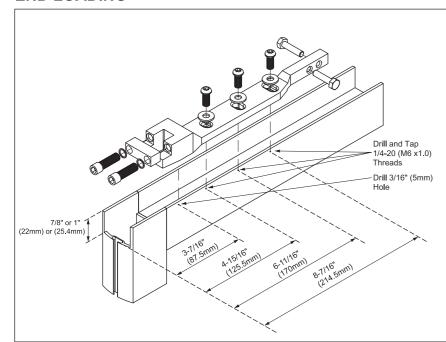
## **END LOADING**



#### **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

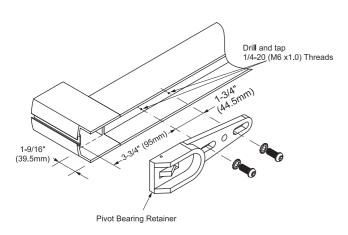
Make a 7/8" (22mm) deep cut-out in hinge edge of door as shown.

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**

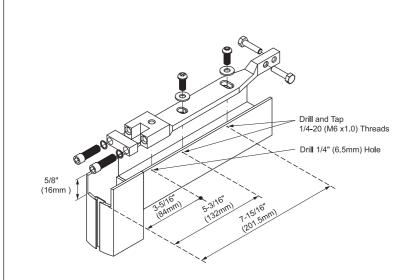
Make cut out in hinge edge of door equal to depth of bottom rail as shown.

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.



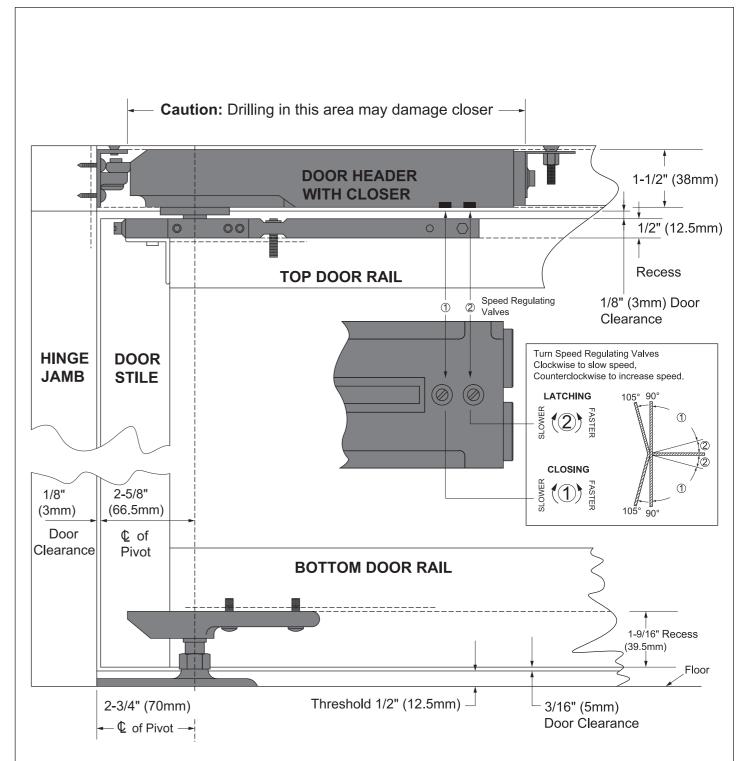
Concealed Overhead Door Closer "Competitor"

Series 200

Center Hung\Double or Single Acting
Side and End Loading

# www.intldoorclosers.com

# **INSTALLATION INSTRUCTIONS**



### **International Door Closers, Inc.**

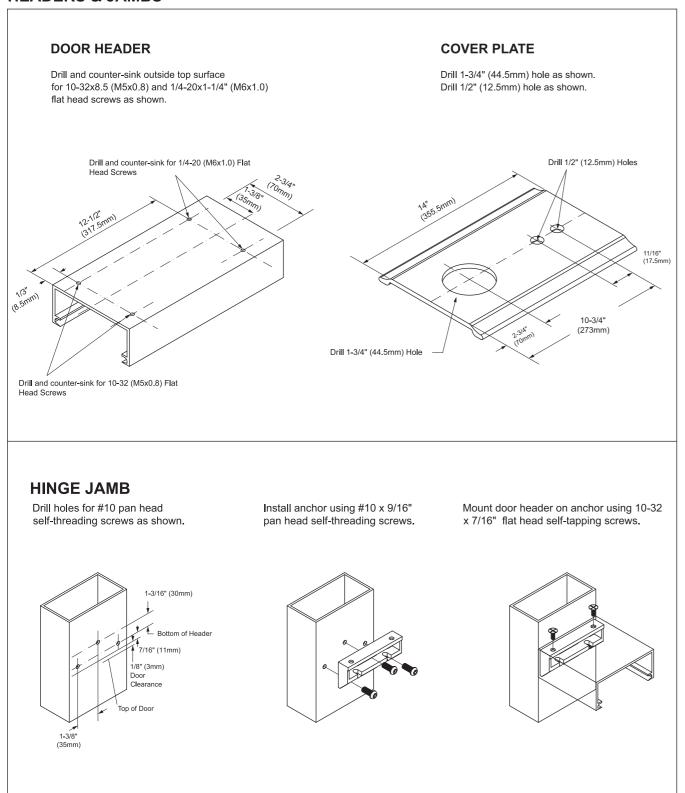
East: 1920 Air Lane Drive, Nashville, TN 37210 ■ Tel: (800) 225-6737 West: 4431 E. La Palma, Anaheim, CA 92807 ■ Tel: (800) 544-4422

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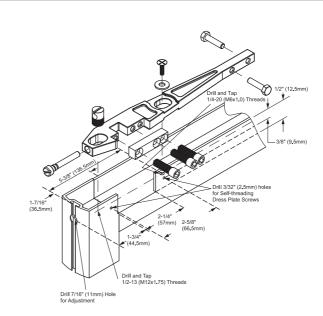
# Concealed Overhead Door Closer "Competitor" Series 200

Center Hung\Double or Single Acting
Side and End Loading

#### **HEADERS & JAMBS**



#### 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.

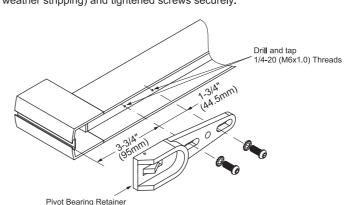
**NOTE:** Before attaching dress plate, make certain the three 1/4-20x7/8" (M6x1.0) socket head clamp bar screws with lock washers are tightened securely.

#### **BOTTOM DOOR RAIL**

#### Side Loading

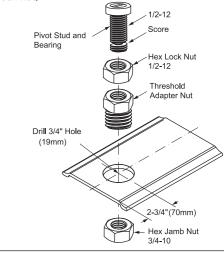
Drill and tap 1/4-20 (M6x1.0) holes in bottom rail of door as shown. Install pivot bearing retainer in bottom of door using two 1/4-20x5/8" (M6x1.0) pan head machine screws and lock washers.

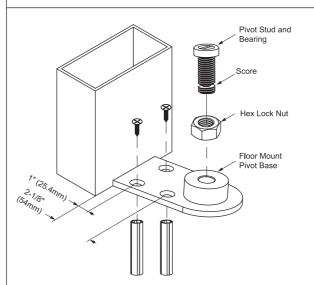
Laterally adjust center of pivot bearing retainer 2-5/8" (66.5mm) from hinge edge of door (not including weather stripping) and tightened screws securely.



## 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.

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