



Installation Instructions

80-9350-2517-010 (06-09)

Non Handed Door Closers

Non Hold Open &
Hold Open (TJ150) Models

UNI Stop/Holder

UNI-TJ50BC Series

Sized Closers

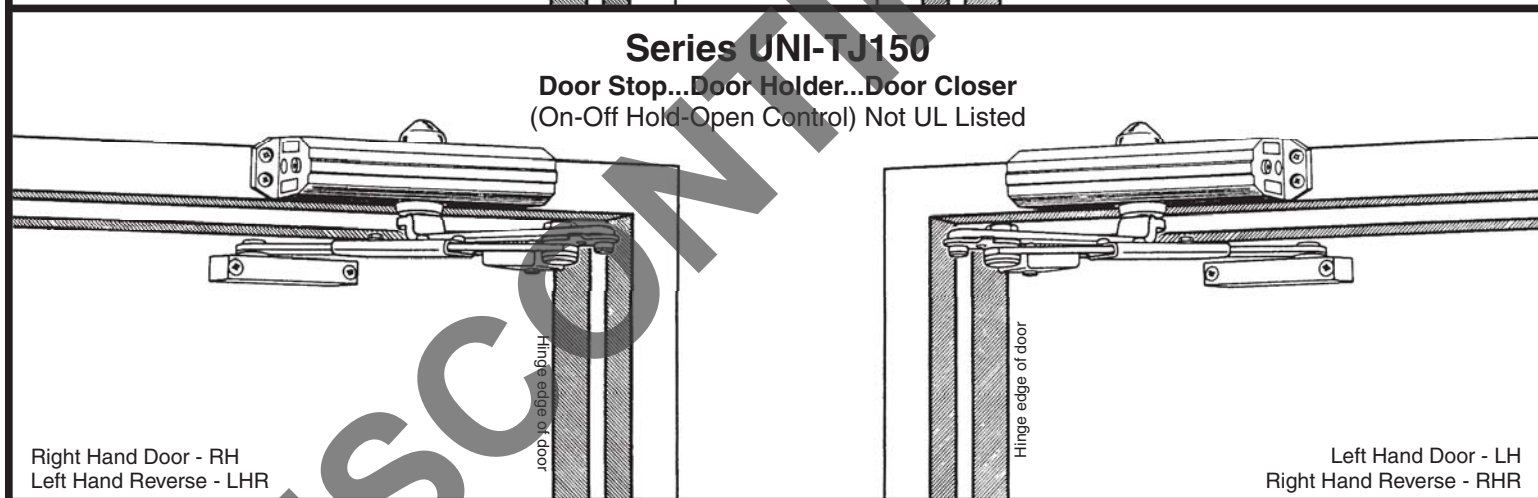
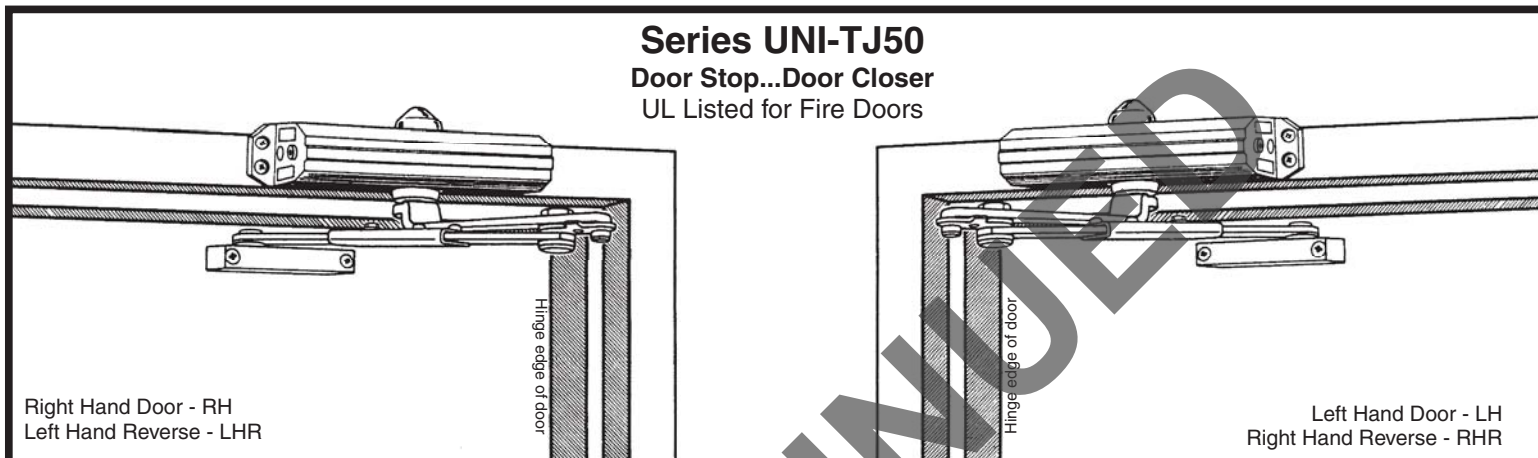
UNI-TJ51(BF) Series

Multi-Sized Closers

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.

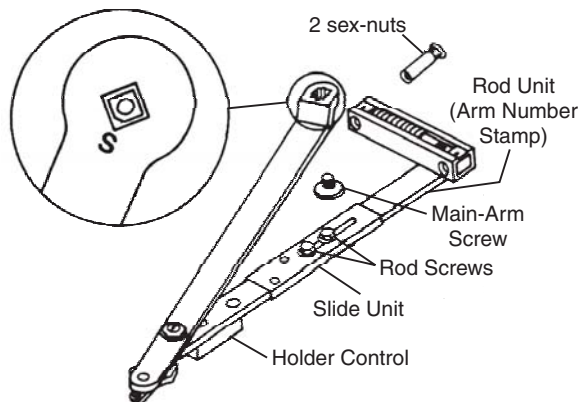
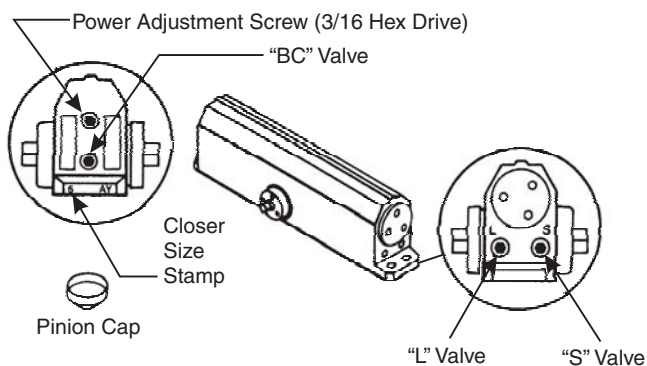
Sized (Sizes 2,3,4,5,6)	
UNI-TJ52BC	UNI-TJ152BC
UNI-TJ53BC	UNI-TJ153BC
UNI-TJ54BC	UNI-TJ154BC
UNI-TJ55BC	UNI-TJ155BC
UNI-TJ56BC	UNI-TJ156BC

Multi-Sized (Sizes 3 thru 6)
UNI-TJ51
UNI-TJ151
(Sizes 1 thru 4)
UNI-TJ51BF
UNI-TJ151BF



- NOTE: For special applications a separate door and frame preparation template is packed with these instruction. Use this instruction sheet for installation sequence and closer adjustments only.
- It is recommended that the door, on which the door closer will be installed, be hung on ball bearing hinges. Door must swing freely.
- Door and Frame must be properly reinforced, or use of special fasteners employed, to prevent the mounting screws from pulling out.
- All dimensions are given in inches with corresponding metric dimensions (millimeters) in parenthesis.

Components



Optional Cover

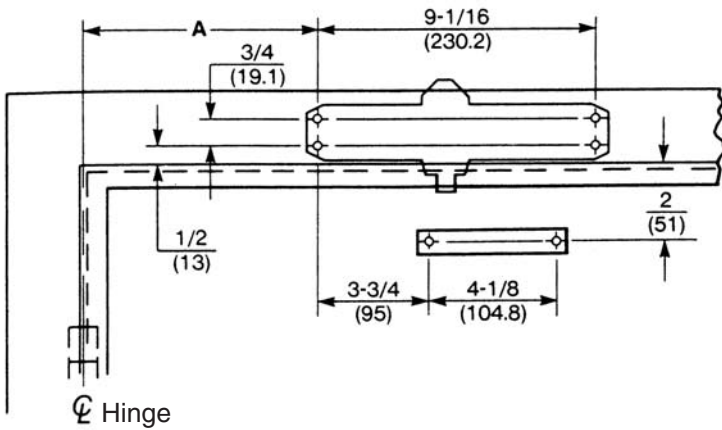


Optional Thru-Bolt & Grommet Nuts



Hollow-Metal or Wood Openings

Template

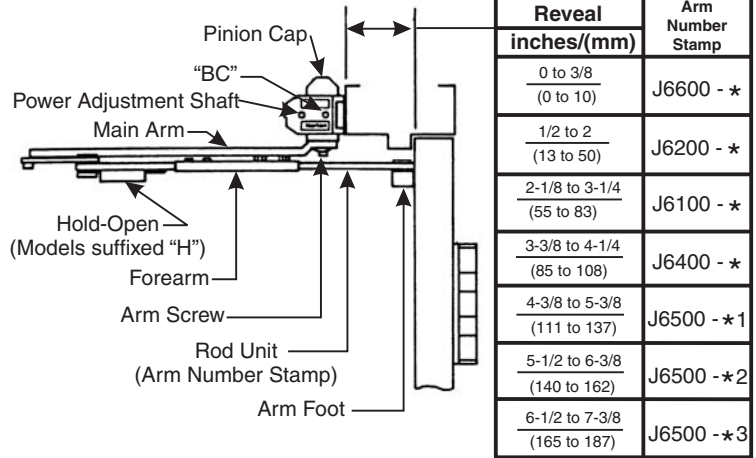


Opening		Dimension "A"	
Hold-Open	Stop	inches	mm.
85°	90°	9-1/8	232
90°	95°	8-3/8	213
95°	100°	7-3/4	197
100°	105°	7-3/8	187
105°	110°	6-3/4	171
110°	115°	6-1/2	165

Installation Sequence

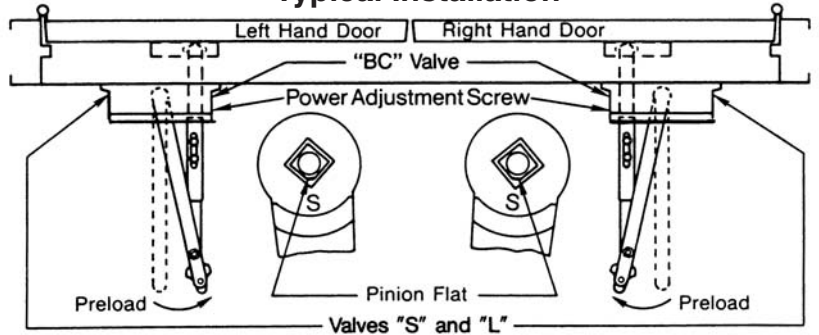
- This page for installation on hollow-metal or wood. For aluminum doors and frame use page 3.
- Select door opening angle using template above. Mark 4 holes on frame face for closer and 2 holes on door for arm foot.
- Prepare door and frame for fasteners. See "Preparation for Fasteners" below.
- **51 and 51BF Models Only. Set 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.
- Reassemble arm. Adjust forearm perpendicular (at a 90° angle) to door. Tighten rod screws.
- Snap pinion cap in place.
- Adjust closer.

Side Elevation



* "4" Non-Holder Models
"7" Hold-Open Models

Typical Installation



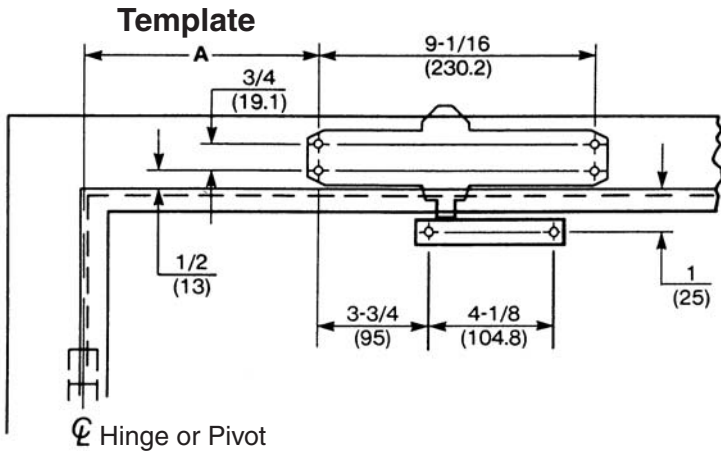
Preparation for Fasteners

Frame	Door	Fasteners	Drill
metal	Does not apply	1/4"-20 machine screw	#7 (.201" dia.) or 5.10mm. drill... 1/4-20 tap
wood		#14 type "A" sheet metal screw	3/16" (4.30mm.)
Does not apply	Hollow-metal	SNB	9/32" (7.00mm.) thru... 3/8" (9.50mm.) door face opposite to closer
	aluminum or wood		3/8" (9.50mm.) thu

Cover

Thread in screws before mounting closer. Leave enough gap between the head of the screw and the closer to slide the cover on. Slide the cover over the closer and secure the mounting screws after the closer has been mounted and adjusted.

Aluminum Openings

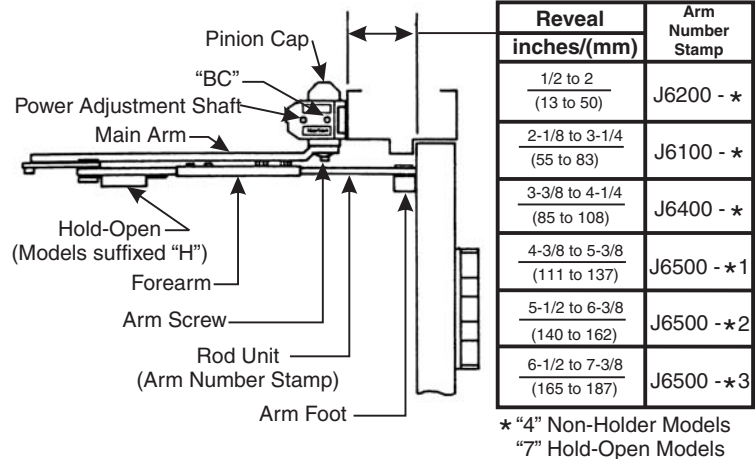


Opening		Dimension "A"	
Hold-Open	Stop	inches	mm.
85°	90°	9-1/8	232
90°	95°	8-3/8	213
95°	100°	7-3/4	197
100°	105°	7-3/8	187
105°	110°	6-3/4	171
110°	115°	6-1/2	165

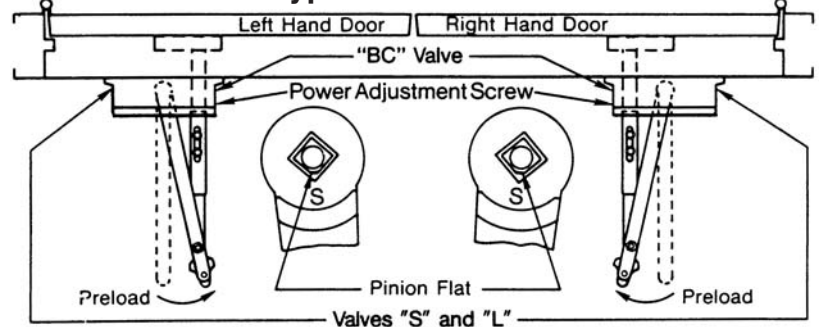
Installation Sequence

- This page for installation on aluminum doors and frames only.
- 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" at bottom of page 2.
- **51 and 51BF Models Only. Set 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.
- Reassemble arm. Adjust forearm perpendicular (at a 90° angle) to door. Tighten rod screws.
- Snap pinion cap in place.
- Adjust closer.

Side Elevation

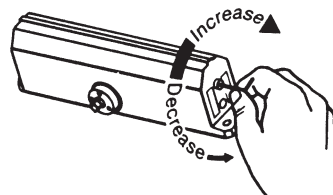
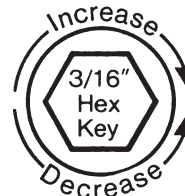


Typical Installation



Power Adjustment Chart							
DOOR	TOP JAMB INSTALLATION	*	MAXIMUM DOOR SIZE				
			34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
INT	51BF	FULL 360° TURNS OF POWER ADJUSTMENT SHAFT	1	1	2	3	3
EXT			5	6	8	NOT RECOMMENDED USE 51	
INT	51	FULL 360° TURNS OF POWER ADJUSTMENT SHAFT	2	4	6	9	11
EXT			3	5	7	10	13

* 18 - 360° TURNS MAXIMUM AVAILABLE

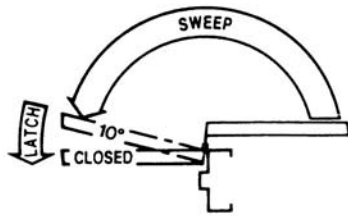


Unit Adjustment

Closing Speed Controls

- Valve "S" Controls Sweep Range
- Valve "L" Controls Latch Range

Attention: Adjust Closing Speed Time to between 4 to 7 seconds from 90°. Use of the door by handicapped, elderly or small children may require greater closing time. ADA code requires that door take at least 3 seconds to close from 70° of door opening to within 3" (75mm.) of the closed position.

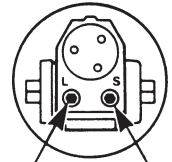
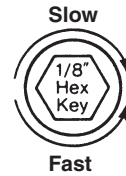


Standard Closing Cycle

Figure 1.

NOTE: By law the Americans with Disabilities Act (ADA) may require that door closer installation comply with accessibility guidelines.

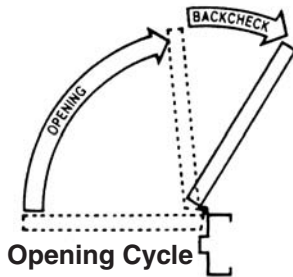
CAUTION:
DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT.



"L" Valve "S" Valve

Opening Door Control

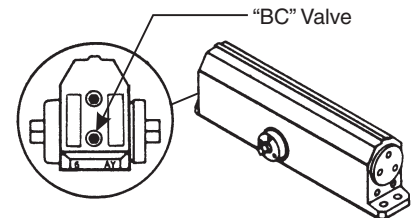
- Backcheck ("BC") valve controls the hydraulic resistance to door opening in backcheck range. NEVER close this valve completely - it is not to provide a positive stop.



Opening Cycle

Figure 2.

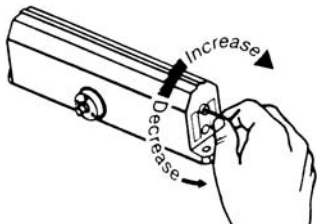
CAUTION:
DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT.



"BC" Valve

Closing Power Control

Figure 3.



Adjust as required. Product is shipped at lowest power setting.

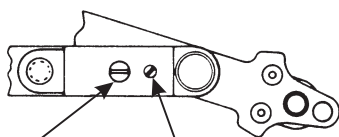
Power Adjustment Chart

DOOR	PARALLEL ARM INSTALLATION	*	MAXIMUM DOOR SIZE				
			34" (0.85M)	36" (0.90M)	40" (1.00M)	44" (1.10M)	48" (1.20M)
INT.	TJ51BF	FULL 360° TURNS OF POWER ADJUSTMENT SHAFT	2	2	3	4	5
EXT.			8	9	12	NOT RECOMMENDED USE TJ51	
INT.	TJ51	FULL 360° TURNS OF POWER ADJUSTMENT SHAFT	3	5	7	10	13
EXT.			5	7	10	14	16

* 18 - 360° TURNS MAXIMUM AVAILABLE

Door Holder Option

Figure 4.



Hold-Open "On"

Hold-Open Force

Turn 90° To "Off"



Press and Turn



To Decrease Force

To Increase Force

Hold-Open option is found at the arm elbow. To select hold-open "on" or hold-open "off" and to adjust the hold-open force...use screwdriver as illustrated.

Yale

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