

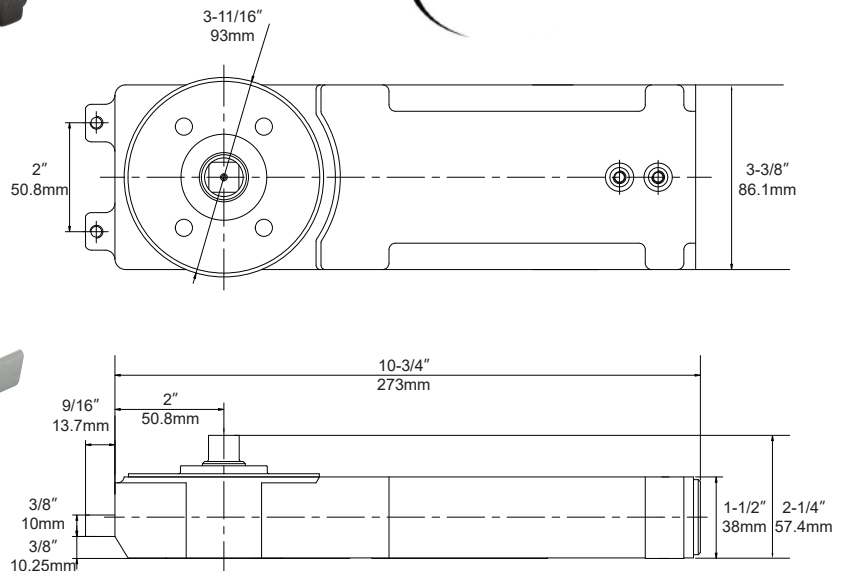
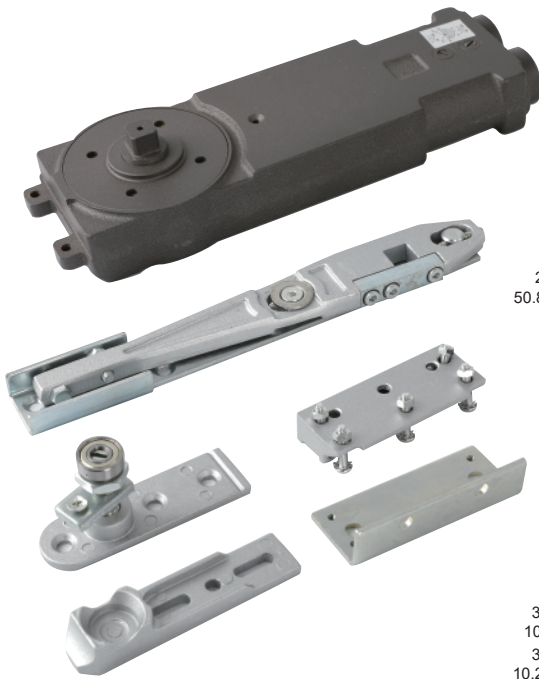
CTDCH120

Heavy-Duty 90 Degree Hold open Overhead Concealed Door Closer



ALWAYS REFERENCE DIMENSIONS
TO ENSURE ACCURACY

*Not shown to scale.



Specifications:

Material: Steel(Body)/Stainless steel(Coer)
Bottom Pivot Type: Threshold Mount Pivot
Body Height: 1-1/2" (38mm)
Handing: Double Acting

Max Door width: 1100mm
Arm Type: Side Load
Body Length: 10-3/4" (273mm)
Type: Center Hung

MAX.Door Weight: 264.5lbs(120kg)
Closer Type: Overhead Concealed
Body Width: 3-3/8" (86.1mm)
ANSI Listed: YES

Product Overview:

- Maximum suitable for doors up to 1100mm wide.
- Threshold Mount Pivot
- 5 years limited warranty
- ANSI Listed

Recommendations:

To ensure public safety, we strongly advise using only tempered safety glass.

UNIKOO LIMITED WARRANTY:

- UNIKOO warrants its commercial hardware for a period of 5 years from the date of purchase. UNIKOO commercial hardware is warranted against material and workmanship defects.
- All warranty claims are subject to inspection by UNIKOO before providing a resolution against the warranty claim.
- This warranty is void if it is determined after UNIKOO inspection that the Hardware has been improperly installed and/or maintained in a manner not conforming to UNIKOO guidelines and instructions provided at time of purchase.
- UNIKOO's responsibility to provide a resolution under said warranty will be limited to a refund of purchased price or provide a replacement for the hardware.
- The refund or replacement will constitute UNIKOO's limited liability and obligation for any and all defective material/workmanship for said warranty claim.
- THIS WARRANTY IS EXCLUSIVE AND UNIKOO MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED.

CTDCH120
























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PARTS LIST

	Door closer	x1		Screw E with washer	x2
	"S" Type Side Loading Arm	x1		Screw F	x2
	Pivot Stud and Bearing & Hex Lock Nut & Jam Nut	x1		metal plate	x2
	Closer Mounting Bracket	x2		Screw G	x3
	pivot bearing retainer	x1		expansion bolt	x3
	Angle Bracket	x1		Screw F	x1
	Screw A	x8		Nut for Screw F	x1
	Nut for screw A	x8		Screw G with washers	x4
	Screw B	x4		Screw H	x2
	Screw C with washer	x4		Washer large	x2
	Screw D	x6		Washer small	x2
	washer & Nut for Screw D	x2			

INSTALLATION INSTRUCTION

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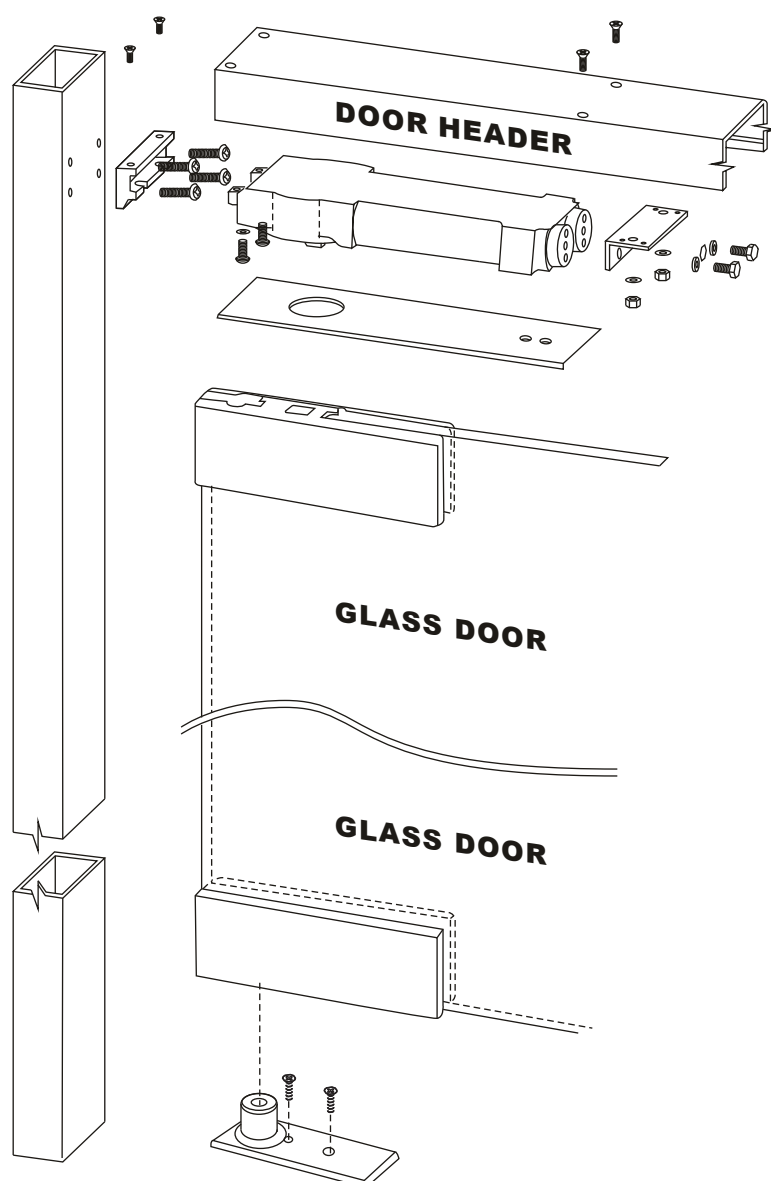


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A. OVERHEAD CLOSER PAIRED WITH DOOR PATCH

- ◇ CENTER-HUNG FOR DOUBLE OR SINGLE ACTION DOORS
- ◇ SIDE LOADING INSTALLATION
- ◇ DUAL VALVES FOR LATCHING AND CLOSING SPEED ADJUSTMENT



The door patch needs to be purchased separately.

IMPORTANT

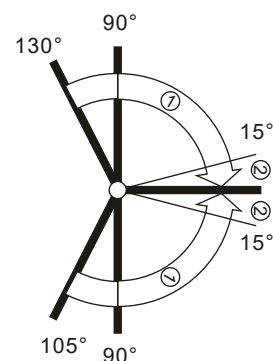
NO responsibility can be accepted by the manufacturers if these installation instructions are disregarded

After closer is installed into the DOOR HEADER, do not drill in this area for it may damage closer.

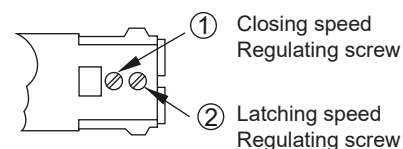
PROPOSAL for DOOR CLEARANCE

Both of door stile	1/8"(3mm)
top door rail	1/8"(3mm)
Bottom door rail	3/16"(4.8mm)

SPEED ADJUSTMENT



- ① CLOSING RANGE (130°-15°)
- ② LATCHING RANGE (15°-0°)



- ① CLOSING ② LATCHING

Speed adjustment



Faster Slower

Max. 2 turns in either direction

CTDCH120

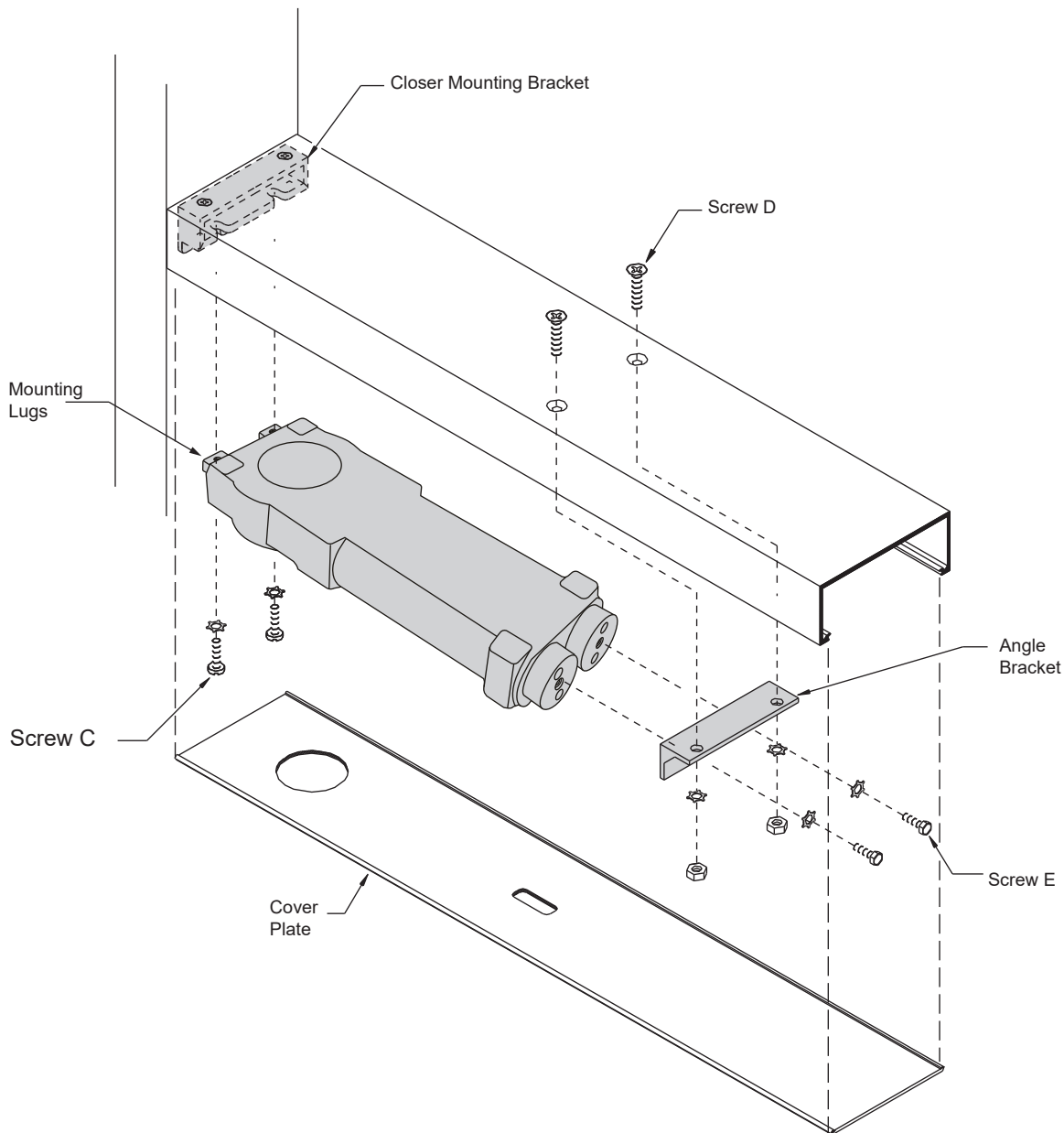
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OVERHEAD CONCEALED DOOR CLOSER



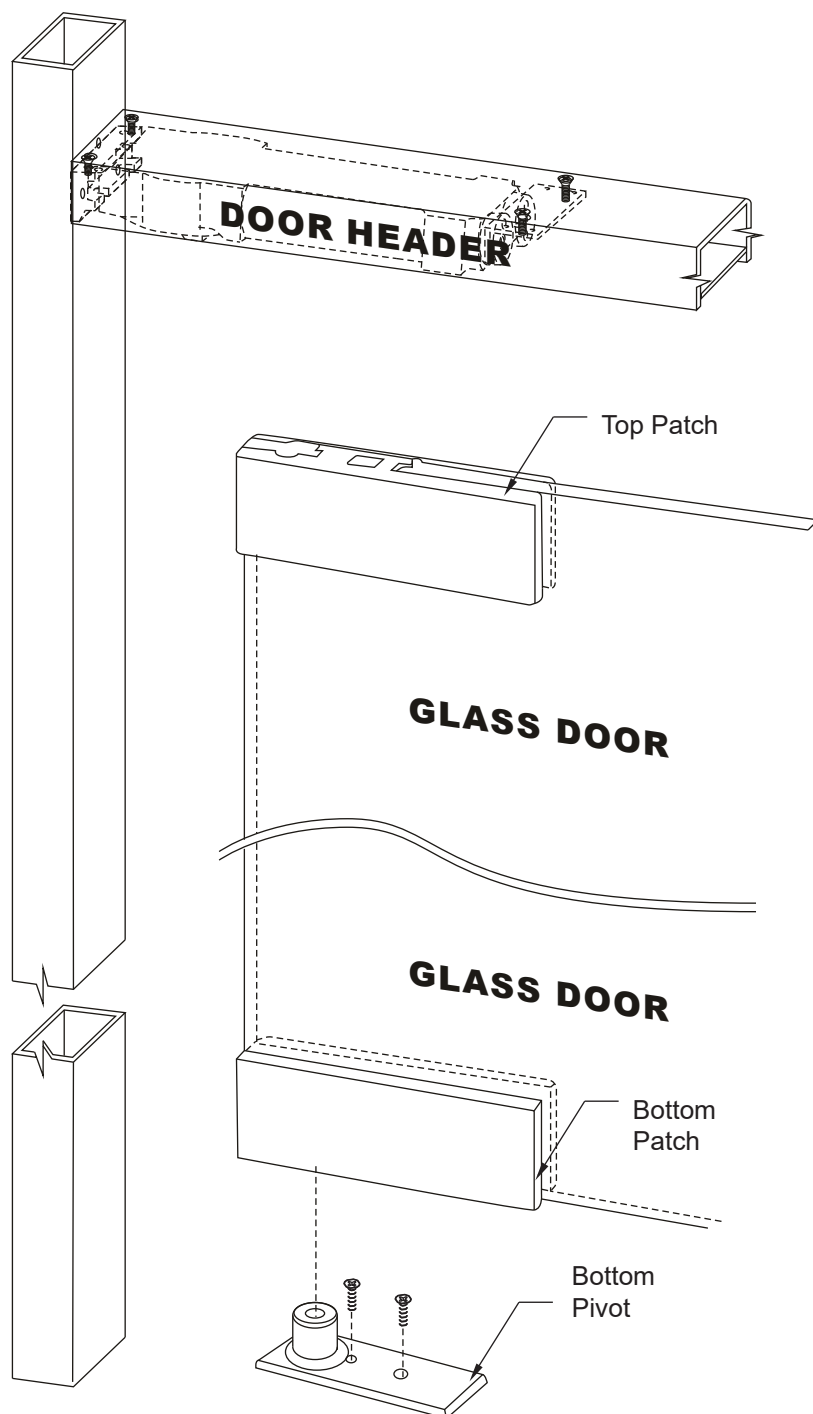
Closer mounting bracket is already installed.

1. Mount angle bracket to door closer with 2 Hex Head Cap screw and 2 lock washers.
2. Install 2 Round Head MS into lugs of closer. Do not tighten screws.
3. Install 2 FH SMS in header.
4. Insert closer lugs into mounting bracket slot at an angle and raise closer opposite end to align mounting screws with angle bracket holes. Secure bracket to mounting screws using 2 nuts and washers.
5. Tighten Round Head Screws.
6. Snap-In Cover Plate.

**A. OVERHEAD CLOSER PAIRED WITH DOOR PATCH**

Over head concealed door closer is already installed.

1. Install the bottom pivot with screws.
2. Install the top and bottom door patches on the glass.
3. Attach the door and bottom patch to the bottom pivot.
4. Connect and fix the top patch to the overhead closer.



INSTALLATION INSTRUCTION

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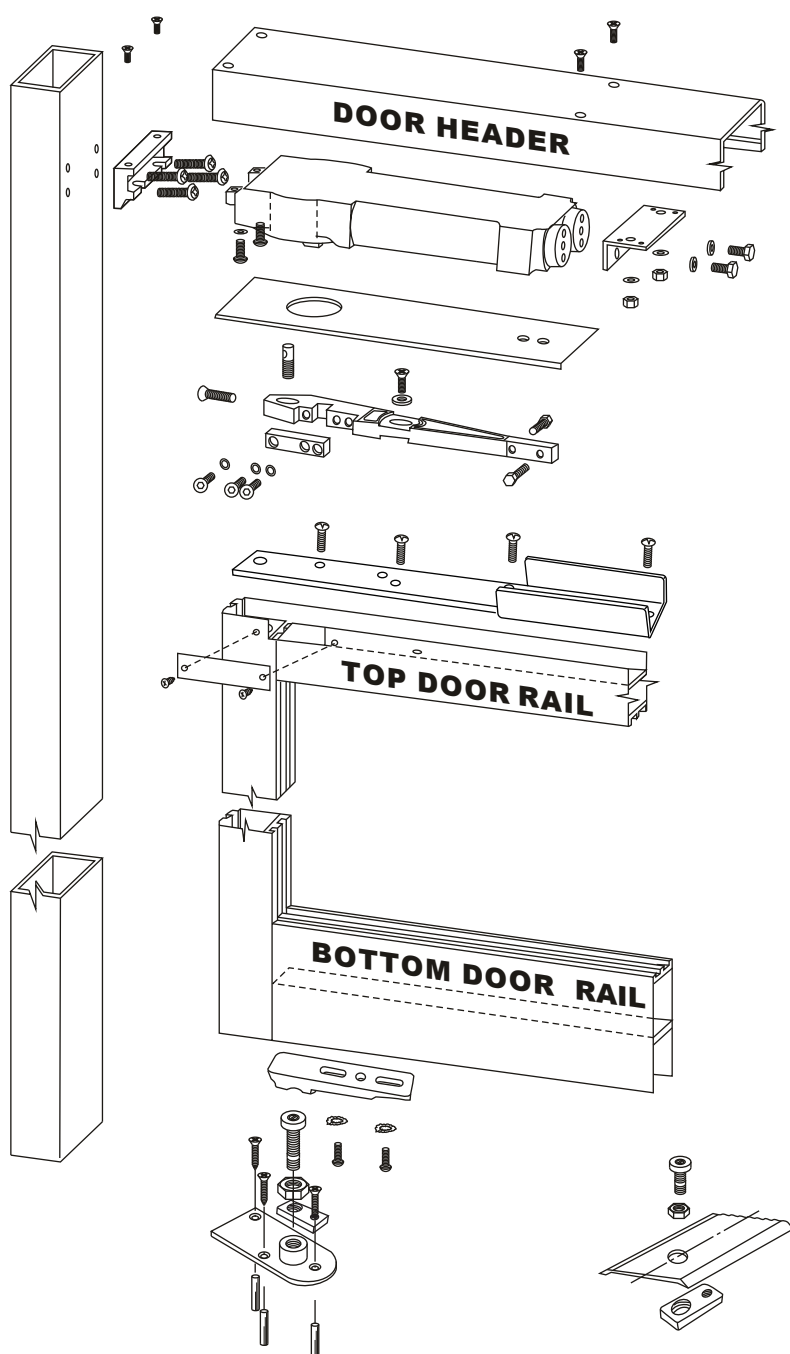


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B. OVERHEAD CLOSER PAIRED WITH ALUMINUM DOOR FRAME (SIDE LOADING)

Complete closer kits include: Closer body, mounting clips, Top arm assembly and adjustable dual purpose bottom pivot set.



IMPORTANT

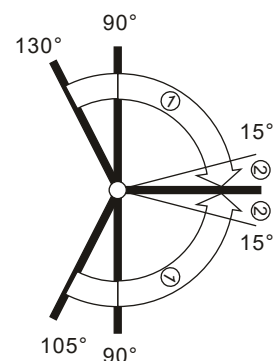
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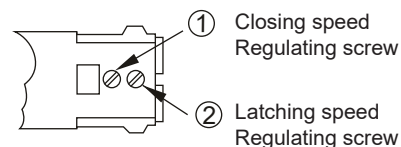
PROPOSAL for DOOR CLEARANCE

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top door rail	1/8"(3mm)
Bottom door rail	3/16"(4.8mm)

SPEED ADJUSTMENT

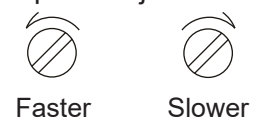


- ① CLOSING RANGE (130°-15°)
- ② LATCHING RANGE (15°-0°)



- ① CLOSING
- ② LATCHING

Speed adjustment



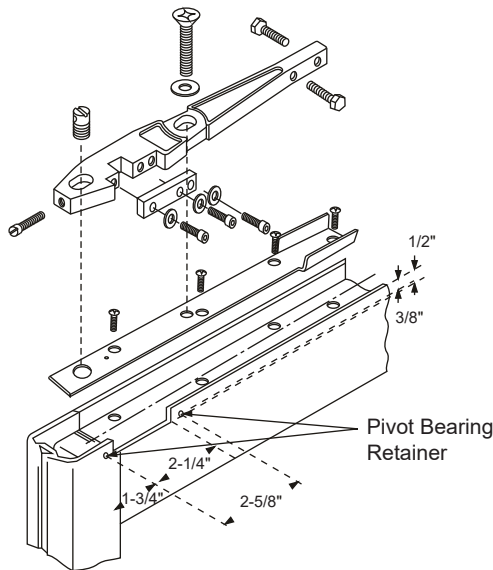
Max. 2 turns in either direction



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B. OVERHEAD CLOSER PAIRED WITH ALUMINUM DOOR FRAME (SIDE LOADING)



TOP DOOR RAIL

"S" Type Side Loading Arm

Drill or drill and tap holes in top of door as shown.

Make 2 1/4" x 1/2" cut-out in top of door as shown. Cut-out must be on the inside of the door.

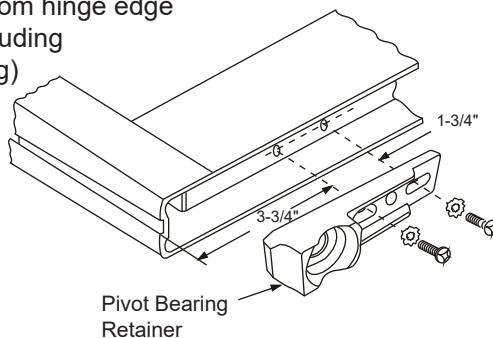
Install arm using 1/4-20 x 11/4" flat head machine screw and 7/8" washer. Install 1/2-13 x 3/4" arm stud and 1/4-20 x 11/8" dome head arm adjustment screw. Laterally adjust center of the arm spindle retainer 25/8" from hinge edge of door (not including weatherstripping). Center arm in the top rail by adjusting the two 1/4-20 x 1" hex head centering bolts. After installation of door, attach dress plate with self-threading screws.

NOTE: before attaching dress plate, make certain the three 1/4-20 x 7/8" socket head clamp bar screws with lock washers are tightened securely.

BOTTOM DOOR RAIL

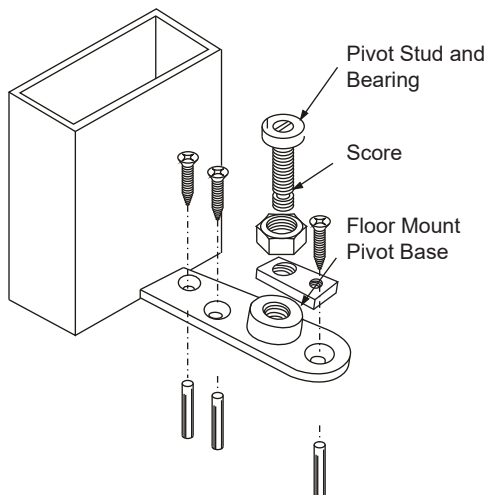
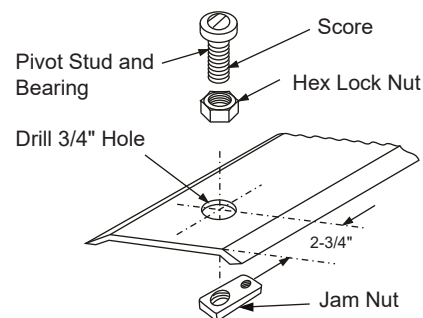
Drill and tap 1/4-20 holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two 1/4-20 x 5/8" pan head machine screws and lock washers.

Laterally adjust center of pivot bearing retainer 25/8" from hinge edge of door (not including weatherstripping) and tighten screws securely.



THRESHOLD MOUNT

Drill hole in threshold as shown. Install hex lock nut from top and secure with jam nut underneath. Install pivot stud and bearing with hex lock nut as shown and adjust bearing height for proper door clearance and firmly tighten lock nut.



FLOOR MOUNT PIVOT

Center pivot base against door jamb on hinge side. Mark and drill 1/4" holes 11/2" deep in floor for plastic expansion plugs. Mount base using #12 x 11/4" plastic expansion plugs and #12 x 11/4" flat head wood screws.

Install pivot stud and bearing with 1/2-20 hex lock nut as shown, and adjust bearing height for proper door clearance and firmly tighten lock nut.

When using threshold, drill 1 1/4" hole for clearance of pivot base on center line 23/4" from hinge end of threshold.

NOTE: When threshold is not used, pivot bearing stud must be shortened by sawing off at score 1/2" from bottom