



Front Vise Hardware

Product #17A11, 144804, 144805, 145444

Woodcraft offers a variety of front vises for those woodworkers who prefer to build their own workbenches. The following instructions will provide the proper format for installing these vises. The dimensions for the workbench stock are not listed, as they can vary for every bench made.

When considering the installation of a vise to a workbench, have the hardware in hand before making any cuts involving their dimensions. When unsure about any dimensions for fitting the vise, experiment on a piece of scrap wood first before working on the bench parts.

To install your vise, the wooden tail (vise face) should be milled oversize in its height to allow extra wood for fitting purposes. Once the vise is assembled, the top surface can be planed flush with the bench top. Clamp this wooden tail against the edge of the bench. It should extend approximately 1/4" above the bench top surface, and 2 1/2" to 3" below the bottom edge. Both of these dimensions may vary, but it is important that enough stock is below the bench for the boring and mounting of the handle assembly. Unscrew the vise so that it is in two sections.

The handle, handle plate, guide rods, and vise screw make one part, and the cast iron vise plate makes the other. For Quick Release Vise 17A11 & 145444, remove the two Allen head screws and rear plate. Slide off the vise plate with the two part quick-release nut. Be careful to note the position of the two nut components on the screw. They must be precisely remounted during subsequent reassembly.

For marking purposes, clamp the vise plate in its position under the bench top and flush against the wooden vise face. If the underside of the bench top is not milled net, use spacers to correct this condition. With a pencil, mark the locations of the holes for the guide rods and vise screw on the wooden vise face.

Unclasp the vise face from the bench, and on a drill press, bore the three holes for the vise parts. These holes should be drilled larger than the diameters of the guide rods and vise screw to eliminate binding when the wood expands.

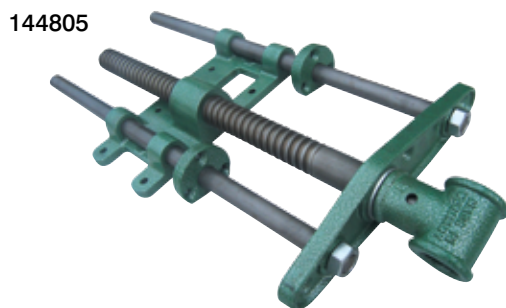
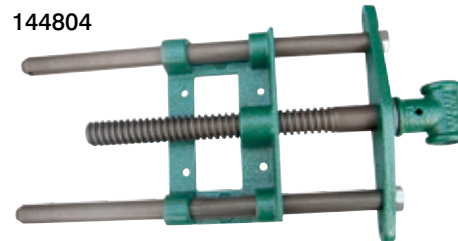
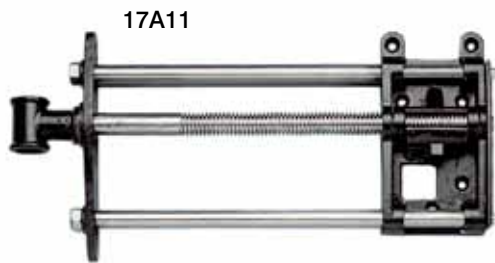
Marking the screw and guide rod holes on the wooden vise face may also be accomplished by tracing the end of the vise plate and its boring onto a piece of thin cardboard. Position this template on the clamped vise face and mark the boring locations.

Once the vise face has been drilled, fit the handle assembly into it. Push the guide rods and vise screw through the vise face, and position them in the center of their holes (see note on next page for Quick Release Vise 17A11). Secure the handle plate to the outside of the vise face with the correct screws or bolts for your application.

The vise plate should then be screwed against the underside of the bench. Position the plate 1/4" in from the bench edge so that it will not interfere with the vise clamping surfaces and attach with the correct screws or bolts for your application.

17E46 Handle, 7/8" x 11 1/2"

17E52 Handle, 1" x 13 1/2"





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Insert the vise screw and guide rods through the front vise plate holes and slide the two parts of the quick release nut onto the screw. As viewed from the bench front, the major nut part with the holes which receive the vise screw will have its tab pointing toward the two vise plate mounting "ears" and be nearly touching the right hand guide rod. Slide the vise screw and guide rods through the rear set of vise plate holes and test the mechanism for proper fit and assembly of the quick release components. Lastly, attach the rear retaining plate to the back ends of the guide rods and vise screw with the Allen screws.

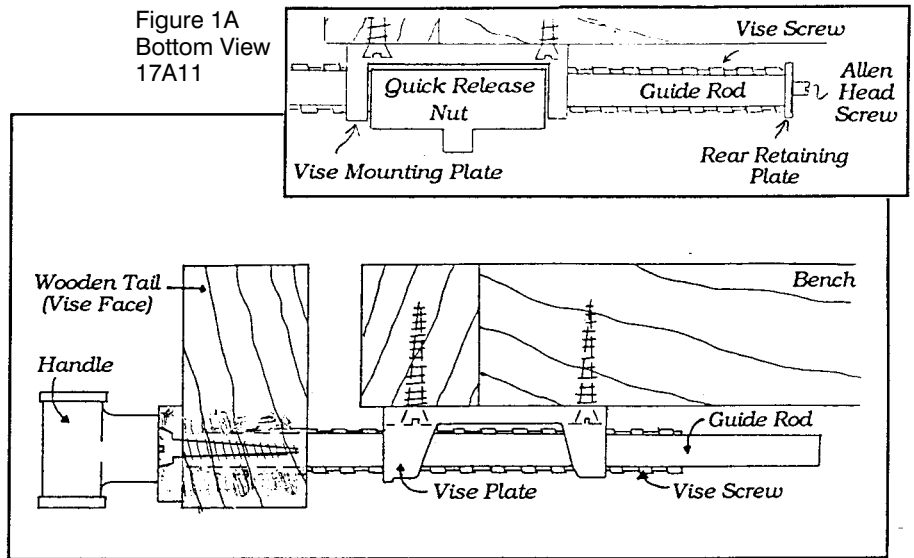
Maintenance

Periodic maintenance will insure a lifetime of trouble-free vise use. Frequency will depend on usage and individual shop conditions, but should be undertaken at least semi-annually.

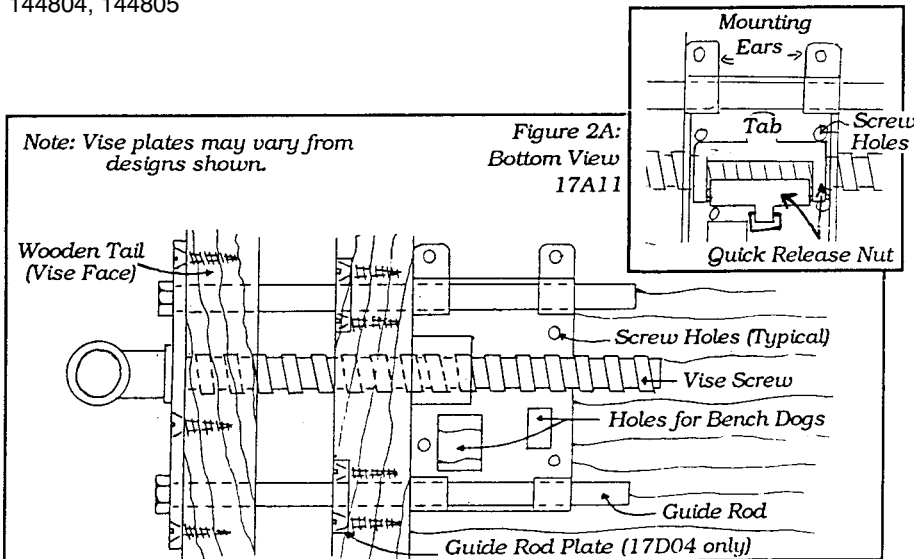
1. Remove the front jaw assembly with the guide rods and vise screw from the vise plate.
2. Brush dust and chips from the assembly.
3. Clean dirt and old lubricant from metal components with soap and water or a mild solvent.
4. Dry all metal parts thoroughly.
5. Lubricate the vise screw and guide rods with a light grease and lightly oil all other metal parts to inhibit rust formation.
6. Re-assemble vise.

17E46 Handle, 7/8" x 11 1/2"
17E52 Handle, 1" x 13 1/2"

Figure 1A
Bottom View
17A11

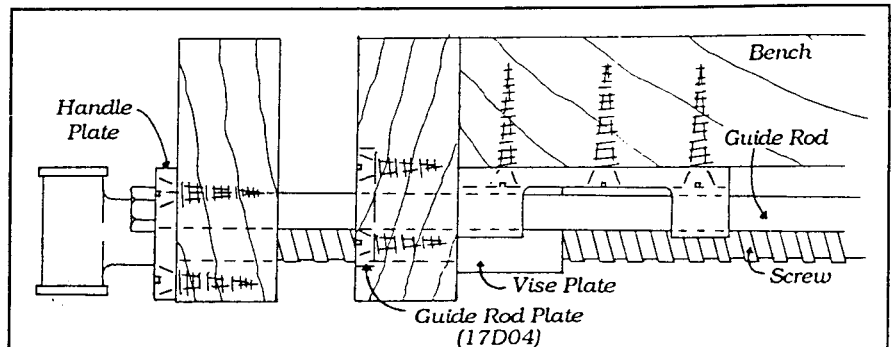


(Fig. 1) Side view 01E22, 01E23, 17D03, 17D04, 144804, 144805



(Fig. 2) Bottom view 01E22, 01E23, 17D03, 17D04, 144804, 144805

Illustrations may vary slightly from actual hardware.



(Fig. 3) Side view 01E22, 01E23, 17D03, 17D04, 17A11, 145444