

Step-by-Step Shear Plate Installation Instructions

You will need:

- 4" shear plate
- Dapping Tool (kit) including:
 - Allen wrench
 - 3/4" pilot bit
 - Cutter head
- 13/16" drill bit



- 1.** Assemble the 3/4" **pilot bit** into the **cutter head** and tighten it with an **Allen wrench**. Set the dapping tool aside.

These components are included as part of the Dapping Tool Kit supplied by Portland Bolt (product code 18671).



- 2.** Drill a 13/16" bolt hole in the wood. A drill press is used in the video, but a heavy duty, 3/4" or larger handheld portable drill will work.

A drill bit is not included as part of the Dapping Tool kit, but can be obtained from any local hardware store.



- 3.** Insert the **dapping tool** into the handheld drill or drill press. Use the **pilot bit** to align the **cutter head** with the pre-drilled bolt hole. Small cap screws on the face of the dapping tool can be adjusted to change the depth of the grooves.



- 4.** When complete, the grooves created by the dapping tool should be at the proper depth so that the face of the **shear plate** sits flush with the surface of the wood. Adjust the depth accordingly if the shear plate sits too high or too low in the grooves.

It is recommended to start with a very shallow groove and test the depth with the shear plate, adjusting the cap screws until the shear plate sits flush with the wood.



- 5.** In this example, two shear plates are installed between two wooden members. The edge of one board is cut away for demonstration purposes to show the connection. Other installation options exist in which the shear plates are assembled against steel.