

Installation Instructions

80-9303-2214-010 (07-08)

	Non Hold Open	Hold Open	Sizing			
Series No.*	UNI TJ3300	UNI TJ3310	2, 3, 4, 5 or 6			
	UNI TJ3301	UNI TJ3311	Multi-Size 1 thru 6			
	UNI TJ3500	UNI TJ3510	2, 3, 4, 5 or 6			
	UNI TJ3501	UNI TJ3511	Multi-Size 1 thru 6			
* These series have a DELAYED ACTION CLOSING option available that						

is identified with a "DL" suffix to the series number.

CAUTION

An incorrectly installed or improperly

adjusted door closer can cause property

damage or personal injury. These instructions

should be followed to avoid the possibility

of misapplication or misadjustment.



The closing force for these series 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 Page 4 are recommended where possible, to ensure proper door control.

- Always use template covering door-opening-angle desired, correct door-thickness and frame-reveal, and door-hanging-hardware being used. Template dimensions in these instructions (page 2) cover frame reveals to 7-3/8" (187mm) in opening with 1-3/4" (44mm) thick doors hung on 4-1/2" (114mm) wide template-hinges (figure 2), 3/4" (19mm) offset-pivots (figure 2) or center-pivots (figure 3).
- Check hand of door: right or left (see figure 5, page 3). Make sure that door opens the full angle desired and latches without any binding action or interference. Note that hold-open units will require that door swing five (5) degrees past hold-open point, to dead-stop position.
- It is suggested that sex-nuts and bolts be used to mount arm-foot and to mount closer to flush partitions.
- Top Jamb Unitrols are supplied with arm rod units according to frame-reveal. An arm number is stamped on the arm rods, as shown on Figures 2 and 3 (page 2).



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UNI Stop/Holder

Power Adjust

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

Power Adjustment Chart for TJ3301/TJ3501, TJ3311/TJ3511 ONLY

	Number of Turns Required								
DOOR	MAXIMUM DOOR SIZE								
boon	32" (0.85M)	36" (0.90M)	42" (1.00M)	48" (1.20M)					
Interior Door	4	7	8	9					
Exterior Door	7	8	10	12					

NOTE: Maximum of 20 turns (360°) of Power Adjustment Shaft. Closer is shipped set at 10 turns.



Top-Jamb Installation Template

Figure 1



- * Always use frame or transom rabbet as reference plane, not bottom of stop.
- ** For 1-3/4" door with 4-1/2" wide butts or 3/4" offset-pivots, see Figure 2.
 For 1-3/4" door with center-pivots, see Figure 3. All other conditions require special template.

Do Not Scale Drawing

Left Hand Door Shown

Dimensions are in $\frac{\text{inches}}{(\text{mm})}$

Door-Control location for 1-3/4" (44mm) thick doors hung on Figure 2																
Arm Number Stamp	Non-Holder Hold-Open	J660 J660	0-4 0-7	J6200-4 J6200-7		J6100-4 J6100-7		J6400-4 J6400-7		J6500-41 J6500-71		J6400-42 J6400-72		J6500-43 J6500-73		
Poynal	inches	0 - 3/8		1/2 - 2		2-1/2 - 3-1/4		3-3/8 - 4-1/4		4-3/8 - 5-3/8		5-1/2 - 6-3/8		6-1/2 - 7-3/8		
Reveal	mm	0 - 10		13 - 50		55 - 83		85 - 108		111 - 137		140 - 162		165 - 187		
Door Op	ening Angle	Dimension A		Dimension A Dimension A		Dimension A		Dimension A		Dimension A		Dimension A				
Hold Open	Door Stop	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
85°	90°	9-7/8	251	9-7/8	251	10	254	10	254	10-1/8	257	10-1/4	260	10-1/4	260	
90°	95°	9-1/4	235	9-1/4	235	9-3/8	238	9-3/8	238	9-1/2	241	9-5/8	244	9-5/8	244	
95°	100°	8-5/8	219	8-5/8	219	8-3/4	222	8-3/4	222	8-7/8	225	9	229	9	229	
100°	105°	8-1/8	206	8-1/8	206	8-1/4	210	8-1/4	210	8-3/8	213	8-1/2	216	8-1/2	216	
105°	110°	7-5/8	194	7-5/8	194	7-7/8	200	7-7/8	200	8	203	8-1/8	206	8-1/8	206	
110°	115°	7-1/4	184	7-1/4	184	7-1/2	191	7-1/2	191	7-3/4	197	7-7/8	200	7-7/8	200	
Door-Contr	Door-Control location for 1-3/4" (44mm) thick doors hung on center pivots.															
Arm Number	Non-Holder	J660	0-4	J6200-4 J6100-4		J6400-4 J6500-41		J6400-42		J6500-43						
Stamp	Hold-Open	J660	0-7	J620	0-7	J610	0-7	J640	J6400-7		J6500-71		J6400-72		J6500-73	
Reveal	inches	0 - 3	8/8	1/2 -	2	2-1/2 -	2-1/2 - 3-1/4 3-3/		3-3/8 - 4-1/4 4-3/8 - 5-3/8		5-1/2 - 6-3/8		6-1/2 - 7-3/8			
	mm	0 - 1	10	13 -	50	55 -	83	85 - 1	108	111 -	137	140 -	162	165 -	187	
Door Op	ening Angle	Dimens	ion A	on A Dimension A		Dimension A		Dimension A		Dimension A		Dimension A		Dimension A		
Hold Open	Door Stop	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	
85°	90°	10-1/4	260	10-3/8	264	10-3/8	264	10-1/2	264	10-5/8	270	10-3/4	273	10-3/4	273	
90°	95°	9-1/2	241	9-3/4	246	9-3/4	246	9-7/8	251	10	254	10-1/8	257	10-1/8	257	
95°	100°	9	229	9-1/8	232	9-1/4	235	9-1/4	235	9-3/8	238	9-1/2	241	9-1/2	241	
100°	105°	8-3/8	213	8-1/2	216	8-3/4	222	8-3/4	222	9	229	9-1/8	232	9-1/8	232	
105°	110°	8	203	8-1/8	206	8-1/4	210	8-3/8	213	8-5/8	219	8-3/4	222	8-3/4	222	
110°	115°	7-1/2	191	7-3/4	197	7-7/8	200	8	203	8-1/4	210	8-3/8	213	8-3/8	213	

Installation Sequence

- Set average-power of multi-size closer. (Series UNI TJ3301, UNI TJ3501 ONLY) See Power Adjust chart on Page 1.
- See Figure 2 or 3 and select template dimensions. Note: Separate template required for other applications. Figure 2: 1-3/4" (44mm) thick door on 4-1/2" (114mm) wide hinges or 3/4" (19mm) offsetpivots. Figure 3: 1-3/4" (44mm) thick door on centerpivots. Frame reveals and door opening angles as charted; shock absorber will permit five (5) degrees of door travel beyond hold-open position.
- Locate holes on frame face, stop-side. Four (4) for closer (or drop plate).
- Locate holes on door. Two (2) for arm-foot.
- Prepare door and frame for fasteners. See chart "Preparation for Fasteners" (Figure 4). Note: Use of sex-nuts is recommended for fastening arm foot to door and the closer body to a flush transom.

- Mount drop plate, (if used) and closer. Closer power adjustment shaft toward lock edge.
- Disassemble rod-unit from arm-assembly and install on door. Rod under shock-absorber and closest possible to lock edge (See Figures 1 and 5).• Mount main arm onto closer pinion shaft, aligning proper arm mark with pinion flat. Secure with main arm screw. Arm Mark "S" (See Figure 5).
- Insert connecting rod into slide unit and preload arm. Secure with rod screws. Adjust rod to perpendicular with door. See Figure 5.
- Adjust closer and install cover. See "Unit Adjustment" on back page.

Preparation for Fasteners Figure 4								
Fasteners		Door or Frame	Drill-Sizes					
Standard	Self-Drilling Screw	Aluminum or Metal	No drill required					
		Wood	3/16" (4.30 mm)					
	1/4" - 20 machine screw	Metal	Drill: #7 (0.201" dia.) Tap: 1/4" - 20					
Optional	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					
	Through-bolts and grommet-nuts	All	9/32" (7 mm); 3/8" (9.5 mm) dia. x 3/8" (9.5 mm) deep on door opposite to closer					



Adjustment Instructions

Closing Power See Figure 6

- Adjust as required.
- Hold-Open controls are at arm elbow (models suffixed "H"). To select hold-open on or hold-open off and to adjust the hold open force ... Use screwdriver as illustrated (See Figure 10).

Closing Cycle (hydraulic control) See Figure 7A. Valve "L" controls door speed in Latch range. Valve "S" controls door speed in Sweep range. Valve "D"–Optional–controls door speed in the Delay range. Use 1/8" hex-key furnished and adjust as shown in Figure 8.

Door closing time should be between 3 and 7 seconds from 90° . Longer closing time may be required for the elderly or handicapped.

Opening Cycle (hydraulic control) See Figure 7B.

Valve "B" cushions (slows) door opening in the **backcheck** range.

Note: Never close this valve completely or damage to closer may occur.

Use 1/8" hex-key furnished and adjust as shown in Figure 9.

Installation of Cover:

- Full cover: Slide cover insert into the un-used cutout in cover. Install cover using screws provided.
- Narrow cover: Install cover using screws provided. Screw pinion cap onto shaft by hand or with a phillips screwdriver DO NOT OVERTIGHTEN.
- Full metal cover: Fasten cover to mounting clips with screws provided.
- Architectural plastic cover: Slide cover insert into the unused cutout in cover. Install standoffs in ends of closer. Snap cover onto standoffs.
- Architectural metal cover: Remove cover insert where pinion is located. Install standoffs in ends of closer. Install cover using screws provided.



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