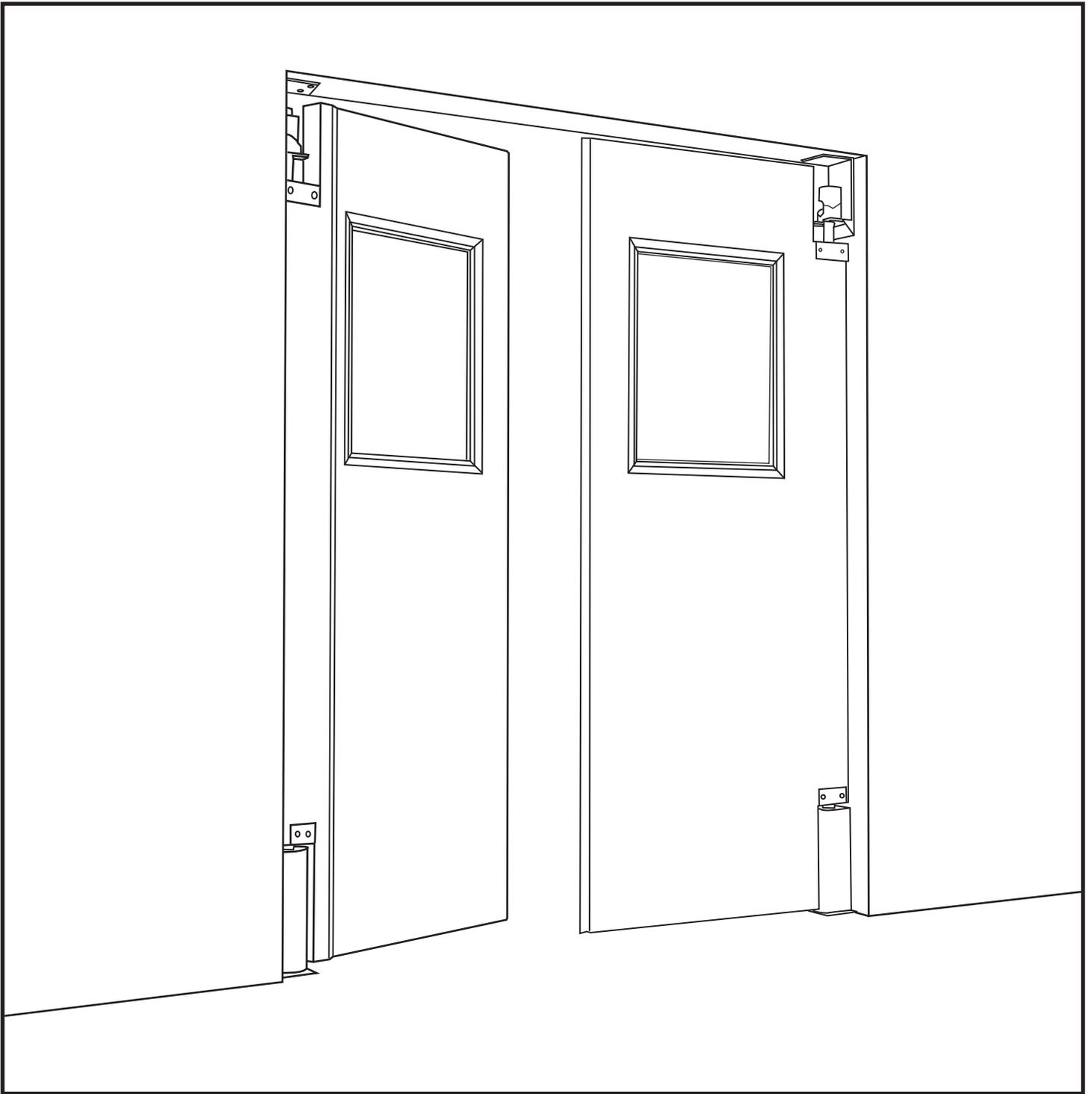


ALECO[®]
E.S. ROBBINS

IMPACDOR[®]



Installation Instructions for Doors
with Helical Cam Hardware

IMPACDOR® HD-175

Before Proceeding

Inspect the doors, hinges, windows and seals for damage. Confirm correct door opening with door size as listed on packing slip. Be sure both halves of the V-cam hinge are present on the upper shaft (the lower cam should slide freely on the shaft). Consult factory if anything is damaged or missing.

Required Tools

- Electric Drill (preferably 1/2")
- Plumb Bob
- Center Punch
- Chalk Snap
- 1/4" Drill Bit
- 1/2" Drive Socket
- 5/16" Drive Socket
- 3/8" Drive Socket
- 3/16" Ball-End Allen head Screwdriver (Supplied by Aleco)

Fasteners Supplied

To Mount Top and Bottom Brackets:

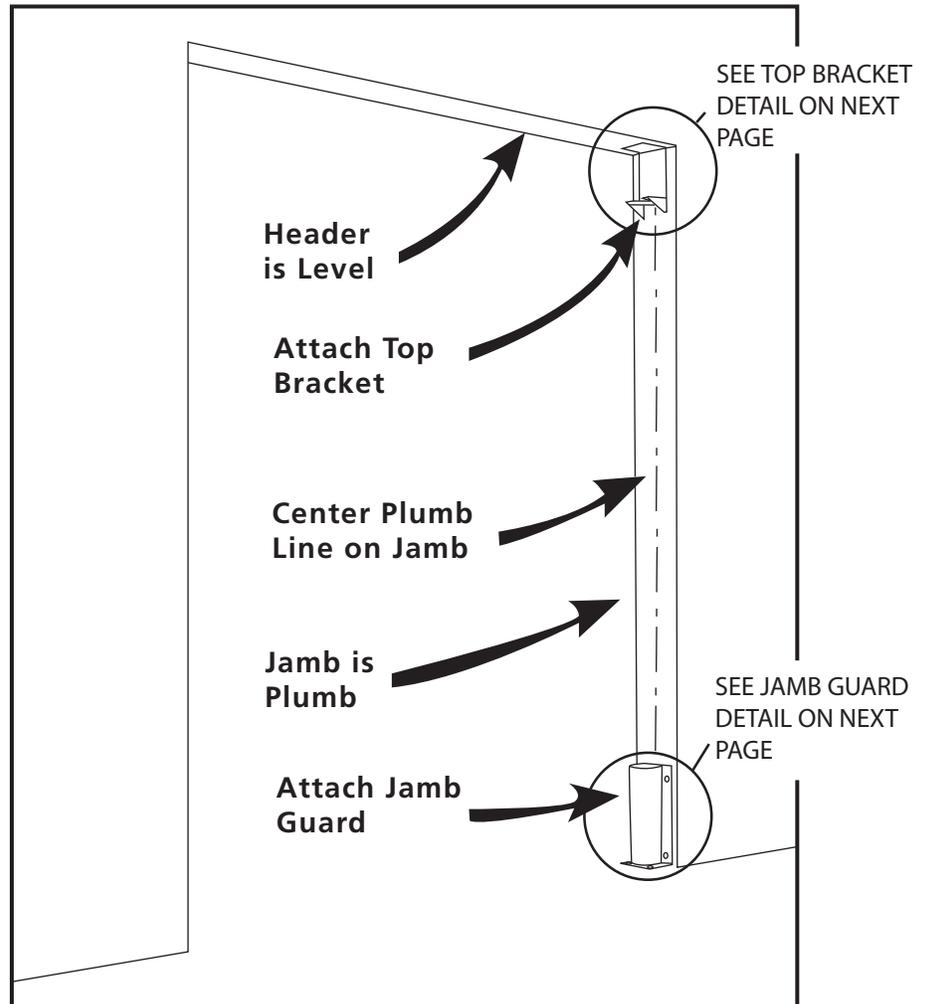
- 5/16" x 2 1/2" Lag Screws (for wood jambs)
- #14 x 1 Self-Tapping Hex Head Screw (for steel jambs)

To Secure Follower to Top Bracket:

- Allen Head Set Screw (pre-installed in follower)

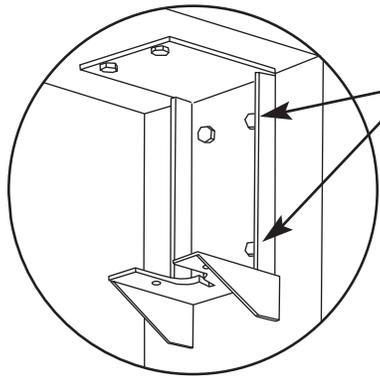
To Secure Cam Shields and Header Air Seal:

- #10 Sheet Metal Screws



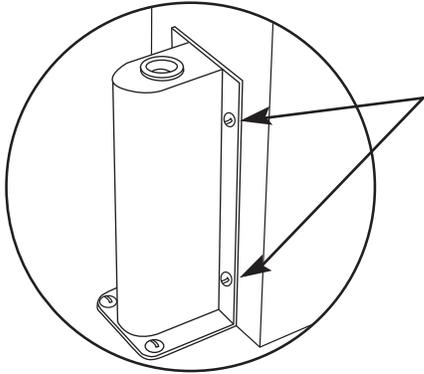
Step 1 Doorway Preparation

- 1.1 Check jamb and header for plumb, level and square. Measure diagonals in doorway to test.
- 1.2 Snap a chalk line to indicate center plumb line on jamb.
- 1.3 With top of the upper mounting bracket butting against the header, line up the centerline on the bottom of the bracket with the jamb centerline. Use the bracket as a template to mark the hole locations on the jamb and under the header if applicable. Center punch the holes.
- 1.4 With the jamb guard resting upon the floor, line up the centerline on the top of the guard with the jamb centerline. Use the jamb guard as a template to mark the hole locations on the jamb. Center punch the holes.
- 1.5 Using #7 drill bit, drill pilot holes on centers in jamb (and header if applicable) to accommodate self-tapping bolts or lag screws. Then secure bracket to jamb with appropriate fastener - wood lag or self-tapper.

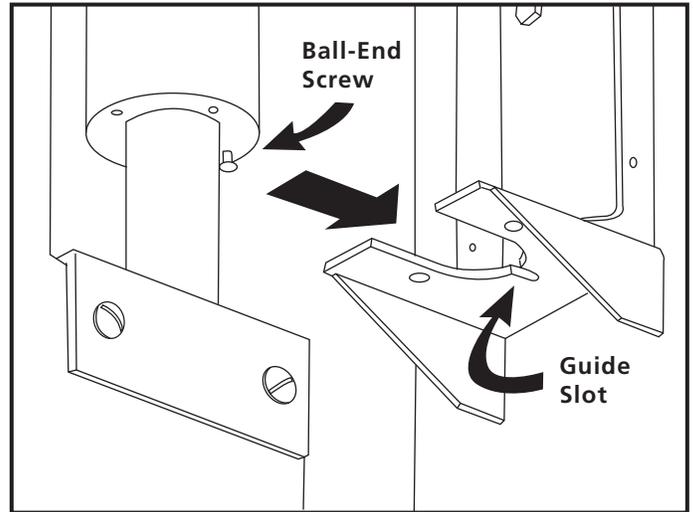


Top Bracket Mounting Screws
 #14 x 1" Self-Tapping (for steel)
 5/16" x 2 1/2" Lag Screw (for wood)

Shown with angle for wooden header.

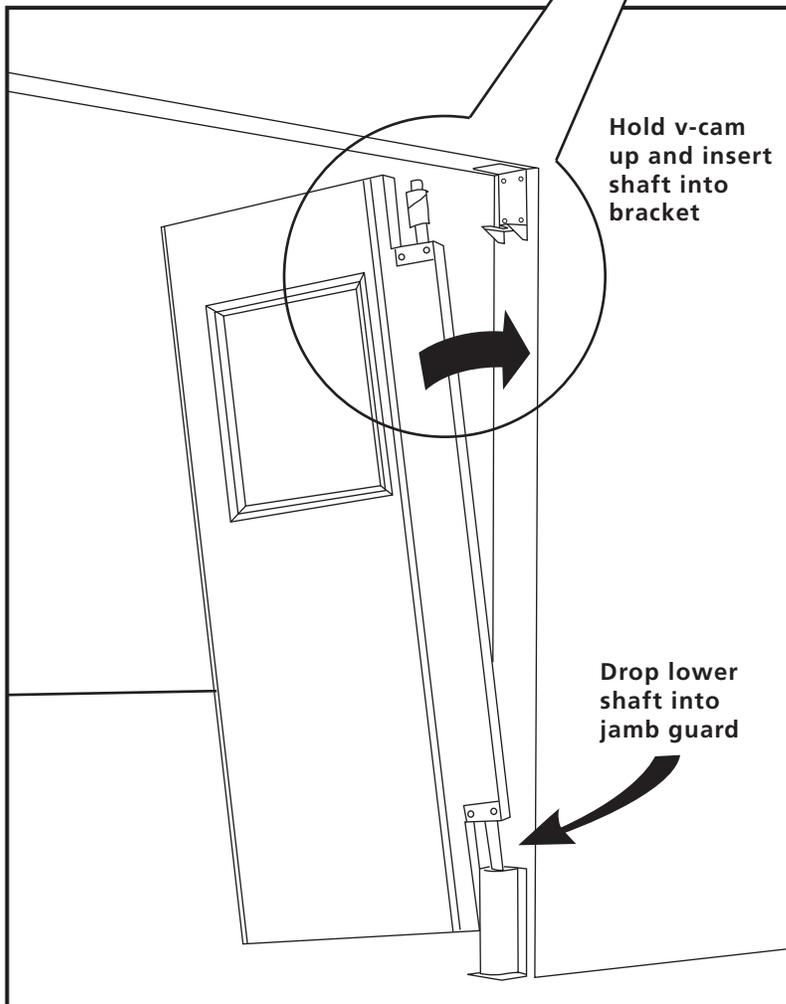


Jamb Guard Mounting Screws
 #14 x 1" Self-Tapping (for steel)
 5/16" x 2 1/2" Lag Screw (for wood)



Hinge and Bracket Installation

Note: Guide the pre-installed ball-end screw into the guide slot in upper bracket to ensure correct alignment of mounting holes in v-cam.

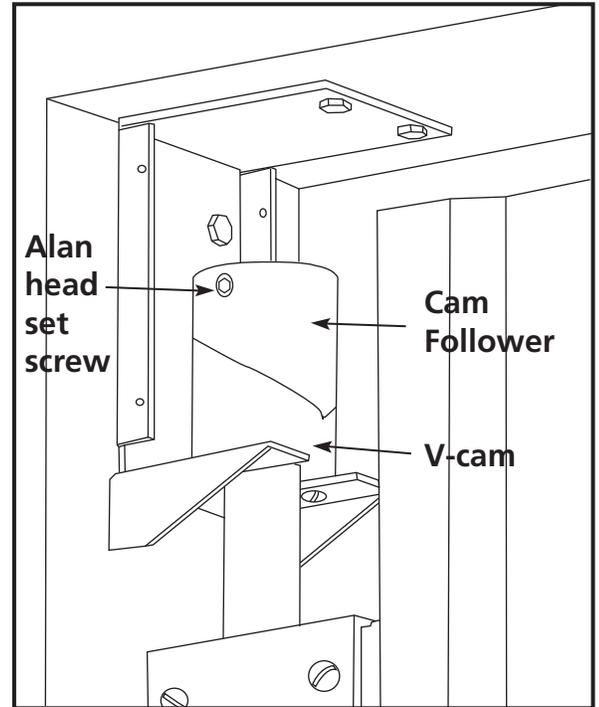


Step 2 Door Installation

- 2.1 A 1/4" ball-end screw should be pre-installed in the bottom of the lower cam. If it is not, screw it into the hole opposite the "V" allowing it to protrude about 1/4". Also check to see that the set screw on the upper cam is securely tightened.
- 2.3 Hold the door in the doorway at a partially open position and tilt it downward slightly to face the floor while sliding the lower shaft into the jamb guard hole.
- 2.4 Hold the lower cam up against the upper cam and guide the shaft into the upper bracket. Seat the lower cam upon the bracket being sure the screw enters the small slot in the bracket and that the remaining holes in the cam align with the holes in the bracket.
- 2.5 Secure the cam to the bracket by inserting and tightening the remaining two ball-end screws.

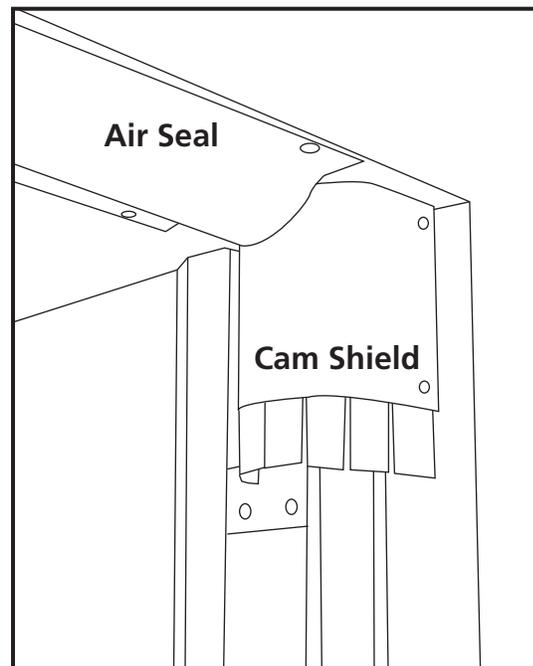
Step 3 Adjustments

- 3.1 If door is slightly ajar and does not meet opposing door or jamb: loosen set screw on cam follower, rotate the door to desired position and retighten screw.
- 3.2 Raise door until cam follower clears the lower V-cam.
- 3.3 Loosen set screw and rotate the cam follower 360 degrees as follows:
 - 1 full rotation clockwise to raise the door 1/4"
 - 1 full rotation counterclockwise to lower the door 1/4"
- 3.4 Repeat step 3.3 as needed. When finished lower the door until the cams are seated together and retighten the set screw.



Step 4 Seal Installation

- 4.1 Center header air seal above door. Using double-coated tape, position anchor strips so seal loops down, lightly touching top of door.
- 4.2 Drill pilot holes in header with 9/64" bit. Secure seal with #10 tek screws using 5/16" socket.
- 4.3 Attach cam shields to bracket using #10 sheet metal screws. Mounting holes are pre-drilled in sides of bracket (see illustration).



CONTACT AN ALECO REPRESENTATIVE FOR FURTHER ASSISTANCE

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