm (includes 7701-ES)	Main Arm & Rod Assembly	Holder Shoe & Loop Assembly	Adjusting Rod ² (Length)(mm)
7500H/7700H	7701-3/7701-8 ³	7701-1M (11)(279)	7701-113/7700-118 (Reg.) / (Par.)	7701-3W		7701-31 (7-3/8)(187)
J7500H/J7700H	7701-3A		7701-123	7701-3WA	7701-13	7701-31A (10-13/16)(275)
JL7500H/JL7700H	7701-3B	7701-2M (13 -1/2)(343)	7701-133	7701-3WB		7701-31B (12-7/8)(327)

1. C to C length shown in parentheses.

- C of connecting link to end of rod shown in parentheses.
 Same as 7701-3 but includes #1628H soffit adapter plate.

PARALLEL RIGID ARM ASSEMBLIES



Arm Function	Complete Arm Assembly	Jack Screw
Non-Hold Open	PR7701-5	N/A
	PR7701-8R (Right Hand)	1543R
Hold Open	PR7701-8L (Left Hand)	1543L

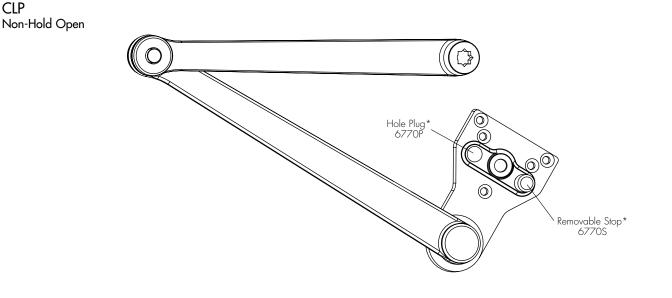
Note: Mounting hardware included with all parts orders.



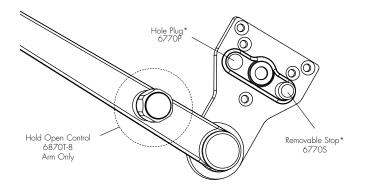
CLP

7500/7700 SERIES INSTITUTIONAL DOOR CLOSER

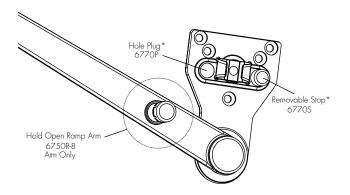
CLOSERPLUS® ARM ASSEMBLIES



CLP-T Thumbturn Hold Open



CLP-R Ramp Hold Open



Note: Mounting hardware included with all parts orders.

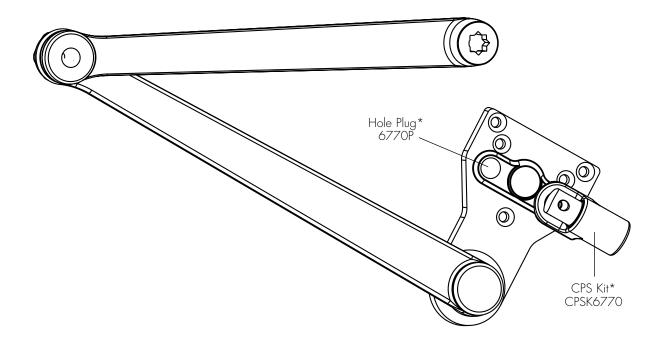
Arm Function	Complete Arm Package	
Non-Hold Open	6770-5	
Thumbturn Hold Open	6870T-8	
Ramp Hold Open	6750R-8	

* These parts and screw pack are included with complete arm assemblies.

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CLOSERPLUS SPRING™ ARM ASSEMBLIES

Non-Hold Open Arm Shown



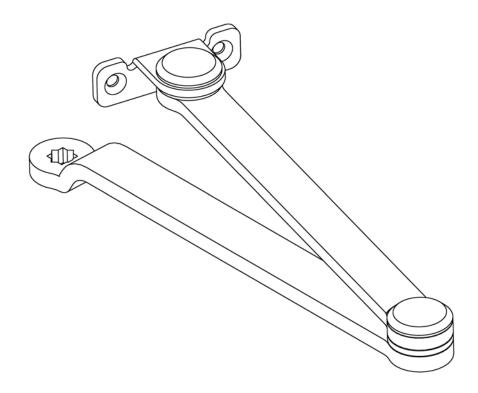
Note: Mounting hardware included with all parts orders.

Arm Function	Complete Arm Package	
Non-Hold Open	CPS6770-5	
Thumbturn Hold Open	CPS6870T-8	

*These parts and screw pack are included with complete arm assemblies.



REGULAR RIGID HEAVY-DUTY ARM



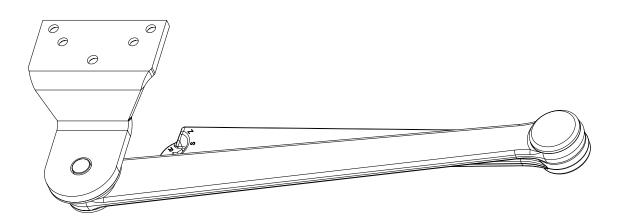
Note: Mounting hardware included with all parts orders.

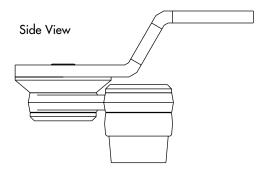
Closer Series	Arm Function	Complete Arm Package
R7700 / R7500		R7701-1 Furnished with standard fasteners
7770 / 7570*	Non-Hold Open	7771-1 Furnished with Torx fasteners

* Refer to Norton's Security Closer Catalog.

PARALLEL RIGID OFFSET ARM ASSEMBLIES

Non-Hold Open





Arm Function	Complete Arm Assembly	
PRO7701-5	Non-Hold Open	
PR07701-8R	Hold Open, Right Hand	
PRO7701-8L	Hold Open, Left Hand	

Note: Mounting hardware included with all parts orders.

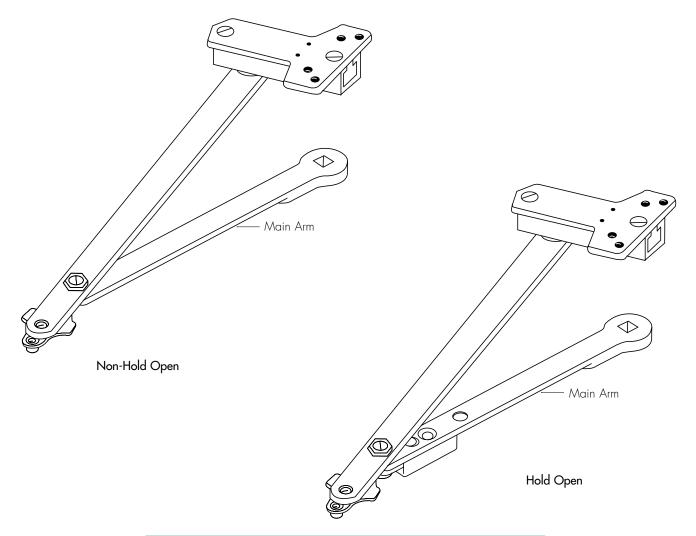
Norton[®]

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UNITROL® ARM ASSEMBLIES

Parallel Arm



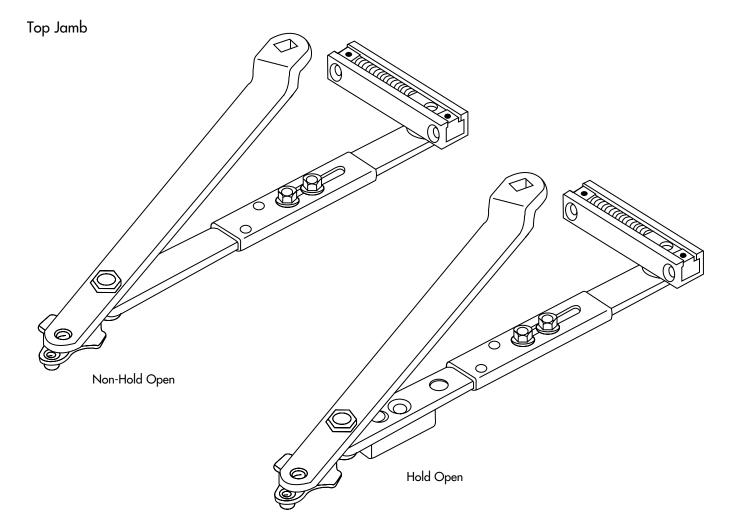
Complete Arm Assembly				
Door Width (cm)	Main Arm Length* (mm)	Non-Hold Open	Hold Open	
28" - 32" (71- 81)	9-1/2" (241)	6100-11	6100-1	
33"- 41" (84 - 104)	11" (279)	6100-13	6100-3	
42" - 48" (107 - 122)	12-1/2" (318)	6100-14	6100-4	

Note: Mounting hardware included with all parts orders.

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* Center to center length.





Complete Arm Assembly			
Non-Hold Open	Hold Open	For Frame Reveals (mm)	
J6100-4	J6100-7	2-1/8" - 3-1/4" (54 - 83)	
J6200-4	J6200-7	1/2" - 2" (13 - 51)	
J6400-4	J6400-7	3-3/8" - 4-1/4" (86 - 108)	
J6500-41	J6500-71	4-3/8" - 5-3/8" (111 - 137)	
J6500-42	J6500-72	5-1/2" - 6-3/8" (140 - 162)	
J6500-43	J6500-73	6-1/2" - 7-3/8" (165 - 187)	
J6600-4	J6600-7	0" - 3/8" (0 - 10)	

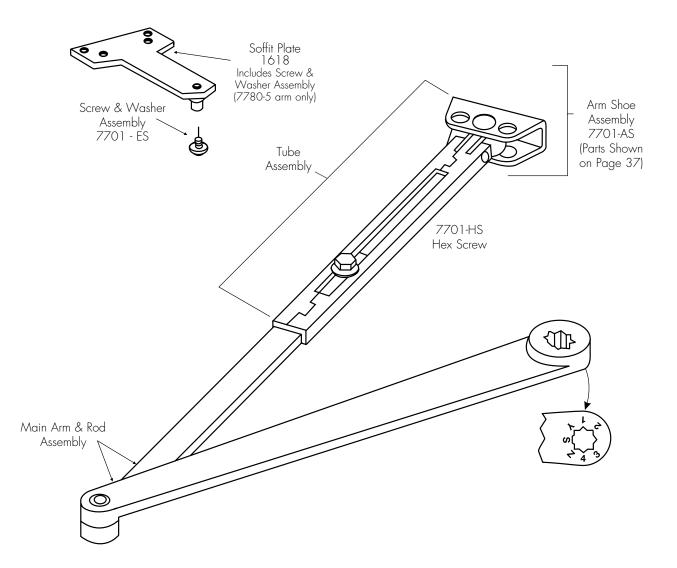
Note: Mounting hardware included with all parts orders.

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LOW PROFILE ARM ASSEMBLIES

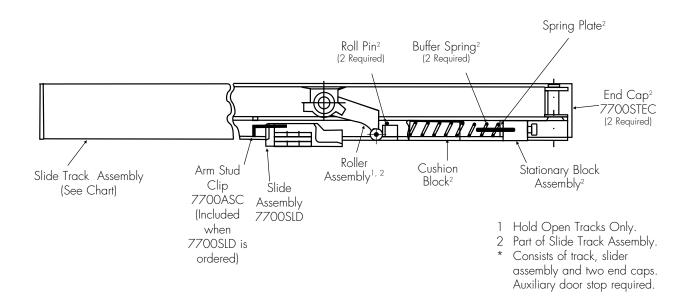


Arm Application	Complete Arm Assembly	Main Arm & Adjusting Rod Assembly	Tube & Shoe/Soffit Assembly
Regular Arm	7780-1		7780-1TS (With 7701-AS)
Parallel Arm	7780-5	7780-1MR	7700 ETC (M//H 1410)
Tri-pack	7780-25		7780-5TS (With 1618)

Note: Mounting hardware included with all parts orders.

TRACK ASSEMBLIES 7700/7500 & STP

Track Assemblies	Part Number	
Irack Assemblies	Non-Hold Open	Hold Open
Pull-side mounted	7701ST-1T	7701ST-3T
Push-side mounted	7701ST-5T	7701ST-8T
Pull-side mounted (180°)	7701ST-1T180°*	N/A



Note: Mounting hardware included with all parts orders



TRACK ASSEMBLIES 7700/7500 & STP

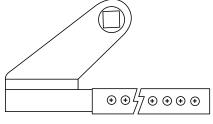


7701ST-1A1,2

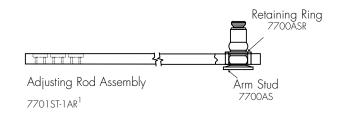


DOUBLE EGRESS ARM ASSEMBLY

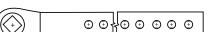
7701PT-DE-1R (Right Hand)^{1, 2} 7701PT-DE-1L (Left Hand)^{1, 2}



Arm Tube Assembly 7701ST-1ATR¹ (right hand) 7701ST-1ATL¹ (left hand)



STP ARM ASSEMBLY (POCKET DOORS ONLY)

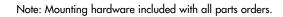


Arm Tube Assembly 7701STP-1AT



Retaining Ring 7700ASR 7701STP-1A1,2 ₹₹ Adjusting Rod Assembly Àrm Stud 7701ST-1AR 7700AS

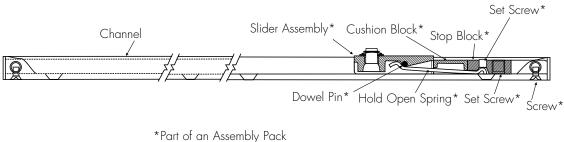
1 Includes arm length adjusting screw #7700ALAS 2 Includes arm tube & adjusting rod assembly



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TRACK ASSEMBLIES 7740/7540ST

Track Assemblies	Part Number	
	Non-Hold Open	Hold Open
Pull-side mounted	7740ST-1T	7740ST-3T
Push-side mounted	7740ST-5T	7740ST-8T



*Part of an Assembly Pack NHO= 7740SLD HO= 7740HSLD

ARM ASSEMBLY

7740ST-1A^{1, 2}

Arm Tube Assembly 7701ST-1AT ² Adjusting Rod Assembly

7740ST-1AR²

1 Includes arm length adjusting screw.

2 Includes arm tube & adjusting rod assembly.

Note: Mounting hardware included with all parts orders.

CONTACT US AT:

Norton Door Controls 3000 Highway 74 East Monroe, NC 28112 Tel: 877-974-2255 Fax: 800-338-0965

ABLOY Door Security Solutions Canada 160 Four Valley Drive Vaughan, Ontario, L4K 4T9 Canada Tel: 800-461-3007 Fax: 905-738-2478

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43095-11/13RE