1. Please follow the installation instruction on page 1 – 3. The shoe must be mounted at first stage.
2. Insert the bolt to the shoe from the rear, with the spring properly inserted to the bolt.
3. Align the shoe to the bracket with the correct position (left or right) corresponding to the door handing. Illustration shows left handing.
4. Tighten the screw using the supplied \( \frac{5}{32} \)" (4 mm) hexagonal wrench.

NOTE:
Spring Cush will slow the door down 5 degrees \( \left(5^\circ\right) \) ahead from normal dead stop point. Despite installation of the Spring Cush, do not adjust BACKCHECK settings of door closer.
900 SERIES
SUPER RIGID PARALLEL ARM
INSTALLATION INSTRUCTIONS FOR
CAL-ROYAL 900 SERIES DOOR CLOSERS
900SPRING / 900HOSPRING

DOOR SELECTION

PULL SIDE

PUSH SIDE

LEFT HAND
DOOR

RIGHT HAND
DOOR

PARALLEL ARM MOUNTING (Push Side)

Hinge Edge of Door

Left Hand Door-LH
Right Hand Reverse-RHR

Right Hand Door-RH
Left Hand Reverse-LHR

GENERAL DESCRIPTIONS

The 900 series closers are non-handed for right or left hand doors
designed to meet entrance accessibility require-ments. The 900 series
are spring power adjustable for all exterior/interior doors up to 58”
(1470mm) wide doors and up to 330 Lbs (150Kg) weight.

Adjust the spring power before installing the door closer according to
the “POWER ADJUSTMENT CHART FOR DOOR SELECTION” as shown on
page 4.

The 900 series closers are installed BACK CHECK function as a standard
which is essential to the proper operation of the SUPER RIGID
PARALLEL ARM. Use just enough to prevent arm from striking stop
with impact.

The delayed action (optional) function can not be used for this arm
because this arm permits maximum 100° door open angle.
INSTALLATION INSTRUCTIONS
900SPRING / 900HOSPRING

PARALLEL ARM (PUSH SIDE) Mounting
LEFT HAND DOOR SHOWN

- DIMENSIONS ARE IN INCHES
- RIGHT HAND DOOR OPPOSITE
- DO NOT SCALE

PARALLEL ARM (PUSH SIDE) Mounting
RIGHT HAND DOOR SHOWN

- DIMENSIONS ARE IN INCHES
- RIGHT HAND DOOR OPPOSITE
- DO NOT SCALE
of door (refer to page 1) THE HAND MUST BE CORRECT BEFORE THE BRACKET IS MOUNTED TO THE DOOR STOP (TOP JAMB).

**FOR LEFT HAND DOORS**
All brackets are shipped assembled for LEFT HAND DOOR. Insert 5/16" (8mm) hex wrench into ARM STOP and turn anti-clockwise to seat as tightly as possible.
Push filler plug in firmly.

**FOR RIGHT HAND DOORS**
Push filler plug out of bracket
Using a 5/16" (9mm) hex wrench turn ARM STOP clockwise to remove from bracket insert in hole marked "R". Turn hex wrench clockwise to seat ARM STOP as tightly as possible. Push filler plug into other hole.

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**INSTALLATION SEQUENCE**

**LEFT HAND DOOR SHOWN- RIGHT HAND DOOR OPPOSITE**

1. Adjusting spring power to match door width or weight as indicated by DOOR SELECTION CHART shown on page 4.

2. Mount closer on door to dimensions shown on page 2.

3. Attach MAIN ARM as follows:
   (a) Remove stud at junction between MAIN ARM and FOREARM
   (b) IMPORTANT - place open end wrench (spanner) on bottom shaft and turn toward hinge edge about 45°
   (c) place MAIN ARM on top shaft parallel with door and secure with shaft screw with wrench (13/32" or 10 mm)

4. Attach BRACKET to door stop (Top jamb) as shown on page 2.
5. Swing door open about 45° join main arm and forearm insert stud and tighten securely.

**IMPORTANT REMARKS**

**REGULATION**

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 CLOSING speed first, then adjust the LATCHING speed.

For slow closing speed of door turn speed adjusting valve of "C" (closing speed) clockwise and anti-clockwise for fast. Latching speed control of door is the same manner as closing speed adjustment.

**ADJUSTABLE BACK CHECK FUNCTION**

This function is essential to the proper operation of the SUPER RIGID PARALLEL ARM. Use just enough to prevent arm to striking stop with impact. See page 4.

**ATTACH COVER**

Slide cover insert into the un-used cutout in cover.
Install cover securely using screw provided.

**HOW TO HOLD-OPEN (90° STOP)**
A quarter turn on the HOLD-OPEN CONTROL HANDLE engages or disengages hold-open.