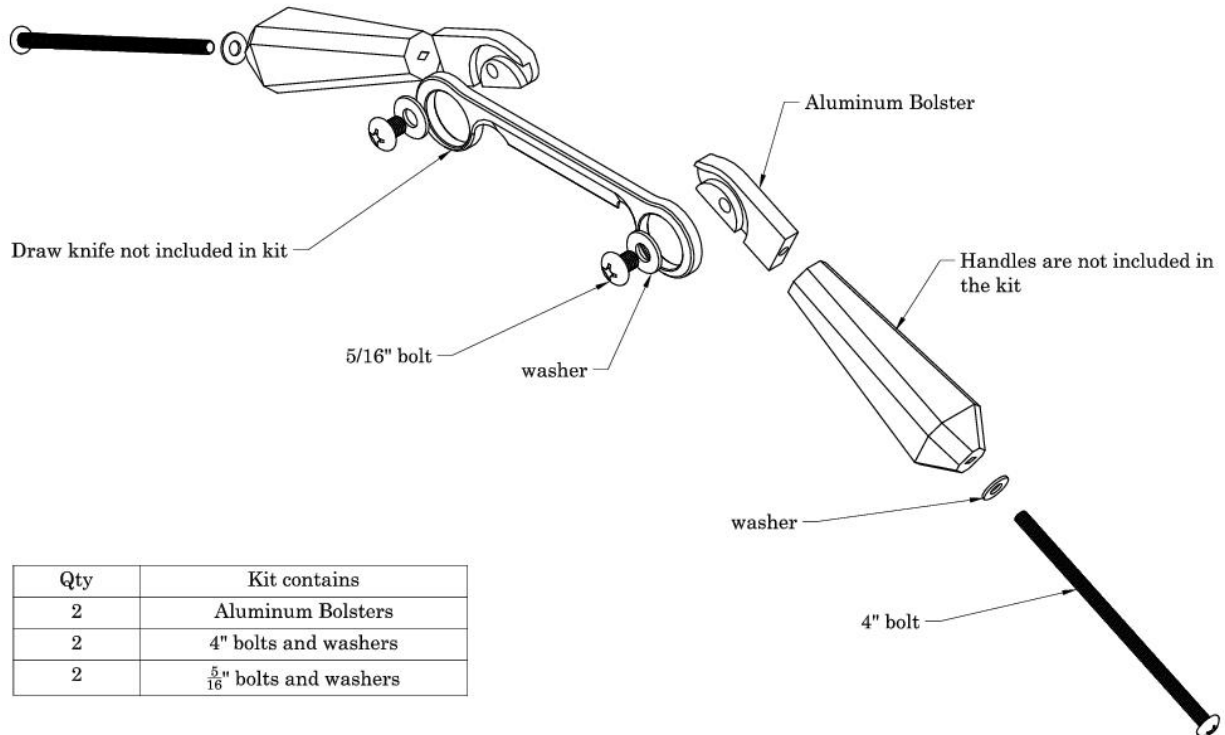


The Gramercy Tool Spoon Maker's Drawknife Instructions for the Handle Hardware Kit



Qty	Kit contains
2	Aluminum Bolsters
2	4" bolts and washers
2	$\frac{5}{16}$ " bolts and washers

Thank you for purchasing the [Handle Hardware Kit for the Gramercy Tool Spoon Maker's Drawknife](#).

Why. The Drawknife's compact, handle-free design enables it to be nimble on small projects, but the addition of traditional handles also gives you a boost of leverage and comfort for regular work. Using a drawknife entails pulling at the handles. Traditional drawknives have a long tang

on each side of the blade that goes through holes in each handle and then gets riveted at the end to prevent the handles from pulling off.

What's Included. The Kit contains two aluminum bolsters that fit over the drawknife handle holes (left and right handed); two each of 4" long 10-32 screws and washers (for attaching a 3-5/8" handle to the bolster); and a 1/4-28 screw and washer for clamping the bolster to the drawknife.

The handles' design. To create appropriate handles for the Spoonmaker's Drawknife, you will need to make a pair of handles (more below) and screw them tightly to the bolster. The handle at the bolster end should be at least 5/8" wide (although 3/4" looks better) and tightly screwed against the bolster. Because the handle is screwed tight against the bolster it cannot move, split, or bend the long screw. The bolsters, which are made of unfinished aluminum, are entirely designed and produced at our Brooklyn location.

There are a million ways to make handles. For this set of instructions, we are describing the simplest way, using just a few tools that you are likely to already have, including the drawknife itself: a sharp utility knife or chisel and a saw to cut the stock to length. In the example below, I used some half-inch poplar, a small saw, a little glue, and a 2" chisel. I could have used a utility knife instead of the chisel, but I happened to have a 2" chisel conveniently on hand. A much narrower chisel would be fine too. I also used a little 220 grit sandpaper to give a nice satin finish to the aluminum. It took me about forty minutes of actual work for the entire project. I was planning to make a more formal looking pair of handles, but these work fine and I like the way they feel in my hand.

Instructions:

1. Using sandpaper of 220 or finer grit, go over the faces and edges of the bolster, going in one direction, back and forth, to give a nice satin finish to the aluminum. This step is optional.
2. Needless to say, the handles should be adapted to what you think is the right size for you. For the design we used take two pieces of wood, each about 1" wide and 3-5/8" long and 1/2" thick draw a centerline down the middle of one side of each piece.
3. Using a chisel or knife, carve a "V" or "U" groove centered around the centerline of each handle half. When both halves of the handles are sandwiched together, the 4" screw should easily fit and move easily.

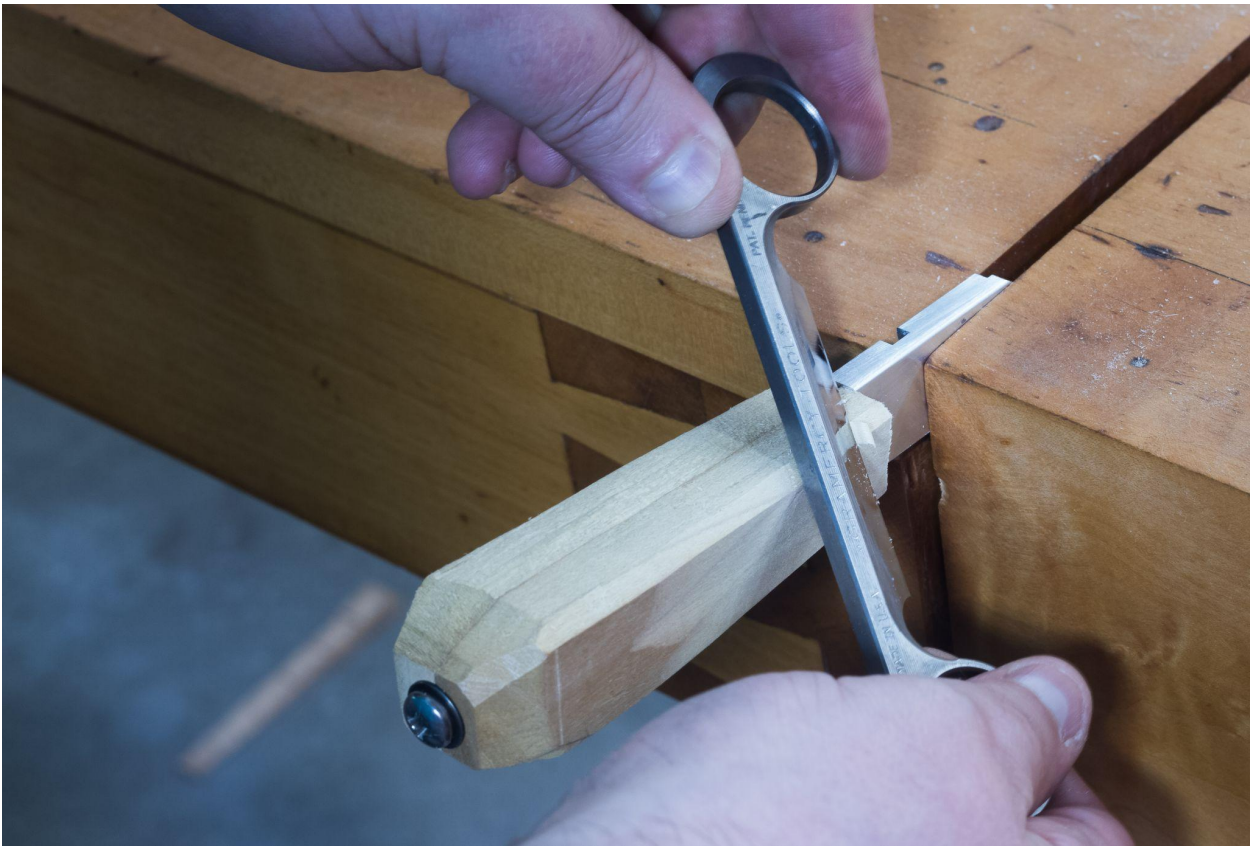


4. Glue the halves together forming a hole in the center. While the glue dries, you can clamp the halves together with some tape. Try not to get glue into the hole. Run the screw in and out of the hole before the glue sets to ensure that the hole is clear.



5. After the glue dries, use your drawknife and any other tool you like to remove any excess wood that doesn't look handle-like. In the example in the illustrations, I also used a chisel to remove some of the waste. A square or rectangular section handle, with octagonal sides, tapered front and back can be easily made using your drawknife. Rasps might





also be a useful assisting tool, although the crisp edges you get from the drawknife look boss even if a rounded edge is a little more comfortable. Many people like having a pear shaped bulge at the end of a drawknife handle for the pull stroke, but this is your choice. A great way to hold the handles while shaping them is to just attach them with the screw and washer to the bolster and then clamp the bolster in a vise or clamp.

6. While some people recommend using no finish at all on the handles so that the handles can absorb sweat and be less slippery, we like at least a thin coat of linseed oil, Bees' Wax Spray or another thin finish to help keep the handles clean.



Making handles from a single piece of wood.

1. Take a piece of wood around 1" square and drill a 13/64" or #7 in diameter all the way through. 13/64" is an odd size and longer than a typical drill bit. 7/32" will work too. Most drill bits aren't long enough to go all the way through, so the trick is drilling a hole using a shorter bit going from both sides so they line up well enough for a long screw. If you have a drill press, careful layout and a guide fence makes this eminently doable. If you don't have a drill press, the key is using a 13/64" drill bit on the bolster side and drilling a larger 1/4" hole from the other side. This gives you a little play for misalignment.
2. Once the hole is drilled, you can shape the handles by hand or if you have a lathe, easily turn them to shape.

For longer handles: If you want a longer handle, just carve a larger hole in the handle halves or counterbore the end holes in the handle.

For shorter handles: For shorter handles, either trim the screw or get shorter 10-32 screws.

To attach the handles to the shave:

1. Screw the handle to the bolster using the included 4" 10-32 screw and washer.
2. Assemble the handle to the drawknife hole. The bolsters are handed with a right and left side.
3. Clamp handle assemblies to the drawknife using the included 1/4"-28 screw and washer.

In use, as you pull down on the handles they will wedge together to the drawknife. To remove the handles, first pull the handles in the opposite direction so they release from the wedging action. Then unscrew.

For more information please visit [Handle Hardware Kit for the Gramercy Tool Spoon Maker's Drawknife](#).