**Model 416**

**DOOR CLOSER INSTALLATION & INSTRUCTION SHEET**

For Heavy Duty Arm W/Dead Stop, HD Hold Open Arm W/Dead Stop

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**MOUNTED STOP FACE (PUSH SIDE) PARALLEL ARM**

Top rail less than 5-1/2", drop palate will be required. Maximum opening 110°.

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**IMPORTANT**

Use spacer block provided for fifth screw.

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**CAUTION**

Before installing mounted stop face (parallel arm), turn back check selector valve (found in opposite side of closer from regulating screws side) all the way in (clockwise)!

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**Fig. 1**

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**Fig. 2**

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**Diagram**

- **Hing Center**
- **Left Hand**
- **Right Hand**
- **Stop Face**
- **Cover**
- **Hex Wrench**
- **Arm Stop**
- **Bracket**
- **Filler Plug**

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**Important**

Use spacer block provided for fifth screw.

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**Left Hand Door Shown, Right Hand Door Opposite**
THE HAND MUST BE DETERMINED & CHANGED IF NECESSARY BEFORE THE BRACKET IS MOUNTED TO THE DOOR STOP(TOP JAMB).
Refer to page 1.

FOR LEFT HAND DOORS (Fig.1)
All brackets are shipped assembled for LEFT HAND DOOR. Insert 5/16”(8mm) hex wrench into ARM STOP and Turn counter clockwise to seat as tightly as possible.
Push filler plug in firmly.

FOR RIGHT HAND DOORS (Fig.2)
Pull filler plug out of bracket
Use a 5/16”(8mm) hex wrench, Turn ARM STOP clockwise to remove from bracket insert hole . Turn hex wrench counter clockwise to seat ARM STOP as tightly as possible.
Push filler plug into other hole.

INSTALLATION SEQUENCE

INSTALLATION INSTRUCTIONS

1. Adjust spring power to match door width as indicted by chart 
   PLEASE REFER TO 416 DOOR CLOSER INSTALLATION.

2. Select proper templating based on degree of opening/dead stop.
   The closer and arm holes must be located for same degree of
   opening/dead stop. Drill and/or top mounting holes in door and
   head jamb.

3. Attach complete arm to closer as shown at left. Arm will
   be at about 30°angle to closer body. Fasten with arm shaft screw.
   The arm will appear to be in an incorrect position. This is to
   accommodate the pre-load required for parallel arm mounted door
   closers

4. Mount closer on door, using fasteners provided.
   NOTE: Arm will provied resistance.

5. Swing door open about 45°. Mount shoe to frame stop
   per proper templating. Be sure to install the "Fifth" screw.
   If Stop is not wide enough, use spacer block provided.

IMPORTANT REMARKS

Do NOT allow door to slam into frame.
A normal standard closing time from 90° open position is 5 to 7
seconds evenly divided between main closing (Sweep) speed and
latching speed. Adjust the SWEEP speed first, then adjust the
LATCHING speed.
To adjust main speed, turn reg. screw clockwise to decrease or
counter-clockwise to increase. To adjust latch speed, turn reg.
screw clockwise to decrease or counter-clockwise to increase.
Reg.screw locations are shown at left on label.

ADJUSTABLE BACKCHECK FUNCTION
This function is essential to proper operation of HEAVY DUTY ARM
W/ DEAD STOP. Use enough to prevent arm from striking stop with
impact. See page 1.

ATTACH COVER
Install cover securely using screws provided.

HOW TO HOLD-OPEN
A quarter turn on the HOLD-OPEN CONTROL HANDLE engages or
disengages hold-open.