**STEP 1. MARKING AND DRILLING JAMB FOR HARDWARE.**

FACE THE OPENING FROM THE 180° SWING SIDE. ALL REFERENCES TO LEFT AND RIGHT SIDES IN THESE INSTRUCTIONS SHOULD BE TAKEN AS VIEWING THE JAMB FROM THIS PERSPECTIVE.

THE V-CAMS 3 ARE MARKED WITH AN “L” FOR LEFT SIDE AND AN “R” FOR RIGHT SIDE. THEY ARE MARKED ON THEIR LOWER SURFACE. INSTALL V-CAMS WITH THE MARKED SURFACE DOWN.

Pillow Blocks 2 ARE MARKED WITH A PART NUMBER ON THEIR UPPER SURFACE. INSTALL Pillow Blocks 2 WITH THE MARKED SURFACE UP.

PLACE TEMPLATE 1 ON THE FACE OF JAMB ON THE 180° SWING SIDE.

WITH BOTTOM OF TEMPLATE 1 TOUCHING FLOOR, MARK THE FOUR LINES ON TEMPLATE 1 ONTO FACE OF JAMB. REMOVE TEMPLATE 1. EXTEND THE FOUR LINES ACROSS THE FACE OF THE JAMB WITH A FRAMING SQUARE.

PLACE Pillow Block 2 ON LOWER SET OF TWO LINES ON JAMB FACE (SEE DRAWING “A” AT BOTTOM LEFT OF PAGE). MARK THE FOUR Pillow Block 2 MOUNTING HOLES ONTO JAMB WITH A CENTER PUNCH.


**STEP 2. ATTACHING HARDWARE AND HANGING DOOR.**

ATTACH RIGHT AND LEFT Pillow Block 2 TO JAMB WITH FASTENERS.

LOCATE THE UPPER HINGE POST 4 AND PLACE V-CAM 3 AND Roller Assembly 5 ON HINGE POST 4 (MAKE SURE LEFT HAND AND RIGHT HAND V-CAMS ARE ON THE PROPER DOORS. WHEN THE DOORS ARE IN THE CLOSED POSITION THE BACK GASKET SHOULD BE ANGLED BACK TOWARD THE JAMB).

EXTEND THE FOUR LINES ACROSS THE FACE OF THE JAMB WITH A FRAMING SQUARE.

PLACE Pillow Block 2 ON LOWER SET OF TWO LINES ON JAMB FACE (SEE DRAWING “A” AT BOTTOM LEFT OF PAGE). MARK THE FOUR Pillow Block 2 MOUNTING HOLES ONTO JAMB WITH A CENTER PUNCH.


**STEP 3. DOOR SWING AND HEIGHT ADJUSTMENT.**

PLACE 7/8” Door Adjuster Pipe 7 UNDER DOOR. LOOSEN THE UPPER CAP SCREW ON THE ROLLER ASSEMBLY 5 AND SET THE BEARING IN THE LOWEST POSSIBLE POSITION OF THE V-CAM 3.

SWING DOOR UNTIL IT IS PARALLEL TO THE JAMB HEADER AND TIGHTEN THE UPPER CAP SCREW. (REPEAT SWING ADJUSTMENT ON SECOND PANEL.)


CAREFULLY OPEN THE DOOR AND TIGHTEN THE LOWER CAP SCREW ON THE ROLLER ASSEMBLY. CHECK THE FUNCTION IN BOTH DIRECTIONS. BE SURE TO CHECK THE ALIGNMENT AND HEIGHT ADJUSTMENT OF THE DOORS BEFORE PINNING THE ROLLER ASSEMBLY.

**NOTICE:** FAILURE TO INSTALL THE ROLL PIN INTO THE ROLLER ASSEMBLY AS OUTLINED IN THESE INSTRUCTIONS WILL VOID ANY AND ALL WARRANTIES PERTAINING TO THIS PRODUCT! PLEASE REFER TO PAGE 2 SECTIONS “D” AND “E” AT THIS TIME.

*NOTE: ON FULLY GASKETED DOORS ONLY - LOOSEN THE ROLLER ASSEMBLY UPPER CAP SCREW SLIGHTLY AND RAISE OR LOWER DOOR UNTIL BOTTOM GASKET JUST TOUCHES FLOOR.*
D. SPRING ASSIST INSTALLATION.

**CAUTION:** SPRING COILS MUST NOT TOUCH WHEN DOOR IS IN THE FULLY OPEN POSITION. OVER TIGHTENING THE SPRING ASSIST WILL SEVERELY DAMAGE YOUR ROLLER ASSEMBLY.

**FOLLOW DOOR INSTALLATION THROUGH ATTACHING HARDWARE AND HANGING DOOR ON PAGE 1 BEFORE PROCEEDING.**

**A.** PLACE WASHER ON BOTTOM OF LOWER HINGE ADAPTER SHAFT. INSERT THREADED SHAFT INTO LOWER HINGE ADAPTER POST UNTIL THE WELDED JAMB NUT BOTTOMS OUT, TIGHTEN ONE HALF TURN WITH AN OPEN END WRENCH. PLACE SPRING OVER THREADED SHAFT AND THEN PLACE ADJUSTMENT WASHER ONTO THREADED SHAFT. DO NOT TIGHTEN AT THIS TIME.

**B.** COMPLETE STEP 3, "DOOR SWING AND HEIGHT ADJUSTMENT" ON PAGE 1 AND "ROLLER PINNING INSTRUCTIONS" BELOW, THEN PROCEED TO STEP "B":

TIGHTEN ADJUSTMENT WASHER UNTIL THE DESIRED CLOSING ACTION IS OBTAINED. PLACE OPEN END WRENCHES ON THE ADJUSTMENT WASHER AND THE JAMB NUT, TURN ONE AGAINST THE OTHER TO LOCK THE ADJUSTMENT WASHER IN PLACE.

**E. ROLLER PINNING INSTRUCTIONS.**

**NOTES:** DO NOT PIN ROLLER ASSEMBLY UNTIL SPRING ASSIST INSTALLATION STEP "A" IS COMPLETED, AS THIS PROCEDURE WILL PERMANENTLY FIX THE DOORS IN THEIR OPERATIONAL ARC. THE DOORS MUST BE IN EXACT ADJUSTMENT PRIOR TO DRILLING FOR ROLL PIN INSTALLATION.

LOCATE THE CONICAL POINT ON THE SIDE OF THE ROLLER ASSEMBLY, USE THE 3/16" DRILL BIT INCLUDED IN YOUR HARDWARE PACK (See Right Hand Hardware Pack for Double Doors), AND DRILL THE ROLL PIN MOUNTING HOLE AS FOLLOWS:

- AT THE CONICAL POINT, DRILL A 3/16" DIA. HOLE PARALLEL TO THE SOCKET HEAD CAP SCREWS AND PERPENDICULAR TO THE HINGE POST, COMPLETELY THROUGH THE ROLLER ASSEMBLY AND THE HINGE POST.
- TAP THE ROLL PIN (Included in Hardware Pack) THROUGH THE HOLE LEAVING AN EQUAL AMOUNT OF ROLL PIN ON EACH SIDE.
- CHECK THE ALIGNMENT OF THE SECOND (Unpinned Door) WITH THE PINNED DOOR AND MAKE ANY ALIGNMENT CORRECTIONS BEFORE PINNING THE SECOND DOOR.

**F. TOP SEAL INSTRUCTIONS.**

PLACE TOP SEAL EXTRUSION ON HEADER FACE, CENTER TOP SEAL ABOVE OPENING.

ADJUST FOR HEIGHT AS SHOWN AT RIGHT. THE TOP SEAL SHOULD JUST BRUSH THE TOP OF THE DOOR PANELS.

DRILL PILOT HOLES WITH A 1/8" DRILL BIT.

ATTACH TO HEADER FACE WITH 1/4" x 1" TEK SCREWS.

**G. HINGE SEALS AND LOWER HINGE GUARD.**

**NOTE:** SPRING ASSIST MUST BE INSTALLED BEFORE LOWER HINGE GUARD.

SNAP SOLID RISER [OPEN END UP] ON TO UPPER HINGE POST. WITH SLITS DOWN, PLACE UPPER HINGE SEAL [AROUND SOLID RISER]

WITH DOORS CLOSED, BOTTOM OF UPPER HINGE SEAL [SHOULD JUST TOUCH UPPER HINGE POST ADAPTER] MARK INSIDE SET OF MOUNTING HOLES NEXT TO THE V-CAM, AND DRILL (SEE CHART BELOW FOR DRILL BIT SIZE).

FASTEN UPPER HINGE SEAL [TO THE INSIDE OF THE JAMB NEXT TO THE V-CAM].

WRAP THE UPPER HINGE SEAL [AROUND THE SOLID RISER] AND ATTACH THE REMAINING SIDE TO THE JAMB FACE OR WALL ON THE 180° SIDE OF THE OPENING.

SNAP LOWER HINGE GUARD [OVER SPRING ASSIST]. SET BOTTOM OF HINGE GUARD [ON FLOOR]. CENTER HINGE GUARD [AROUND SPRING ASSIST, AND PRESS AGAINST JAMB]. USE MOUNTING HOLES IN HINGE GUARD [TO MARK LOCATIONS FOR DRILLING JAMB].

REPLACE LOWER HINGE GUARD [AND DRILL HOLES (SEE CHART FOR DRILL BIT SIZE)].

ATTACH LOWER HINGE GUARD WITH FASTENERS.

PLACE LOWER HINGE SEAL [INSIDE NOTCH ON LOWER HINGE GUARD] [BOTTOM OF LOWER HINGE SEAL [SHOULD BE EVEN WITH LOWER EDGE OF HINGE GUARD]. PLACE ENDS OF LOWER HINGE SEAL [ON JAMB AS CLOSE TO PILLOW BLOCK AS PRACTICAL].

MARK AND DRILL HOLE LOCATIONS (SEE PAGE 1 FOR DRILL BIT SIZES). ATTACH HINGE SEAL WITH FASTENERS PROVIDED IN HARDWARE PACK.

**DRILL BIT SIZES FOR:**

- FOR STEEL JAMBS UP TO 3/8" THICK, USE: 1/8" DRILL BIT.
- FOR STEEL JAMBS 3/8" THICK AND OVER, USE: 3/16" DRILL BIT.

**FASTENERS FOR:**

- FOR STEEL JAMB USE: 1/4" X 1" TEK SCREW.
- FOR STEEL JAMB USE: 1/4 X 1-1/2" TEK SCREW.

**H. DURULITE 180° X 90° LIMITING POST LOCATION CHART**

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