"ADJUSTABLE" POWER CONCEALED OVERHEAD DOOR CLOSER
INSTALLATION INSTRUCTIONS

◇ CENTER-HUNG FOR DOUBLE OR SINGLE ACTION DOORS
◇ SIDE LOADING AND END LOADING INSTALLATION
◇ DUAL VALVES FOR LATCHING AND CLOSING SPEED ADJUSTMENT
◇ APPLICABLE ADA REQUIREMENT (EXTERIOR DOOR, OPTIONAL FOR INTERIOR DOOR IS AVAILABLE)

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 1/6"(3mm) 
Bottom door rail 3/16"(4.8mm)

SPEED ADJUSTMENT

1. CLOSING RANGE
2. LATCHING RANGE

1. Closing speed
2. Latching speed
3. Power

FASTER / SLOWER
Max. 2 turns in either direction

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 3/8" deep cut-out in hinge edge door as shown.

Position arm in door by placing arm pin in 3/16" hole.
Install arm using three 3/16 x 20 pan head machine screws and lock washers.

NOTE: After door is installed, the two 3/4 x 1" locknut 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 3/4-20 holes in bottom rail of door as shown.

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

Install pivot bearing retainer in bottom of door using two 3/4 x 20 pan head machine screws and lock washers.

Laterally adjust canter of pivot bearing retainer 2 3/4"(or 2 11/16") 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.

END LOADING

Pivot Bearing Retainer

Deeep cut-out in hinge edge of door as shown.

Drill and Tap 1/4-20 Threads
Drill 1/4 Hole

Drill 1/4" Hole

Drill and Tap 3/16-20 Threads
Drill 5/16" Hole

Drill 7/16" Hole
### HEADERS & JAMBS

**DOOR HEADER**
Drill and counter-sink outside top surface for 10-32 x 1/2" and 1/4-20 x 1/4" flat head screws as shown.

**COVER PLATE**
Drill 1/2" hole as shown.

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

**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 canters of pivot bearing retainer 25/64" from hinge edge of door (not including weatherstripping). Canter arm in the top rail by adjusting the two 1/4-20 x 1" hex head cantering bolts. After installation of door, attach dress plate with self-threading screws.

**THRESHOLD MOUNT PIVOT**
Drill hole in threshold as shown. Install threshold adapter nut from top and secure with 3/4-16 hex jam nut underneath. 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.

**FLOOR MOUNT PIVOT**
Canter pivot base against door jamb on hinge side. Mark and drill 1/4" holes 1 1/2" deep in floor for plastic expansion plugs. Mount base using #12 x 1 1/4" plastic expansion plugs and #12 x 1 1/4" 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 canters line 2 1/4" from hinge edge of threshold.

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