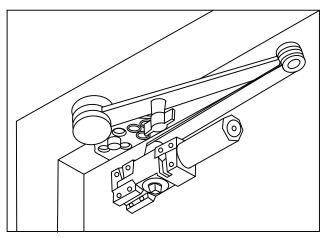


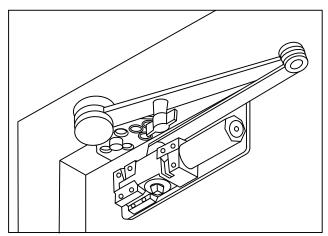
# CR3049HOSPRS & CR3077SPAS

INSTALLATION INSTRUCTIONS

# PUSH SIDE MOUNTED(PARALLEL ARM)



STANDARD INSTALLATION



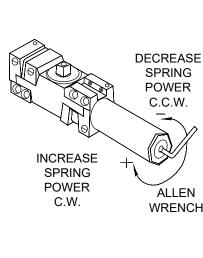
INSTALL ON DROP PLATE (FOR NARROW RAIN INSTALLATION)

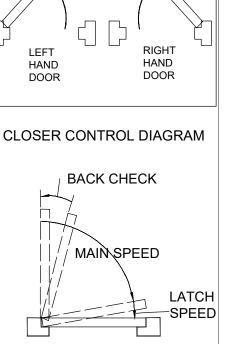
#### GENERAL NOTES

The Cushion Arm Closer is non-handed and is designed to meet entrance accessibility requirements. Determine hand of door first before installation. Refer to illustration (right), then the proper installation template.

The Cushion Arm Closer can be adjusted to handle all exterior doors up to 4'0" and interior doors up to 5'0" wide. Adjust the spring power as shown before installing the closer. Turn the spring adjustment nut clockwise or counter-clockwise to the required number of turns to match door width as indicated in the chart below.

MAXIMUM DOOR WIDTH FULL TURNS REQUIRED **EXTERIO EXTERIOR R DOORS** DOORS 5 lb-f\* 5 TURNS C.C.W. 34"(864) 8.5 lb-f\* 2 TURNS C.C.W. 30" (762) 38"(962) 0 TURNS 36"(914) 48"(1219) 5 TURNS C.W. 42"(1067) 54"(1372) 10 TURNS C.W. 60"(1524) 48"(1219) 15 TURNS C.W.

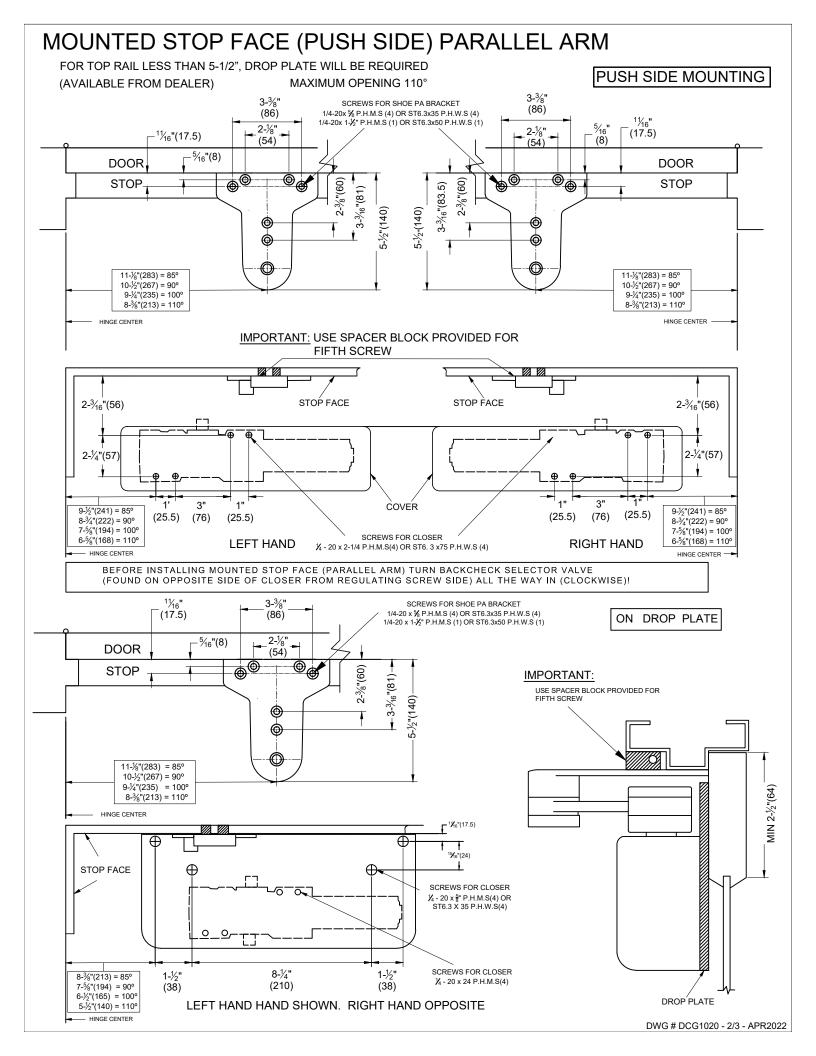




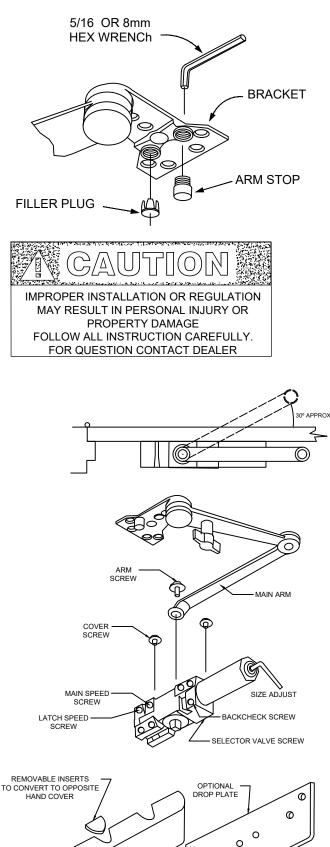
HOW TO DETERMINE HAND OF DOOR

\* Opening force on 36" Door

**IMPORTANT** - When adjusting spring power DO NOT exceed the maximum number of turns in either direction. Doing so may damage the closer



#### **RIGHT HAND ASSEMBLY SHOW**



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### HANDING & ASSEMBLY OF D.S./ DSHO SHOE

Both D.S. / DSHO shoes must be " handed" to match door BEFORE mounting. see Fig. 1 For Left Hand doors: All shoes are shipped assembled for left hand doors. Insert  $\frac{5}{16}$ " (8mm) Hex wrench into arm stop and turn counter - clockwise to seat stop as tightly as possible.

For Right Hand doors: (see illustration) Push filler plug out of shoe. Using a  $\frac{5}{6}$ " (8mm) Hex wrench, turn arm in hole marked "R". Turn wrench counter-clockwise, seating stop as tightly as possible. Insert filler plug into other hole.

#### INSTALLATION & ADJUSTMENT INSTRUCTIONS (LEFT HAND SHOWN - RIGHT HAND OPPOSITE) BEFORE INSTALLING THE ARM - TURN BACKCHECK SELECTOR VALVE (on back of closer) ALL THE WAY IN.

- 1. Adjust spring power to match door width as indicated by chart on front page.
- Select proper templating on opposite page, based on degree on openning/dead stop. The closer and arm holes must be located for same degree of openning/dead stop. Drill and/ or tap mounting holes in door and head jamb.
- Attach complete arm to closer, as shown at left. Arm will be at about a 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 closer. See Fig.2.
- 4. Mount closer on door, using fasteners provided. NOTE: arm will provide some resistance.
- Swing door open about 45°. Mount shoe to frame stop per proper templating on opposite page. Be sure to install the "fifth" screw. If stop is not wide enough, use spacer block provided.

## REGULATION CAUTION DO NOT BACK VALVES OUT OF CLOSER OR A LEAK WILL RESULT

The BA series closer has been regulated prior to shipment. If adjustment are necessary, carefully follow instructions. CLOSING SPEED: See Closer Control Diagram on page 1. 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 and on label BACKCHECK: is essential to proper operation of Cush-Stop. Use enough backcheck to prevent arm from striking arm stop with impact. To increase resistance. Turn reg. screw clockwise. - DO NOT USE ABRUPT BACKCHECK! -

 Attach cover: place cover insert into proper slots for either R.H. or L.H. door. Place cover over closer and hold against door while tightening cover screws firmly