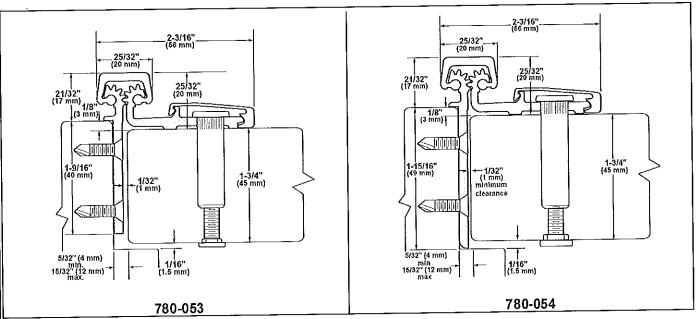


ROTON INSTRUCTION SHEET ROTON MODEL: 780-053, 054

PART NO: 75008053 **REVISION: 021510**

HAGER Companies - 139 Victor Street - St. Louis, MO 63104 1(800)-325-9995

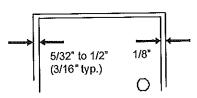


ROTON Model 780-053 and 780-054 are Aluminum Continuous Geared Half Surface Hinges that provides 1/8" door inset. These can be used with any standard frame without hinge preps, and either with or without reinforcements depending on door weight. Minimum clearance between the hinge edge of the door and the frame is 5/32" (4mm). "HD" models have additional bearings for heavy-duty application.

Hinge Length

All ROTON Hinges are supplied approximately 1" to 1-5/16" shorter than the nominal door height to avoid threshold or carpet clearance problems. If the hinge must be trimmed shorter, first determine the correct hand of the door and orientation of the hinge. Then mark and trim from the bottom of the hinge only - do not cut from the top end.

Total Clearance	Between	Door And	Frame Width	j



SINGLE DOOR

Hinge side clearance (typical) Latch side dearance (typical)

3/16" (4.7mm) 1/8" (3.2mm) 5/16" (7.9mm)

8 / 15 6'-8" 79° (2006mm) 8 / 19 7'-0" 83° (2108mm) 8 / 19 7'-2" 85" (2159mm) 95" (2413mm) 9 / 19 8'-0° 10 / 21 10'-0" 119" (3022mm)

Now, Hinge

LENGTH

PAIR OF DOORS

3/16

First hinge side clearance (typical) Clearance between doors (typical) Second hinge side clearance (typical)

Nom. Door

HEIGHT

5/32" to 1/2"

(3/16* typ.)

3/16" (4.7mm) 3/16" (4.7mm)9/16" (14.1mm) TOTAL

3/16" (4.7mm)

5/32" to 1/2"

(3/16" typ.)

NUMBER OF

FASTENERS

(Door/Frame)

General Fitting Procedure

- For new construction with metal doors/frames: To accommodate the proper clearance between the door and frame, order the door undersized or the frame header oversized. See the clearance information above to attain the proper size. A minimum clearance of 5/32" (4.0mm) is required between the hinge edge of the door and the frame rabbet. Mortar guards, either styrofoam or wood, are recommended for frames to prevent grout from interfering with the installation of the hinge fasteners.
- For new site-hung wood doors: If necessary, scribe and cut from the latch edge of the door to leave sufficient hinge stile thickness for proper fastening. See the clearance information above to attain the proper finished width of the door. A minimum clearance of 5/32" (4.0mm) is required between the hinge edge of the door and the frame rabbet.
- For remodeling with existing wood or laminate doors: If necessary, scribe and cut from the hinge edge of the door and plane smooth. See the clearance information above to attain the proper finished width of the door. A minimum clearance of 5/32" (4.0mm) is required between the hinge edge of the door and the frame.

Date: 021510 Drawn By: DW Revision #: 2 | Rev. Description: PLACED IN CAD FORMAT DWG # 75008053 A



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Installation Procedure

Frame Preparation (See Fig. 1)

- 1. With the hinge open, place the hinge frame leaf against the frame rabbet making certain that the alignment rib is flush against the frame face along its entire length. Position the top of the hinge 1/16" (1/8" maximum) below the header. Note: A 1/16" shim is recommended due to initial settling of the bearings.
- Mark and center punch the screw hole locations. Accurate location is important for proper installation.
- 3. For metal frames 12 gage or less (= .110" /2.8mm), it is not necessary to pre-drill pilot holes if using the self-drilling screws provided. For metal frames thicker than 12 gage (>.110"/2.8mm), drill and tap all mounting holes for #12-24 threads prior to installing screws. For wood frames, pre-drill pilot holes using a #18 (.170"/4.3mm) bit for optional #12 wood screws.
- Attach the hinge to the frame rabbet. For metal frames, use the #12 self-drilling screws provided (recommended driver speed 1,900-2,500 RPM). For wood frames, use optional #12 wood screws.

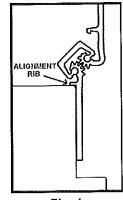


Fig. 1

Ⅷ

Door Preparation

Rotate the hinge leaf out of the way and set the door into the frame, using shims
or wedges to adjust for the desired clearance on all sides.

- 2. Allow an additional 1/32" of clearance on the latch edge of the door at the top only. This will allow for any settling or twisting of the frame that may occur after the shims are removed and the weight of the door is transferred entirely to the frame.
- Allow 1/16" clearance between the top of the door and the frame header rabbet. A
 good method for this is to use a 1/16" thick shim placed over the top edge of the

door

4. With the door held securely in place, rotate the hinge leaf into position on the face of the door.

5. (Standard sexbolt mounting) - Mark and center punch the locations of the larger 3/8" diameter holes. Accurate location is important for proper installation. Rotate the hinge leaf back out of the way. At each mark, drill a hole completely through the door using a 3/8" (9.5mm) bit.

(Optional mounting without sexbolts) - Mark and center punch the locations of the smaller 15/64" diameter holes. For metal doors, use optional #12 self-drilling screws. For wood doors, pre-drill pilot holes using a #18 (.170"/4.5mm) bit for optional #12 wood screws.

Hanging the Door (See Fig. 2)

- Attach the hinge to the door as shown. Sexbolts may be reversed if additional security is needed on the push face of the door, but once the molding is in place reversed sexbolts cannot be accessed for maintenance or removal.
- Remove all shims and wedges and make a gentle trial swing. Carefully check the door for proper swing and clearance.

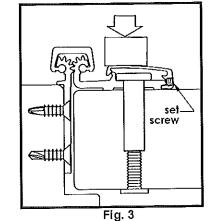


Fig. 2

Install the Snap-On Molding (See Fig. 3)

1. For the door leaf – Locate and loosen the retaining setscrew on the edge of the molding with the 5/64" hex key provided. Hook the thicker leg of the molding under the outside edge of the door leaf along the full length of the hinge. Starting at the top and working downward, press or gently tap the opposite leg of the molding in place (if necessary use a rubber mallet or wood block under a hammer, taking care not to damage the molding). Tighten the retaining setscrew.

