1600 Series UniTrol Non-Handed Door Closer

Arm Models UNI-1601, UNI-1603BC, and UNI-1604BC



Non-hold Open and Hold Open (H) models, adjustable size 1-6 (UNI-1601(H) & model) and size 3 & 4 (UNI-1603BC(H) and UNI-1604BC(H) models). Hold open models are not UL-listed.





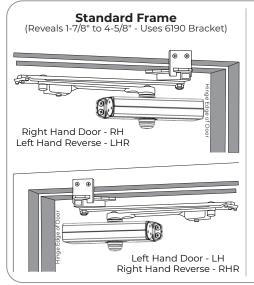


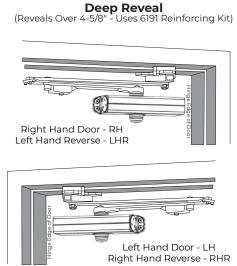
/ WARNING

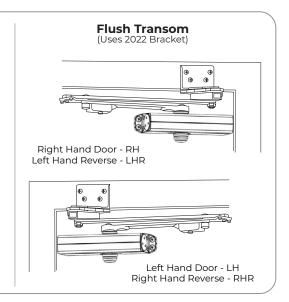
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm.

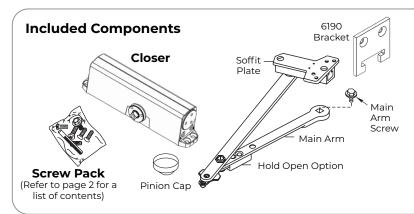
For more information go to: www.P65warnings.ca.gov.

READ AND FOLLOW ALL INSTRUCTIONS. SAVE THESE INSTRUCTIONS.

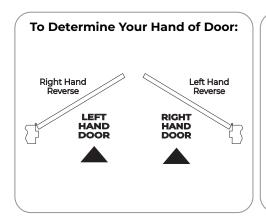


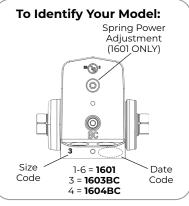






Arm Identification (Stamped on Arm)				
Door Width	Main Arm	Hold Open		
28" - 32" (0.70 - 0.80m)	9-1/2" (241mm)	6100-11	6100-1	
33" - 41" (0.85 - 1.00m)	11" (279mm)	6100-13	6100-3	
42" - 48" (1.05 - 1.20m)	12-1/2" (318mm)	6100-14	6100-4	









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ATTENTION:

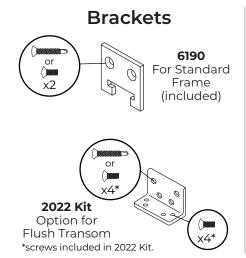
An incorrectly installed or improperly adjusted door closer can cause property damage or personal injury. These installation instructions should be followed to avoid the possibility of misapplication or misadjustment.

- 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

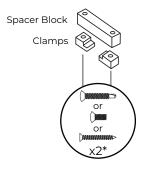
- Door and frame must be properly reinforced.
- Always consult door/frame manufacturer for fastener compatibility.
- Adjust closing time speed between 4 and 7 seconds from 90° to 0°. Use of door by handicapped, elderly or small children may require greater closing time.
- These door closers should NOT be installed on exposed side (weather side) of exterior doors.
- Dimensions are given in inches (millimeters).

Supplied Hardware

Mounting Hardware		Door or Frame	Drill	
	Closer, Soffit Plate, 6190 Bracket: 1/4-14 x 1-1/2 Oval Flat Head Self Drilling Screw	Wood/Metal	3/16" (4.8mm) for wood	
D0000000	Soffit Plate, 6190 Bracket: 1/4-20 x 3/4 Oval Flat Head Mach. Screw	Metal	Drill #7 (.201 dia. or 5.1mm) Tap 1/4-20	
	Closer: Sleeve Nut and Bolt (SNB) with 1/4-20 x 3/4 Oval Flat Head Mach. Screw (recommended)	Hollow Metal	9/32" (7.0mm) thru 3/8" (9.5mm) door face opposite to closer	
		Aluminum or Wood	3/8" (9.5mm) thru	
- Consessed and	Closer: Thru Bolt and Grommet Nut (TBGN) (optional)	All	9/32" (7.0mm) thru 3/8" (9.5mm) dia. x 3/8" (9.5mm) deep, door face opposite to closer	



Reinforcing Kit

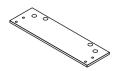


6191 KitOption for Deep Reveal (Refer to Figure 2 on page 4)
*screws included in 6191 Kit.

Drop Plates



1688 Drop Plate For narrow top rail

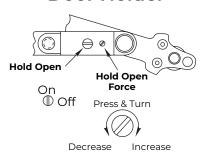


1688C Drop PlateFor use with optional cover

Cover



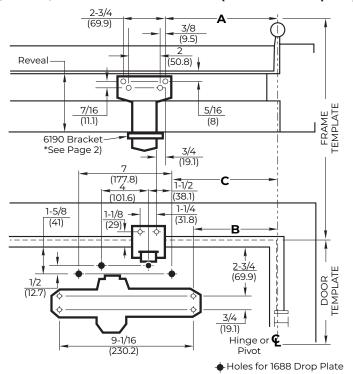
Door Holder





1600 UniTrol Arm - Templates (Right Hand Shown)

1-7/8" - 4-5/8" Standard Frame Reveal (With Door Template)

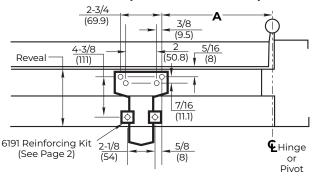


NOTES:

- 1. IMPORTANT: Door template is typical for all installations. Frame template must be selected according to frame reveal.
- 2. If top rail is as narrow as 2-5/8" (67mm) and prevents closer from being mounted directly to door surface, use 1688 Drop Plate. Prepare door and frame accordingly.

28" - 32" Wide Doors				
Opening			1	•
Hold Open	Stop	Α	В	С
85°	90°	10-1/2 (267)	8-5/8 (219)	9-5/8 (244)
90°	95°	9-3/4 (248)	8 (203)	9 (229)
95°	100°	9-1/4 (235)	7-1/2 (191)	8-1/2 (216)
100°	105°	8-7/8 (225)	7-1/8 (181)	8-1/8 (206)
105°	110°	8-1/2 (216)	6-3/4 (171)	7-3/4 (197)
110°	115°	8-1/8 (206)	6-3/8 (162)	7-3/8 (187)

Over 4-5/8" Deep Frame Reveal Template



33" - 41" Wide Doors				
Opening				•
Hold Open	Stop	A	В	С
85°	90°	12-5/8 (321)	11 (279)	12 (305)
90°	95°	12 (305)	10-3/8 (264)	11-3/8 (289)
95°	100°	11-3/8 (289)	9-3/4 (248)	10-3/4 (273)
100°	105°	10-7/8 (276)	9-1/4 (235)	10-1/4 (260)
105°	110°	10-3/8 (264)	8-3/4 (222)	9-3/4 (248)
110°	115°	10 (254)	8-3/8 (213)	9-3/8 (238)

Flush Transom Template 2022 Bracket *See Page 2) C + 1/8 (3.2) 1-3/4 3/4 (44) (19.1) 1-1/2 (38.1) 2-1/2 (63.5) E Hinge

42" - 48" Wide Doors				
Opening			,	
Hold Open	Stop	A	В	С
85°	90°	15 (381)	13-1/4 (337)	14-1/4 (362)
90°	95°	14-1/4 (362)	12-1/2 (318)	13-1/2 (343)
95°	100°	13-5/8 (346)	11-7/8 (302)	12-7/8 (327)
100°	105°	13 (330)	11-1/4 (286)	12-1/4 (311)
105°	110°	12-1/2 (318)	10-3/4 (273)	11-3/4 (298)
110°	115°	12 (305)	10-1/4 (260)	11-1/4 (286)

3

Pivot

1600 Series UniTrol Non-Handed Closer

1600 UniTrol Arm Installation (Right Hand Shown)

1. Prepare door and frame.

- 1. Be sure that arm is correct for door width. See "Components" on page 1.
- 2. Be sure that correct frame and door template combination is used to prepare for installation. See "Templates" on page 3.
- 3. Using dimensions for hold-open or door stop angle desired, mark and drill
 - Four (4) holes on door for closer (or drop plate)
 - Six (6) holes on frame for soffit plate and 6190 bracket (See Figure 1) or
 - Six (6) holes on frame for soffit plate and 6191 reinforcing kit (See Figure 2) or
 - Four (4) holes on frame for 2022 angle bracket (See Figure 3)
- 4. UNI1601 ONLY: Set approximate closing power using "Spring Power Adjustment" chart on page 5.

Figure 1. 1-7/8" - 4-5/8" Standard Frame With 6190 Bracket

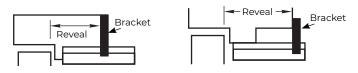


Figure 2. Over 4-5/8" Deep Reveal With 6191 Reinforcing Kit

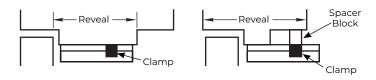
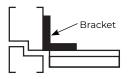
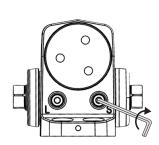


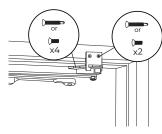
Figure 3. Flush Transom With 2022 Bracket



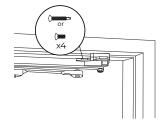
2. Close latch and sweep valves.



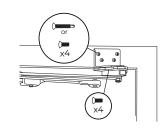
3. Install arm to frame.



Standard Frame 6190 Bracket

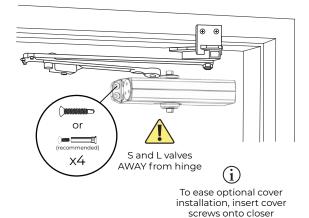


Deep Reveal 6191 Kit (Refer to 6191 Kit on page 2)

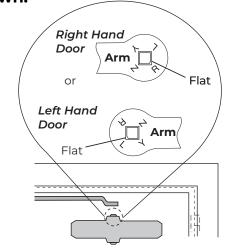


Flush Transom 2022 Bracket (Refer to 2022 Kit on page 2)

4. Mount drop plate (if used) and closer.



5. Rotate closer pinion to align flat as shown.

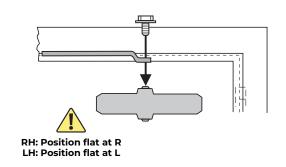


(leaving a slight gap) before mounting closer.

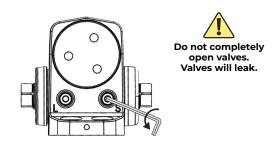
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6. Attach arm to closer.



7. Open latch and sweep valves.



The 1600 UniTrol Arm Closer has now been installed.

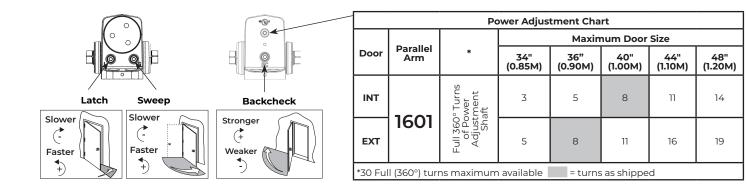
Continue with closer adjustments and decorative cap or cover installation.

Closer Adjustments



Use provided hex wrench to turn valves. NEVER force valves out of closer. NEVER completely close backcheck valve. Door must be open to adjust spring closing power. Refer to the chart.

Use of a power drill will void the Warranty.

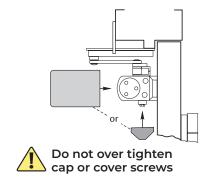


Pinion Cap or Cover

Screw pinion cap onto pinion shaft by hand or with a Phillips screwdriver.

OR

Slide cover over closer and secure mounting screws after installation is complete.



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