

**DATE: 17 November 1998**

**REVISION: n/c**

**AIRCRAFT: PITTS SPECIAL**

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**SUBJECT: LANG D-501A Tailwheel Assembly Usage**

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1. EFFECTIVITY:

Pitts S-2A, S-2B, S-2C: all.

2. PURPOSE:

The LANG D-501A tailwheel assembly is approved for installation on the PITTS S-2A, S-2B and S-2C aircraft.

3. BACKGROUND:

Reported failures and discontinued production of late model MAULE SFSA-1-4 tailwheels as currently installed on the S-2A, S-2B and S-2C have made qualification of an acceptable replacement tailwheel assembly necessary. Typical reported failures include vibration, wheel bearing failures and separation of the tire from the wheel with subsequent tire disintegration

4. COMPLIANCE:

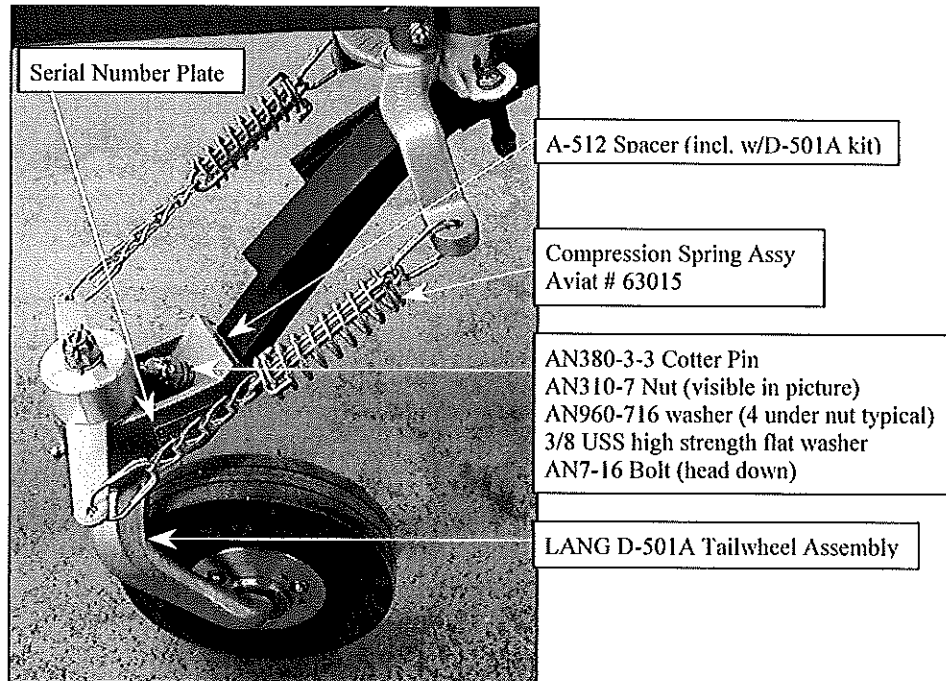
**OPTIONAL.**

The LANG D-501A tailwheel assembly is the only currently approved alternate replacement for the MAULE SFSA-1-4 tailwheel assembly for the PITTS S-2 series aircraft. A failed MAULE tailwheel assembly installation may be replaced with either a serviceable MAULE SFSA-1-4 tailwheel assembly or a LANG D-501A tailwheel assembly. A currently installed and serviceable MAULE tailwheel assembly may be replaced with the LANG tailwheel assembly at the operator's discretion.

5. ACCOMPLISHMENT INSTRUCTIONS:

## A. Installation.

Refer to illustration below for installation details.



- (1) Install tailwheel assembly using components shown in illustration -
  - a) Assemble tailwheel assembly to tailwheel spring with A-512 spacer between tailwheel bracket and tailwheel spring.
  - b) Install AN7-16 bolt head down with 3/8 USS high strength flat washer between bolt head and tailwheel spring.
  - c) Install AN310-7 nut and AN380-3-3 cotter pin per AC 43.13 using AN960-716 washers to provide proper alignment of cotter pin with nut castellations.
- (2) Logbook entry -
  - a) Note maintenance performed.
  - b) Record tailwheel serial number.

5. ACCOMPLISHMENT INSTRUCTIONS (continued):

B. Weight and balance

No changes.

C. Airplane flight manual

No changes.

D. Repetitive Inspections

None required.