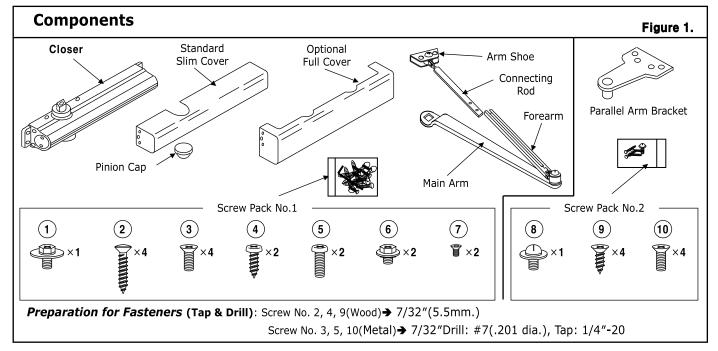
AN INCORRECTLY INSTALLED OR IMPROPERLY R ADJUSTED DOOR CLOSER CAN CAUSE PROPE-**JTION RTY DAMAGE OR PERSONAL INJURY.** JTION THESE INSTALLATION INSTRUCTIONS SHOULD BE FOLLOWED TO AVOID THE POSSIBILITY OF GA MISAPPLICATION OR MISADJUSTMENT.

Non Hold Open Door Closer



Unit Adjustment

Control Valve Adjustments

(see Figure 2.)

- Closing Speed Controls(Figure 2)
- Valve"1"Controls Sweep Range.
 Valve"2"Controls Latch Range.
- Valve"D"Controls Delay Range. (Optional)

Opening Cycle

•"Backcheck"valve controls the strength of cushioning in Backcheck Range. NEVER close this valve completelyit is not to provide a positive stop. (see Figure 2).

HOW TO ADJUST SPRING POWER (see Figure 3.)

BE NOTED THIS 990SERIES ARE SET DOWN AS DOOR CLOSER SIZE 3 FROM THE FACTORY.

Installation

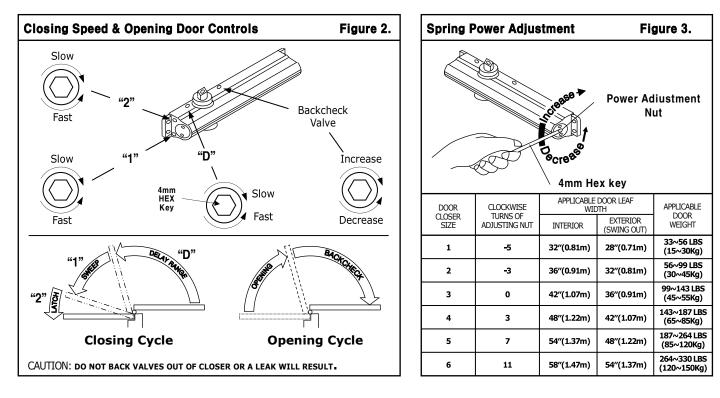
Instructions

K-990 SERIES

Series can be adjusted from

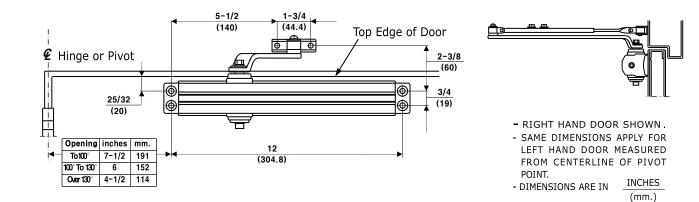
Power size 1 thru 6.

EX. SIZE 2 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT ANTI CLOCKWISE 3 TURNS BECAUSE IT WAS SET DOWN AS SIZE 3 FROM THE FACTORY ORIGINALLY. ALSO IN A SAME WAY SIZE 6 CLOSER CAN BE MADE BY ROTATING SPRING ADJUSTING NUT CLOCKWISE 11 TURNS.



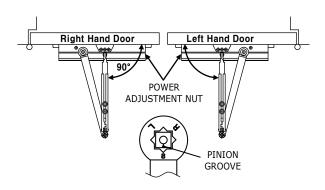
Regular Arm

Installation Instructions



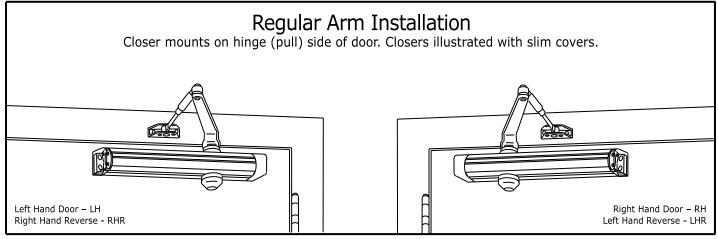
PLEASE NOTE

- This drawing is not to full scale.
- Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.
- Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.



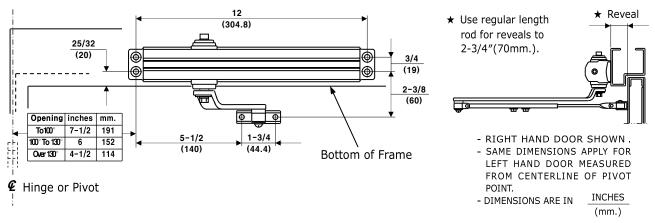
INSTALLATION INSTRUCTIONS

- Select angle of opening and use dimensions shown to locate 4 HOLES ON DOOR for closer body and 2 HOLES ON FRAME face for arm shoe.
- Prepare door and frame for fasteners. See"Preparation for Fasteners", page 1-figure 1.
- Set closing power for door size using Chart see page 1-figure 3.
- Mount closer body on door with screws ②or③, page 1-figure 1.
- **Be sure that power adjustment nut is away from hinge.** • Place main arm on closer pinion shaft with screw (1) page 1-figure 1.
- Indexing main arm mark"S" with pinion groove as shown at right.
- Fix arm shoe to frame with screws (4)or(5), page 1-figure 1.
- Insert connecting rod into forearm.
- Pull main arm toward opposite side of hinge so that connecting rod will be perpendicular to door. Fix connecting rod on forearm using screws (6), page 1-figure 1.
- Adjust closer and install cover and pinion cap. (When full cover is installed, use screws ⑦, page 2- figure 1.)
- See page 1(figure 2.) for closer adjustment.



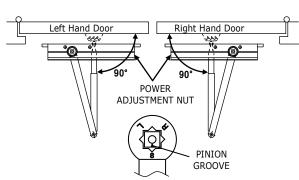
Top Jamb





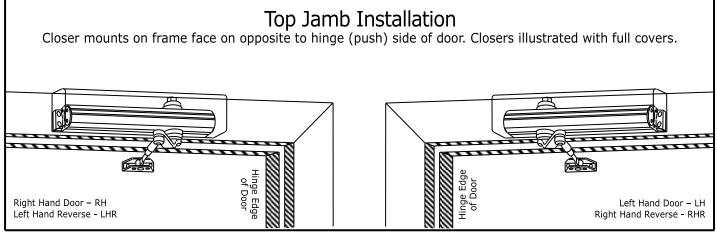
PLEASE NOTE

- This drawing is not to full scale.
- Therefore, do not use it as your template to locate the hole positions while you fabricate your door and frame for the installation of this product.
- Instead make the measurements needed manually without the use of the enclosed template which is not to full scale.



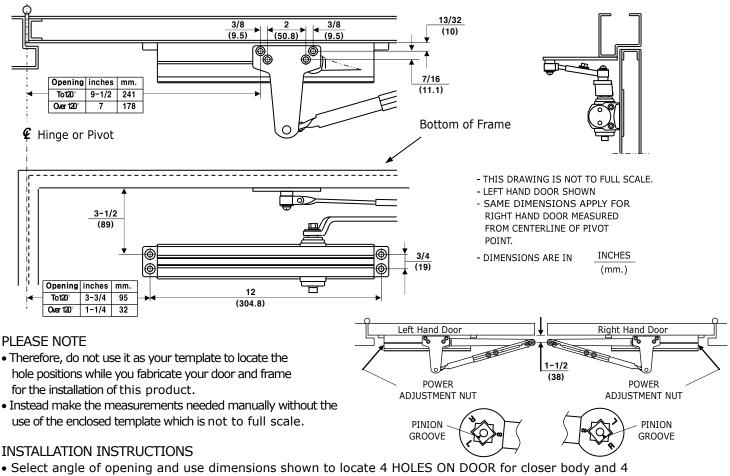
INSTALLATION INSTRUCTIONS

- Select angle of opening and use dimensions shown to locate 4 HOLES ON FRAME for closer body and 2 HOLES ON DOOR face for arm shoe.
- Prepare door and frame for fasteners. See"Preparation for Fasteners", page 1-figure 1.
- Set closing power for door size using Chart see page 1-figure 3.
- Mount closer body on frame with screws (2)or(3), page1- figure 1. Be sure that power adjustment nut is away from hinge.
- Place main arm on closer pinion shaft with screw (1) page 1-figure 1. Indexing main arm mark"S" with pinion groove as shown at right.
- Fix arm shoe to door with screws (4)or(5), page 1-figure 1.
- Insert connecting rod into forearm.
- Pull main arm toward opposite side of hinge so that connecting rod will be perpendicular to door. Fix connecting rod on forearm using screws (6), page 1-figure 1.
- Adjust closer and install cover and pinion cap. (When full cover is installed, use screws ⑦, page 1- figure 1.)
- See page 1(figure 2.) for closer adjustment.



Parallel Arm

Installation Instructions



- HOLES ON FRAME face for parallel arm bracket.
- Prepare door and frame for fasteners. See"Preparation for Fasteners", page 1-figure 1.
- Set closing power for door size using Chart below right and see page 1-figure 3.
- Mount closer body on door with screws (2)or(3), page 1-figure 1. Be sure that power adjustment nut is toward hinge.
- Place main arm on closer pinion shaft with screw ① page 1-figure 3. indexing main arm mark **L** or **R** with pinion groove as shown at right.
- Fix parallel arm bracket to frame with screws (9) or (10), page 1-figure 1.
- Disconnect arm shoe from connecting rod by removing screw. Remove arm shoe from connecting rod and discard. Assemble parallel arm bracket to connecting rod with screw (3), page 1-figure 1.
- Insert connecting rod into forearm.
- With door closed, adjust length of forearm and connecting rod so that the tip of the main arm is 1-1/2" (38mm.) from parallel with door. Secure with screws (6), page 2.
- Adjust closer and install cover and pinion cap.(When full cover is installed, use screws ⑦, page 1-figure 1.)
- See page 1(figure 2) for closer adjustment.

Parallel Arm Installation

