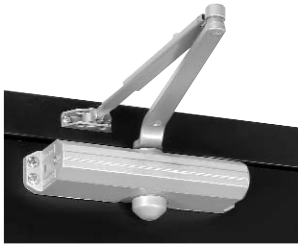
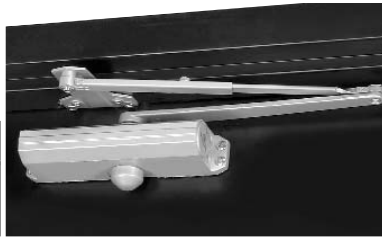


**SERIES 1600 CLOSERS**

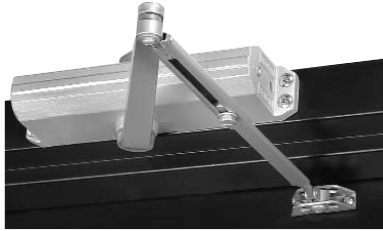
**Utility/Storefront Door Closers**



Regular Arm



Parallel Arm



Top Jamb

*Standard Features:*

- ANSI A156.4, Grade 1
- 10-year warranty
- Non-handed
- Standard, separate and independent, latch, sweep and backcheck cushioning valves
- 27/8" projection
- Tri-Style® standard (regular arm, top jamb and parallel arm mounting)
- All standard arm applications allow doors to swing 180° conditions permitting
- Available with CLP, UNI, PR arm options
- UL listed and compliant with UL10C for positive pressure
- Staked valves

Optional Features	1600BC	1601	1601BF
Sized springs 2,3,4,5,6, with no power adjustment	●		
Adjustable spring sizes 3 through 6		●	
Adjustable spring sizes 1 through 4			●
ADA compliant			●
Delayed action Option (DA) (in lieu of backcheck)		●	●
Back Check	●		

Finish Description	Specify New Norton (BHMA) Designation	Old Norton Designation
Aluminum	689	AL
Statuary Bronze	690	STAT
Dull Bronze	691	DB
Black F/O	693	315
Medium Amber F/O	694	312
Gold F/O	696	GB

**Part No.**

- NOR 1601 689
- NOR 1601 691
- NOR 1601 690
- NOR 1601BF 689
- NOR 1601BF 691
- NOR 1601BF DA 689
- NOR 1601H 689
- NOR 1601H 690
- NOR 1601BFH 689
- NOR 1602BC 689
- NOR 1602BCH 689
- NOR 1602BCH 691

**Part No.**

- NOR 1603BC 689
- NOR 1603BC 690
- NOR 1603BC 691
- NOR 1603BCH 689
- NOR 1604BC 689
- NOR 1604BC 690
- NOR 1604BC 691
- NOR 1604BCH 689
- NOR 1604BCH 691

**Part No.**

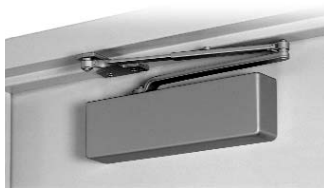
- NOR 1605BC 689
- NOR 1605BCH 691
- NOR 1606BC 689
- NOR 1606BC 691
- NOR 1606BC 690
- NOR 1606BCH 689
- NOR 1606BCH 691

## SERIES 7700/7500 CLOSERS

### Institutional Door Closers



Regular Arm



Parallel Arm



Top Jamb

*Standard Features:*

- ANSI A156.4, Grade 1
- 10-year warranty
- Non-handed
- UL listed and compliant with UL10C for positive pressure
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- 27/8" projection (standard covers)
- All standard arm applications (with slim, full or metal covers) allow doors to swing 180°, conditions permitting
- Available with CLP, UNI, PR, STP arm and track options
- Staked valves

Optional Features	7700	7500
Sized springs 2,3,4,5,6, with 50% additional adjustment	●	
Adjustable spring sizes 1 through 6		●
Tri-Style® (regular arm, top jamb and parallel arm mounting)	●	
ADA compliant		●
Delayed action Option (DA)		●

Finish Description	Specify New Norton (BHMA) Designation	Old Norton Designation
Aluminum	689	AL
Statuary Bronze	690	STAT
Dull Bronze	691	DB
Black F/O	693	315
Medium Amber F/O	694	312
Gold F/O	696	GB

**Part No.**  
 NOR 7500 689  
 NOR 7500 690  
 NOR 7500 691  
 NOR 7500DA 689  
 NOR 7500H 689

**Part No.**  
 NOR 7703 689  
 NOR 7703 691  
 NOR 7704 689  
 NOR 7704 691  
 NOR 7705 689  
 NOR 7706 689

## SERIES 78 B/F CLOSERS

### Specialty Door Closer



Regular Arm (RA)



Parallel Arm (PA)

*Standard Features:*

- ANSI A156.4, Grade 3
- Choice of adjustable spring power  
 B/D - Spring size 2, 3, or 4 (can be adjusted to comply with ADA)  
 E/F - Spring size 5 and 6
- Adjustable sweep/latch speed
- Adjustable backcheck cushioning
- Handed (Closer spring can be reversed in the field. Delayed action units are not field reversible)
- UL listed and compliant with UL10C for positive pressure
- 10-year limited warranty

Finish Description	Specify New Norton (BHMA) Designation	Old Norton Designation
Aluminum	689	AL
Statuary Bronze	690	STAT
Dull Bronze	691	DB
Black F/O	693	315
Medium Amber F/O	694	312
Gold F/O	696	GB

**Part No.**  
 NOR 78B/D PA 689 LH  
 NOR 78B/D PA 689 RH  
 NOR 78B/D PA 691 LH  
 NOR 78B/D PA 691 RH  
 NOR 78B/D RA 689 LH  
 NOR 78B/D RA 689 RH  
 NOR 78B/D RA 691 LH  
 NOR 78B/D RA 691 RH

**Part No.**  
 NOR 78E/F PA 689 LH  
 NOR 78E/F PA 689 RH  
 NOR 78E/F RA 689 LH  
 NOR 78E/F RA 689 RH

**SERIES 8000 CLOSERS**

**Architectural Door Closers**



Regular Arm



Parallel Arm

*Standard Features:*

- ANSI A156.4, Grade 1
- 10-year warranty
- Non-handed
- UL listed and compliant with UL10C for positive pressure
- Staked valves
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- 2 1/8" projection (standard covers)
- All standard arm applications (with slim, full or metal covers) allow doors to swing 180°, conditions permitting
- 8301 shipped with molded slim line plastic cover
- 8501 shipped with molded full plastic cover

Optional Features	8301	8501
Adjustable spring sizes 1 through 6	●	●
Metal and Architectural covers optional		●
Tri-Style® (regular arm, top jamb and parallel arm mounting)	●	●
ADA compliant	●	●

Finish Description	Specify New Norton (BHMA) Designation	Old Norton Designation
Aluminum	689	AL
Statuary Bronze	690	STAT
Dull Bronze	691	DB
Black F/O	693	315
Medium Amber F/O	694	312
Gold F/O	696	GB

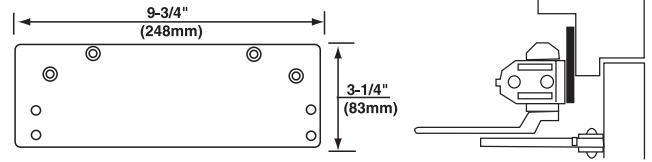
**Part No.**  
 NOR 8301 689  
 NOR 8301 690  
 NOR 8501 689  
 NOR 8501 690

**Part No.**  
 NOR 8501DA 689  
 NOR 8501H 689  
 NOR 8501H 690

**ACCESSORIES**

**Drop Plates**

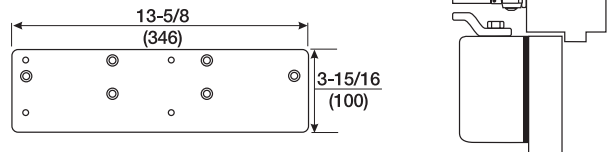
*1600 Series Drop Plate*



For use where an overhead door holder prevents normal top jamb mounting. This places the center line of the arm mounting screws at 3 1/2" from the top of the door.

**Part No.**  
 NOR 1688 689  
 NOR 1688 691

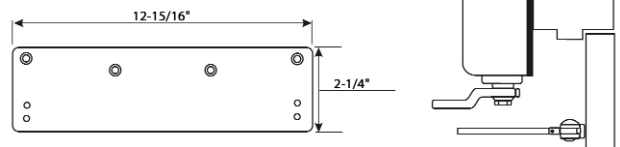
*7500/7700 Closer Mounting Plate*



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" in height.

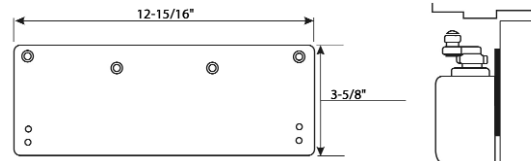
**Part No.**  
 NOR 7788 689

*8000 Series Drop Plates*



For use where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 2 7/8" from the top of the door.

**Part No.**                      **Description**  
 NOR 8146 689 -----Regular Arm  
 NOR 8146 690 -----Regular Arm

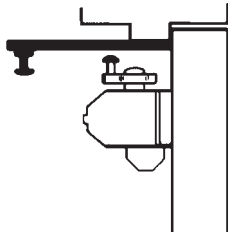
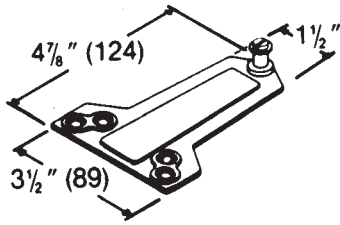


Narrow Top Rail. For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2 9/16" in height.

**Part No.**                      **Description**  
 NOR 8148 689 -----Parallel Arm

## ACCESSORIES FOR 1600, 7500/7700, 8000 SERIES

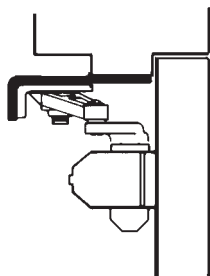
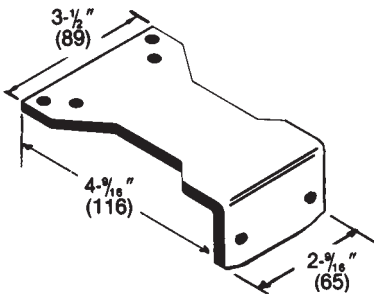
### Soffit Plate



Supplied standard with most non-hold-open closers to permit parallel arm mounting. It can be mounted where the frame soffit is as narrow as 1".

**Part No.**  
 NOR 1618 A 689  
 NOR 1618 A 691

### Adapter Plate

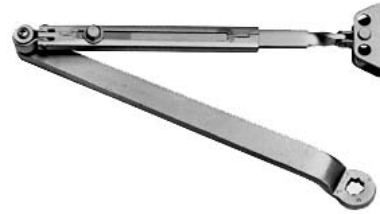


Supplied standard with most hold-open closers. It can be mounted where the frame soffit is as narrow as 1".

**Part No.**  
 NOR 1628 H 689  
 NOR 1628 H 691

### Standard Arms 1600, 7500/7700, 8000 Series

*Non-Hold-Open Arm/Non-Handed*



**Part No.**            **Description\***  
 NOR 7701-1 -----Regular Arm  
 NOR 7701-5 -----Parallel Arm

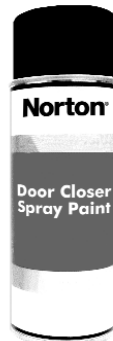
*Hold-Open Arm/Non-Handed*



**Part No.**            **Description\***  
 NOR 7701-3 -----Regular Arm  
 NOR 7701-8 -----Parallel Arm

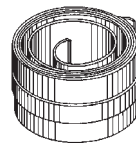
\*Specify Finish

### Door Closer Spray Paint



**Part No.**            **Color**  
 NOR 1A -----Aluminum (689)  
 NOR 2B -----Dull Bronze (691)  
 NOR 5S -----Stat Bronze (690)  
 NOR 6G -----Gold (696)

### Door Closer Spring



For Norton Traditional Style vertical spring door closers manufactured before 1978.

**Part No.**            **Size**  
 NOR 230B/C -----B/C  
 NOR 230D -----D  
 NOR 230 E/F -----E/F

### Sex Nuts



Nut only, screws sold separately. 3/8" drill size, 1/4"-20 thread.

**Part No.**            **Door Thickness**  
 NOR SN138 689 -----1 3/8"  
 NOR SN138 691 -----1 3/8"  
 NOR SN134 689 -----1 3/4"  
 NOR SN134 690 -----1 3/4"  
 NOR SN134 691 -----1 3/4"

## GLOSSARY OF TERMS

**General Terms**

**Adjustable Backcheck Cushioning:** A term used to indicate that the strength of “backcheck cushioning” in the door’s opening cycle can be regulated by means of a valve in the closer body.

**Adjustable Backcheck Position:** A term used to indicate that the location where “backcheck cushioning” occurs in the door’s opening cycle can be adjusted by means of a valve in the closer body. This valve provides a range of 20° of door opening where the backcheck can be set.

**Adjustable Latch Speed:** A term used to indicate that a door’s speed can be regulated in the “latch” range of the closing cycle (approximately the last 5° from closing) by means of a valve in the closer body.

**Adjustable Sweep Speed:** A term used to indicate that a door’s speed can be regulated in the “sweep” range of the closing cycle (fully open to 5° from closed) by means of a valve in the closer body.

**Adjustable Delayed Action Closing:** This special door control feature adds a third speed range to the closing cycle. It becomes effective when the door is opened and released at any point beyond 70°. This delayed closing enables traffic to clear the opening before the normal closing cycle starts.

**Individually Sized Closers:** these closers are sized 2, 3, 4, 5 or 6 with each size having a different spring assembly. Each spring assembly provides a minimum closing force that determines its size.

**Multi-Size Power Adjustment Closers:** These closers have a spring assembly that can be adjusted through a wide power range. Closers with this feature are not individually sized but must be field adjusted through a range of sizes to meet the power needs of the door.

**50% Power Adjustment:** The closer has an external adjustment that allows preloading of the spring. Depending on the needs of the specific installation, closer power can be increased 50% over the minimum closing force for any size closer.

**Adjusts-Power Shoe:** this standard non-hold open regular arm or top jamb shoe has three mounting holes. By relocating the closer arm, the closer’s power can – in effect – be adjusted 15% (7<sup>1</sup>/<sub>2</sub>% increase or decrease). It provides a simple method of adjusting closer power to meet the need of the specific installation.

**Low Profile Arm:** A term used to describe an arm which has a minimum space requirement in the vertical distance between the closer pinion and the arm bracket. It requires less mounting space than closers with standard arms.

**Non-Critical Valves:** These are control valves used to regulate the flow of fluid – in contrast to valves that are either fully open or fully closed. Norton Door Closer control valves have been designed to provide fine tuned hydraulic control.

**Parallel Rigid Arm:** This is a heavy-duty, non-telescoping forearm used in conjunction with a heavy-duty soffit plate.

**Reveal:** This distance measured from the surface of the frame face to the surface of the door.

**Tri-Style® Packaging:** The closer is packed with all necessary hardware for mounting in any of the three traditional mounting styles: Regular Arm, Parallel Arm or Top Jamb. Non-Hold Open closers have an Adjusts-Power shoes for regular arm and top jamb mounting and a soffit plate for parallel arm mounting. Hold Open closers have the Hold Open arm for regular arm and top jamb mounting and a soffit adapter plate for parallel arm mounting.