

### 10.12 Aileron Hinge Install

- 1) Bolt on the three Aileron Hinges (W-125) with a 1/16" Hinge Spacer (W-610). Temporarily mount the aileron using a castle nut for ease of removal.
- 2) Glue the template in figure 10.12.1 to a still piece of thin cardboard.

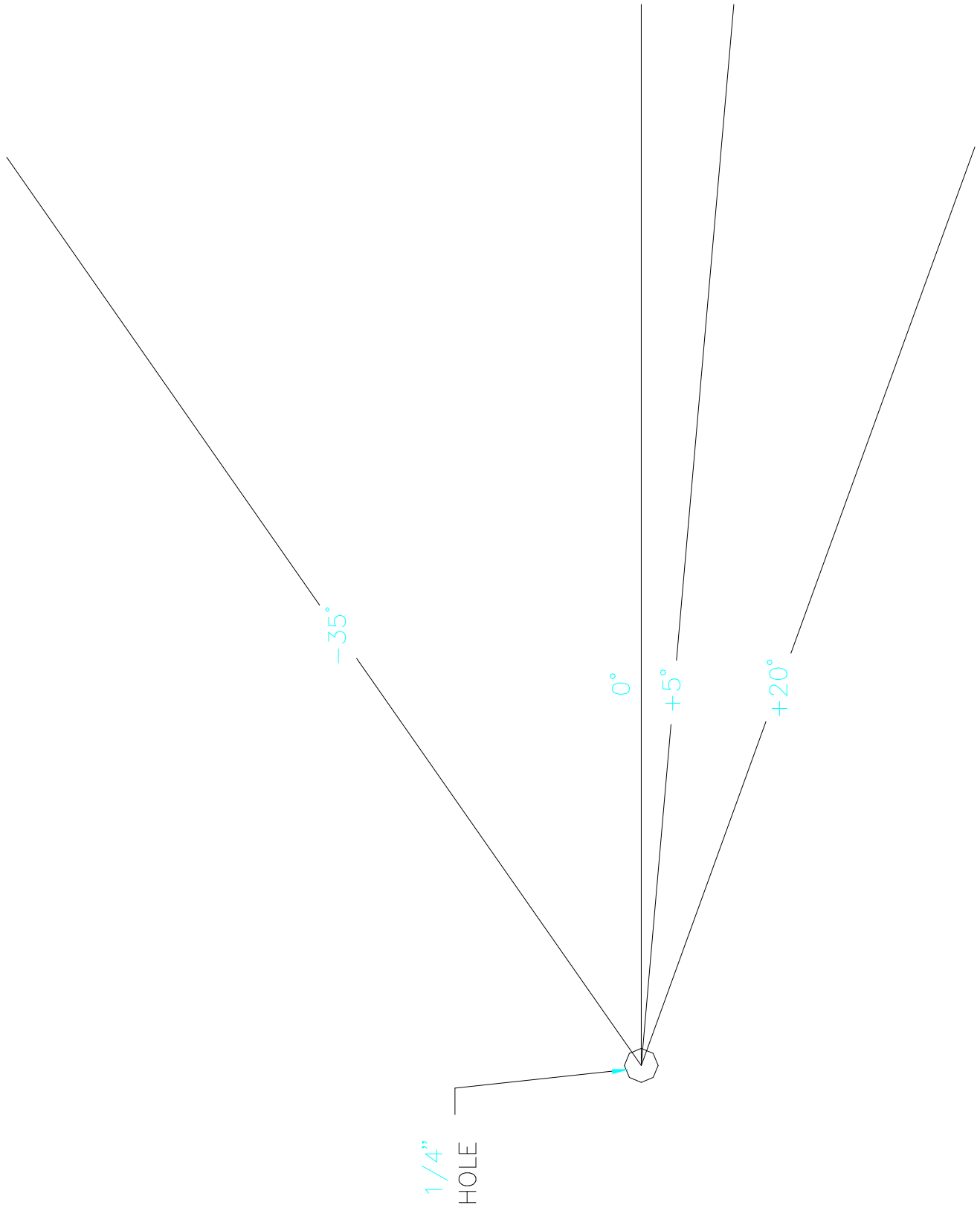


Figure 10.12.1

3) Draw a line from the pivot position to the trailing edge on each end of the aileron for the right wing.

Figure 10.12.2.

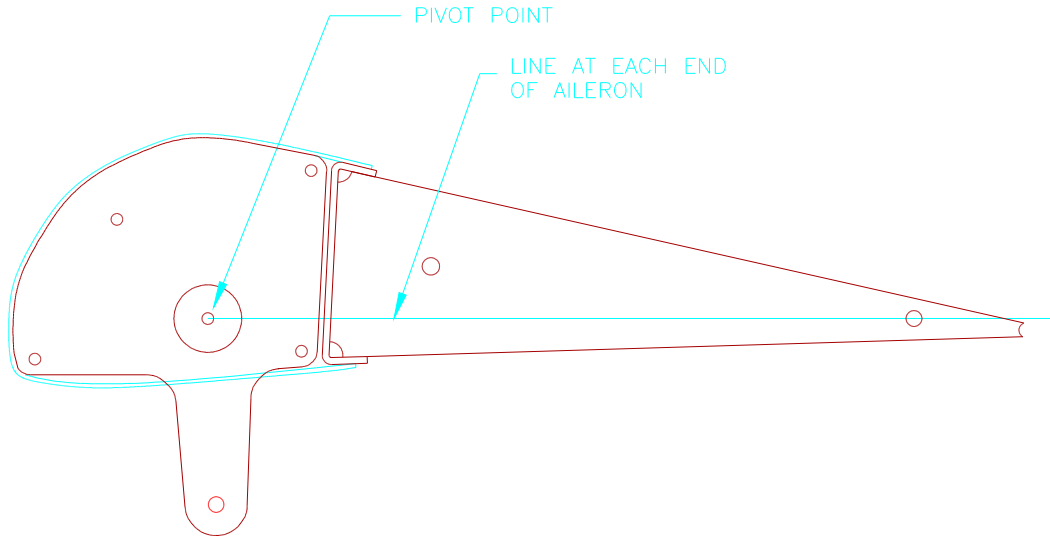


Figure 10.12.2

4) Mount the template to one end of the ailerons. Figure 10.12.3.

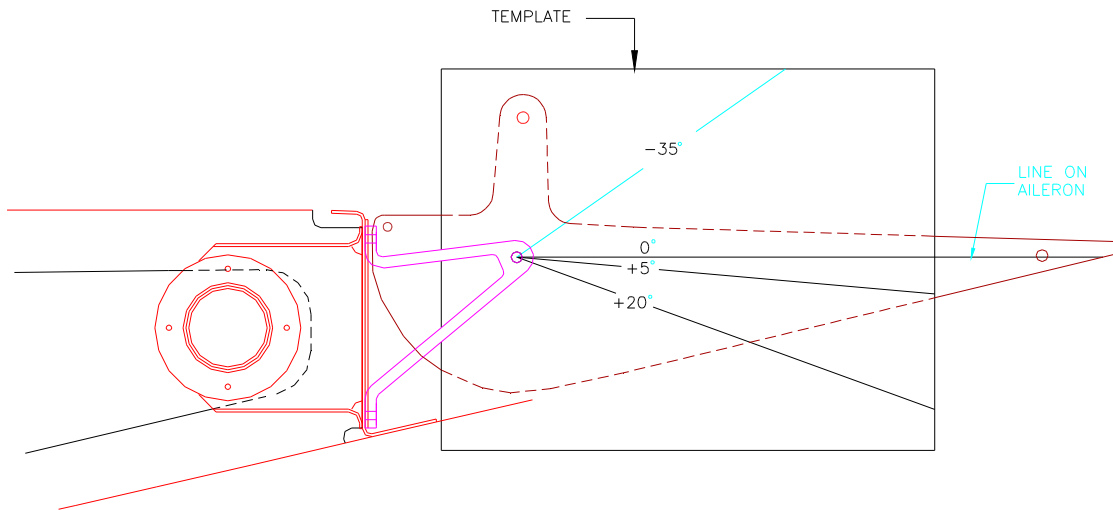


Figure 10.12.3

5) Put the aileron in the neutral position.

6) Align the 0° line on the template with the line you drew on the aileron.

7) Holding the template stationary, move the aileron through its range of -35° to + 20°.

8) If the aileron does not clear the top skin by 1/16", either replace the W-610 with a 1/8" Hinge Spacer (W-605) or use both. See Figure 10.12.4.

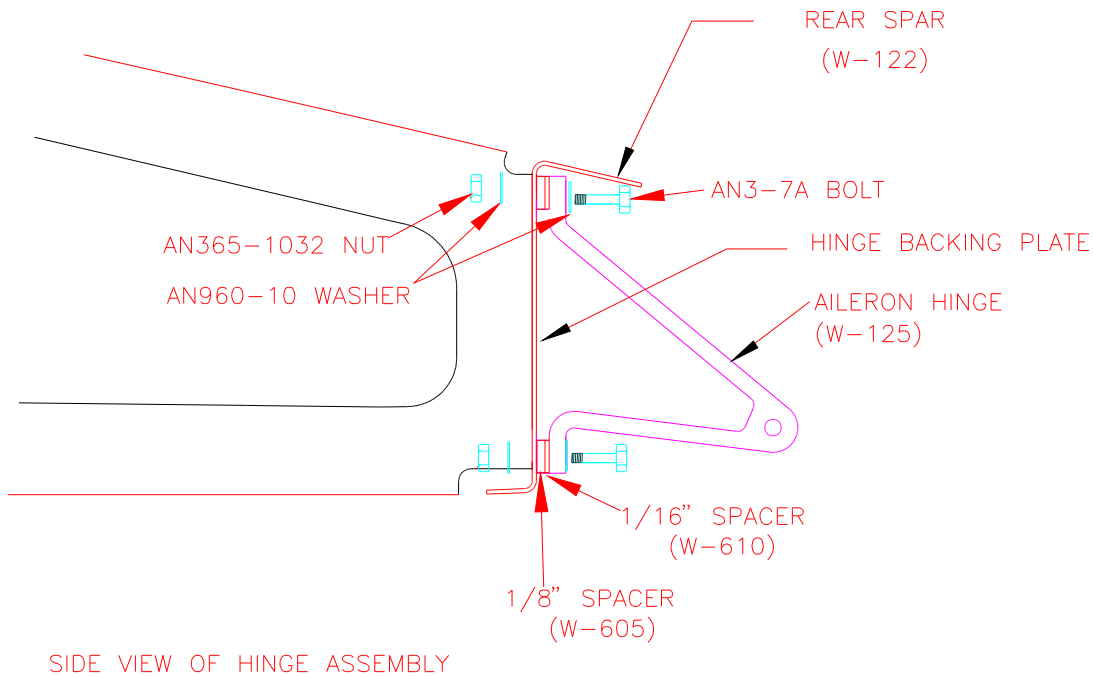


Figure 10.12.4

9) Chromate the Leading Edge Skin Front Spar and Leading Edge Ribs.

10) Rivet the top of the Leading Edge in place but do not rivet into the Main Spar or first hole in the Leading Edge Ribs. It will be necessary to slip the Tank Skin and Top Skin under the Leading Edge later.