

Yale®

Installation Instructions

80-9303-2206-010 Rev 2 (09-17)

3000 Series Tri-Style Non Handed Door Closer



CAUTION An Incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

Non Hold Open Models

Sized
(Sizes 2,3,4,5,6)

3100
3300
3500

Adjustable
(Sizes 1 thru 6)

3301
3501

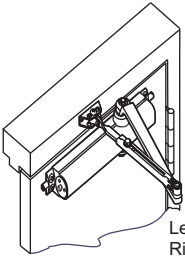


"DL" suffix (Delayed Action) is an optional feature.

NOTE: For special applications a separate door and frame preparation template is packed with these instructions. Use this instruction sheet for installation sequence and closer adjustments only.

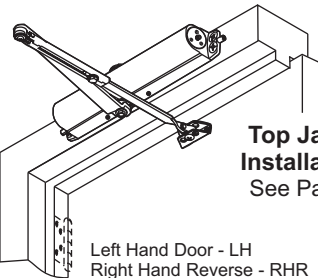
- Doors should be hung on ball bearing or anti-friction hinges.
- A separate door stop is recommended.
- Door and frame must be properly reinforced.
- Always adjust spring power before adjusting control.
- Adjust closing time speed between 3 and 7 seconds from 90° to 0°. Greater closing times may be required for elderly or handicapped.
- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.

Regular Arm Installation See Page 2



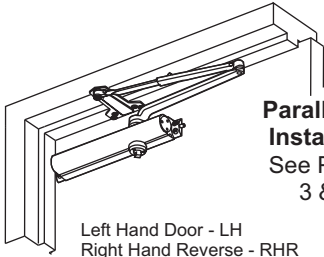
Left Hand Door - LH
Right Hand Reverse - RHR

Top Jamb Installation See Page 5



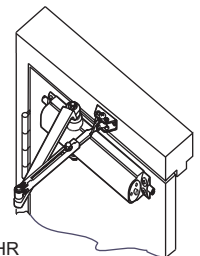
Left Hand Door - LH
Right Hand Reverse - RHR

Parallel Arm Installation See Pages 3 & 4



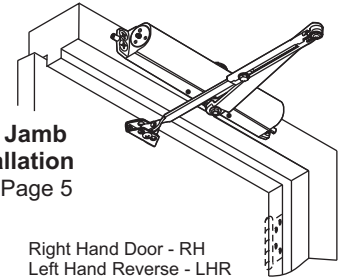
Left Hand Door - LH
Right Hand Reverse - RHR

Regular Arm Installation See Page 2



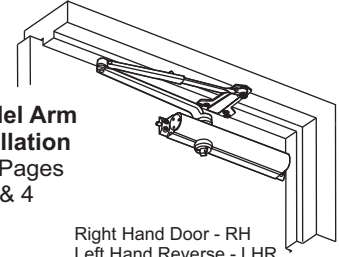
Right Hand Door - RH
Left Hand Reverse - LHR

Top Jamb Installation See Page 5

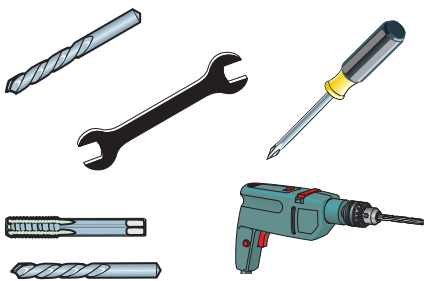


Right Hand Door - RH
Left Hand Reverse - LHR

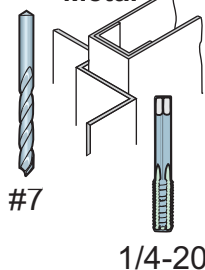
Parallel Arm Installation See Pages 3 & 4



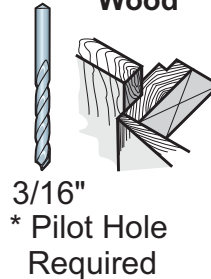
Right Hand Door - RH
Left Hand Reverse - LHR



Metal



Wood



Self Drilling Screws Wood and Metal



For Wood drill 3/16 hole

Machine Screws



#7 Drill, 1/4-20 Tap

(Optional)

Sleeve Nut and Bolt

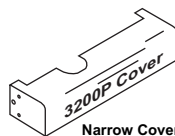
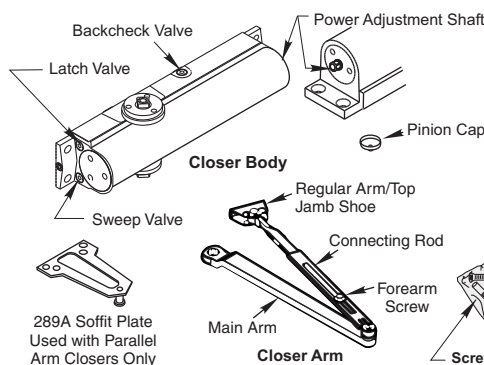


Drill 9/32 thru from Closer Side
3/8 Drill other side

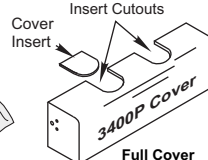
Thru Bolt and Grommet Nut



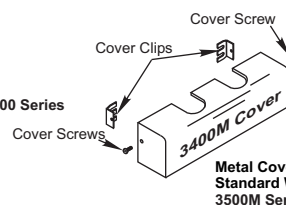
Drill 9/32 thru from Closer Side
3/8 Drill other Side



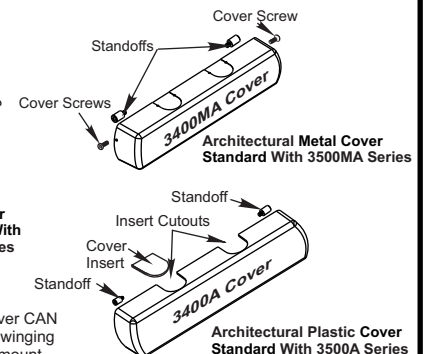
Narrow Cover
Standard With 3300 Series



Full Cover
Standard With 3500P Series



Metal Cover
Standard With 3500M Series



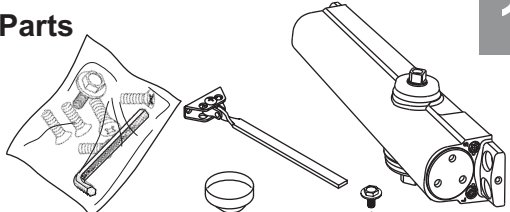
NOTE: Architectural Cover CAN NOT be used for doors swinging over 120° using parallel mount.

3000 Series

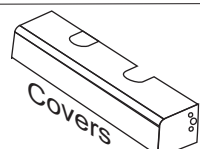
Non Hold Open Door Closers — Regular Arm

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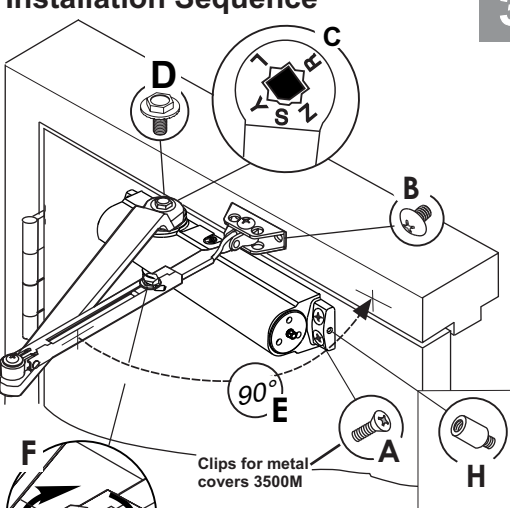
Parts



Optional



Installation Sequence



Clips for metal covers 3500M

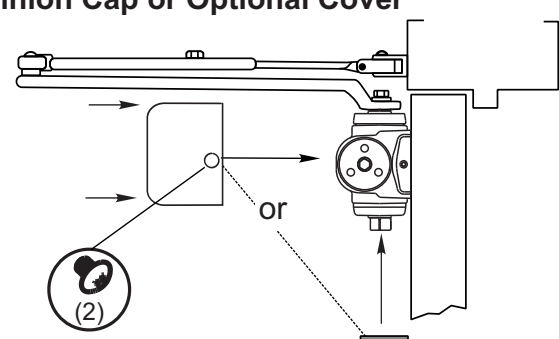
Optional

H Optional

For 3500 Architectural Cover Only

Spring Power Adjust (If Necessary)

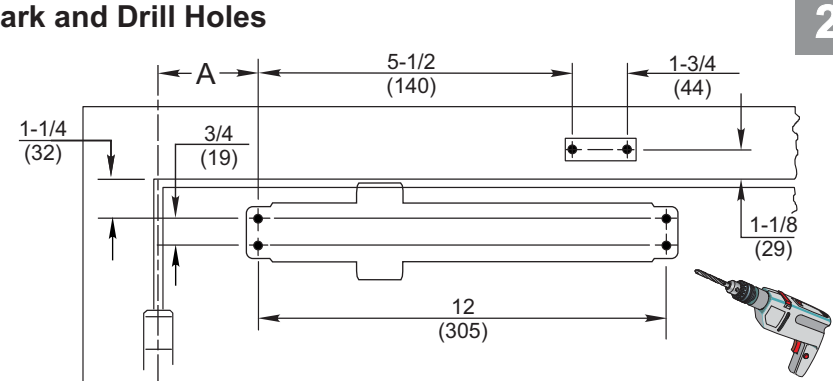
Pinion Cap or Optional Cover



3300 Series

Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

Mark and Drill Holes

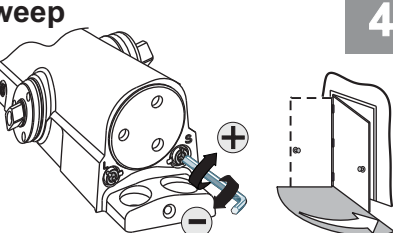


Right Hand Shown


Opening	Dimension "A"	Inches (mm)
To 100°	7-1/2 (191)	
101° to 130°	6 (152)	
131° to *180°	4-1/2 (114)	

* Door/Wall/Hardware/Jamb conditions permitting

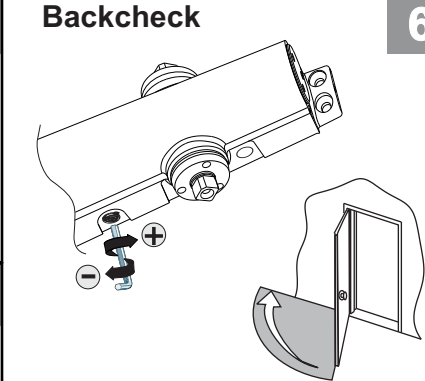
Sweep



Latch

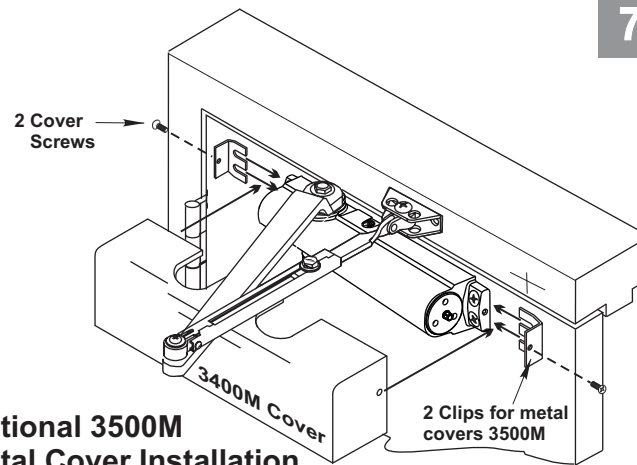


Backcheck



Caution: Don't completely close valve

Optional 3500M Metal Cover Installation



2 Cover Screws

3400M Cover

2 Clips for metal covers 3500M

3000 Series

Non Hold Open Door Closers — Parallel Arm

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Parts

1

Mark and Drill Holes

2

Installation Sequence

3

Close Valves

4

Install Closer and Bracket

5

Preload Closer

6

Mark and Drill Holes

2-3/4 (70) 3/8 (10) A 2 (51) 7/16 (11) 1/2 (13)

Top of Door Frame

3-1/2 (89) 3/4 (19) 12 (304.8)

Right Hand Shown

Inches (mm)

Door Opening	A	B
To 120°	9-1/2 (241)	3-3/4 (95)
*121° to 180°	7 (178)	1-1/4 (32)

* Door/Wall/Hardware/Jamb conditions permitting. 3500A and 3500MA Series cannot be installed for this door opening range.

3000 Series

Non Hold Open Door Closers — Parallel Arm

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<p>7</p> <p>Right Hand Door or Left Hand Door</p> <p>Flat</p> <p>B</p>	<p>8</p> <p>Open Valves</p> <p>Sweep</p> <p>Latch</p> <p>Caution: Don't remove valves</p>	<p>9</p> <p>Assemble Arm</p>
<p>10</p> <p>Arm Screw</p> <p>1-1/2 (38)</p>	<p>11</p> <p>Spring Power Adjust (If necessary)</p> <p>(Use 5/16" socket or adjustable wrench for this Adjustment)</p>	<p>12</p> <p>Sweep</p> <p>13</p> <p>Latch</p>
<p>14</p> <p>Backcheck</p> <p>Caution: Don't completely close valve</p>	<p>15</p> <p>Pinion Cap or Optional Cover</p> <p>3300 Series Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.</p>	<p>Optional 3500M Metal Cover Installation</p> <p>3500M Cover</p> <p>2 Cover Screws</p> <p>2 Clips for metal covers 3500M</p>

3000 Series

Non Hold Open Door Closers — Top Jamb Arm

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1 Parts

Covers
Optional

2 Mark and Drill Holes

Inches (mm)

Right Hand Shown

* Door/Wall/Hardware/Jamb conditions permitting

Opening	Dimension "A"
To 100°	$\frac{7-1/2}{(191)}$
101° to 130°	$\frac{6}{(152)}$
131° to *180°	$\frac{4-1/2}{(114)}$

A longer connecting rod, 400-11A, is required for reveals greater than 3" (76)

Top of Frame

Reveal

3 Installation Sequence

Optional H

Clips for metal covers 3500M

90°

B

C

D

E

F

G

H Optional

For 3500 Architectural Cover Only

Spring Power Adjust (If Necessary)

4 Sweep

6 Backcheck

Caution: Don't completely close valve

5 Latch

Pinion Cap or Optional Cover

3300 Series
Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.

7 Optional 3500M Metal Cover Installation

2 Cover Screws

3400M Cover

2 Clips for metal covers 3500M

3000 Series

80-9303-2206-010 Rev 2 (09-17)

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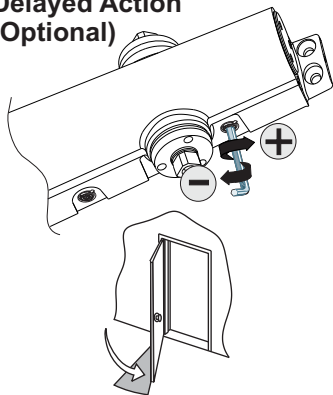
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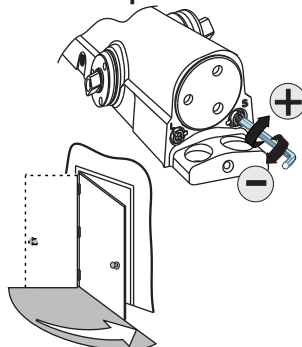
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(Use 1/8" Hex Wrench for these Adjustments)

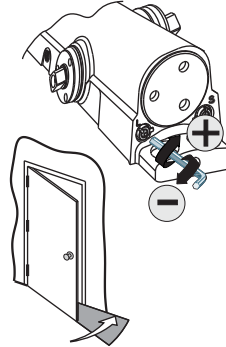
Delayed Action (Optional)



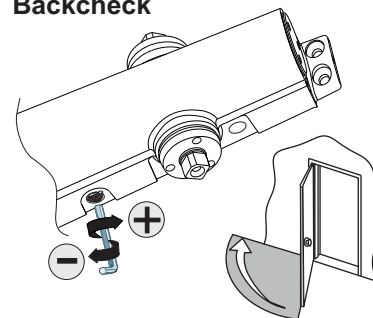
Sweep



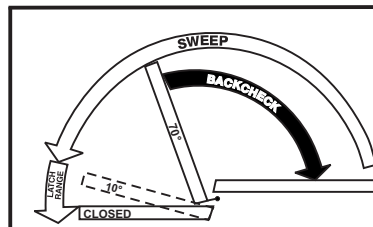
Latch



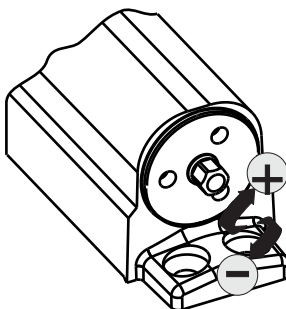
Backcheck



Adjust Closing Speed Time to between 3 to 7 seconds from 90°. Use of the door by handicapped, elderly or small children may require greater closing time.



Spring Power Adjust



(Use 5/16" Socket or Adjustable Wrench for this Adjustment)

Adjustment Chart (3301 & 3501 Only)

				Number of Turns Required			
	DOOR	TYPE OF INST.	*	MAXIMUM DOOR SIZE			
				32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)
3100/3300/3500	INTERIOR	Regular Arm Top Jamb	FULL 360° TURNS OF 5/16 POWER ADJUSTMENT WRENCH	5	8	11	13
		Parallel Arm		7	10	13	16
	EXTERIOR	Regular Arm Top Jamb		7	10	13	16
		Parallel Arm		9	12	15	18

*20 FULL (360°) TURNS MAXIMUM AVAILABLE
Closer is shipped set at mid range setting = 10 turns



The closing force for series 3301 & 3501 door closers is adjustable from a size 1 to a size 6, as outlined in ANSI Standard A156.4. When these series of door closers are installed and adjusted to conform to ADA reduced opening force requirements (5 lbs max.) for interior doors, they may not have adequate closing force to reliably close and latch the door. Power adjustments charted on this page are recommended where possible, to ensure proper door control.



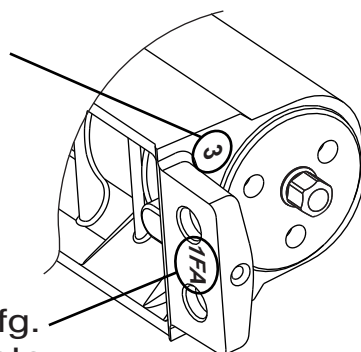
By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessibility guidelines.

To identify your model:

Closer Size

Blank = 3301/3501
2 = 3302/3502
3 = 3303/3503
4 = 3304/3504
5 = 3305/3505
6 = 3306/3506

Mfg.
Date



Arm Placement in Shoe

