



CALEB JAMES

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Twist Lock Marking Gauge Making Instructions

1. Start by lightly sanding off any machine marks from camshaft. Try to maintain consistent shape/dimensions from end to end.
2. Orient the camshaft on the fence block. To do this, place a square on the long edge of the fence block and center it on the pre-drilled 5/8" hole. Mark a line with a pencil from the hole to the edge of the block. Transfer this line across the edge of the block to the opposite side and across the center of the hole.
3. Place the small diameter of the camshaft on the 5/8" hole while aligning the "notch" in the camshaft to the line you just made. Now trace the shape onto the block with a pencil. Do likewise to the opposite side using the opposite end of the camshaft.
4. Remove the material inside the pencil marks around the hole to allow the camshaft to pass through the block. A coping saw and half round file or rasp works well for this. Carefully fit the camshaft to the fence block.
5. The fence block will likely be out of square with the camshaft. Remove material from each face of the fence block until it is square with the shaft.
6. With the shaft installed in the fence block, drill holes for the steel pin and/or pencil perpendicular to the side. Which side depends on how you prefer to hold the fence in use.
7. Make a saw kerf from the end of the camshaft down through these holes approximately 3/4".
8. Sharpen the steel pin to your preferred profile for marking. Wedge in the 1/8" hole.
9. Use oval template to transfer shape onto fence block. Cutout and smooth edges with tools of your preference.
10. If you plan to mark inside curved surfaces you may wish to round one face of the fence block.