

Description:

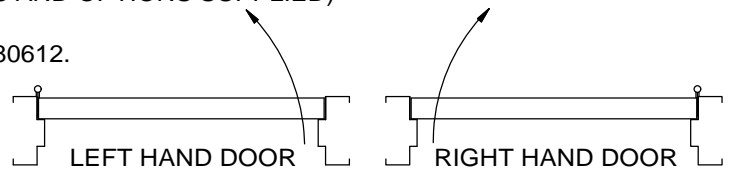
TS93 STH PULL SIDE TRACK MOUNT



1 (REFERENCE UNIT CARTON LABEL FOR ACCESSORIES AND OPTIONS SUPPLIED)

Determine hand of door and degree of deadstop required.

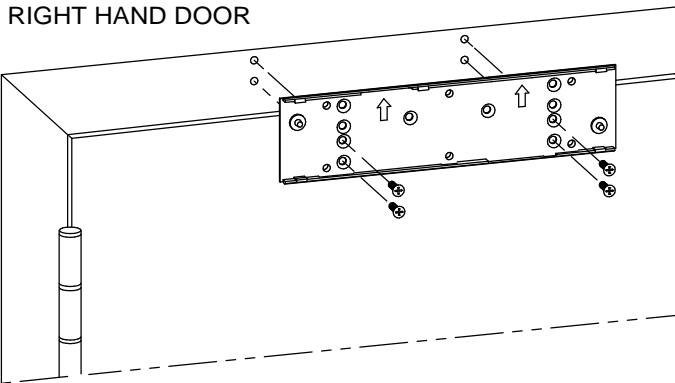
Prepare door and frame for fasteners according to template 08280612.



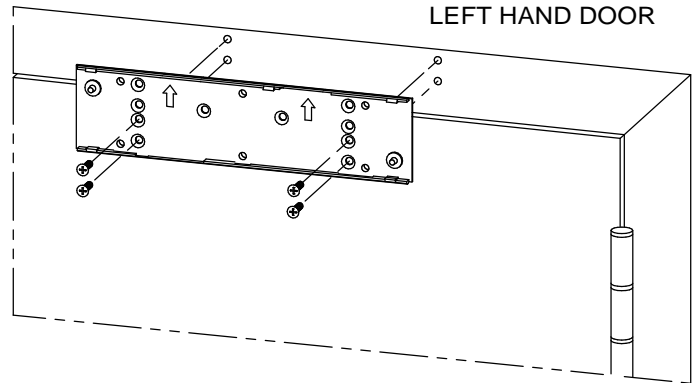
2 Attach mounting plate to frame using lower four holes in plate. Arrows on plate point up.

QTY (4)		METAL FRAME	QTY (4)		WOOD FRAME
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RIGHT HAND DOOR

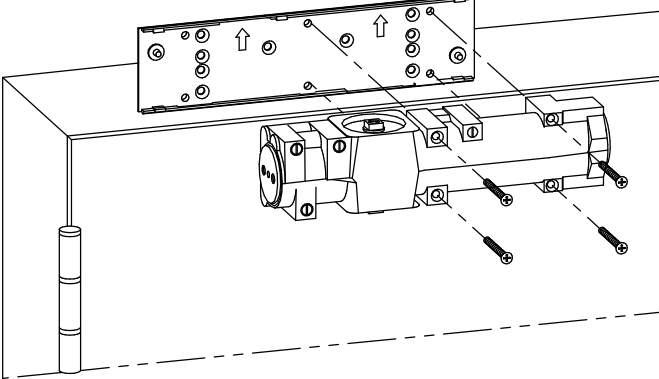


LEFT HAND DOOR

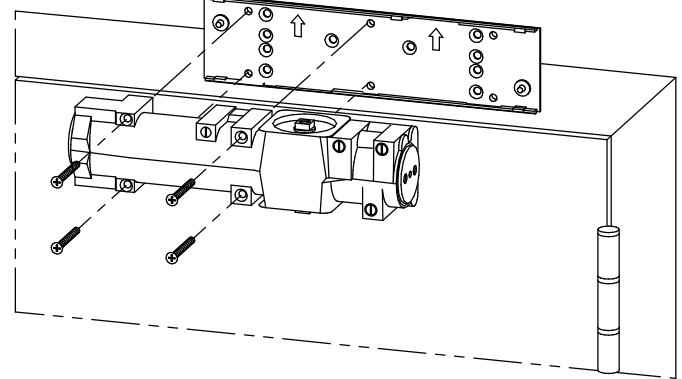


3 Attach closer to mounting plate.

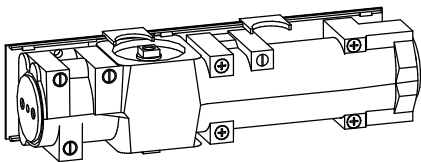
RIGHT HAND DOOR



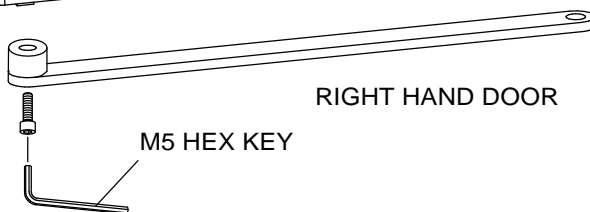
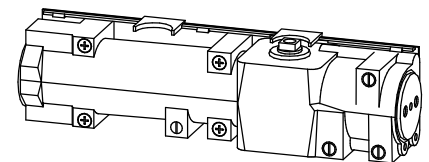
LEFT HAND DOOR



4 Attach arm to pinion of closer, parallel to door.

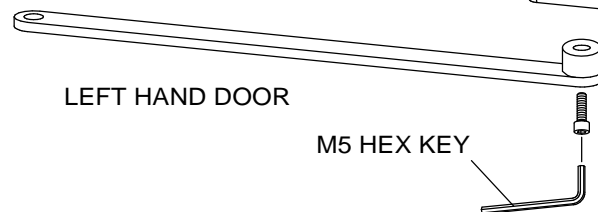


QTY (1)	
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RIGHT HAND DOOR

M5 HEX KEY



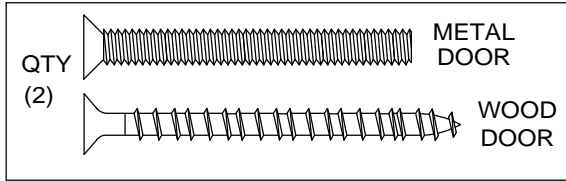
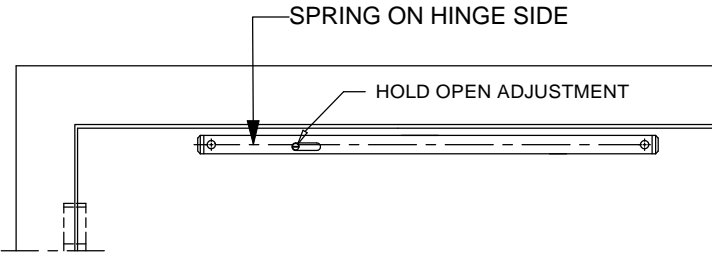
LEFT HAND DOOR

M5 HEX KEY

5 Assemble track and attach to door.

Insert slide shoe and end blocks into track with spring block near the hinge side of door frame.

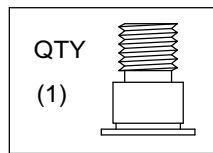
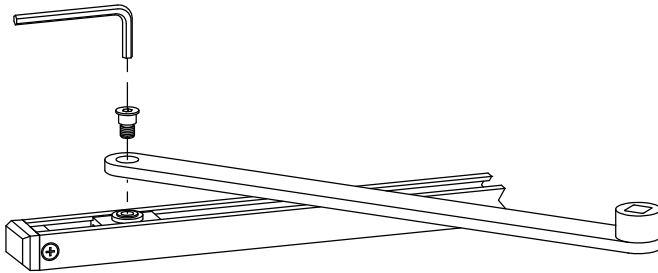
Attach track to door using track mounting screws.



6 Attach arm to slide shoe.

Align hole in arm with slide shoe in track. Insert screw and tighten securely. Install track cover.

M5 HEX KEY

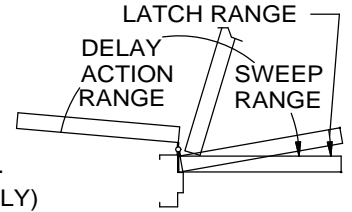


7 Adjust sweep, latch, backcheck and delayed action valves.

CAUTION: DO NOT REMOVE VALVES.

DECREASE INCREASE

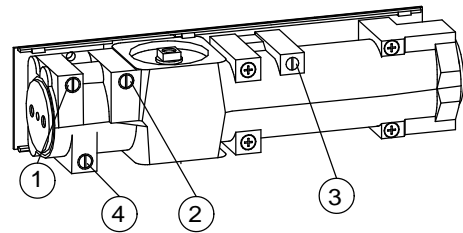
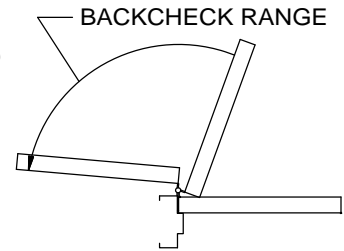
- ① - SWEEP speed from 70° to 0°
- ② - LATCH speed from approx. 7° to 0°.- (INCREASE ONLY)
- ④ - DELAY speed from max opening 180° to 70°



BACKCHECK (INTENSITY)

INCREASE DECREASE

- ③ - BACKCHECK cushion effect.
- CAUTION: DO NOT CLOSE VALVE COMPLETELY.

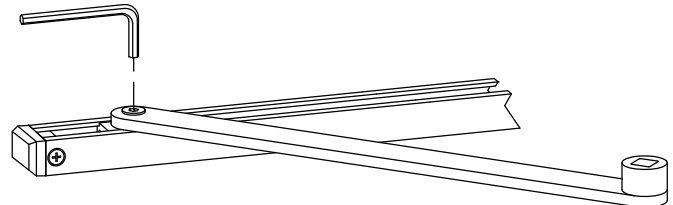


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ADDITIONAL INSTRUCTIONS (HOLD-OPEN UNITS):

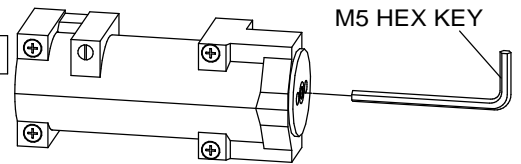
1. Adjust hold-open to on or off position. One direction on, opposite direction off.
2. Adjust the holding force by inserting a 5/64" hex key into the slide shoe bolt. Turn clockwise to increase or counterclockwise to decrease holding force.
3. Open door until slide shoe engages with hold-open.
4. To release the door, pull until the slide shoe disengages.

5/64" HEX KEY



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Adjust spring tension, if required.

CRITICAL**CAUTION: DO NOT OVERTIGHTEN**

M5 HEX KEY

NOTE: TS93-1 supplied with a size 2 spring setting.
 REFERENCE LABEL ON CLOSER FOR MINIMUM/MAXIMUM SETTINGS
 BARRIER-FREE OPENINGS -

Take an opening force reading from the pull on the door. If required, adjust the spring tension to meet the barrier-free requirement. Maximum number of turns counter clockwise=5. Maximum number of turns clockwise =12. Depending on opening conditions, a door adjusted to meet barrier-free forces may not have sufficient power to reliably close and latch the door.

TS93-1	DOOR WIDTH		FULL TURNS OF SPRING ADJUSTER	CLOSER SIZE
	INT.	EXT.		
	2'6"	---	0	2
	3'	2'6"	+3	3
	3'6"	3'	+9	4
	4'	3'6"	+12	5

NOTE: TS93-5 supplied with a size 6 spring setting.
 Maximum number of turns clockwise = 6
 Adjust according to chart.

TS93-5	DOOR WIDTH		FULL TURNS OF SPRING ADJUSTER	CLOSER SIZE
	INT.	EXT.		
	4'	3' 6"	-4	5
	4' 6"	4'	0	6

NON-BARRIER-FREE OPENINGS:

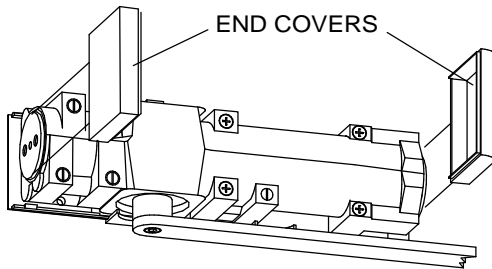
ULC LABELED UNITS "ONLY"

Adjust according to chart.

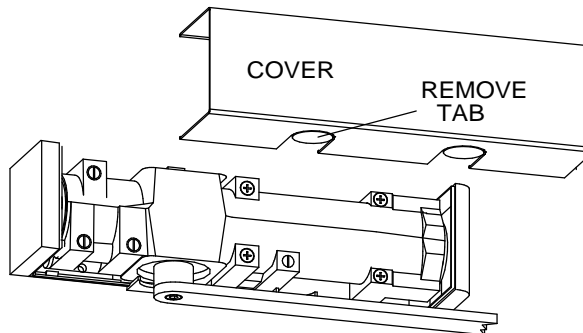
CLOSER TYPE	MAX. DOOR WEIGHT (LBS)	SPRING SIZE	FULL TURNS OF SPRING ADJUSTER
TS93-1	100	2	0
	125	3	+3
	150	4	+9
	200	5	+12
TS93-5	200	5	-4
	250	6	0

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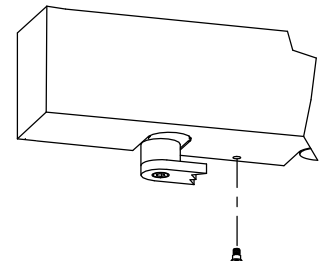
Install cover.



Slide end covers over closer body end caps.



Remove tab that aligns with arm hub. Slide cover onto plate.



Secure with locking screw.