

These installation instructions cover either of the models illustrated.

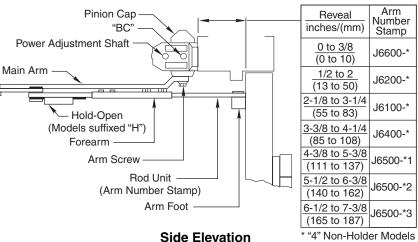
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Hollow-Metal or Wood Openings



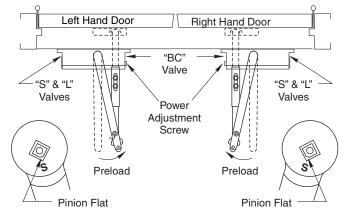
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Opening		Dimension A	
Hold Open	Stop	inches	mm
85°	90°	9-1/8	232
90°	95°	8-3/8	213
95°	100°	7-3/4	197
100°	105°	7-3/8	187
105°	110°	6-3/4	171
110°	115°	6-1/2	165



"7" Hold-Open Models





Template A 3/4 9-1/16 (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (19.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (230.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1) (250.2) (10.1)

Installation Sequence

- This page for installation on hollow-metal or wood. For aluminum doors and frame use Page 3.
- Select door opening angle using template above. Mark 4 holes on frame face for closer and 2 holes on door for arm foot.
- Prepare door and frame for fasteners. See "Preparation for Fasteners" below.
- 1601 Models Only. Set approximate closing power using "Power Adjustment Chart" at bottom of Page 3.
- Install closer to frame face with 2 regulating valves toward hinge edge of door.
- Remove rod unit from arm assembly.
- Install main arm onto closer pinion shaft, indexing main arm mark "S" with pinion flat as shown at right. Fasten with arm screw.
- Mount arm foot to door. Position foot with rod on top and spring toward hinge.
- Reassemble arm. Adjust forearm perpendicular (at a 90° angle) to the door. Install and tighten rod screws.
- Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver - DO NOT OVER TIGHTEN.
- Adjust closer.

Preparation for Fasteners				
Fasteners	Door or Frame	Drill-Sizes		
	Aluminum or Metal	No drill required		
Self-Drilling Screw	Wood	3/16" (4.30 mm) Pilot hole required		
1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20		
Sleeve nuts and bolts	Hollow Metal	9/32" (7 mm) through; 3/8" (9.5 mm) door face opposite to closer		
	Aluminum or Wood	3/8" (9.5 mm) through		

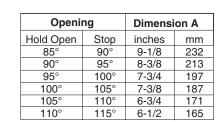
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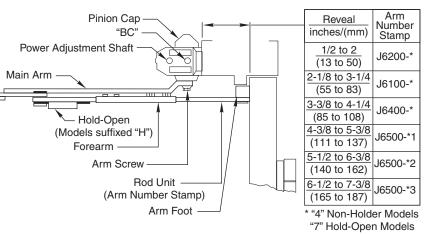
Aluminum Openings

(25)

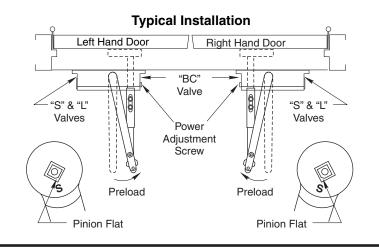


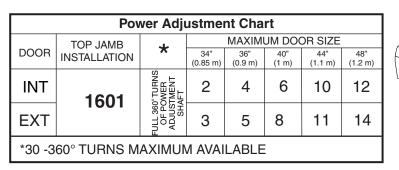
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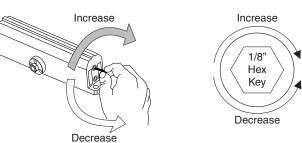




Side Elevation







Hinge or Pivot

1/2

(13)

• This page for installation on aluminum doors and frames only.

Template

3/4 (19.1)

9-1/16 (230.2)

4-1/8

(104.8)

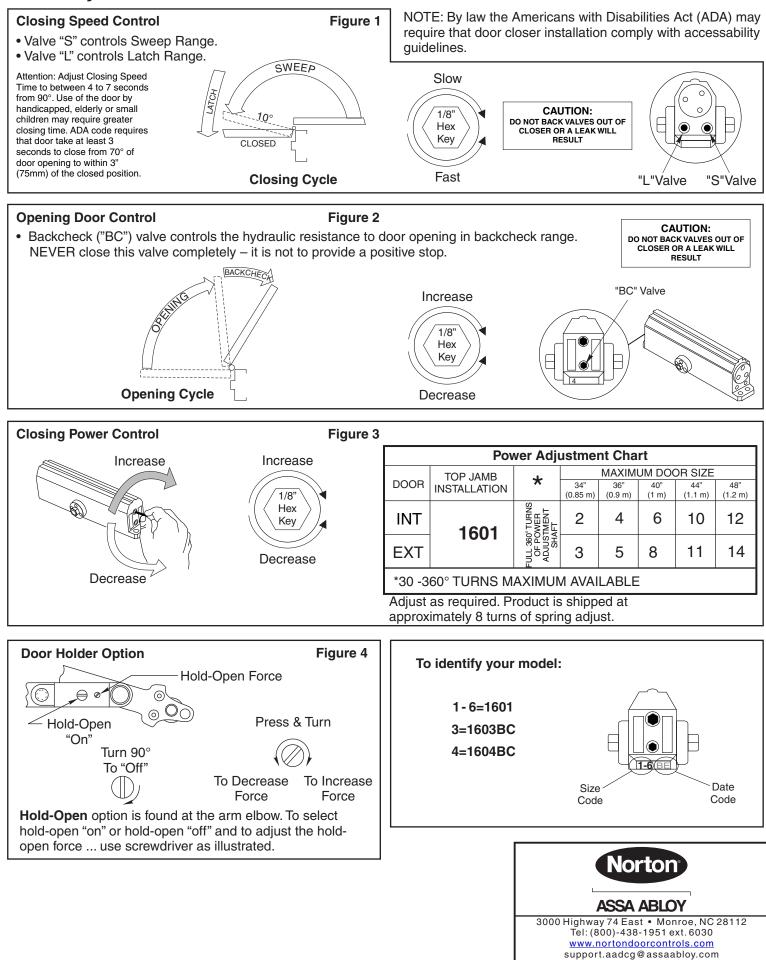
• Select door opening angle using template above. Mark 4 holes on frame face for closer and 2 holes on door for arm foot.

3-3/4

(95)

- Prepare door and frame for fasteners. See "Preparation for Fasteners" at bottom of Page 2.
- 1601 Models Only. Set approximate closing power using "Power Adjustment Chart" below.
- Install closer to frame face with 2 regulating valves toward hinge edge of door.
- Remove rod unit from arm assembly.
- Install main arm onto closer pinion shaft, indexing main arm mark "S" with pinion flat as shown at right. Fasten with arm screw.
- Mount arm foot to door. Position foot with rod on bottom and spring toward hinge.
- Reassemble arm. Adjust forearm perpendicular (at a 90° angle) to the door. Install and tighten rod screws.
- Screw pinion cap onto pinion shaft by hand or with a Phillips screw driver DO NOT OVER TIGHTEN.
- Adjust closer.

Unit Adjustment



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