

No: 000356

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By: FLC Date: 02-02-84 Page: 1 of 1

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Subject: NEW TYPE BRACES FOR
AILERONS ON EAGLE II
AIRCRAFT

The ailerons on the Eagle II aircraft are constructed with angular braces which extend from the aileron spars to the inboard and outboard ribs on the ends of the ailerons. The braces are attached with monel pop rivets, and they are intended to hold the aileron assemblies in their rectangular (lower wing) or parallelogram (upper wing) shape.

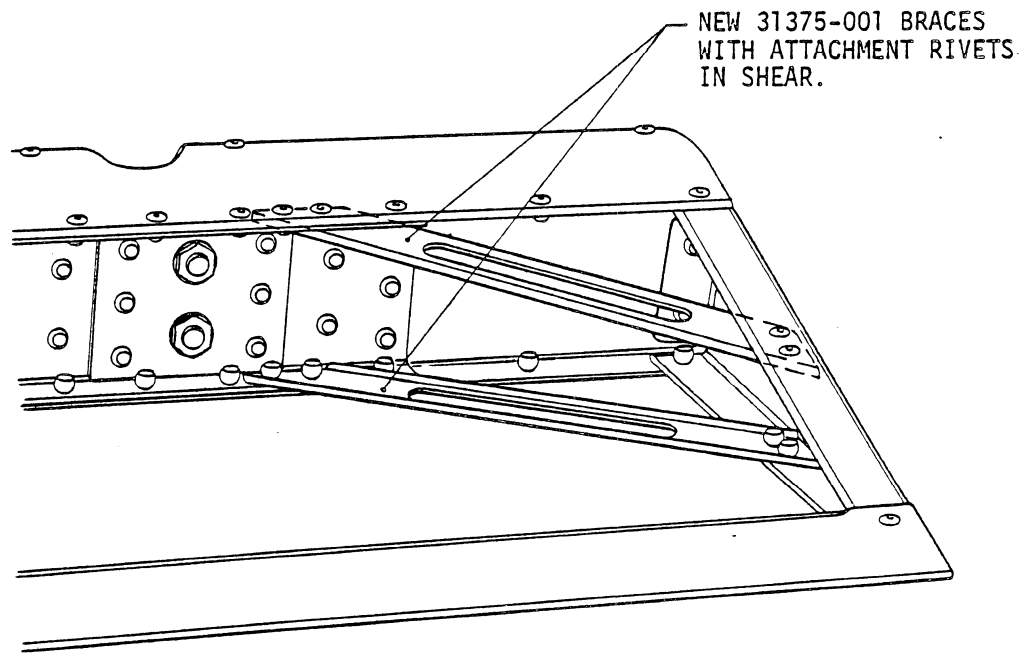
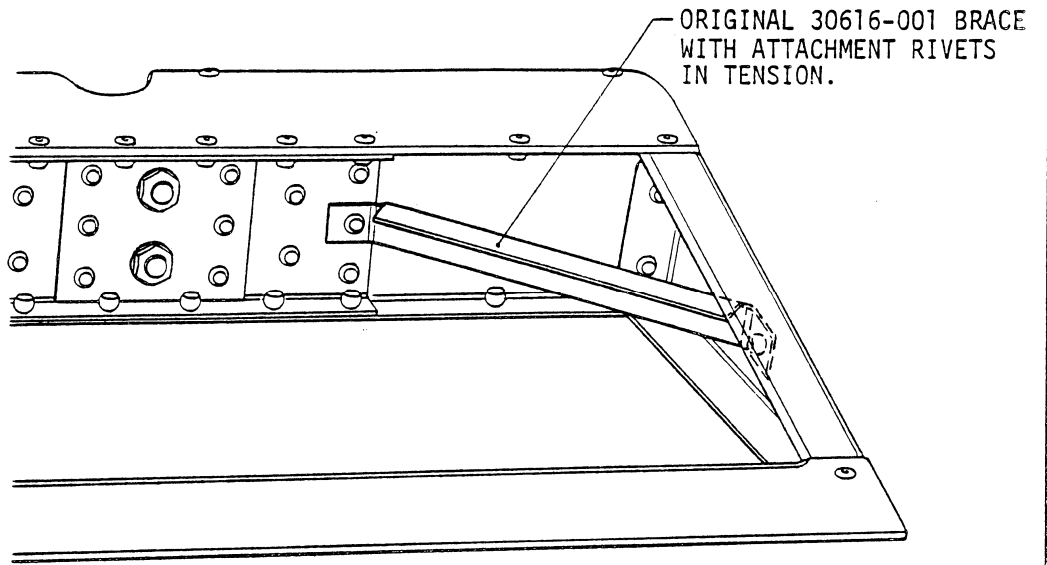
Excessive shrinking of the fabric on the upper ailerons during the fabric covering process produces sufficient lateral forces to flex the attachment tabs on the braces, distorting the ailerons into a more pronounced parallelogram shape in which the ends of the ailerons are no longer parallel to the inboard and outboard end surfaces of the aileron wells. In extreme cases the outboard tips of the ailerons will touch the sides of the wells.


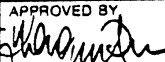
Careful shrinking of the fabric avoids the distortion problem; however, the fabric covering process is not intended to be overly critical, and new aileron braces have been designed which will hold the ailerons in their proper shape regardless of the amount of fabric tension produced in the covering process. The original brace system and the new system are depicted in the enclosed copy of Engineering Sketch X-90177.

Builders who have not covered their aircraft can purchase and install the new braces before covering. Aircraft which are already covered but which do not exhibit the distortion condition need not be modified. The new braces will be a standard part of the 901 Ailerons Kit in the future, beginning with Kit serial 0571.

PART NO.	DESCRIPTION	UNIT	QTY REQ
31375-001	BRACE, AILERON	EA	16
50122-002	RIVET, BLIND OPEN END	EA	70

ENCLOSURE: ENGINEERING SKETCH X-90175



UNLESS OTHERWISE SPECIFIED: TOLERANCES: FRAC. $\pm 1/64$ DEC. XXX $\pm .005$ ANGLES $\pm 0^\circ 30'$ DIMENSIONS IN INCHES DO NOT SCALE DRAWING	MATERIAL AND CONDITION NONE			CHRISTEN  CHRISTEN INDUSTRIES HOLLISTER, CALIFORNIA		
	FINISH NONE					ENGINEERING SKETCH
	DRAWN BY I. CLEDE	DATE 10-18-83	PROJECT EAGLE II AIRCRAFT		TITLE AILERON BRACES	
	APPROVED BY 	DATE 10-18-83			CODE PA	NO X-90175