Multi-Angle Work Holder
Assembly Instructions

Revised: 01 February, 2009
Multi-Angle Work Holder

Content of Router Boss Multi-angle Work Holder Kit Fastener Bag

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>10-24 x 1-1/4&quot; Socket Head Screw</td>
<td>Attach cam stops to box sides</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>10-24 Square Nut</td>
<td>Nut with socket screw above</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
<td>Flanged Bearing for 3/16&quot; Shaft, 5/16&quot; OD</td>
<td>Pivot bearing in alum angle plate &amp; box sides</td>
</tr>
<tr>
<td>4</td>
<td>2</td>
<td>3/16&quot; Dowel Pin, 1&quot; Length</td>
<td>Shaft in above flanged bearings</td>
</tr>
<tr>
<td>5</td>
<td>2</td>
<td>#10 Flat Washer 0.200&quot; ID, 0.450&quot; OD</td>
<td>Washer on above socket head screws</td>
</tr>
<tr>
<td>6</td>
<td>4</td>
<td>#8-32 x 3/8&quot; Flat Socket Head Screw</td>
<td>Attach angle bracket (protractor) to angle plate</td>
</tr>
<tr>
<td>7</td>
<td>2</td>
<td>1/4-20 x 1-1/2&quot; Carriage Bolt</td>
<td>Slide in angle brackets and attach to box sides</td>
</tr>
<tr>
<td>8</td>
<td>4</td>
<td>5/16&quot; Plastic Locator Pins</td>
<td>Position work holder on sliding bar &amp; board on plate</td>
</tr>
</tbody>
</table>

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Assembly Instructions

- Attach protractors to the ends of the aluminum plate as shown at left using the four 8-32x3/8" flat head socket screws.
- Press a flanged bearing into the larger hole on each end of the aluminum plate.
- Insert a dowel pin into the flanged bearings.
- Insert flanged bearing into the holes in the MDF side plates.
- Dry assemble aluminum plate and MDF sides, back and corner blocks together to test for fit then glue the assembly together.
- Install the carriage bolts through slot in the protractors and through the middle holes in the side plates.
- On outside of the work holder attach the knobs to the carriage bolts. Tighten the knobs to help clamp up the assembly.
- Clamp the corner pieces as shown below to draw the assembly square. A Quick Grip type clamp can be used for this. Check for squareness.
- When the glue has dried install the cam stops with the 10-24x1-1/4" socket head screws, the #10 flat washers and the 10-24 square nuts.
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Optional T-bolt slides into upper T-slot on sliding bar.

Mounting the Multi-Angle Work Holder

Insert plastic locator pins into appropriate holes on the back of the Work Holder. The pins rest on the ledge above the lower t-slot in sliding bar. The Work Holder is then clamped in place between the fixed fence and the moveable fence using the cam. It is helpful to glue a piece of fine sandpaper to the outside ends of the Work Holder to increase security in the clamp.

Optionally, you may use a T-bolt, washer and a knob to further secure the Work Holder to the sliding bar. Drill 17/64" holes as shown above. The T-bolt is inserted into upper T-slot in the sliding bar. Tighten the knob snug, but not so tight as to prevent sliding bar travel.

After installing the Multi-Angle Work Holder, square the aluminum plate to the underside of the Base Plate. Set the cam stops so you can quickly return the plate to square.
Multi-Angle Work Holder

For angled placement of the work insert a pin in either Hole A or Hole B and a second pin in a lower hole for the desired angle.