

# **PITTS** AVIATION ENTERPRISES, Inc.

P. O. BOX 548 • HOMESTEAD, FLORIDA 33030  
May 29, 1972

## SERVICE BULLETIN NO. 5

1. **APPLICABILITY:** Accomplishment of this Service Bulletin is mandatory as noted, in paragraph 4. below.

This Bulletin may be applicable to any Model S-2A airplane from serial number 2001 through 2025. (See paragraph 4. )

2. **PURPOSE:** To prevent structural damage arising from in-flight vibration of the upper and lower aileron interconnect tubes; Pitts P/N 2-5216-1.
3. **DISCUSSION:** There have been reports of some airplanes in the above-noted serial number range which have experienced in-flight vibration of the aileron interconnect tubes. In addition, there has been one case in which the vibration was severe enough to cause a structural failure of the attachment at the lower aileron end of the tube. (This airplane remained fully controllable, and was safely landed without further damage.) Since learning that some aircraft have experienced this vibration, extensive investigation by Pitts Aviation Enterprises, Inc. and Aerotek, Inc., including in-flight studies, has revealed the following information:
- It is not abnormal for the aileron interconnect tubes to vibrate on the ground when the engine is idling at (approximately) 750 RPM.
  - It should be considered abnormal for the interconnect tubes to exhibit in-flight vibration for a period of time longer than approximately one second, at any combination of attitude, yaw angle, airspeed, or power setting.
  - Aircraft having interconnect tubes which do not exhibit in-flight vibration within the first five hours of total time pre extremely unlikely to ever show this vibration.

4. **ACCOMPLISH THE FOLLOWING:**

- a) If your aircraft has ever exhibited in-flight vibration of the aileron interconnect tubes exceeding one second continuous duration, contact;

Aerotek, Inc.

P. O. Box 547

Afton, Wyoming 83110 (Tel. 307-886-3151)

(Attn: Mr. E. H. Andersen, Jr., Pres.),



