



Installation Instructions for 90 x 180 degree hardware

STEP A—PREPARATION

Frame opening should be measured and compared with order dimensions for both width and height. Size of door is marked on shipping carton. Frame opening must be square and plumb—if not, the frame must be plumbed. **THE DOOR MUST BE INSTALLED PLUMB.**

STEP B—LOCATING AND DRILLING HOLES: (view illustrations)

1. Examine hardware (V-Cam and Lower Hinge Guard) and compare to the illustration prior to drilling.

Rest the 180 degree V-Cam on the jamb, measure the upper-most hole on the inside of the jamb to 2 3/8" and mark the center. Drill a pilot hole 3/16" diameter.

STEP C—INSTALLATION OF DOOR PANEL

1. Slip V-Cam over upper pin assembly. Then slip roller assembly over the upper pin until the pin is flush with the top of the roller assembly (see illustration) and the centerline of the bearing is in line with the door centerline. Tighten the upper socket head cap screw in the roller assembly with the allen wrench. If the door (s) are equipped with spring assist, install threaded shaft in lower pin assembly as per instructions.
2. Fasten Lower Hinge Guard (LHG) to door jamb.
3. Slip lower pin assembly into the LHG.
4. Once lower pin is engaged, lift door to upright position and fasten V-Cam, upper hinge shock absorber and upper backer plate to jamb with (4) fasteners as illustrated. Tighten (4) fasteners.

NOTE: To remove door at any time in the future, remove the (4) upper fasteners. Lower hinge assembly must be lubricated at this point.

TOOLS REQUIRED

3/8" drive ratchet handle
3/8" drive 3/8" 6pt. Socket
1/2" open end wrench
9/16" open end wrench
Hammer
Level or Plumb Bob
Drill
Drill Index
Extension Cord
Measuring Tape
Center Punch
Allen Wrench



Scan for Video

STEP D—ALIGNING AND SEALING:

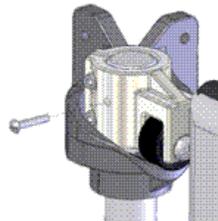
1. In and out (swing) adjustment.
 - a) Slip the 7/8” plywood block (in parts bag) under the door. Loosen upper set-screw on roller assembly.
 - b) Align top of door panel parallel to the header.
 - c) Retighten set-screw securely and remove the 7/8” plywood block.
 - d) Upper hinge assembly must be lubricated at this point.
2. Up and down adjustment. *Full gasket doors only.
 - a) Making sure the in and out adjustment is not disturbed, loosen cap screws slightly on roller assembly and raise or lower door until lower gasket just comes in contact with the finished floor. Retighten both cap screws securely.

STEP E: To install the second door panel, block the first door open and repeat the installation procedure.

STEP F: Install the top seal on the header, drill through the aluminum angle into the header using self-drilling screws provided (illustrated on following pages). *Full gasket door only.

NOTE: (If door is equipped with a spring assist assembly, complete installation per instructions at this point.)

STEP H: Secure Panel. A 5/16” x 2” stainless steel roll pin is provided to set panels to the proper closing position and to prevent any slippage in the roller assembly due to impact. While the door is in the closed position drill a 5/16” hole directly through the side of the roller assembly into and through the hinge adapter. Insert roll pin into the drilled hole.



STEP I: Install Top Hinge Seal. (view illustrations)

180 x 90 Degree Door-Spring Assist Instructions

1. Insert threaded shaft into lower hinge pin until jamb nut is bottomed out.
2. Slide washer and spring over the hinge adapter shaft.
3. Thread adjustment washer and tighten until desired closing action is obtained.

Note: Over tightening will cause the spring to bottom out,
limiting the swing of the door to less than 180 degrees.

4. Thread nut below adjustment washer to prevent slippage.

