

KIS4 Cruiser

BUILDERS MANUAL

S/N 4052

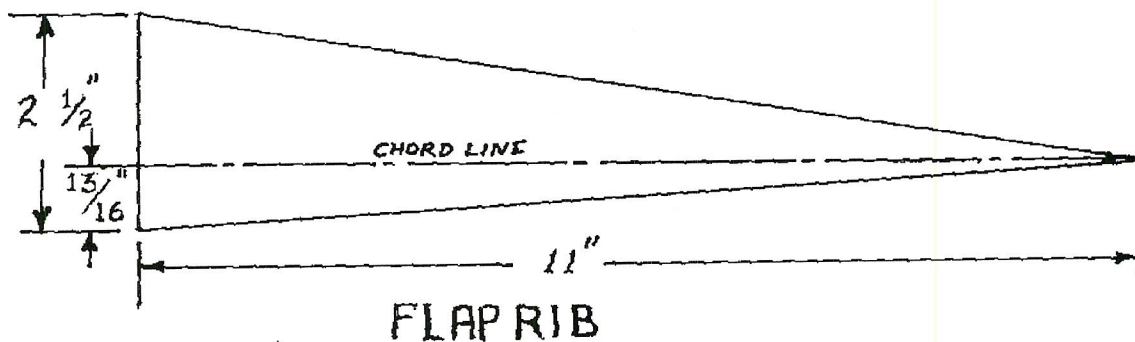
FLAP ASSEMBLY

FOUR PLACE FLAP ASSY 4PFLAP

FLAP ASSEMBLY

Identify the major portions of the flap parts from your kit, and prepare them by removing all peel ply and other debris.

The primary flap components are the top (C20TR & C20TL) and bottom skins (C20BR & C20BL) for each side, and the rib patterns marked on one of the drawings supplied with the kit or use the dimensions shown below. Since the flap is hinged from the bottom, the top skin will have the curved surface on the front section, and the bottom panel will be flat. The left and right flaps are mirror images of each other - exactly alike - but reversed. Sketches and original instructions will be for the right flap, with the left flap identical but reversed.



BUILD UP THE LOWER SKIN ASSEMBLY

Prepare a flat surface to build the flap on, since a twist in this component would lead to severe flight performance degradation. Trim the length of the lower flap skin to 91.0 inches, and the front edge of the skin to set the width of this panel at 14 inches.

"Tack the lower flap skin in place on the prepared flat surface with a few dabs of Bondo or 5 minute MICRO at the corners where it can be pried away with a thin sharp knife.

Cut out four ribs from the pre prep panel and one from the 1/4 inch plywood. The wood rib will mount the the flap actuator track, so it will be fitted with two nut plates (K1000-03) before close-out of the assembly.

SPAR

The spar for the flap should be cut from a section of the Pre-prep sandwich panel. Cut it 89 inches long and 3.1 inches wide, which should be slightly oversize in width, which will be trimmed on the upper surface later to the angle and height of the ribs. If your panel is not long enough splice together several

