

KIS4 Cruiser

BUILDERS MANUAL

S/N 4052

AILERON ASSEMBLY

4 PLACE AILERON ASSEMBLY

- The procedures for the four place aileron assembly are very similar to the flap assembly. One of the primary differences is fact that the hinge will be on the upper surface instead of the lower surface as was the case with the flap assembly. For this reason the ailerons will be assembled upside down.

Locate the aileron skins in the kit. There is a top and bottom skin panel each of which contain the left and right sides connected together in a single panel. The bottom skins have a slight radius at the forward edge. There is no difference for left or right skins in either set at this stage.

Clean these and all related parts, stripping off the peel ply and cleaning away any loose pieces or other debris. Lightly sand the trailing edge of all parts to the reference line left by the sharp corner in the tooling. Be careful to remove only the surplus resin and not sand through any plies of the glass. This edge will be a measurement reference point for many of the operations in this assembly.

Verify that the scribed center line will leave close to the same distance from the cut edge to the sandwich panel core material on each part. If this is not true scribe a new center line and separate the left from the right by cutting at the appropriate center scribe line. Be sure that there is enough material at the ends to make each panel 42 inches long (spanwise). Trim these ends and the forward edge to set width at 14 inches

Locate the rib template and cut six pieces from the supplied prepreg honeycomb core flat panel material. These triangles are not symmetrical so note the orientation on the template text, and mark the top. Check against drawing below for proper size.

