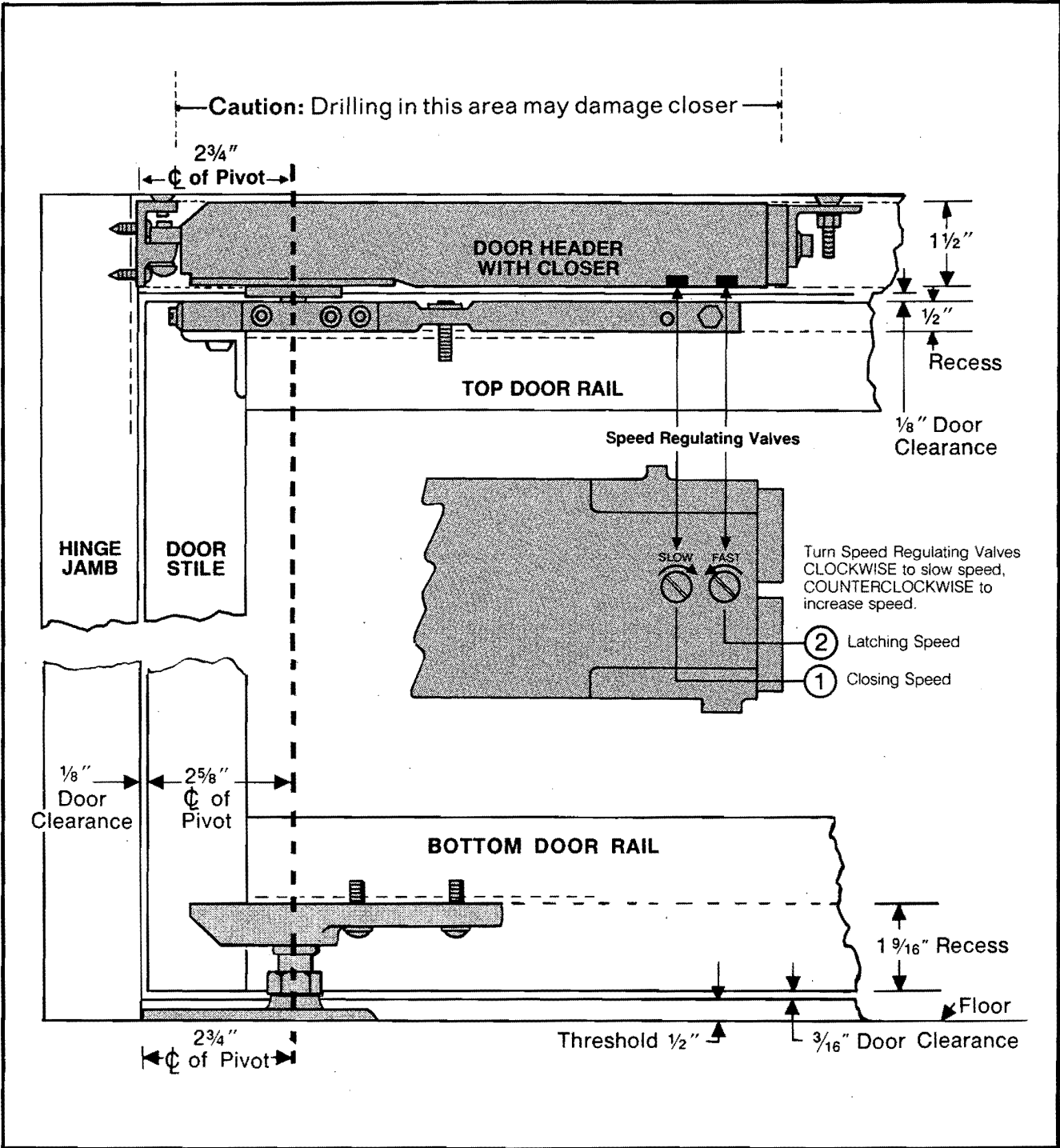




Concealed Overhead  
**"Competitor"**  
**Series 200**  
 Center Hung  
 Double or Single Acting  
 Side and End Loading  
 Installation Instructions



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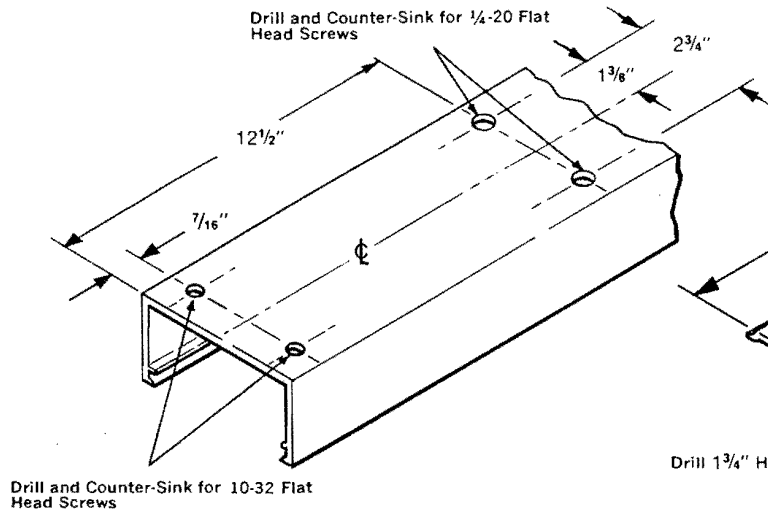


East: 1920 Air Lane Drive, Nashville, Tennessee 37210 ■ 615/885-7060  
 West: 1140 N. Kraemer Pl. ■ Anaheim, Calif. 92806 ■ 714/666-0390

# HEADERS & JAMBS

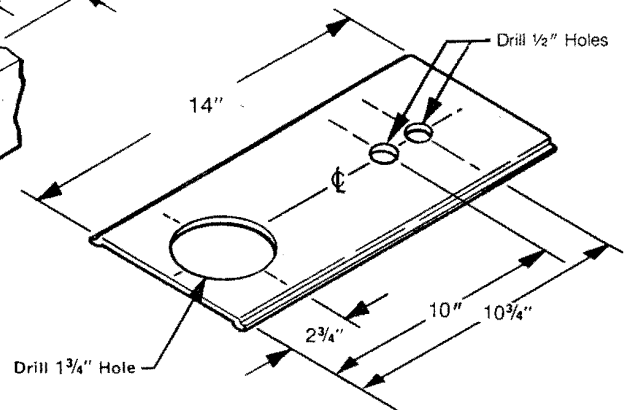
## DOOR HEADER

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.

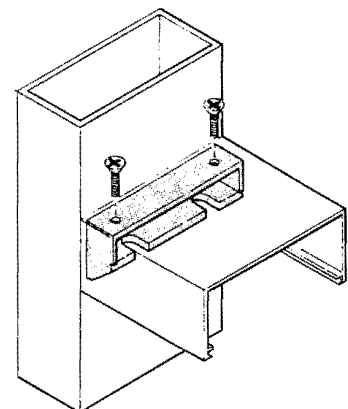
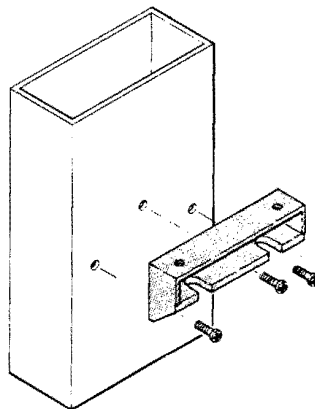
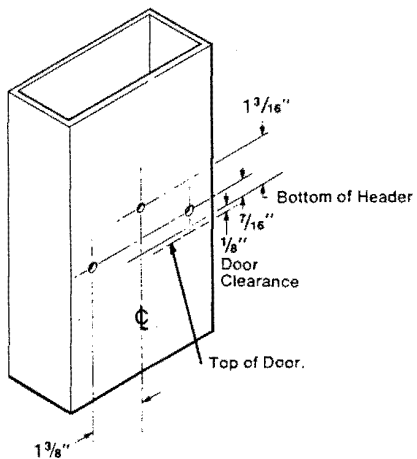


## HINGE JAMB

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.



**TOP DOOR RAIL**

**"S" Type Side Loading Arm**

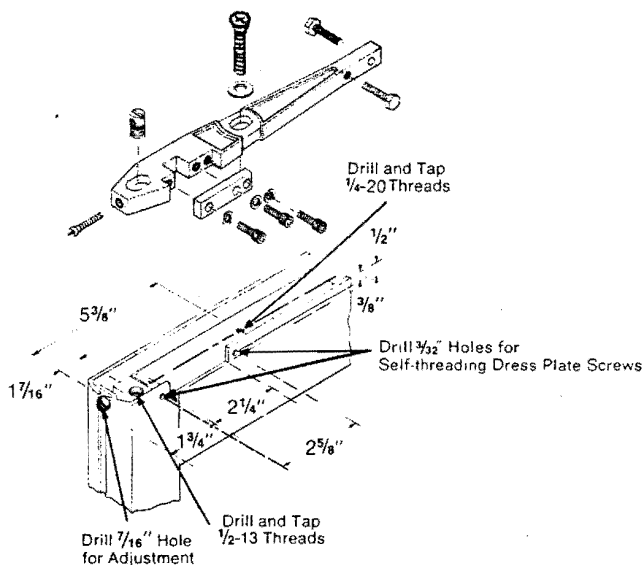
Drill or drill and tap holes in top of door as shown.

Make  $2\frac{1}{4}$ " x  $\frac{1}{2}$ " cut-out in top of door as shown. Cut-out must be on the inside of the door.

Install arm using  $\frac{1}{4}$ -20 x  $1\frac{1}{4}$ " flat head machine screw and  $\frac{7}{8}$ " washer. Install  $\frac{1}{2}$ -13 x  $\frac{3}{4}$ " arm stud and  $\frac{1}{4}$ -20 x  $1\frac{1}{8}$ " dome head arm adjustment screw. Laterally adjust center of the arm spindle retainer  $2\frac{5}{8}$ " from hinge edge of door (not including weatherstripping). Center arm in the top rail by adjusting the two  $\frac{1}{4}$ -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  $\frac{1}{4}$ -20 x  $\frac{7}{8}$ " socket head clamp bar screws with lock washers are tightened securely.

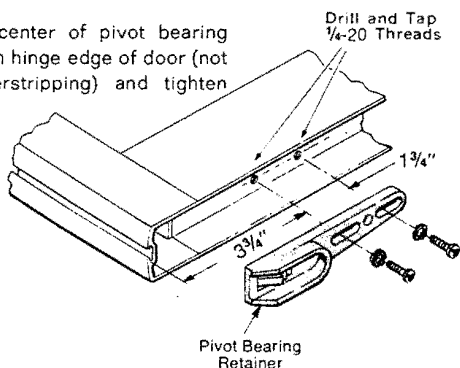


**BOTTOM DOOR RAIL**

**Side Loading**

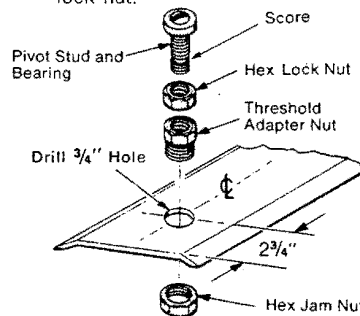
Drill and tap  $\frac{1}{4}$ -20 holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two  $\frac{1}{4}$ -20 x  $\frac{5}{8}$ " pan head machine screws and lock washers.

Laterally adjust center of pivot bearing retainer  $2\frac{5}{8}$ " 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  $\frac{3}{4}$ -16 hex jamb nut underneath. Install pivot stud and bearing with  $\frac{1}{2}$ -20 hex lock nut as shown and adjust bearing height for proper door clearance and firmly tighten lock nut.



**FLOOR MOUNT PIVOT**

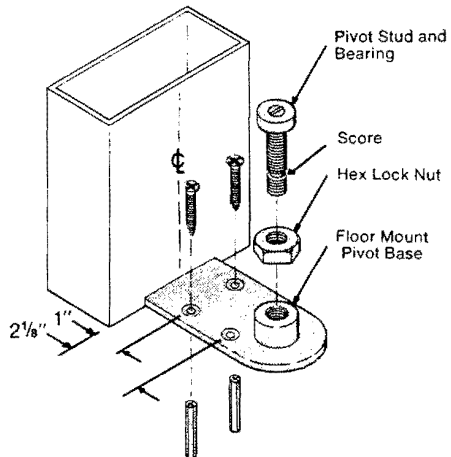
Center pivot base against door jamb on hinge side. Mark and drill  $\frac{1}{4}$ " holes  $1\frac{1}{2}$ " deep in floor for plastic expansion plugs.

Mount base using #12 x  $1\frac{1}{4}$ " plastic expansion plugs and #12 x  $1\frac{1}{4}$ " flat head all-purpose screws.

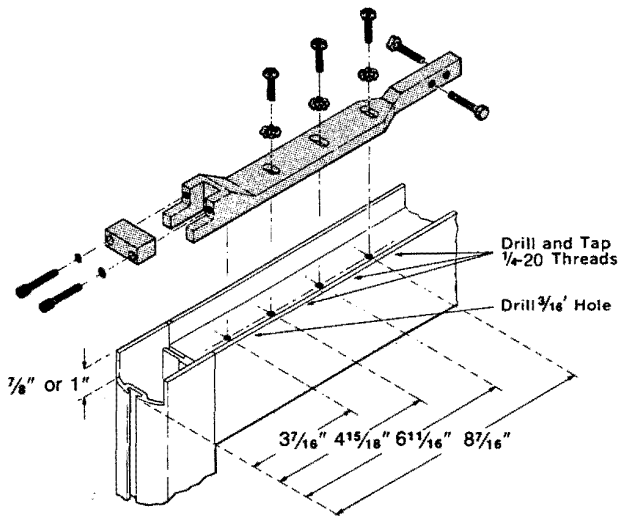
Install pivot stud and bearing with  $\frac{1}{2}$ -20 hex lock nut as shown, and adjust bearing height for proper door clearance and firmly tighten lock nut.

When using threshold, drill  $1\frac{1}{4}$ " hole for clearance of pivot base on center line  $2\frac{3}{4}$ " from hinge end of threshold.

**NOTE:** When threshold is not used, pivot bearing stud must be shortened by sawing off at score  $\frac{1}{2}$ " from bottom.



## END LOADING



### TOP DOOR RAIL

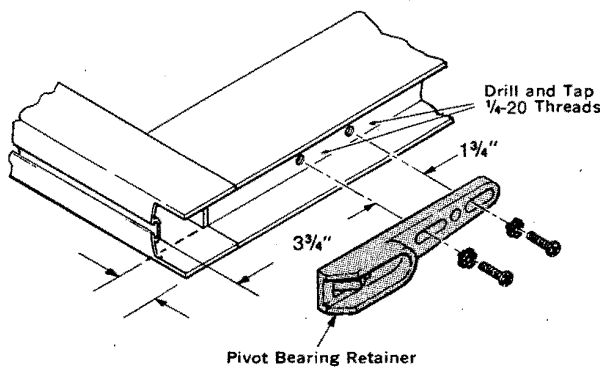
**"A" Type End Loading Arm** - Make a 1" deep cut-out in hinge edge of door as shown.

**"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 1/4-20 x 5/8" pan head machine screws and lock washers. Center arm in the top rail by adjusting the two 1/4-20 x 1" hex head centering bolts.

**NOTE:** After door is installed, the two 1/4-20 x 1" socket head clamp bar cap screws with lock washers must be tightened securely.



### BOTTOM DOOR RAIL

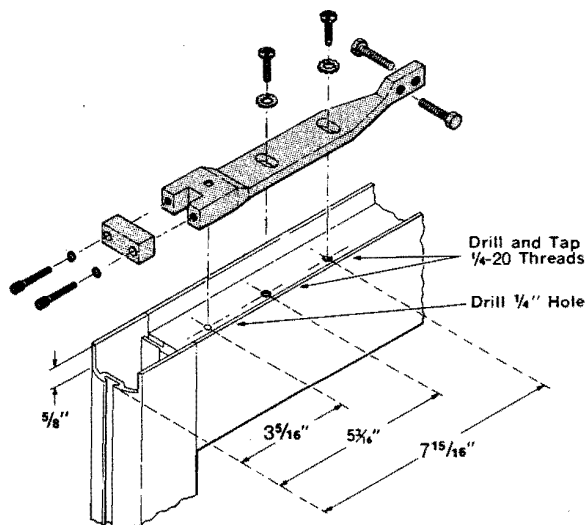
#### End Loading

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

Drill and tap 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 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 1/2" 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 1/4" hole. Install arm by using two 1/4-20 x 5/8" pan head machine screws and lock washers. Center arm in the top rail by adjusting the two 1/4 x 20 x 1" hex head centering bolts.

**NOTE:** After door is installed, the two 1/4-20 x 1" socket head clamp bar cap screws with lock washers must be tightened securely.