

Deflection Gauge

Assembly:

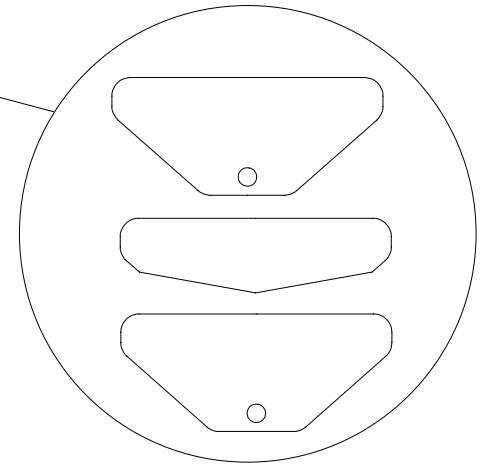
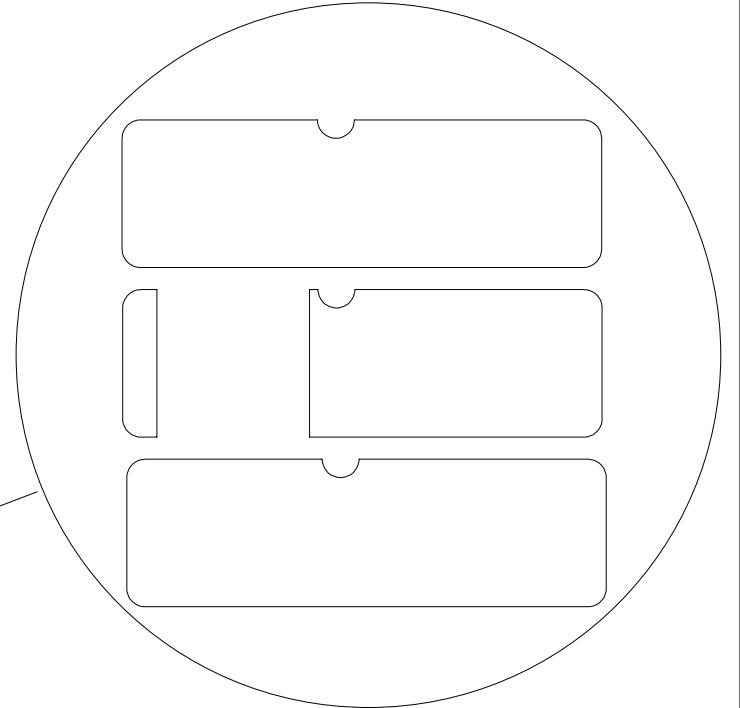
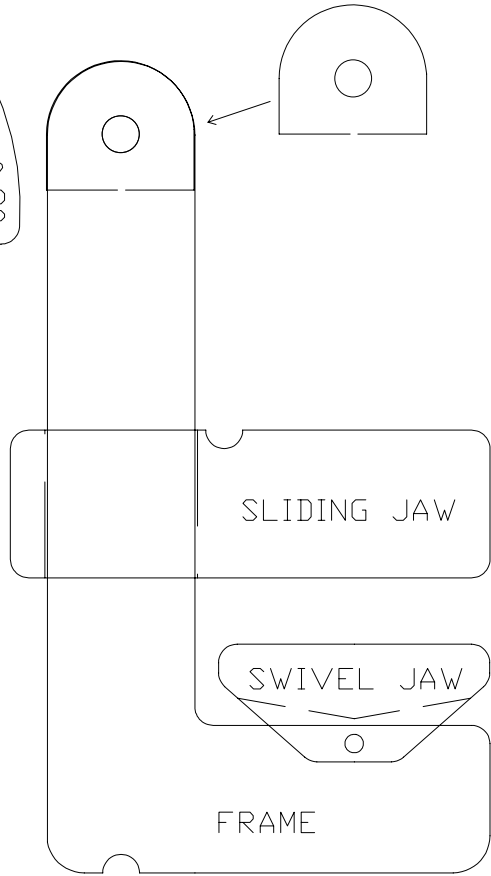
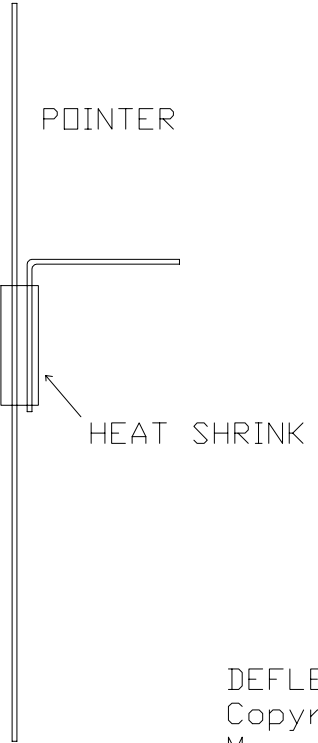
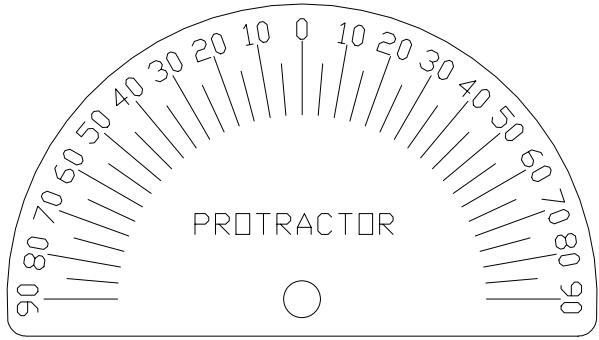
1. Glue the 1/4" dowel into the protractor, making the dowel flush to the face of the protractor.
2. Glue one of the small rings to the back side of the protractor to reinforce this joint. (Note: the second ring is not used.)
3. Glue the four parts of the sliding jaw together.
4. Glue the three parts of the swivel jaw together.
5. Bolt the swivel jaw to the frame.
6. Slide the sliding jaw onto the frame.
7. Glue the two end hole reinforcements to the end of the frame, one on each side.
8. Push the protractor-dowel into the hole on the end of the frame. DO NOT GLUE the dowel to the frame!
9. Use the heat-shrink tube to fix the L-shaped wire to the long pointer wire, leaving about 1-3/4" space above the joint. Shrink the heat-shrink tube to hold the wires together, and reinforce the joint with a couple of drops of CA.
10. Push the L-shaped wire through the hole in the dowel from the marked side of the protractor. You can put a small bend in the end of the wire to keep it in the dowel. If desired, you can add a small fishing weight or drop of solder to the lower end of the pointer wire.
11. Stretch the rubber band between the notches in the jaws.

Use:

1. Clamp the control surface between the jaws.
2. Rotate the protractor until the wire needle points to the "0" mark.
3. Use your transmitter to deflect the control surface.
4. Read the deflection in degrees from the protractor scale.

Thanks to Dennis Sumner for the idea!





DEFLECTION GAUGE
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