



## **SkyStar Aircraft Corporation**

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November 3, 1992

**SERVICE BULLETIN # 25**

**SUBJECT: MODEL IV STYLE FLAPERONS**

**TO: ALL KITFOX BUILDERS WITH MODEL IV WINGS (laminar flow wing)**

**FROM: SKYSTAR AIRCRAFT CORPORATION**

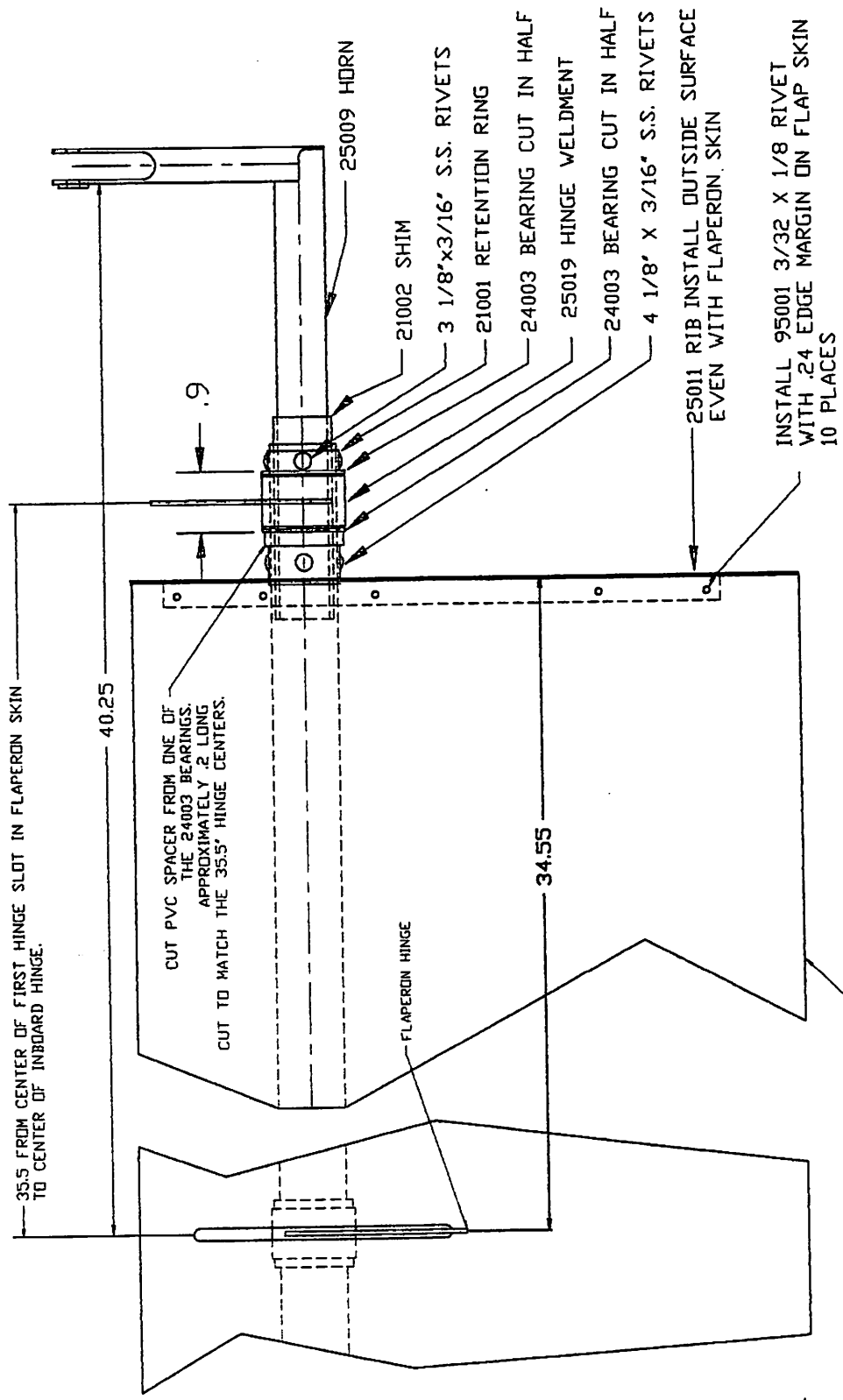
It has come to our attention that there was a period of time that the Model IV flaperons might have been inadvertently cut .2" short on the inboard end. If the flaperon control horn is attached per the Manual instructions, on one of these "short" flaperons, then it is possible that the inboard flaperon hinge will not match up to the flaperon attach bracket on the # 1 rib or have the proper distance from the first inboard hinge (35.5"), refer to the enclosed drawing.

The way to determine if your flaperons fall into this "short" category, is to measure the distance from the center of the first hinge cut out to the inboard end of the flaperon skin. **The measurement from the center of the first hinge slot to the inboard edge of the flaperon skin should be 34.55".**

If you find that you have one of these "short" flaperons and have not attached the #25009 Flaperon Control Horn, cut a .2" piece of #24003 Bearing (scrap from the cut off section of bearing) and install it between the #25011 End Rib bushing and the #24003 Bearing, per the enclosed drawing.

**If you have already assembled your Flaperon Control Horn to the flaperon and you find that your flaperon is "short",** please call one of our customer service representatives so that we can send you two off-set flaperon hinges (off-set by .2") and a new set of #25009 Flaperon Control Horns, to take the place of those you will need to replace. You will have to drill out the rivets that attach the #21001 Retention Ring to the Control Horn and the Control Horn to the end rib. Replace the hinge and rivet the Retention Ring and new Control Horn back into place on each flaperon.

Questions regarding this procedure can be directed to our technical department, at 208-466-1711 or by FAX; 208-466-7194.



35.5 FROM CENTER OF FIRST HINGE SLOT IN FLAPERON SKIN TO CENTER OF INBOARD HINGE.

40.25

CUT PVC SPACER FROM ONE OF THE 24003 BEARINGS. APPROXIMATELY 2 LONG CUT TO MATCH THE 35.5" HINGE CENTERS.

FLAPERON HINGE

34.55

25009 HORN

21002 SHIM

3 1/8" X 3/16" S.S. RIVETS

21001 RETENTION RING

24003 BEARING CUT IN HALF

25019 HINGE WELDMENT

24003 BEARING CUT IN HALF

4 1/8" X 3/16" S.S. RIVETS

25011 RIB INSTALL OUTSIDE SURFACE EVEN WITH FLAPERON SKIN

INSTALL 95001 3/32 X 1/8 RIVET WITH .24 EDGE MARGIN ON FLAP SKIN 10 PLACES

26005 LEFT FLAPERON  
26006 RIGHT FLAPERON

FLAPERON HORN AND BEARING ASSEMBLY FOR FLAPERONS WITH INCORRECTLY SLOTTED SKINS.