

#83539 MICRO-MARK PRESS-IT INSTRUCTIONS

The Press-It is a miniature arbor press.

Pulling the handle turns a gear inside the upper arm, which drives the ram downward. Figure 1 shows the Press-It ready for use.

You can apply up to 250 pounds of force with the Press-It.

Use it to push shafts into or out of gears and wheels, press-fit assemblies, punch holes, emboss rivet details...you'll find hundreds of uses for this great tool in your workshop.

Set up is simple and takes just a couple of minutes.

Remove the 3 parts from the small poly bag: a thumb screw, a mandrel with a 3/16" diameter shank and 3/32" diameter tip, and a threaded bore plug with screwdriver slot.

1. On the lower end of the ram, you'll find another thumb screw already installed, which you should loosen completely. Insert the large end of the mandrel into the hole located in the bottom end of the ram and gently tighten the same thumb screw you loosened before. See figure 2.
2. Insert the bore plug up through the bottom of the base plate. Make sure the screwdriver slot faces downward (so that it is accessible from the bottom side of the base). Be sure to turn it in far enough so that nothing protrudes from the bottom of the base plate. See figure 3.
3. Now insert the loose thumb screw in the end of the handle shaft to hold the handle in the desired position. Also check the setting of the gib screw located on the front of the overhead arm. It should be turned in so that it just touches the ram, but does not cause too much drag or excessive cogging of the ram when the handle is moved. See figure 4.

4. Now check the position of the overhead arm. Run the ram all the way down until the mandrel just contacts the bore plug. It should be centered on the bore plug. If not, then push over the overhead arm a little until it does center. You may want to loosen the two socket head screws a bit before pushing it over. Tighten the screws to hold it in place. See figure 5.

5. The ram may be inverted. You can then use the entire surface of the end of the ram for pressing operations. See figure 6.

6. A small amount of lube may be used to keep parts moving freely and prevent corrosion of the various component parts.

Shown in figure 7 is a typical application for Press-It. A shaft/gear combination is being held on a V-Plate (available separately from Micro-Mark), which in turn is being supported by a Modeler's Bench Block (also available from Micro-Mark...see our catalog or web site). The ram is being used to push the shaft out of the gear.

Notes:

Punches are installed in the ram; dies are screwed into the base. In some cases, the punch may have a shank that requires a Punch Adapter be used on the bottom of the ram. Be sure to carefully align the overhead arm so that the punch enters the die exactly on center; otherwise, damage to the punch, die or workpiece may result.

The Emboss-It is an attachment that fits onto the base of the Press-It. Secure Emboss-It to the base of the Press-It with the thumb screw provided. Use the die bore plug (supplied with the Press-It) to support the die of the Emboss-It punch/rivet embossing sets. Adjust the die bore plug so that the top of the die is level with the top of the table on the Emboss-It. If this adjustment causes the die bore plug to protrude from the bottom of the base plate, place the Press-It on a plank or other work surface that has a hole in it which will clear the bore plug.

Warnings:

Do not overload the Press-It. Use common sense when applying a load. Hammering on the ram or applying excessive force to the moving parts will damage the product and void the warranty.

Always wear safety glasses when using the Press-It and its related accessories.

