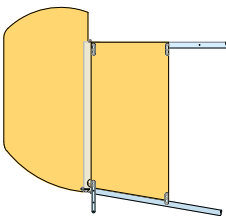
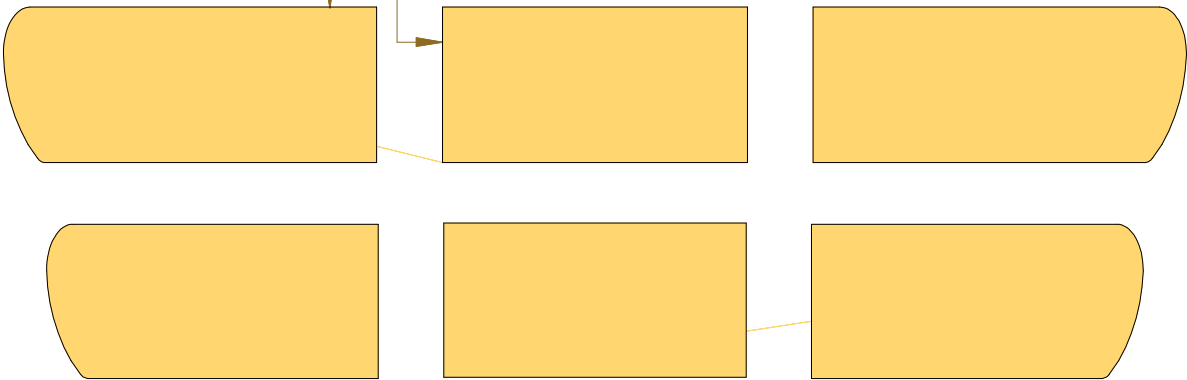


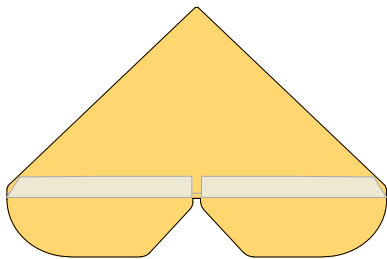
PARTS TO BE FABRIC COVERED

COVER 6 WING
PANELS, TOP,
BOTTOM, & BOTH
ENDS, SEE B4A10

APPLY KISS SEALS TO INBOARD WING SURFACES,
8 PLACES, SEE B4A11, OR BRIDGE WING GAPS
WITH A SEALING PANEL OF INSIGNIA CLOTH
AFTER ASSEMBLY, 4 PLACES



COVER BOTH SIDES
OF RUDDER &
VERTICAL STABILIZER.
APPLY GAP COVER
PER B4T16



COVER BOTH SIDES OF ELEVATOR & HORIZONTAL
STABILIZER. APPLY A GAP COVER BETWEEN THE
ELEVATOR & THE STABILIZER PER B4T8. ALL GAP
COVERS PASS THROUGH THE HINGE AXIS OF THE
ASSEMBLY SO THAT THE FABRIC IS NOT
STRETCHED
OR SLACKENED BY PANEL DEFLECTION.

THE BLOOP 4 FABRIC COVERING MATERIALS AND PRACTICES ARE BASED ON CONVENTIONAL AIRCRAFT COVERING METHODS, NOMINALLY THE POLYFIBER (STITTS) PROCESS AS DESCRIBED BY THEIR MANUAL AND WEB SITE. COVER AIRCRAFT WITH 1.8 OZ./SQYD. DACRON (POLYESTER) AIRCRAFT FABRIC (UNCERTIFIED, HEAT SHRINKABLE). ALL FLIGHT CRITICAL PARTS (WINGS, AILERONS, & TAIL SURFACES) MUST BE COVERED SO AS TO ESTABLISH A CONTINUOUS ENVELOPE OF FABRIC WHICH COMPLETELY ENCLOSES THE METAL FRAME STRUCTURE AND THUS DOES NOT DEPEND ON THE CEMENTING OF FABRIC TO METAL FOR STRENGTH. APPLY TAPES IN THE PRESCRIBED POLYFIBER MANNER SO AS TO REINFORCE ALL HIGH STRESS AREAS (EDGES WHERE FABRIC DEPARTS THE SOLID STRUCTURE) OR AREAS SUBJECT TO ABRASION (OUTSIDE EDGES).

THE BASIC FABRIC COVERING PROCESS CONSISTS OF CUTTING LARGE PANELS FROM A ROLL OF FABRIC, LAYING EACH ONTO THE SECTION TO BE COVERED, TRIMMING IT TO SHAPE, AND THEN CEMENTING THE FABRIC EDGES ONTO THE FRAME EDGES. SLACK & WRINKLES ARE THEN REMOVED BY HEAT SHRINKING THE FABRIC WITH A CLOTHES IRON. THE CONTINUOUS ENVELOPE IS FORMED BY OVERLAPPING PORTIONS OF THE FABRIC. FABRIC MUST BE SEALED TO REDUCE ITS AIR PERMEABILITY FOR BEST AERODYNAMIC PERFORMANCE. THIS REQUIRES AT LEAST 1 COAT OVERALL OF DOPE (FABRIC FILLER /ADHESIVE, EXAMPLES: STITTS POLYBRUSH OR NITRATE DOPE). ADDITIONAL COATS OF DOPE (BUTYRATE) MIXED WITH ALUMINUM POWDER ARE APPLIED TO FABRIC SURFACES TO PROTECT THE FABRIC FROM SUNLIGHT EXPOSURE, WHICH WILL CAUSE DETERIORATION. BRIGHT COLORS ARE APPLIED OVER THE DOPED FABRIC AS A COSMETIC FINAL FINISH AND TO ENHANCE AIRCRAFT VISIBILITY.

B4A9	FABRIC COVERING STANDARDS	BLOOP 4 ULTRALIGHT AIRPLANE	M. SANDLIN AUGUST 4 2019
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