

Lake Erie Toolworks - Bench Anchor Installation Instructions - 3-14-2019

Wagon and Shoulder vise brass mounting plates are now shipped with a self-lubricating plastic bushing. The bushing is an Igus iglide G300 series optimized for long wear and dusty environments. This reduces friction and eliminates the metal on metal contact between the shoulder bolt and the brass mounting plate, which reduces any 'clunking' noise that may occur during use.

Also, the Veritas Bench Anchor is shipped uninstalled and is to be installed by the vise owner via the following instructions. A .020" stainless steel slotted shim is also included to facilitate this as well as resetting the Bench Anchor if it ever shifts during use.

Needed items:

- Shoulder bolt (included in kit)
- Stainless steel slotted shim (included in kit)
- Wagon or Shoulder Vise Screw (included in kit)
- Brass mounting plate (included in kit)
- Veritas Bench Anchor and allen wrench (included in kit)
- Deadblow mallet or wooden mallet (user supplied)

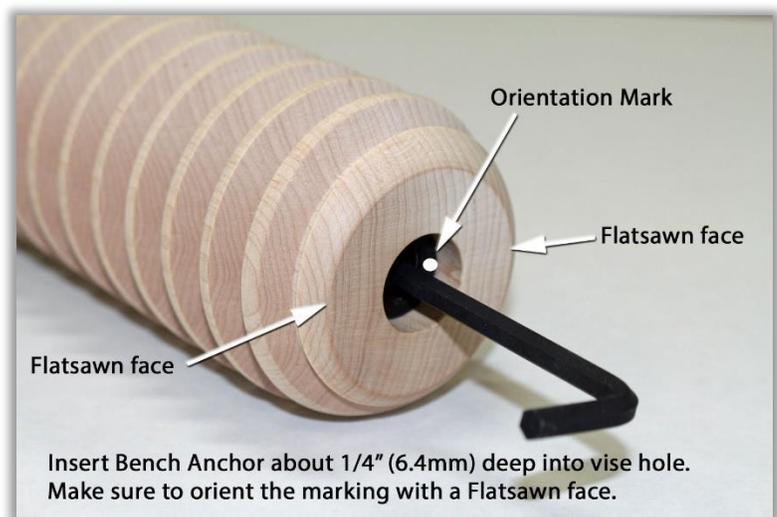
First, you will want to wipe your Bench anchor with a paper towel to remove any oils. The Bench Anchor works by having two separate wedge-shaped parts pulled together by a screw, which in turn expands into the hole that the Bench anchor is inserted into.

You will want to look at the bench anchor and make a visible mark on the 1/2-13" tapped end so that you will know which face is pushing against the vise hole when it is installed. (See Figure 1 for clarification)

The two faces that push against the hole should be oriented so that they push against the flat sawn surfaces of the hole in the vise. Wood expands and contracts about twice as much in the tangential direction as in the radial direction (flatsawn boards move more in their width with humidity changes than quartersawn boards do). (See Figure 2 for clarification)



(Figure 1)

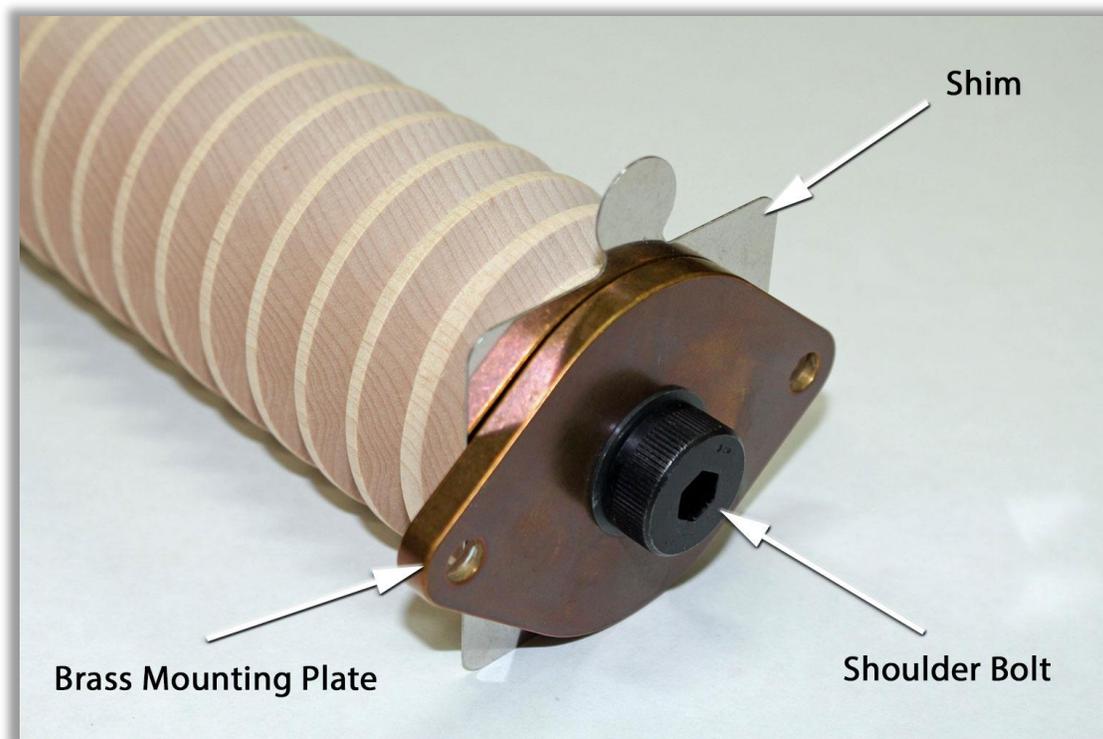


(Figure 2)

Use the allen wrench to loosen the bolt inside of the Bench Anchor (see *Bench Anchor instructions included with your kit*). Insert the anchor until it is about $\frac{1}{4}$ " below the end of the vise and orient your mark so that it is aligned with a flatsawn face of the vise, such as the top of the arch in the maples grain, and lightly snug the bench anchor. (See *Figure 2*)

Then, insert the shoulder bolt through the back of the brass mounting plate and tighten it by hand into the thread of the Bench Anchor. Put the .020" stainless steel shim between the vise and the brass mounting plate. (See *Figure 3*)

Then, take your dead blow mallet and while holding the vise with one hand, tap the shoulder bolt until it pushes the whole assembly into the vise and the shim can no longer be moved. Then, loosen the shoulder bolt, remove the brass mounting plate and the shim and then use the allen wrench to lightly snug up the Bench Anchor. It doesn't take much torque to get plenty of holding force from the Bench Anchor.



(Figure 3)