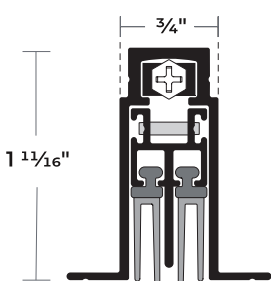




## INSTALLATION INSTRUCTIONS

### 423NA

Heavy Duty  
Mortise Automatic  
Door Bottom



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Applicable Certifications  
for this Product.



POSITIVE PRESSURE  
TESTED GASKETING  
MATERIALS FOR  
FIRE DOORS FOR  
APPLICATION TO  
HOLLOW-METAL-TYPE  
FIRE DOORS RATED  
UP TO 3 HOURS AND  
WOOD-TYPE FIRE  
DOORS RATED UP TO  
1½ HOURS.  
CATEGORY H

SMOKE AND DRAFT  
CONTROL GASKETING  
(CATEGORY H) TESTED  
TO UL 1784; MEETS  
REQUIREMENTS  
OF NFPA 105, IBC FOR  
USE ON "S" LABEL  
DOORS.



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1. Cut ¾" (19mm) wide x 1 11/16" (42.9mm) deep mortise (**centered**) in bottom of door.
2. Place door on a clean table or platform (**stop face of door up**).

**Sizing the ADB to fit door (36" ADB are precut to 35 ½" unless requested otherwise).**

1. Remove drop bar and spring assembly from case, pull assembly out from plunger (adjusting nut) side prior to cutting the ADB.
2. Measure the door width (**stop face side**).
3. Measure ADB length.
4. Mark and cut ADB case 1/16" (1.5mm) less than stop face door width (**remember cut the case only from the non-plunger side**) spring assembly and drop bar should be removed from case prior to cutting case down. ADB's from 12" to 18" can only be cut down ½". ADB's 20" and over can be cut down up to 1 ½".
5. File or sand any burrs from cutting the ADB case to length.
6. Position ADB case in door mortise, verify length is 1/16" shorter than door width, (**ADB case cannot extend beyond width of door**) trimming fastener flanges may be necessary on beveled edge doors.
7. Sizing the Bar & Spring Assembly.
8. Remove the rubber inserts from bar and spring assembly.
9. Cut bar ¼" (6mm) less than case width. Insert the bar and spring assembly into the ADB case, from the hinge side of door, spring con-blocks slide into upper cavity, bar slides below, until spring assembly hits preset stop, Push the bar into case until the bar stops, bar should be slightly in-set at both ends.

#### Mounting ADB to Door

1. Rubber insert should be removed, prior to mounting ADB (slide out from plunger end).

*Continued on back*

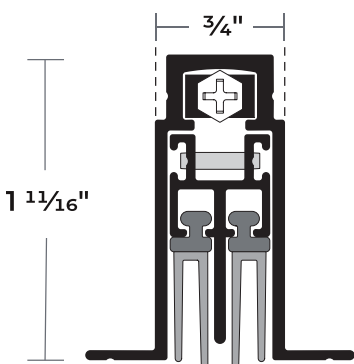


# INSTALLATION INSTRUCTIONS

*Continued from front*

## 423NA

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2. With the door removed from the opening, install the ADB in mortised slot on bottom of door, with the plunger (adjusting nut) on the hinge side.
3. Align ADB case, plunger end, flush with edge of door, this is where trimming the mounting flange, on the plunger side, will allow slightly more room on the lock edge of the door.
4. Mark screw holes, drill a pilot hole, using a  $\frac{5}{64}$ " (2mm) drill bit (**Drill Holes Straight**).
5. Insert fasteners straight, do not angle screws, tighten fasteners in place.

**Install End Plates (plate with hex hole is used on plunger side, plate without hex hole is used on lock edge of door).**

1. Install metal end plate without hex hole on lock edge of door. First, bottom of end plate should be flush with bottom of door, plate should be centered on edge of door, use painters' tape to help hold plate in place while you predrill hole using the  $\frac{5}{64}$ " (2mm) drill bit and install fasteners..
2. End plate on plunger end of ADB can be located and pilot holes drilled to make installation easier after ADB has been adjusted. Extend plunger about  $\frac{1}{2}$ " (12mm) prior to locating mounting plate, use painters' tape to help hold plate, make sure Plunger can move in and out easily prior to drilling pilot holes with  $\frac{5}{64}$ " (2mm) drill bit. Do not install plate, this is one of the last steps after door is hung and ADB is adjusted.

### Install Door Seals

1. Slide (2 ea.) seals into drop bar from the plunger end, (**ensure the bar is still flush with the case on the plunger side**) until making contact with end plate on lock edge of door. On plunger side, mark seals using a marker or pencil, flush with edge of door, pull seal out of drop bar about 6" and cut along mark. Rubber seal can be cut using scissors.
2. Once seals are cut and pushed back in place, install end plate on plunger end, (using pre-drilled holes) once installed depress plunger to make sure the ADB is working properly.
3. Remove endplate on plunger end and tighten plunger back in to avoid any possible damage while rehanging the door.
4. Rehang door.
5. Set plunger (adjusting nut) for proper seal, to reduce drop turn adjusting nut right, to increase drop, turn adjusting nut left. Maximum drop  $\frac{3}{4}$ ".

**Warning:** Do not over adjust the plunger (adjusting nut). It is only necessary to lightly touch or compress the insert gaskets against the sealing surface to provide proper sealing. Over adjustment can cause internal component failure; voiding the warranty.

### DO NOT Use Power Tools to adjust

Once adjusted, install end plate on plunger (hinge edge) of door.

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