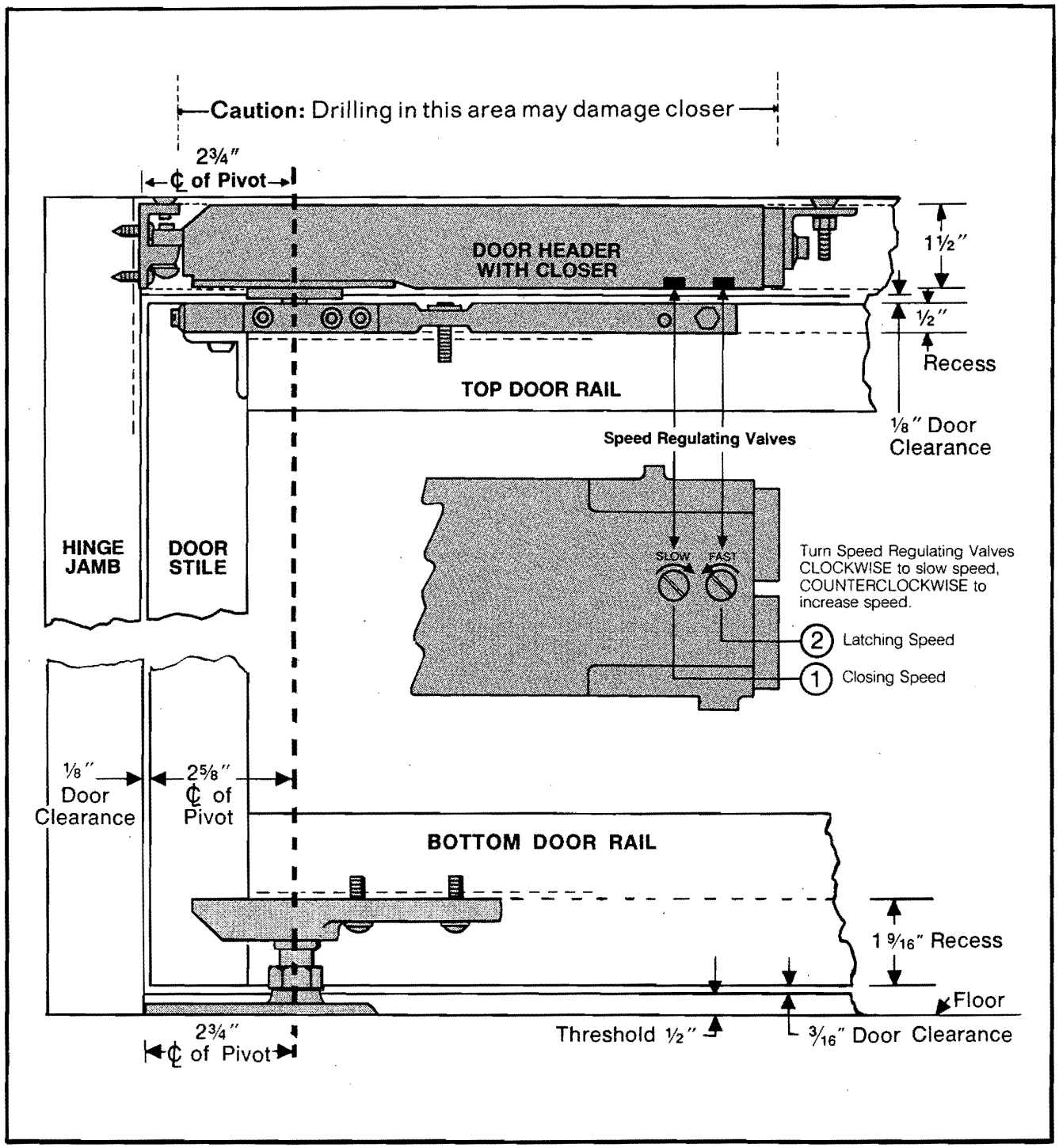
Concealed Overhead
"Competitor"
Series 200
Center Hung
Double or Single Acting
Side and End Loading

Installation Instructions

International® door closers



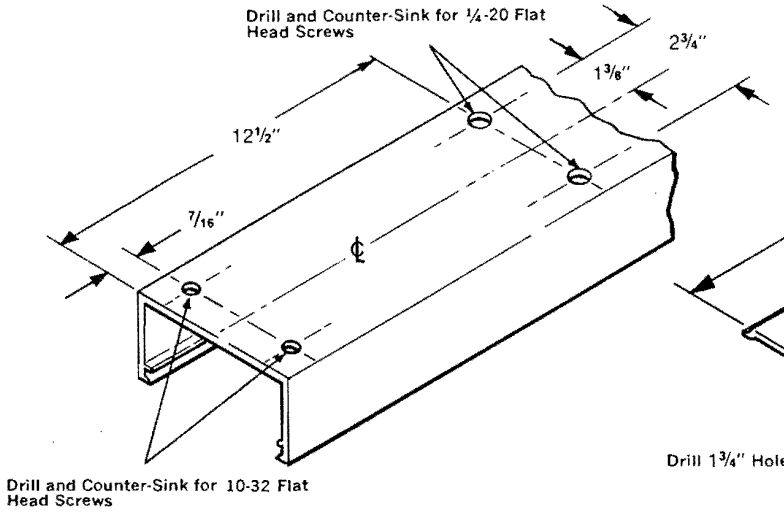
COPYRIGHT 1985 INTERNATIONAL DOOR CLOSERS, INC.

International® door closers inc

East: 1920 Air Lane Drive, Nashville, Tennessee 37210 ■ 615/885-7060
West: 1140 N. Kraemer Pl. ■ Anaheim, Calif. 92806 ■ 714/666-0390

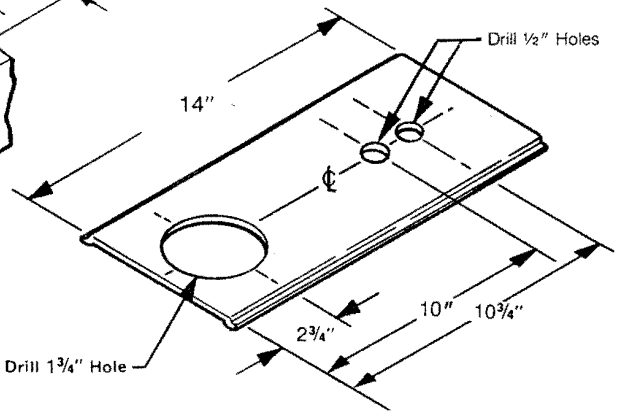
DOOR HEADER

Drill and counter sink outside top surface for 10-32 x 3/8" and 1/4-20 x 1 1/4" flat head screws as shown.



COVER PLATE

Drill 1 3/4" and 1/2" holes as shown.

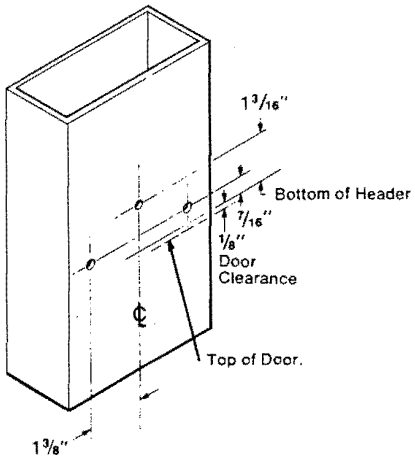


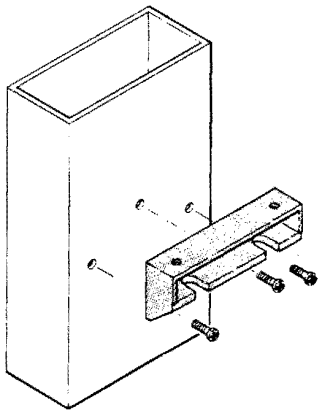
HINGE JAMB

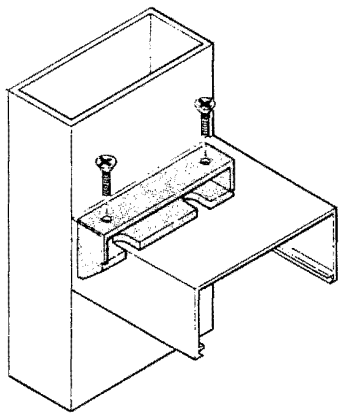
Drill holes for 8-32 x 1/2" pan head self-threading screws as shown.

Install anchor using 8-32 x 1/2" pan head self-threading screws.

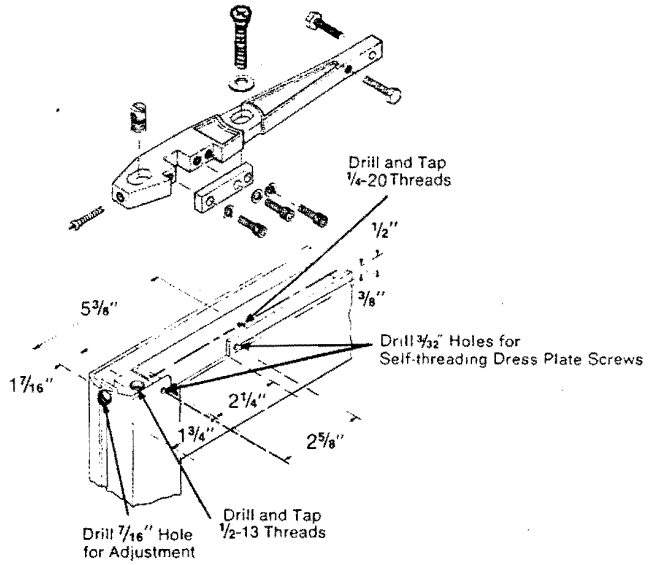
Mount door header on anchor using 10-32 x 3/8" flat head self-threading screws.







COPYRIGHT 1985 INTERNATIONAL DOOR CLOSERS, INC.



TOP DOOR RAIL

"S" Type Side Loading Arm

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

Make 2¼" x ½" cut-out in top of door as shown. Cut-out must be on the inside of the door.

Install arm using ¼-20 x 1¼" flat head machine screw and ⅞" washer. Install ½-13 x ¾" arm stud and ¼-20 x 1⅛" dome head arm adjustment screw. Laterally adjust center of the arm spindle retainer 2⅝" from hinge edge of door (not including weatherstripping). Center arm in the top rail by adjusting the two ¼-20 x 1" hex head centering bolts.

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

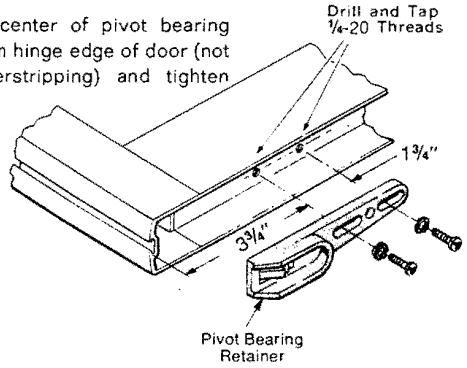
NOTE: Before attaching dress plate, make certain the three ¼-20 x ⅞" socket head clamp bar screws with lock washers are tightened securely.

BOTTOM DOOR RAIL

Side Loading

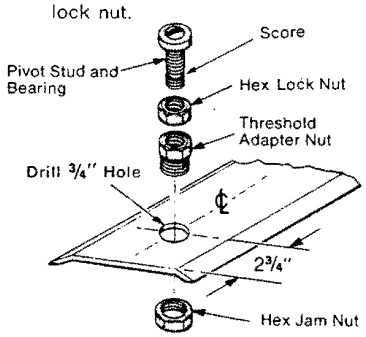
Drill and tap ¼-20 holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two ¼-20 x ⅝" pan head machine screws and lock washers.

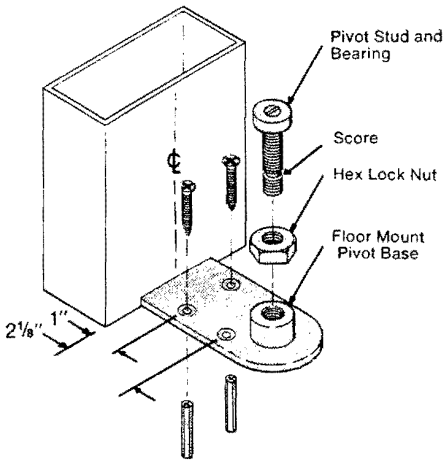
Laterally adjust center of pivot bearing retainer 2⅝" from hinge edge of door (not including weatherstripping) and tighten screws securely.



THRESHOLD MOUNT PIVOT

Drill hole in threshold as shown. Install threshold adapter nut from top and secure with ¾-16 hex jamb nut underneath. Install pivot stud and bearing with ½-20 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 ¼" holes 1½" deep in floor for plastic expansion plugs.

Mount base using #12 x 1¼" plastic expansion plugs and #12 x 1¼" flat head all-purpose screws.

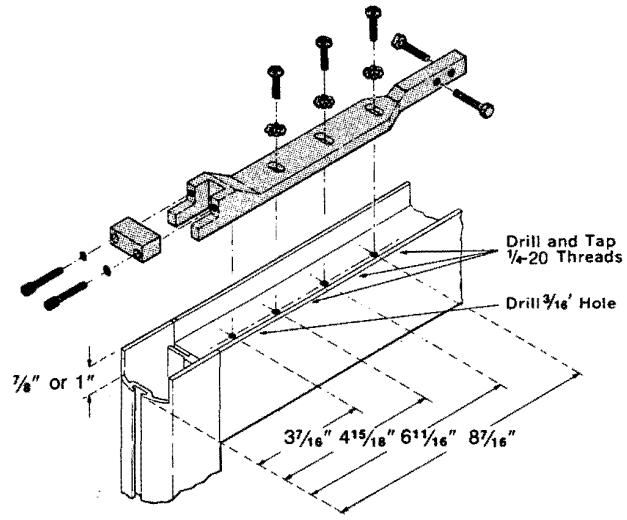
Install pivot stud and bearing with ½-20 hex lock nut as shown, and adjust bearing height for proper door clearance and firmly tighten lock nut.

When using threshold, drill 1¼" hole for clearance of pivot base on center line 2¾" from hinge end of threshold.

NOTE: When threshold is not used, pivot bearing stud must be shortened by sawing off at score ½" from bottom.

COPYRIGHT 1985 INTERNATIONAL DOOR CLOSERS, INC.

END LOADING



TOP DOOR RAIL

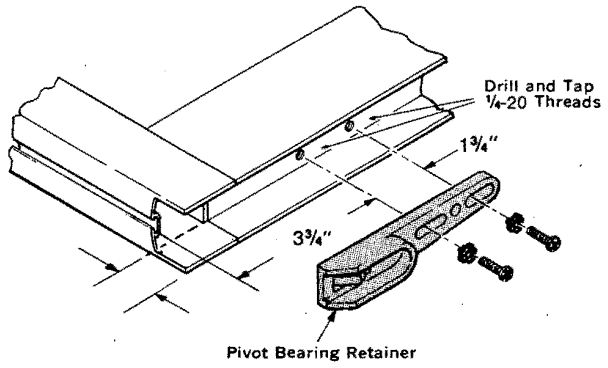
"A" Type End Loading Arm - Make a 1" deep cut-out in hinge edge of door as shown.

"PT" Type End Loading Arm - Make a 7/8" 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" hole. Install arm using three ¼-20 × 5/8" pan head machine screws and lock washers. Center arm in the top rail by adjusting the two ¼-20 × 1" hex head centering bolts.

NOTE: After door is installed, the two ¼-20 × 1" socket head clamp bar cap screws with lock washers must be tightened securely.



BOTTOM DOOR RAIL

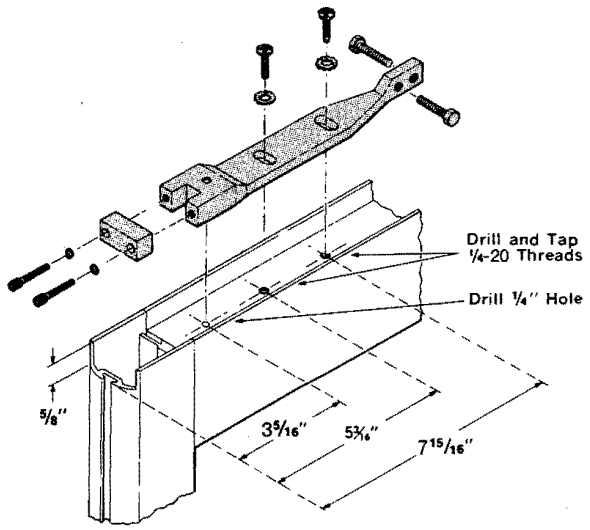
End Loading

Make cut out in hinge edge of door equal to depth of bottom rail as shown.

Drill and tap ¼-20 holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two ¼-20 × 5/8" pan head machine screws and lock washer.

Laterally adjust center of pivot bearing retainer 2 5/8" from hinge edge of door (not including weatherstripping) and tighten screws securely.

NOTE: For doors with 1" bottom rail depth, pivot bearing stud must be shortened by sawing off at score ½" from bottom.



TOP DOOR RAIL

"K" Type End Loading Arm - Make a 5/8" 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 ¼" hole. Install arm by using two ¼-20 × 5/8" pan head machine screws and lock washers. Center arm in the top rail by adjusting the two ¼ × 20 × 1" hex head centering bolts.

NOTE: After door is installed, the two ¼-20 × 1" socket head clamp bar cap screws wih lock washers must be tightened securely.

COPYRIGHT 1985 INTERNATIONAL DOOR CLOSERS, INC.