



Nampa Airport • 100 N. Kings Rd. • Nampa, ID 83687 • (208) 466-1711 • FAX (208) 466-7194



SERVICE BULLETIN #38

DATE: August 15, 1994

SUBJECT: Rudder pedal reinforcements

APPLICABILITY: All Vixen Owners who's Aircraft Serial Numbers are:
DBT001, ECV001-ECV009, FCV008, GCV010, HCV011-HCV012,
ICV013-ICV018, JCV019-JCV022, KCV024, LCV023, LCV025-LCV026,
ADV027-ADV030

COMPLIANCE: Mandatory

FROM: SkyStar Aircraft, Engineering Department

We are issuing this service bulletin to strengthen an area of potential fatigue with the rudder pedal assembly on all Vixen 1200 aircraft.

The area of concern is the point at which the vertical pedal tubes are welded to the horizontal tube. After repeated demonstration use, our factory aircraft has developed small cracks on the horizontal tubing in the area adjacent to the welds.

We have developed a reinforcement kit, P/N 10210.000, that has proven to be a simple and effective solution for strengthening this area. The reinforcement kit is being sent free of charge to all applicable aircraft owners.

If you have any questions about this service bulletin, don't hesitate to call our Customer Service Department at 208-466-1711.]

Skystar
AIRCRAFT CORPORATION

SERIES 5 - VIXEN (1200 lb.)

**RUDDER PEDAL
REINFORCEMENT INSTRUCTIONS**

(P/N 10207.000)

MODEL	CHAPTER	SECTION	REV.	DATE	PAGE
Vixen		Rudder Pedal Reinforcement Kit Instructions			1

RUDDER PEDAL REINFORCEMENT KIT

1. If installed, remove the rudder pedal assemblies from the aircraft. Inspect the rudder pedal weldments at the weld joints for cracks, and if any are found have them welded before continuing.
2. Round the edges of the four pedal reinforcement straps with a file.
3. Drill the straps for the rivets, using the dimensions shown in the drawing. Deburr the holes.
4. Mark a centerline on the straps to help you bend them around the torque tube so that an equal height of strap will support the vertical tubes on the front and back sides. Carefully bend all four straps at the vertical tube locations.
5. Drill the vertical pedal tubes for the rivets, using the straps as a drill guide. Use clecos in the holes as you drill to preserve part alignment. When the drilling is complete, remove the straps and mark them for location and orientation so as not to get them mixed up.
6. Deburr the holes in the rudder pedal weldments, and then prepare both the straps and the weldments for bonding. First wipe the bonding surfaces clean with a solvent wipe; then thoroughly scuff the surfaces with 100 grit sandpaper or scotch brite; then follow with a final solvent wipe.
7. Carefully and thoroughly mix the 2216 epoxy, and apply it to the bonding surfaces. Press the reinforcing straps in place on their respective weldments, and pull up the SS rivets to complete the assembly. Clean up any excess adhesive that oozes out.
8. After the adhesive has fully cured, paint the straps for corrosion protection, and to match colors with your rudder pedal weldments.
9. Make a note in your airframe logbook stating that you have complied with Service Bulletin #38.

Completion Date _____

MODEL	CHAPTER	SECTION	REV.	DATE	PAR.	PAGE
Vixen		Rudder Pedal Reinforcement Kit Instructions			1	2

P/N 11079.101
REINFORCEMENT STRAP

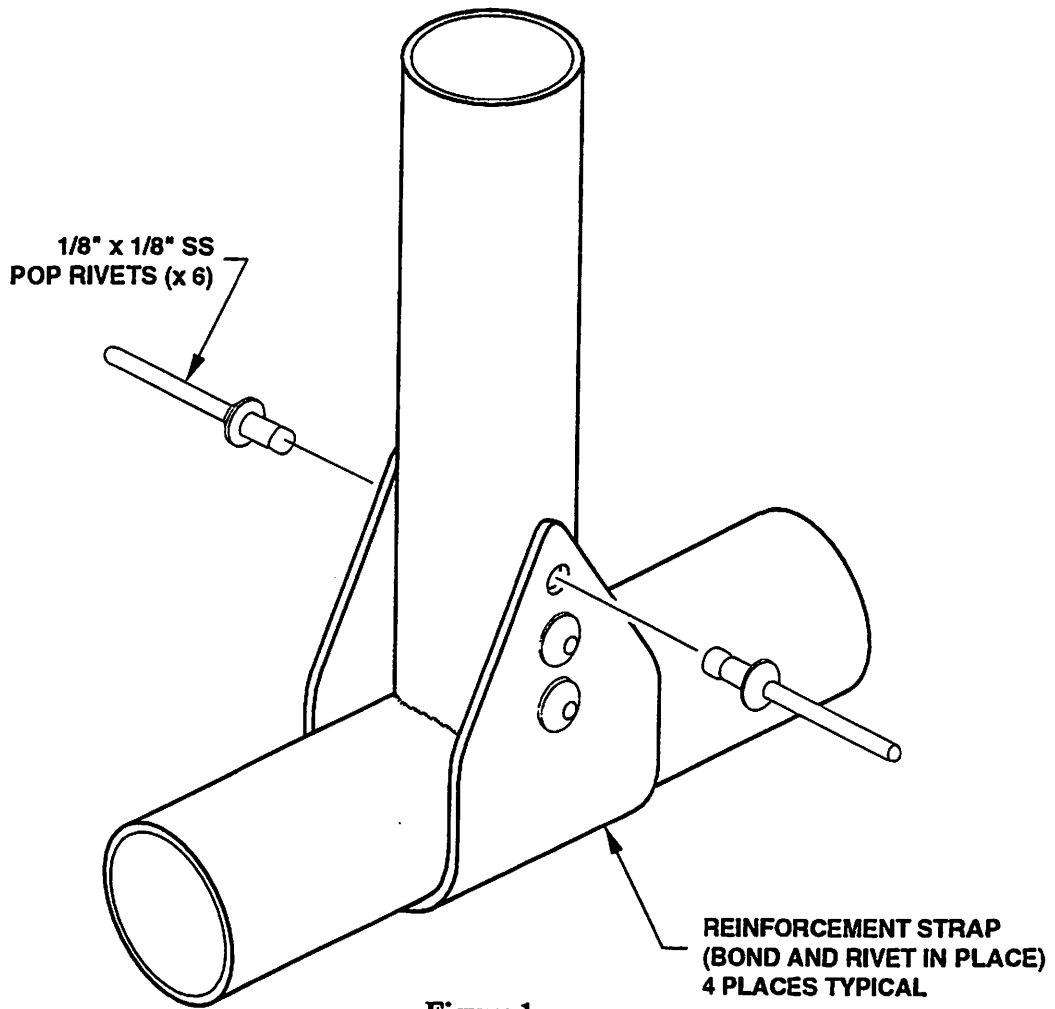
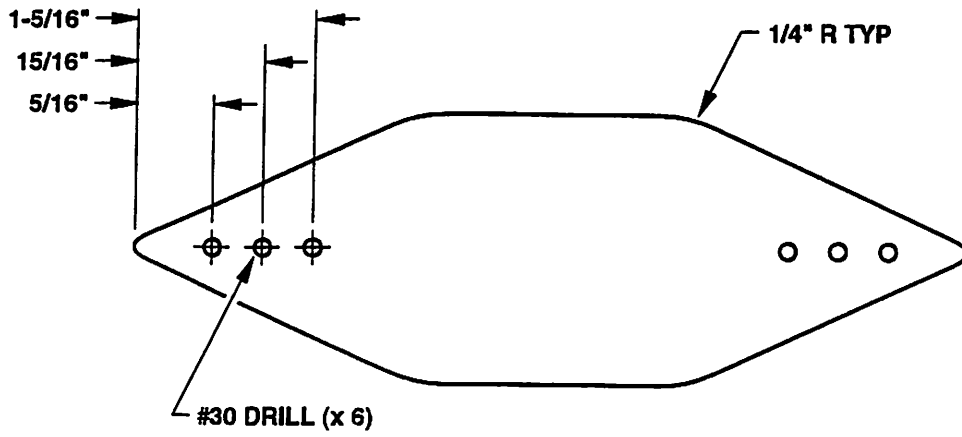


Figure 1
Rudder Pedal Reinforcement Strap Detail

This Page Intentionally Left Blank.

MODEL	CHAPTER	SECTION	REV.	DATE	PAR.	PAGE
Vixen		Rudder Pedal Reinforcement Kit Instructions				4