

END LOADING

TOP DOOR RAIL
"A" Type End Loading Arm
Make a 1" (25.4mm) deep cut-out in hinge edge of door as shown.
"PT" Type End Loading Arm
Make a 7/8" (22mm) deep cut-out in hinge edge of door as shown.
Drill or drill and tap holes in top of door as shown.
Position arm in door by placing arm pin in 3/16" (5mm) hole. Install arm using three 1/4-20x5/8" (M6x1.0) pan head machine screws and lock washers. Center arm in the top rail by adjusting the two 1/4-20x1" (M6x1.0) hex head centering bolts.
NOTE: After door is installed, the two 1/4-20 x1" (M6x1.0) socket head clamp bar cap screws with lock washers must be tightened securely.

BOTTOM DOOR RAIL
End Loading
Make cut out in hinge edge of door equal to depth of bottom rail as shown.
Drill and tap 1/4-20 (M6x1.0) holes in bottom rail of door as shown.
Install pivot bearing retainer in bottom of door using two 1/4-20x5/8" (M6x1.0) pan head machine screws and lock washers.
Laterally adjust center of pivot bearing retainer 2-5/8" (66.5mm) (or 2-11/16", 68mm) from hinge edge of door (not including weather stripping) and tighten screws securely.
NOTE: For doors with 1" (25.4mm) bottom rail depth, pivot bearing stud must be shortened by sawing off at score 1/2" (12.5mm) from bottom.

TOP DOOR RAIL
"K" Type End Loading Arm
Make a 5/8" (16mm) deep cut-out in hinge edge of door as shown.
Drill or drill and tap holes in top of door as shown.
Position arm in door by placing arm pin in 1/4" (6.5mm) hole. Install arm by using two 1/4-20x5/8" (M6x1.0) pan head machine screws and lock washers. Center arm in the top rail by adjusting the two 1/4-20x1" (M6x1.0) hex head centering bolts.
NOTE: After door is installed, the two 1/4-20x1" (M6x1.0) socket head clamp bar cap screws with lock washers must be tightened securely.



www.intldoorclosers.com

"ADJUSTABLE POWER"
Concealed Overhead Door Closer
Series 300
Center Hung\Double or Single Acting
Side and End Loading

INSTALLATION INSTRUCTIONS

Caution: Drilling in this area may damage closer

DOOR HEADER WITH CLOSER

TOP DOOR RAIL

HINGE JAMB **DOOR STILE**

Speed Regulating Valves

1-1/2" (38mm)

1/2" (12.5mm)

Recess

1/8" (3mm) Door Clearance

Turn Speed Regulating Valves
Clockwise to slow speed,
Counterclockwise to increase speed.

LATCHING
SLOWER (2) FASTER (1)

CLOSING
SLOWER (1) FASTER (2)

105° 90°

Spring Power Adjustable

1/8" (3mm) Door Clearance

2-5/8" (66.5mm) ϕ of Pivot

BOTTOM DOOR RAIL

1-9/16" (39.5mm) Recess

Floor

2-3/4" (70mm) ϕ of Pivot

Threshold 1/2" (12.5mm)

3/16" (5mm) Door Clearance

International Door Closers, Inc.
East: 1920 Air Lane Drive, Nashville, TN 37210 ■ Tel: (800) 225-6737
West: 4431 E. La Palma, Anaheim, CA 92807 ■ Tel: (800) 544-4422

"ADJUSTABLE POWER"

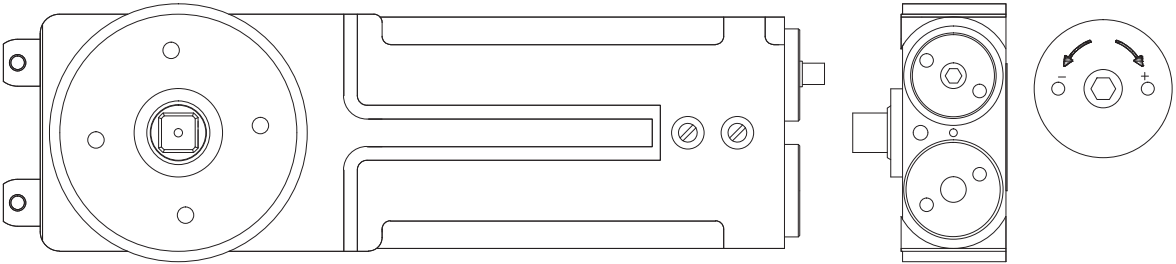
Concealed Overhead Door Closer

Series 300

Center Hung\Double or Single Acting

Side and End Loading

POWER ADJUSTMENT



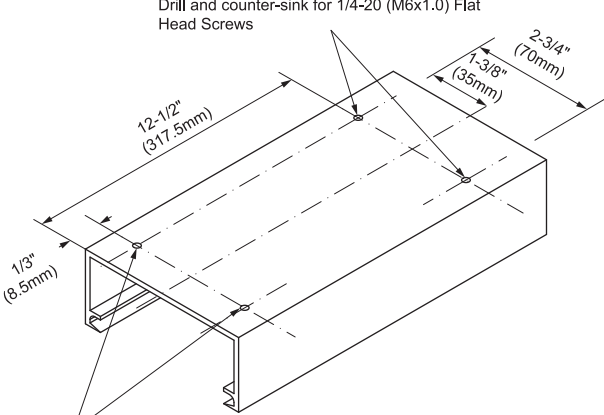
Factory presetting size:size 3

ADA 5lbs.	Size 2	Size 3	Size 4
-4	-2	0	+5

HEADERS & JAMBS

DOOR HEADER

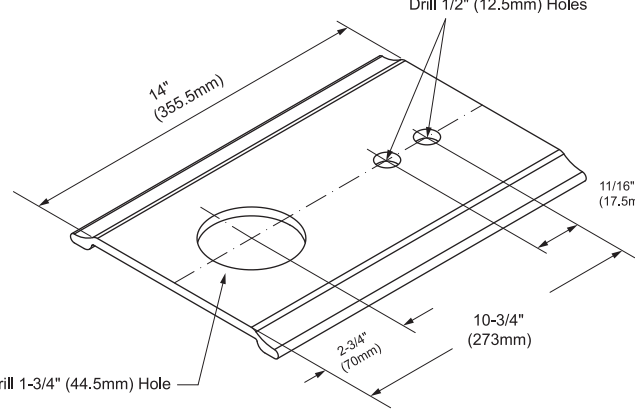
Drill and counter-sink outside top surface for 10-32x8.5 (M5x0.8) and 1/4-20x1-1/4" (M6x1.0) flat head screws as shown.



Drill and counter-sink for 1/4-20 (M6x1.0) Flat Head Screws

COVER PLATE

Drill 1-3/4" (44.5mm) hole as shown.
Drill 1/2" (12.5mm) hole as shown.

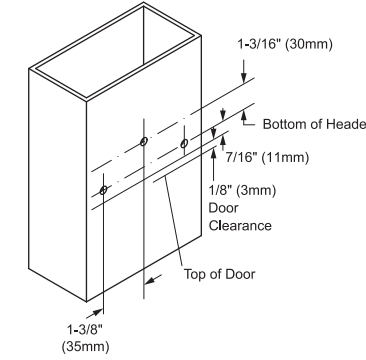


Drill 1-3/4" (44.5mm) Hole

Drill 1/2" (12.5mm) Holes

HINGE JAMB

Drill holes for #10 pan head self-threading screws as shown.



1-3/8" (35mm)

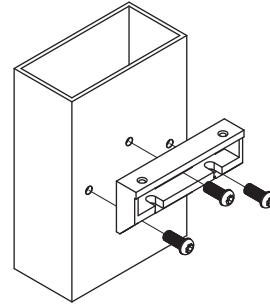
7/16" (11mm)

1/8" (3mm) Door Clearance

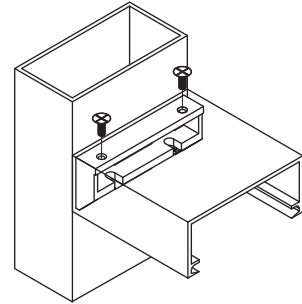
Top of Door

Bottom of Header

Install anchor using #10 x 9/16" pan head self-threading screws.



Mount door header on anchor using 10-32 x 7/16" flat head self-tapping screws.



SIDE LOADING

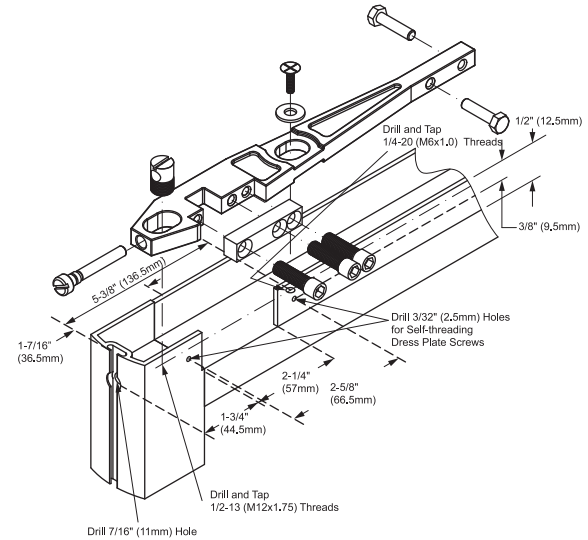
TOP DOOR RAIL

"S" Type Side Loading Arm

Drill or drill and tap holes in top of door as shown. Make 2-1/4"x1/2" (57mmx12.5mm) cut-out in top of door as shown. Cut-out must be on the inside of the door. Install arm using 1/4-20x1-1/4" (M6x1.0) flat head machine screw and 7/8" (22mm) washer. Install 1/2-13x3/4" (M12x1.75) arm stud and 1/4-20x1-1/8" (M6x1.0) dome head arm adjustment screw. Laterally adjust center of the arm spindle retainer 2-5/8" (66.5mm) from hinge edge of door (not including weather stripping). Center arm in the top rail by adjusting the two 1/4-20x1" (M6x1.0) hex head centering bolts.

After installation of door, attach dress plate with self-threading screws.

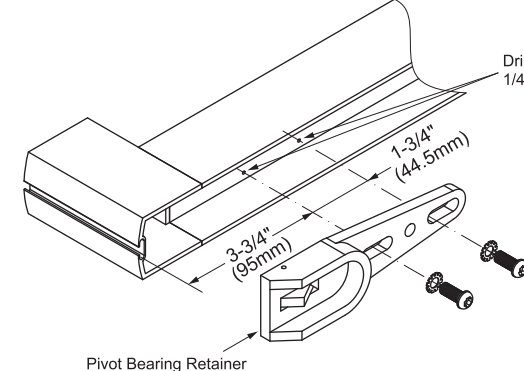
NOTE: Before attaching dress plate, make certain the three 1/4-20x7/8" (M6x1.0) socket head clamp bar screws with lock washers are tightened securely.



BOTTOM DOOR RAIL

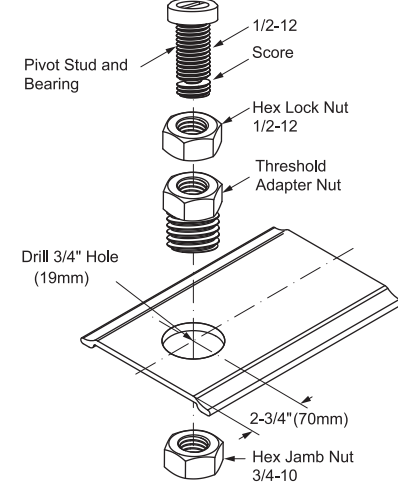
Side Loading

Drill and tap 1/4-20 (M6x1.0) holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two 1/4-20x5/8" (M6x1.0) pan head machine screws and lock washers. Laterally adjust center of pivot bearing retainer 2-5/8" (66.5mm) from hinge edge of door (not including weather stripping) and tightened screws securely.



THRESHOLD MOUNT PIVOT

Drill hole in threshold as shown. Install threshold adapter nut from top and secure with 3/4-10 hex jam nut underneath. Install pivot stud and bearing with 1/2-12 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" (6.5mm) holes 1-1/2" (38mm) deep in floor for plastic expansion plugs. Mount base using #12x1-1/4" plastic expansion plugs and #12x1-1/4" flat head all-purpose wood screws. Install pivot stud and bearing with 1/2-12 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" (32mm) hole for clearance of pivot base on center line 2-3/4" (70mm) from hinge end of threshold.

NOTE: When threshold is not used, pivot bearing stud must be shortened by sawing off at score 1/2" (12.5mm) from bottom.

