



Installation Instructions

80-9344-1401-010 (09-09)

Unitrol®
Top Jamb Door Controls

UNI Stop/Holder

Series: UNI-TJ4400/TJ4410 (DL),
UNI-TJ400/TJ1400 (DL)

Top Jamb Door Controls

- 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 openings with 1-3/4" (44mm.) thick doors hung on 4-1/2" (114mm.) wide template-hinges (figure 4), 3/4" (19mm.) offset-pivots (figure 4) or center-pivots (figure 5).
- Check hand of door: right or left (see figure 7, 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.
- Always use sex-nuts and bolts to mount arm-foot and to mount closer plate in flush partitions.
- Top Jamb Unitrols are supplied with arm rod UNI-E according to frame-reveal. An arm number is stamped on these arm rods, as shown on Figures 4 and 5 (Page 2).

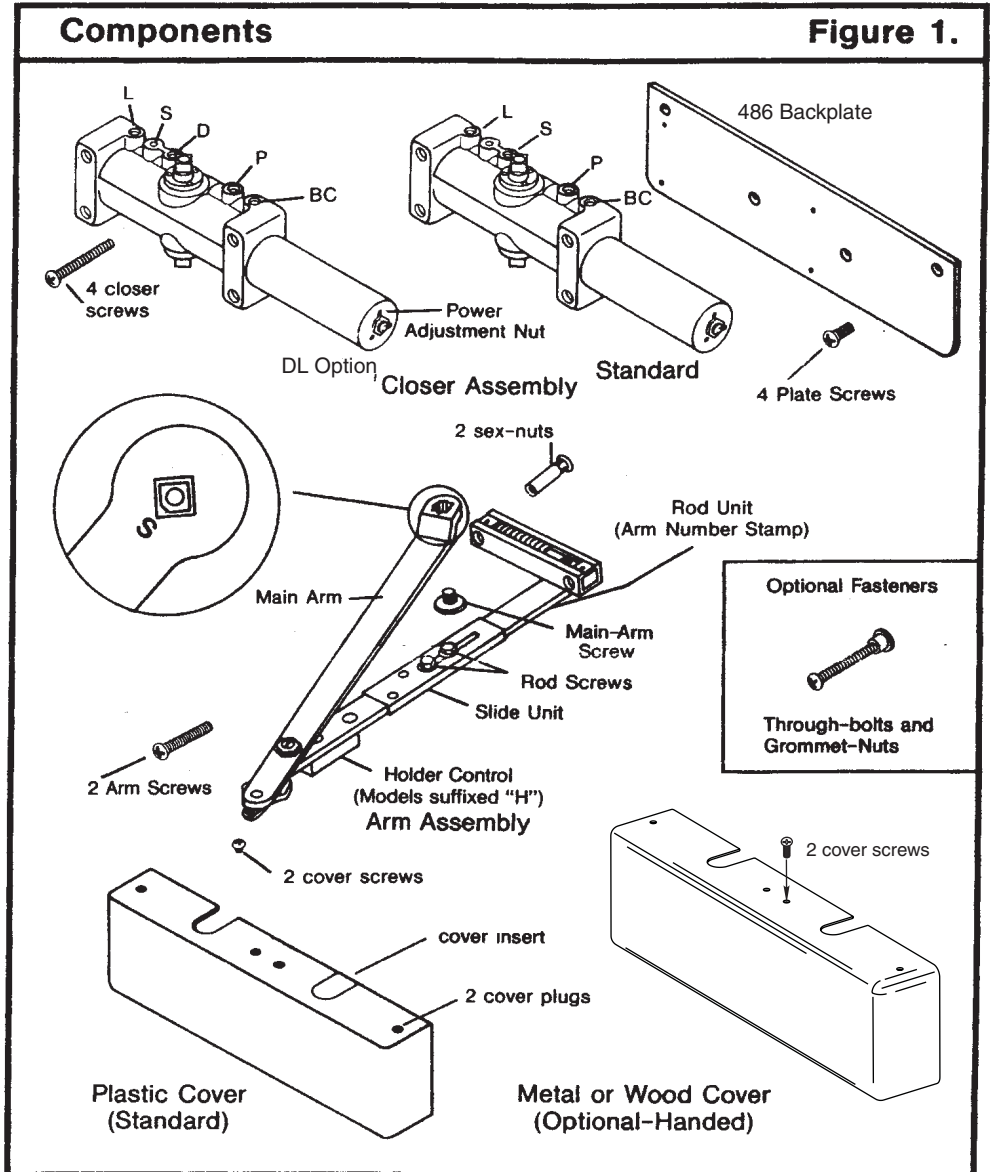
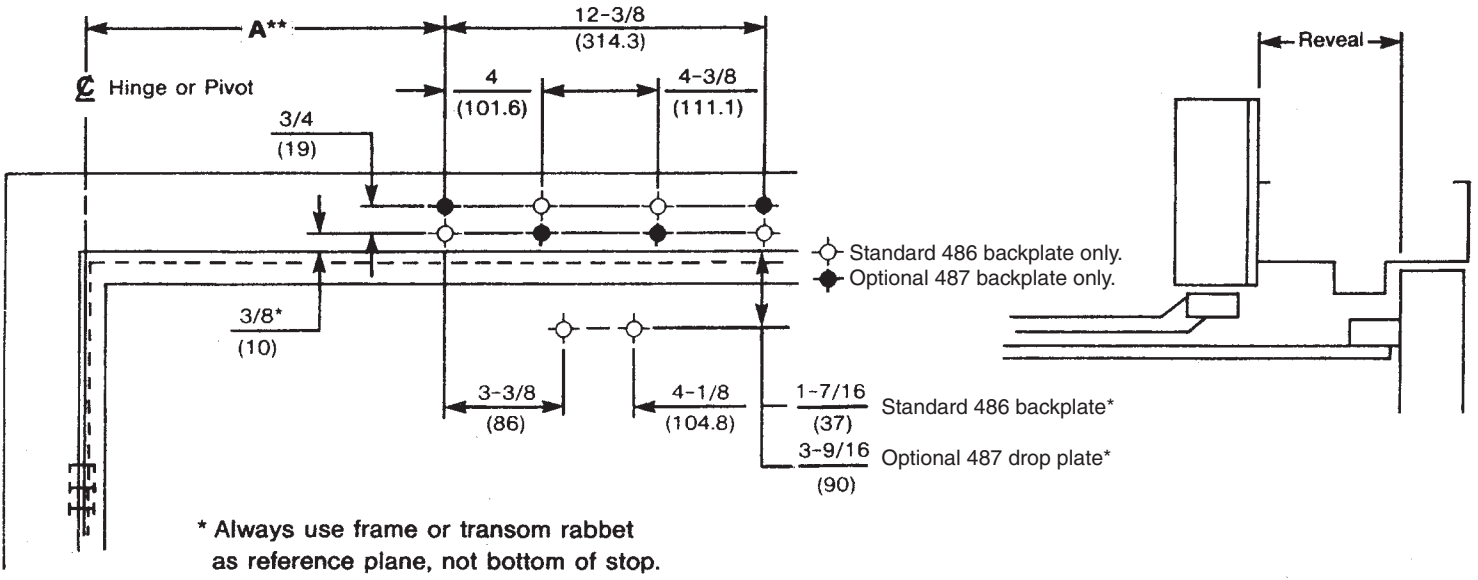


Figure 2.	Door Size	Series UNI-TJ4400	
	inches (mm)	Interior Door	Exterior Door
Multi-size Closer Sizing Chart	28-32 (0.70-0.80)	0	3
	33-36 (0.85-0.90)	2	5
	37-42 (0.95-1.05)	5	7
	43-48 (1.10-1.20)	8	11

Full Clockwise Turns of Closer Power Adjustment Nut

Top-Jamb Installation Template Figure 3.



* 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 4.
For 1 3/4" door with center-pivots see figure 5.
All other conditions require special template.

Do Not Scale Drawing
Left Hand Door Shown
Dimensions are in inches (mm)

Door-Control location for 1 3/4" (44mm.) thick doors hung on 4 1/2" (114mm.) wide template-hinges or 3/4" (19mm.) offset-pivots.

Figure 4.

Arm Number Stamp	NON-HOLDER	J6600-4	J6200-4	J6100-4	J6400-4	J6500-41	J6500-42	J6500-43	
	HOLD-OPEN	J6600-7	J6200-7	J6100-7	J6400-7	J6500-71	J6500-72	J6500-73	
Reveal	inches	0-3/8	1/2-2	2-1/8-3-1/4	3-3/8-4-1/4	4-3/8-5-3/8	5-1/2-6-3/8	6-1/2-7-3/8	
	mm.	0-10	13-50	55-83	85-108	111-137	140-162	165-187	
Door Opening Angle		Dimension A		Dimension A		Dimension A		Dimension A	
Hold Open	Door Stop	inches	mm.	inches	mm.	inches	mm.	inches	mm.
85°	90°	9-3/4	248	9-7/8	251	9-3/4	248	10	254
90°	95°	9	229	9-1/4	235	9-1/8	232	9-1/2	241
95°	100°	8-3/8	213	8-3/4	222	8-1/2	216	8-7/8	225
100°	105°	7-7/8	200	8-1/4	210	8	203	8-1/4	210
105°	110°	7-1/2	191	7-3/4	197	7-3/4	197	8	203
110°	115°	7-1/8	181	7-3/8	187	7-3/8	187	7-5/8	194

Door-Control location for 1 3/4" (44mm.) thick doors hung on center pivots.

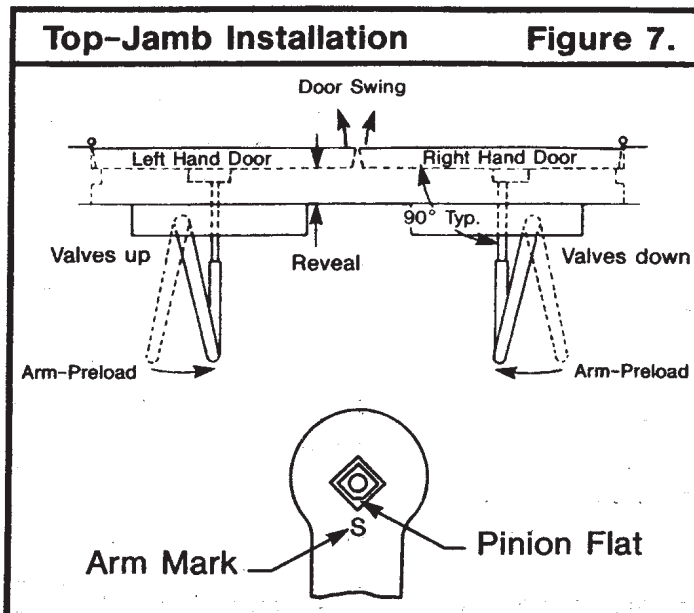
Figure 5.

Arm Number Stamp	NON-HOLDER	J6600-4	J6200-4	J6100-4	J6400-4	J6500-41	J6500-42	J6500-43	
	HOLD-OPEN	J6600-7	J6200-7	J6100-7	J6400-7	J6500-71	J6500-72	J6500-73	
Reveal	inches	0-3/8	1/2-2	2-1/8-3-1/4	3-3/8-4-1/4	4-3/8-5-3/8	5-1/2-6-3/8	6-1/2-7-3/8	
	mm.	0-10	13-50	55-83	85-108	111-137	140-162	165-187	
Door Opening Angle		Dimension A		Dimension A		Dimension A		Dimension A	
Hold Open	Door Stop	inches	mm.	inches	mm.	inches	mm.	inches	mm.
85°	90°	10-1/8	257	10-1/4	260	10-1/4	260	10-1/2	267
90°	95°	9-5/8	244	9-5/8	244	9-5/8	244	10	254
95°	100°	9	229	9-1/4	235	9-1/8	232	9-3/8	238
100°	105°	8-1/2	216	8-5/8	219	8-5/8	219	8-7/8	225
105°	110°	8	203	8-1/4	210	8-1/8	206	8-1/2	216
110°	115°	7-5/8	194	7-3/4	197	7-7/8	200	8-1/8	206

Preparation for Fasteners

Figure 6.

Fasteners	Application	Door or Frame	Drill Sizes
Sex-nuts and bolts	Arm-foot, (closer plate in flush partition)	Hollow-Metal	9/32" (7.00mm.) through 3/8" (9.50mm.) door-face opposite to closer
		Aluminum or Wood	3/8" (9.50mm.) through
#14 X1-1/4" (32mm.) type "A" S.M. screws	Closer plate	Wood	3/16" (4.30mm.)
1/4-20 machine screw		Metal	drill: #7 (.201") tap: 1/4-20
Through-bolts and grommet-nuts	Optional	All	9/32" (7.00mm.) through 3/8" (9.50mm.) dia. X 3/8" (10mm.) deep, door-face opposite to closer

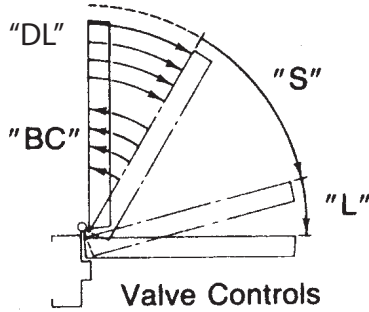


Installation Sequence	Remarks
Set average-power of multisize closer (Series UNI-TJ4400 multi-size Only)	Use "Multi-size Closer Sizing Chart" (figure 2).
See figure 3 and select template dimensions Note: Separate template required for other applications	1 3/4" (44mm.) thick door on 4 1/2" (114mm.) wide hinges or 3/4" (19mm.) offset-pivots: figure 4. 1 3/4" (44mm.) thick door on center-pivots: figure 5. 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 trim face, stop-side.	Four (4) for 486 backplate.
Locate holes on door	Two (2) for arm-foot.
Prepare door and frame for fasteners.	See chart "Preparation for Fasteners" (figure 6). Note: Use sex-bolts in frames of flush partitions.
Mount closer plate and install closer with power-adjustment-nut toward lock-stile.	Right hand-valves down Left hand-valves up
Disassemble rod-unit from arm-assembly and install on door.	Rod under shock-absorber and closest possible to lock-stile (see figures 3 and 7)
Mount main arm onto closer pinion shaft, aligning proper arm mark with pinion flat. Secure with main arm screw.	Arm Mark "S" See figure 7.
Insert connecting-rod into slide-unit and preload arm. Secure with rod-screws.	Adjust rod to perpendicular with door. See figure 7.
Adjust closer and install cover.	See "Unit Adjustment" on back page.

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Hydraulic Control

Figure 5.



Note: All valves adjustable with 1/8" hex-key furnished in screw pack.

Unit Adjustment

Closing Speed Controls (Figure 6)

- Valve "S" Controls Sweep Range
- Valve "L" Controls Latch Range
- Valve "D" Controls Optional Delay Range

Opening Speed Controls (Figure 7)

- Backcheck ("BC") valve controls the hydraulic resistance to door opening. NEVER close this valve completely - it is not to provide a positive stop.

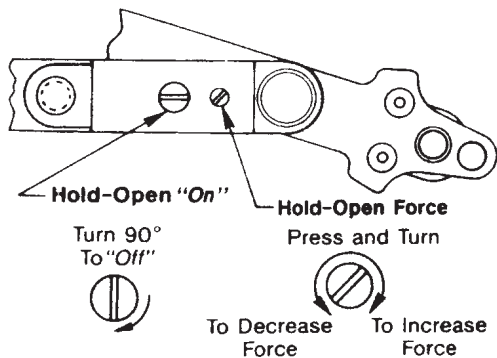
- Backcheck position ("P") valve controls the door angle where backcheck cushioning starts. Valve is normally closed.

Closing Power Control (Figure 8)

- 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 below.

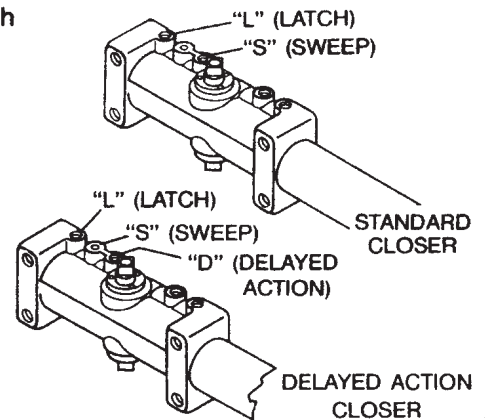
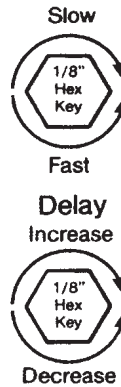
Hold-Open Controls



Closing Speed Controls

Figure 6.

Sweep & Latch

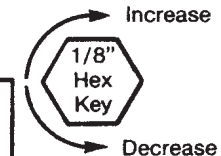
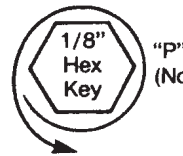


Backcheck Controls

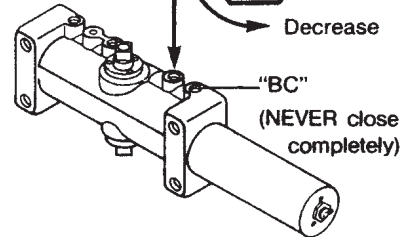
Figure 7.

Backcheck Position

Backcheck Cushion

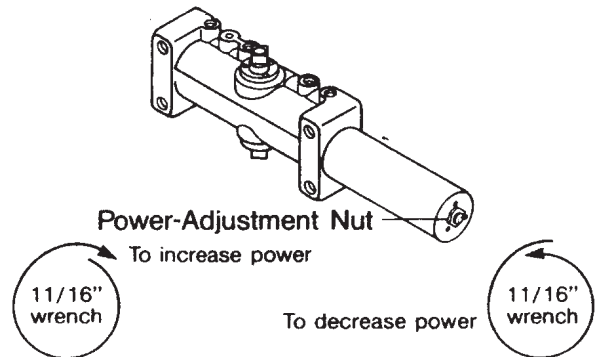


Open for backcheck later in door-opening cycle.



Closing Power Control

Figure 8.



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