

Norton®

Installation Instructions

80-9316-2502-020 (10-08)

Tri-Style 1600 Series

Non Handed Door Closer

Non Hold Open Models

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

Adjustable
(Sizes 3 thru 6)

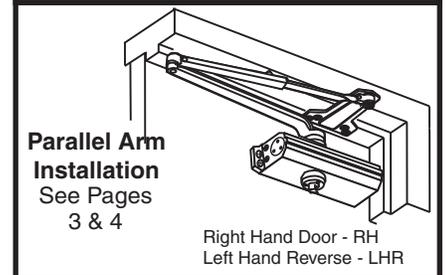
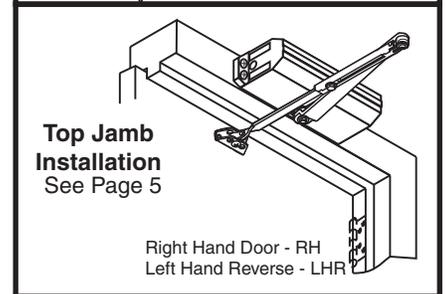
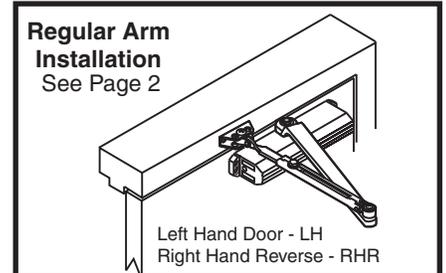
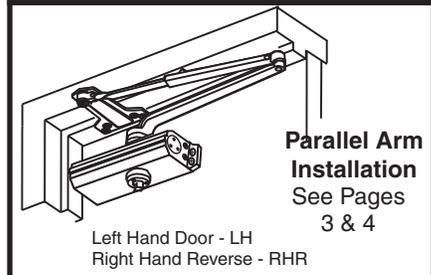
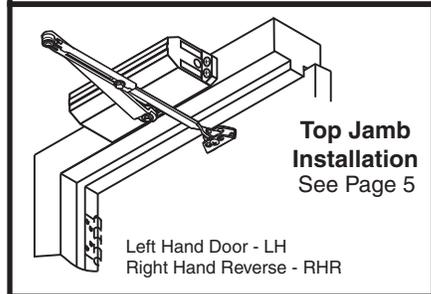
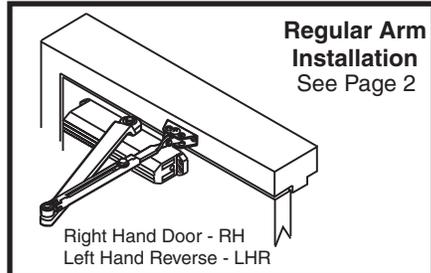
Weaker
↓
Stronger
+

1602BC
1603BC
1604BC
1605BC
1606BC

1601
(Sizes 1 thru 4)
1601BF



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.



"DA" suffix (Delayed Action) is an optional feature. A separate sheet is supplied showing closer adjustments.

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.
- Adjust closing time speed between 3 and 7

- These door closers should NOT be installed on the exposed side (weather side) of exterior doors.

	<p>#7 Metal 1/4-20</p>	<p>7/32" Wood</p>	<p>#14 Screws for Wood drill 7/32</p> <p>Machine Screws #7 Drill, 1/4-20 Tap</p>	<p>(Optional)</p> <p>Sleeve Nut and Bolt Drill 9/32 thru from Closer Side 3/8 Drill other side</p> <p>Thru Bolt and Grommet Nut Drill 9/32 thru from Closer Side 3/8 Drill other Side</p>
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<p>Standard Components</p> <p>Spring Power Adjustment Screw 1601(BF) Series Only</p> <p>"BC" Valve</p> <p>Closer Body</p> <p>Pinion Cap</p> <p>Closer Size Stamp</p> <p>"L" Valve</p> <p>"S" Valve</p>	<p>Arm Assembly</p> <p>Regular Arm/Top Jamb Shoe</p> <p>Main Arm</p> <p>Connecting Rod</p> <p>Forearm Screw</p> <p>Arm Slide</p> <p>Soffit Plate</p> <p>1618A Soffit Plate Used with Parallel Arm Closers Only</p>	<p>Optional Components</p> <p>1688 Plate</p> <p>Cover</p>
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1600 Series

Non Hold Open Door Closers — Regular Arm

80-9316-2502-020 (10-08)

1 Parts

Optional Cover

2

Right Hand Shown

Opening	Dimension "A"	Inches (mm)
To 100°	$\frac{7}{(178)}$	
101° to 120°	$\frac{6}{(152)}$	
* 121° to 180°	$\frac{3-1/2}{(89)}$	

* Door/Wall/Hardware/Jamb conditions permitting

3

90° E

Stronger + Weaker -

1601(BF) Only Spring Power Adjust (If Necessary)

4 Sweep

Slower - Faster +

5 Latch

Faster + Slower -

6 Backcheck

Stronger + Weaker -

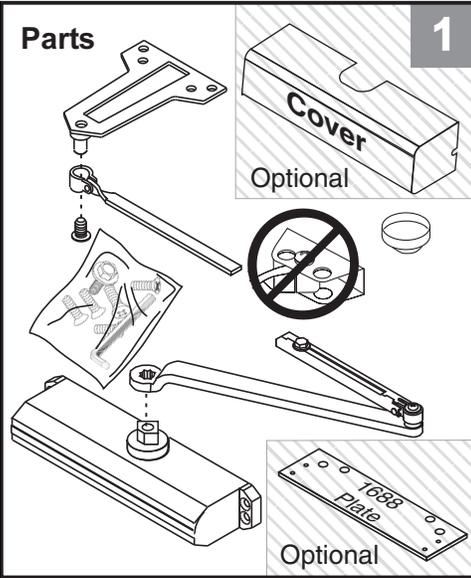
Caution: Don't completely close valve

7 Pinion Cap or Optional Cover

1600 Series

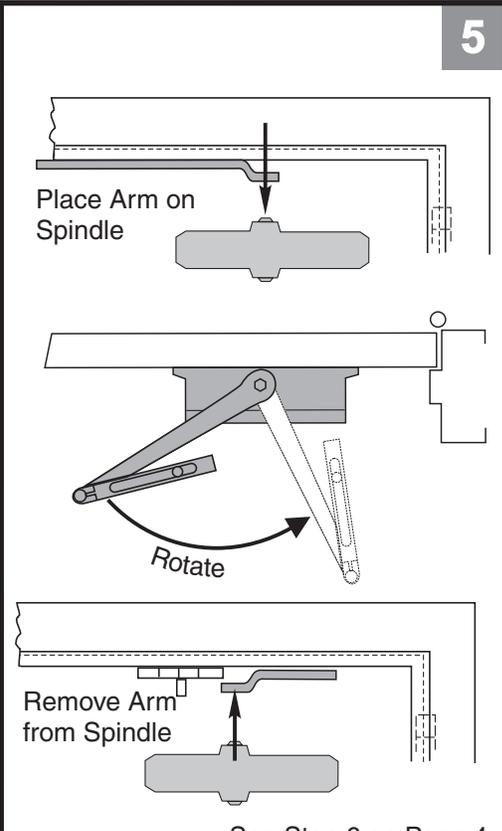
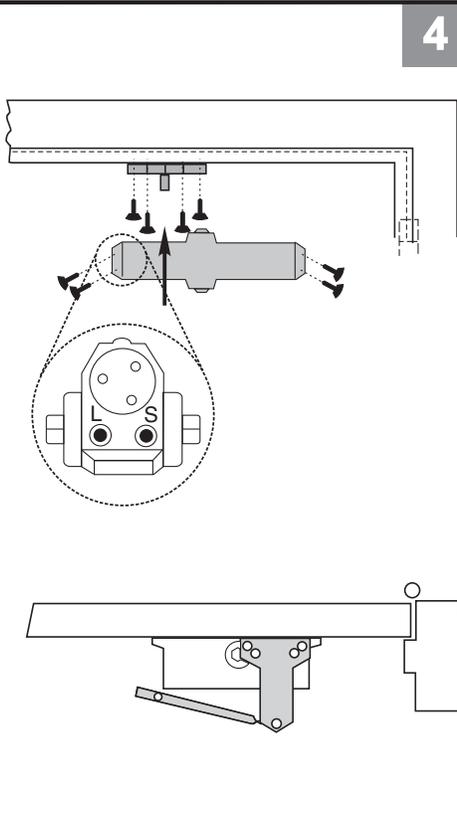
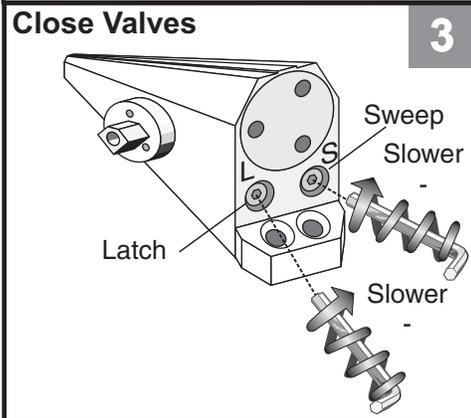
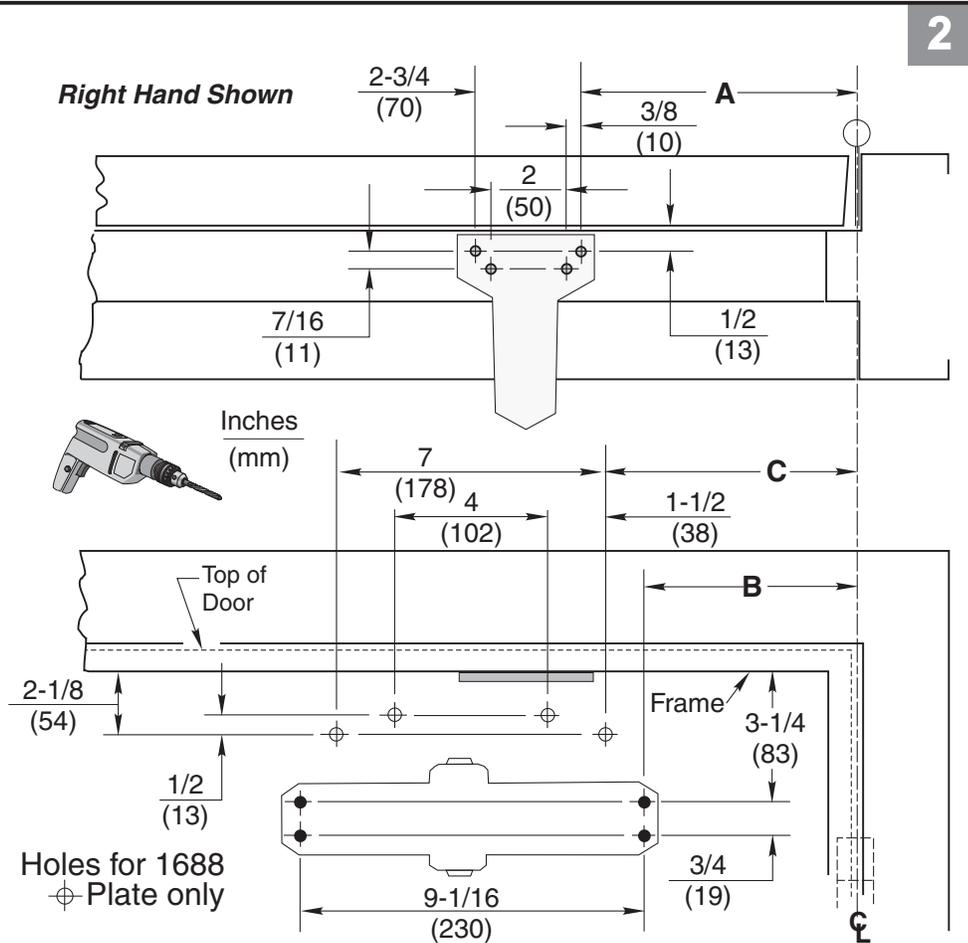
Non Hold Open Door Closers — Parallel Arm

80-9316-2502-020 (10-08)



Door Opening	A	B	C
To 100°	9-1/4 (235)	7-5/8 (194)	8-5/8 (219)
101° to 130°	7-3/4 (197)	6-1/8 (156)	7-1/8 (181)
*131° to 180°	5-3/4 (146)	4-1/8 (105)	5-1/8 (130)

* Door/Wall/Hardware/Jamb conditions permitting

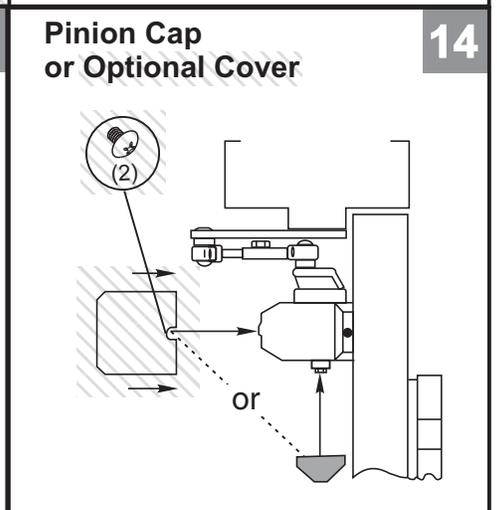
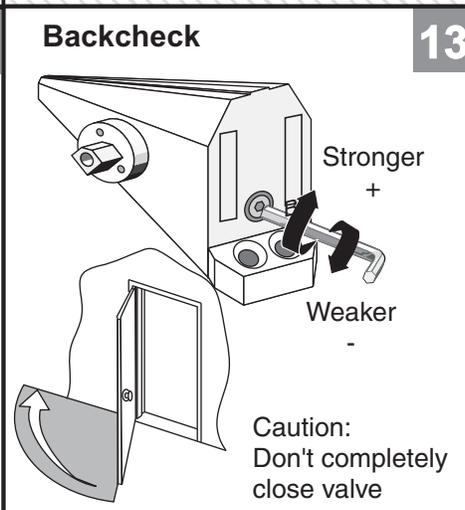
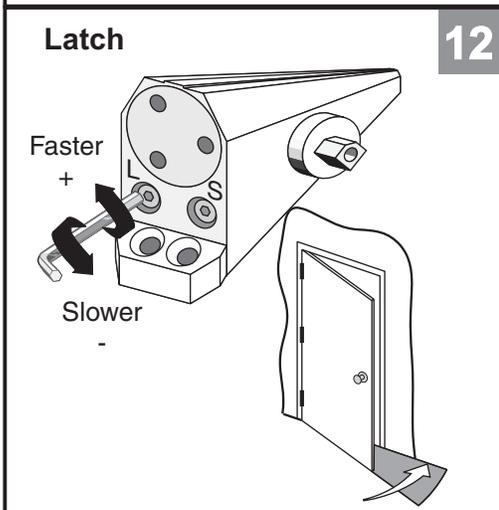
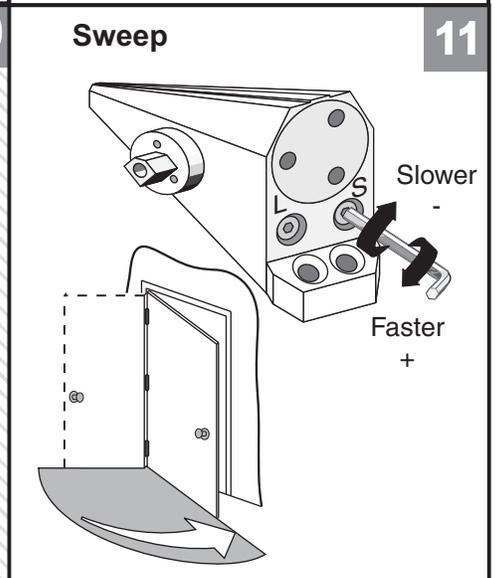
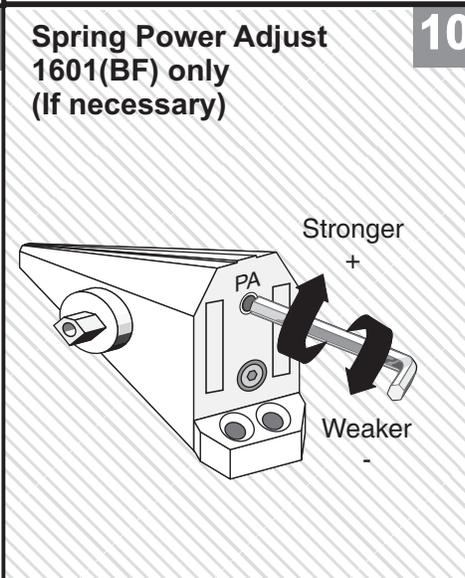
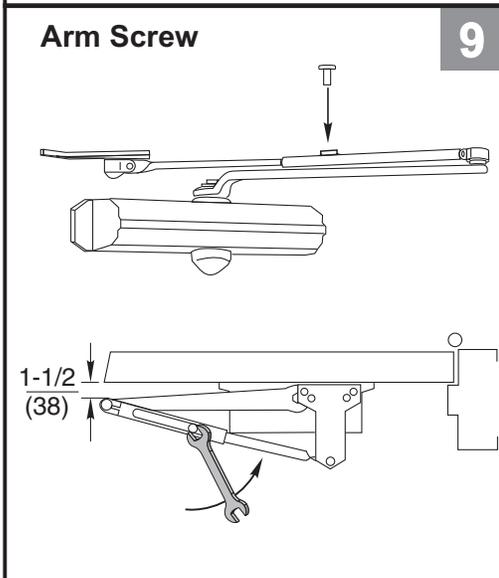
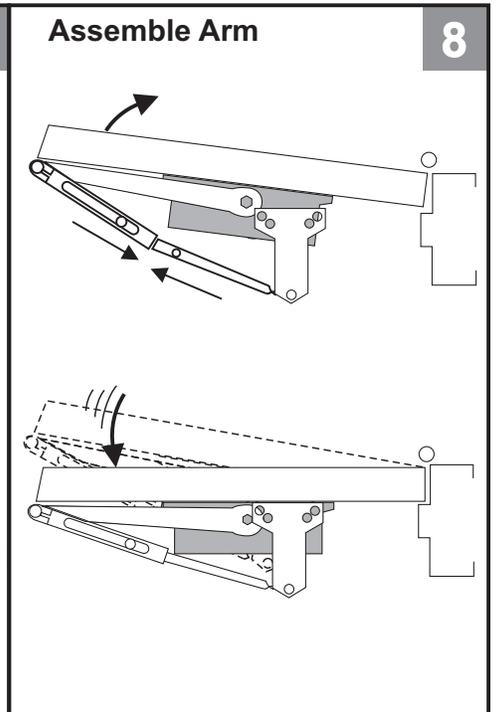
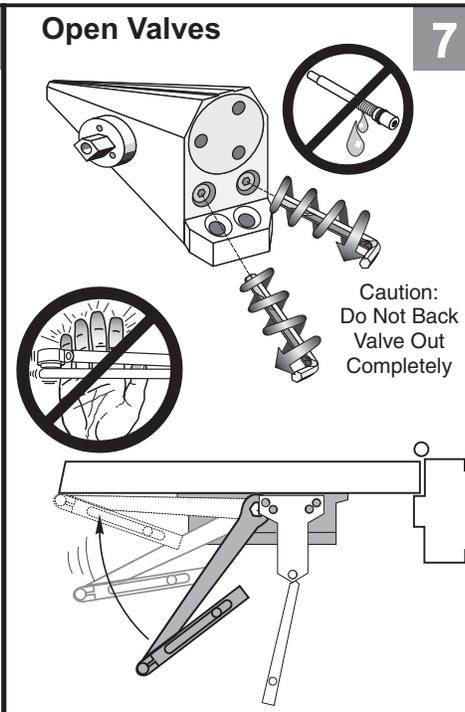
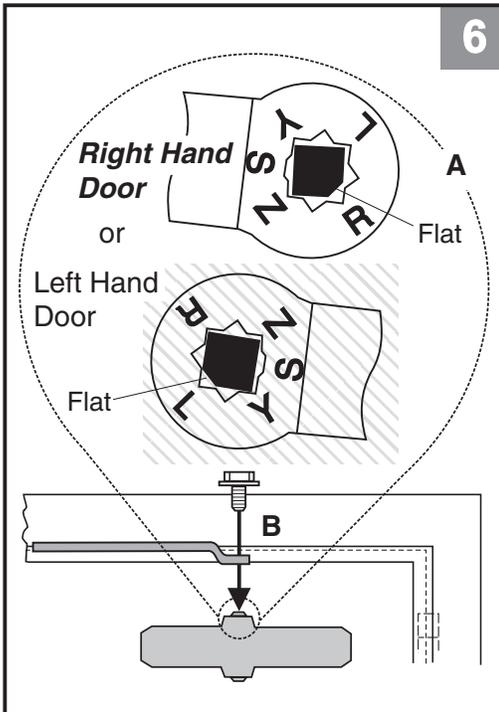


See Step 6 on Page 4

1600 Series

Non Hold Open Door Closers — Parallel Arm

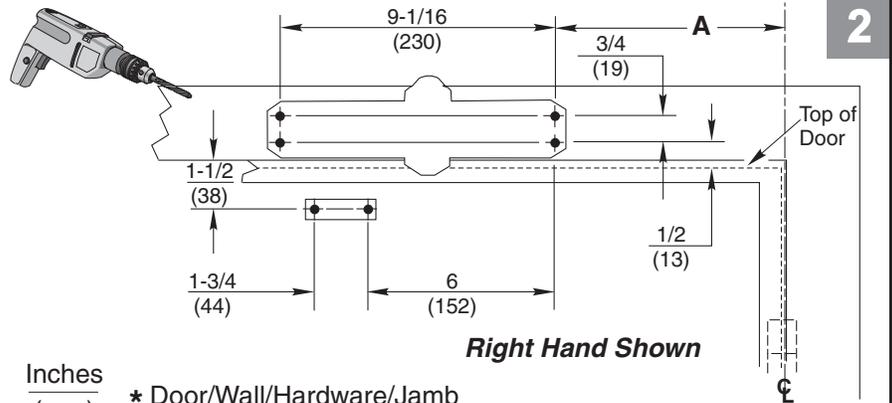
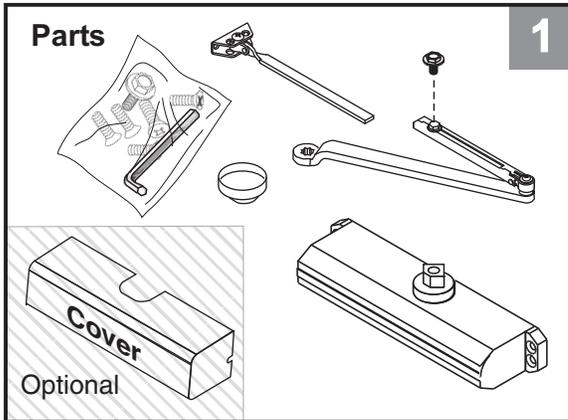
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1600 Series

Non Hold Open Door Closers — Top Jamb Arm

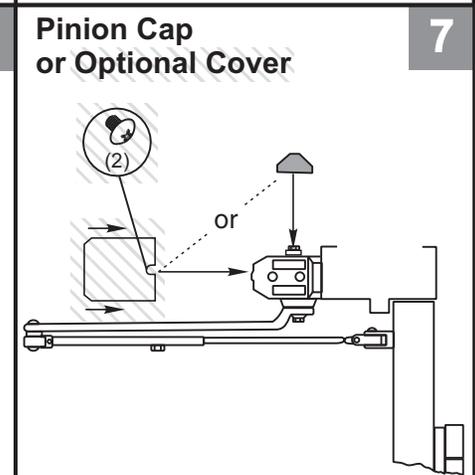
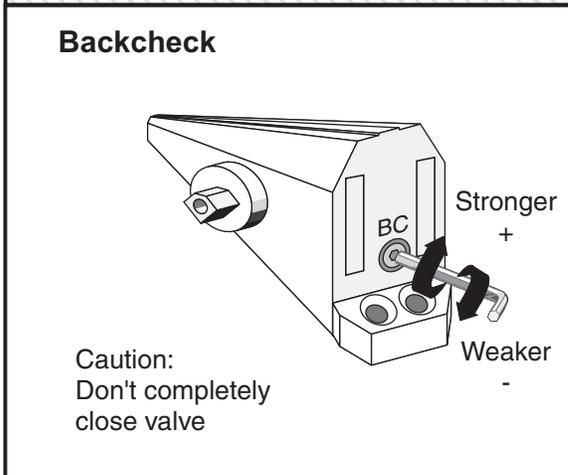
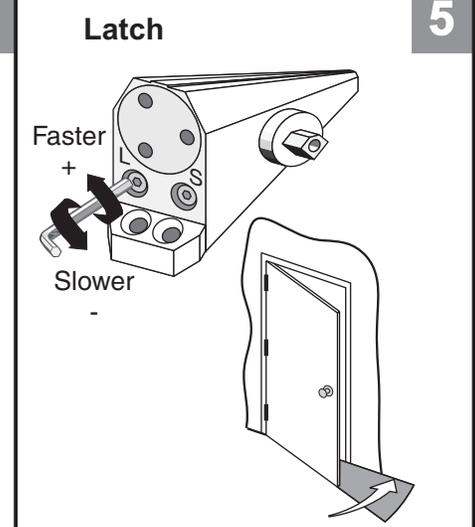
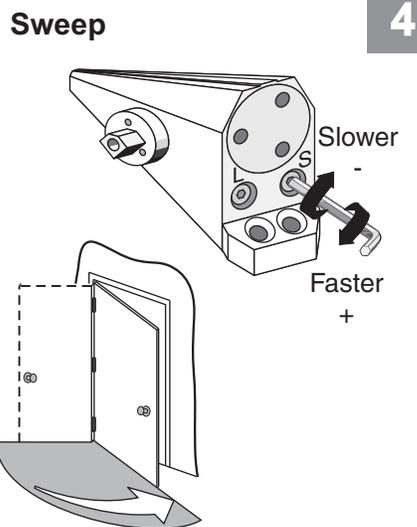
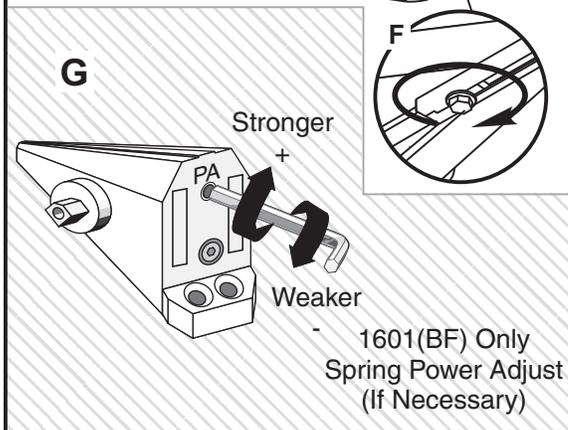
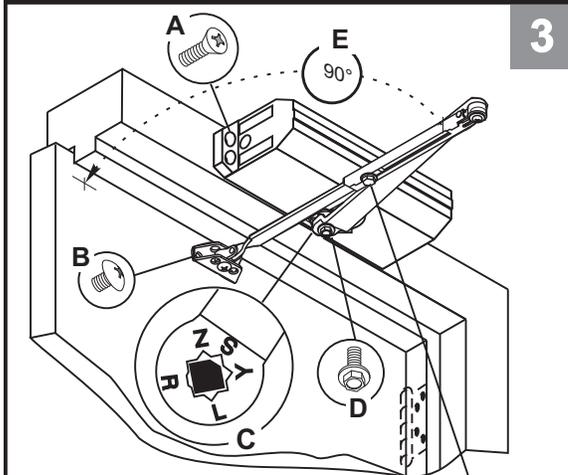
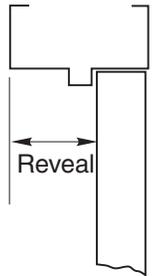
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Inches (mm) * Door/Wall/Hardware/Jamb conditions permitting

Opening	Dimension "A"
To 100°	7-1/2 (191)
101° to 120°	6 (152)
*121° to 180°	3-1/2 (89)

A longer connecting rod is required for reveals greater than 3" (76)



1600 Series Adjustments

80-9316-2502-020 (10-08)

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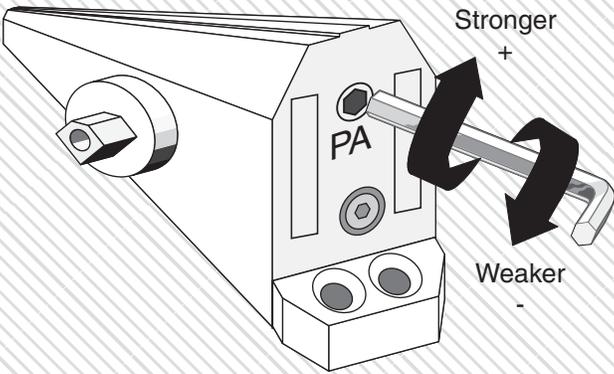
Sweep

Latch

Backcheck

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

Spring Power Adjust 1601 (BF) only



(Use 3/16" Hex Wrench for this Adjustment)

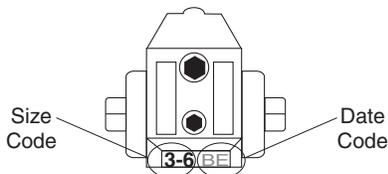
Adjustment Chart

	DOOR	TYPE OF INST.	*	Number of Turns Required MAXIMUM DOOR SIZE				
				34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
1601BF	INTERIOR	Regular Arm Top Jamb	FULL 360° OF 3/16 POWER ADJUSTMENT WRENCH	1	1	2	3	3
		Parallel Arm		2	2	3	4	5
	EXTERIOR	Regular Arm Top Jamb		5	6	8	NOT RECOMMENDED USE 1601	
		Parallel Arm		8	9	12		
1601	INTERIOR	Regular Arm Top Jamb	FULL 360° OF 3/16 POWER ADJUSTMENT WRENCH	2	4	6	9	11
		Parallel Arm		3	5	7	10	13
	EXTERIOR	Regular Arm Top Jamb		3	5	7	10	13
		Parallel Arm		5	7	10	14	16

*18 FULL (360°) TURNS MAXIMUM AVAILABLE

= 8 Turns As Shipped

To identify your model:



- 2=1602BC
- 3=1603BC
- 4=1604BC
- 5=1605BC
- 6=1606BC

- 3-6=1601
- 1-4=1601BF

Arm Placement in Shoe

