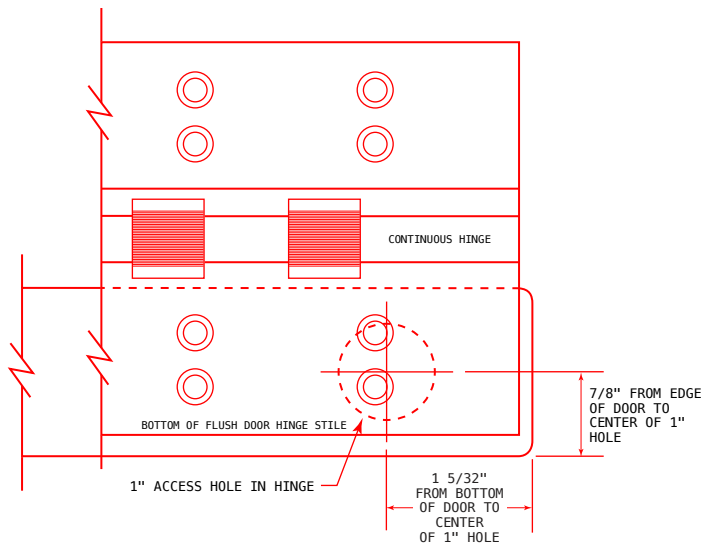


FIELD INSTALLATION INSTRUCTIONS

SL-301 Adjustable Bottom Brush for Flush Doors

Step #1

Remove door and hinge(s) from frame. Lay flat on suitable supports. If butt hinges are used, skip to step #2. If a continuous hinge is used, with hinge still on door, mark center lines as shown in Figure 1 for a 1" hole through the hinge to provide access to the bottom brush adjusting screws. Remove hinge, drill and de-burr hole, and set hinge aside.



LAYOUT 1" ACCESS HOLE ON HINGE
BEFORE REMOVING IT FROM DOOR.
DRILL HOLE AFTER REMOVAL

FIGURE #1

Step #2

Remove any existing sweeps. Remove any surface-applied sweeps. To remove an existing bottom weather bar, locate the prick-punched staking that keeps the brush bar in place, customarily two or three stakes along both bottom edges of the bottom rail. Drill a 3/16" hole into each stake dent, just far enough to relieve the stake. If the door is equipped with a flush-bolt, remove it now. Remove the weather bar. A hammer and screwdriver may be required. If door is equipped with a kickplate, mounting screws may need to be shortened to avoid interference with the SL-301 unit.

Step #3

Remove plastic foam injection gate. Use a wood chisel to first remove the wedge locking the injection gate into place, and then cut through the gate horizontally and vertically, attempting to chop it into quarters. Chisel underneath the gate to sever the four injection nozzles, and remove the gate in pieces. Clear away any excess foam or debris from the rail channel, allowing a clear path for insertion of the SL-301.

Step #4

Prepare hinge stile for unit insertion. For convenience, move the door into a door holder, with the hinge stile up. Following the template in Figure 2, mark centerlines for the two corner holes for enlargement of the cutout at the bottom of the hinge stile. Drill two 5/16" holes. Draw lines tangent to the holes as shown in Figure 2, and cut out excess material with a jigsaw and finish with a flat file. Relieve web in hinge stile as required to allow unit to be flush with low bevel side of door edge to avoid interference with continuous hinge. A sharp wood chisel can be used for this operation. File to clean and de-burr the opening.

A fixture is available from Special-Lite to speed up drilling of the pilot holes if multiple doors are to be retrofit (order drill fixture 301-F70).

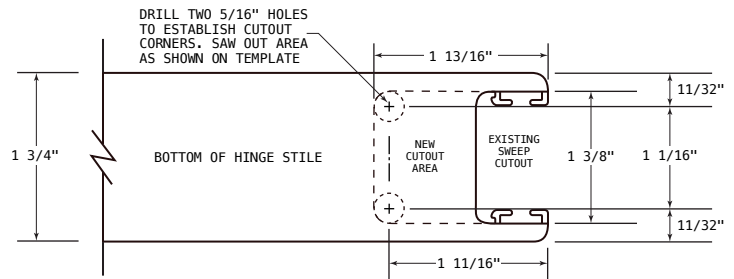


FIGURE #2

SL-301 Adjustable Bottom Brush for Flush Doors

Step #5

Trim SL-301 unit to length. Measure the maximum width of the door (to the high bevel side) and record. Deduct 1/4" for a beveled or radius stile, and 1/8" for a square stile, to determine the overall length for the unit. An alternate method is to slide the unit all the way into the bottom rail, mark where it protrudes beyond the hinge stile on the low bevel side, and transfer that dimension to the other end of the unit for cut-off. Cut unit to length and de-burr. Slide unit into door to check length.

Step #6

Flush Bolt Prep. Skip this step if door is not equipped with flush bolts. If door has flush bolts, remove the unit and reference the back set and prep shape on the old weather bar to reproduce this feature on the new unit. Hand machine a "D" shaped hole through the brush carrier extrusion of the unit, and drill a 5/8" clearance hole through the top housing extrusion. Use the bolt to check final size of the prep and clearance hole alignment.

Step #7

Secure unit in door. Slide unit into channel in rail with adjustment screws toward hinge side of door. The unit is adequately held in place by a continuous hinge and Step #8 can be skipped. Reinstall continuous hinge, omitting any screws that would interfere, and check access to adjusting screws. For doors with butt hinges, the unit must be secured by screws through the lock stile as detailed in Step #8.

Step #8

Secure unit in door with butt hinges. Using dimensions in figure #3, mark centerlines for two holes through the lock stile for screws to secure the unit in place. Drill two 1/4" holes and counter sink for the #10 flat head screws provided. Slide unit into bottom rail and install the two securing fasteners.

A fixture is available from Special-Lite to speed up drilling of these holes if multiple doors are to be retrofit (order drill fixture 301-F70).

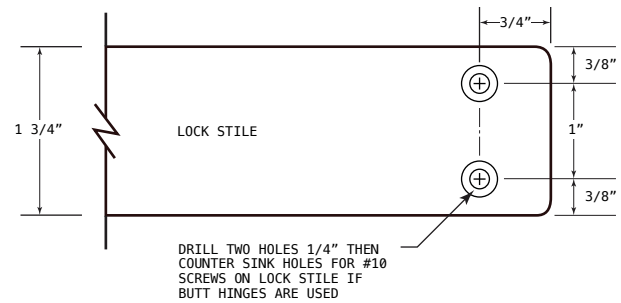


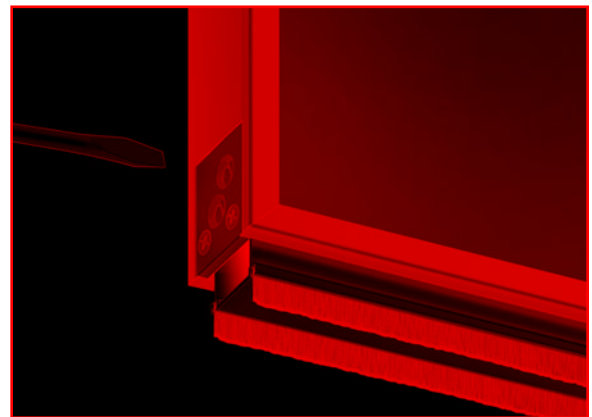
FIGURE #3

Step #9

Install dual brushes. With unit in door, turn adjusting screws counter clockwise to extend the brush carrier out for installation of dual brushes. Cut two brushes to length of slots in bottom of unit. Slide the brushes into slots and secure by crimping the reglet at both ends of brush with pliers or side cutters. If door is equipped with flush bolts, reinstall to original depth. Return brushes back to the fully retracted position before reinstalling door.

Step #10

Reinstall door and adjust brush height. Reinstall door, and close door to inspect brush clearance above threshold to estimate required brush extension. Each full turn of the adjusting screws equals 3/64" movement. Open door to access the adjusting screws and turn counterclockwise to lower the brushes. Close the door to check clearance and repeat the process until the brushes show slight flexing but little resistance to closing. Also check for light coming in under the brush, and add slightly more pressure if needed.



Adjustment of bottom brush on hinge side of door