



## End Vise Hardware

Product #144806, 144807

### End Vise Hardware

Woodcraft offers end 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, make sure to have the hardware in hand before making any crucial 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.

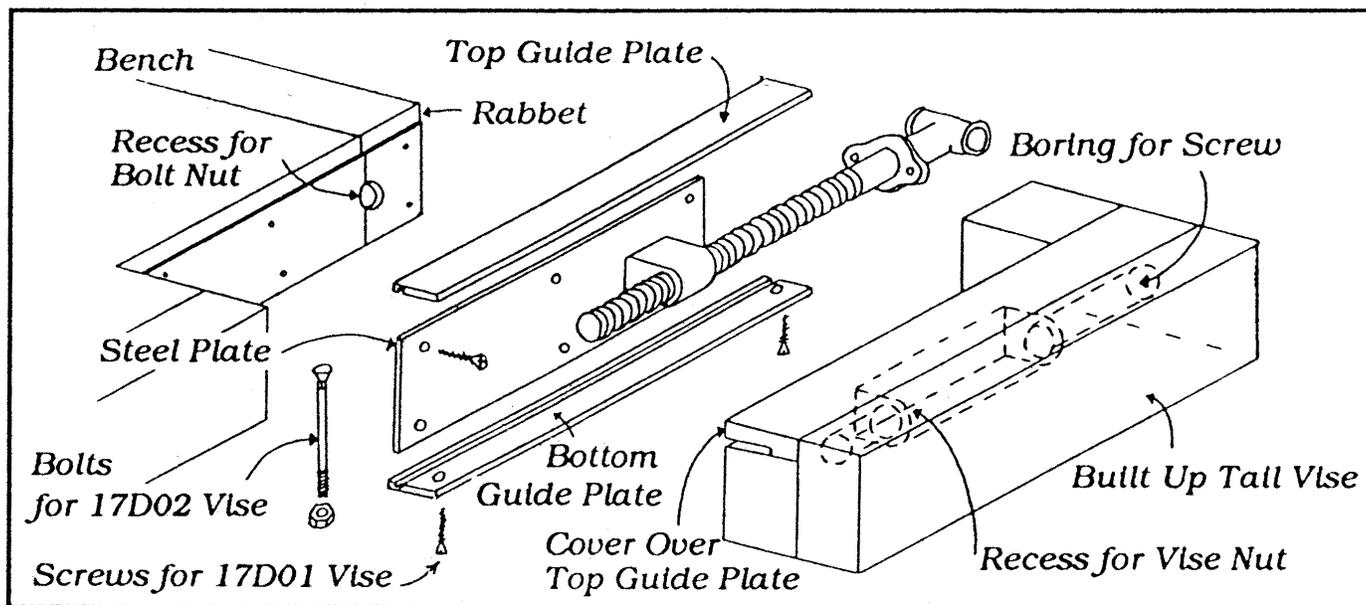
The following illustrations show the cross section and exploded views of the vise parts and give the proper mounting details. Note that the larger 144807 vise requires both screws and bolts to connect the guide plates to the wooden tail vise. The 4" bolts are provided with the large vise, but the screws for attaching both the large and small vises to the wooden bench parts must be purchased separately.

The steel plate which holds the vise nut should be positioned and attached to the workbench first. To do this, the rabbet for the top guide plate should be cut and the recess for the bolt nut on the back of the steel plate should be bored in the side of the bench. Line up the plate and attach it temporarily with two screws.

Construct the tail vise and drill out the shaft for the vise screw and recess for the vise nut. Both spaces should be large and long enough to allow the vise screw and vise nut to run their maximum lengths without binding. Once this has been achieved, attach the remaining vise parts to the bench.

If the vise bends at any point, corrections to the assembly must be made. Paper or wood shims placed between the guide plates and tail vise will loosen the sliding action of the three steel plates. If any wood parts are rubbing, these must be cut, planed, or redrilled to allow free vise movement. Some sticking may appear as the weather or seasons change.

Once the vise is operating smoothly, secure the steel plate with the remaining screws and attach the wood cover over the top guide plate. Make the wood parts purposely oversized to allow for some matching of the top bench surfaces. Periodically lubricate the vise parts with grease to inhibit rust formation and to insure the smooth operation of the vise.



Exploded View



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### 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 tail vise and the screw assembly.
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.

