

# **SERVICE BULLETIN**

## **PITTS SPECIAL**

DATE: 18 September, 1998

**SEVICE BULLETIN No. 27**

REVISION: n/c

SUBJECT: Upper Wing Fabric, Pitts S-2B only

1. EFFECTIVITY:

Pitts S-2B, S/N 5260 through 5340, date of manufacture December 1992 through December 1996

2. PUPOSE:

Reinforce the leading edge of the upper wing fabric with 4 inch fabric tape.

3. BACKGROUND:

There has been several cases of the Pitts S-2B experiencing tearing of the upper wing fabric in the general location of the "I" strut and approximately 2.5 feet inboard of the "I" strut and just out board of the center section.

4. COMPLIANCE:

**MANDATORY.**

A. Inspection – inspect the leading edge of the upper wing for the absence of reinforcing tape prior to next flight.

B. Repair – Within the next 25 hours of operation or one month, whichever occurs, install leading edge 4 inch reinforcing tape along entire span of upper wing per AC43 and refinish upper wing leading edge.

5. ACCOMPLISHMENT INSTRUCTIONS:

A. Initial Inspection.

(1) This inspection is to be performed prior to next flight. Check wing leading edge for the absent of leading edge tape. If upper wing has leading edge tape reinforcing tape already installed no further action is required. (see Figures 1 and 2)

B. Repetitive Inspections

None required

### C. Repair

On all before mentioned aircraft with original cover and finish, use the following procedures for application of leading edge tapes.

1. Thoroughly clean leading edge 8" back with isopropyl alcohol.
2. Determine area which the 4" surface tape will cover. Lay out area with masking tape and a good quality masking paper to avoid thinner damage to finish behind area to be worked.\*\*
3. Thinner rub area in which 4" surface tape will be applied. Rub until silver aluminized dope is removed with a good grade dope thinner, i.e.; Randolph Products Butyrate Thinner.\*\*
4. Apply 4" surface tape of Grade A cotton, Aviat Aircraft P/N 41646 or Dacron, Aviat Aircraft P/N 41664. Apply by thoroughly wetting tape with a 50/50 mixture of non-taughtening butyrate and butyrate thinner, lay tape in predetermined area and smooth down with a brush or by hand. Brush on two coats of butyrate mixture, let dry, then lightly sand coated area with 320 grit dry sand paper.\*\*
5. Apply second fill coat of butyrate mixture (50/50) by brush or spray. Apply two coats of aluminized butyrate (Randolph Products Rando-Fill) by brush or spray.\*\*
6. Lightly sand coated area with 320 wet or dry sand paper. \*\*
7. Apply two more coats of aluminized butyrate by brush or spray. Allow to dry thoroughly.\*\*
8. Remove masking, feather coated area into leading edge with 400 grit wet or dry sandpaper.\*\*
9. Mask for application of color, either for hard line or a blended finish.\*\*
10. Spray or brush colored butyrate dope, preferably Randolph Products as this was the original finish. For blended finishes use butyrate thinner as blending solvent. Allow to dry and buff to desired finish.\*\*

\*\*For aircraft with polyurethane finishes refer to Superflite System II product manual and follow patching procedures with recommended materials.