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DATE: 23 JULY 2015

SUBJECT: Rudder Cable Assemblies

REVISION: Initial Release (IR)

**AIRCRAFT MODEL: Pitts Model S-2, S-2E, and S-2A Aircraft
(CERTIFIED IN ANY AIRWORTHINESS CATEGORY)**

Engineering Data is FAA Approved

PURPOSE

To inform aircraft owners of the requirement to replace both rudder cables, part number 2-3150-2, turnbuckles, part number AN155-16S, and fork, part number AN 161-16LS with replacement rudder cables part number 2-3150-7.

DESCRIPTION

Aviat Aircraft Inc. has received a service difficulty report from the field that a 2-3150-2 cable failed during taxing of the aircraft. The aft end of this rudder cable attaches to an AN155-16S turnbuckle with a AN170-165 cable eye bolt. The eyebolt failed at the beginning the threads. Failure of the rudder cable will cause loss of control of the aircraft.

COMPLIANCE

Before the next flight:
Inspect the aircraft to verify if the aircraft has installed part number 2-3150-2 rudder cables. The part number 2-3150-2 attaches to an AN155-16S turnbuckle with an AN170-165 eye bolt which is part of the cable assembly, just forward of the rudder attachment point. If the aircraft is found to have the part number 2-3150-2 rudder cables installed replace them with a 2-3150-7 rudder cable. The 2-3150-7 replacement rudder cables do not use the AN turnbuckles or AN forks.

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AFFECTED Model LIST:

All Pitts S-2, S-2E, and S-2A All Serial Numbers.

The Pitts model S-2 aircraft may have been built from plans supplied by one of the manufacturers listed above.

The Pitts model S-2E aircraft were built from plans supplied by one of the manufacturers listed above.

The Pitts model S-2A aircraft were manufactured by Pitts Aviation Enterprises Homestead, FL, Aerotek Inc. Afton, WY, and Pitts Aerobatics Afton, WY.

This service bulletin is applicable to all S-2, S-2E and S-2A model aircraft, certified in Any Airworthiness Category.

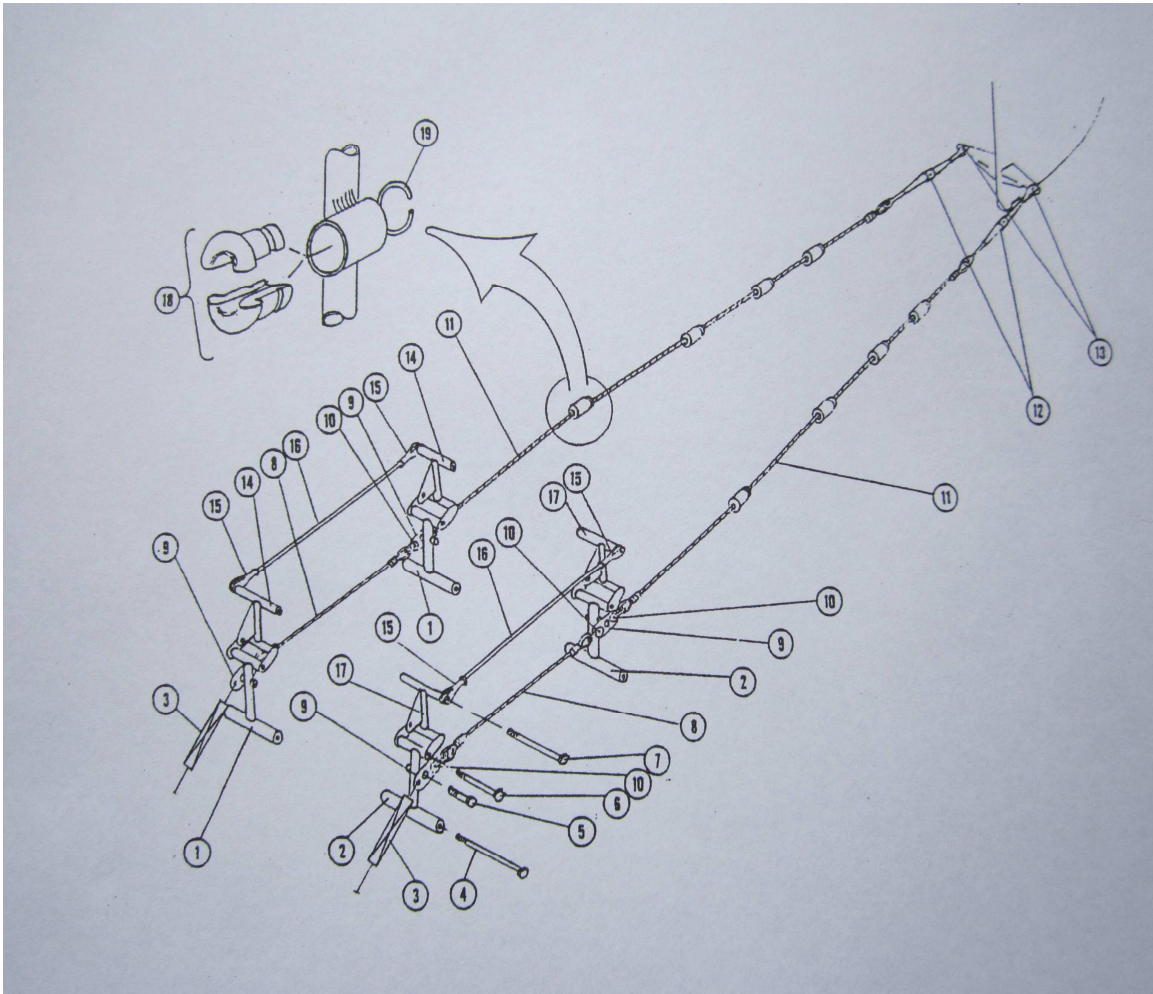
***NOTE:**

- Only FAA authorized repairmen should perform the following instructions.
- It is the responsibilities of owner/operator to have FAA authorized repairmen perform this work.
- Complete and send Aviat Aircraft compliance letter to appropriate addresses.

Using the view on page 3 of this service bulletin as reference, remove the 2-3150-2 rudder cables (item 11) including the AN155-16S turnbuckles (item 12) and AN161-16LS forks (item 13) at the rudder attach point by removing the AN380-2-2 cotter pins, AN310-3 nuts, AN960-10 washers, and AN3-6 bolts.

Remove the rudder cables from the rear rudder pedals by removing the AN380-2-2 cotter pins, AN310-3 nuts, AN960-10 washers and AN3-5 bolts. Next remove the fairleads 4 places on each cable in the fuselage. The fairleads can be accessed through the inspection holes in the fuselage. Be careful pulling the cable through the fuselage fabric as the fabric could be damaged.

Install the new part number 2-3150-7, which does not use the removed turnbuckles or forks, in the reverse order as above. Replace any worn or damaged hardware with new hardware. Verify all hardware at the rudder and rudder pedals are installed and all cotter pins are installed correctly. Special attention should be given to rudder cable attach point at the rudder, verifying that the rudder cable aligns straight to the rudder, the rudder cable moves freely and that there are no modifications, repairs or damage to the attach points at either end of the cable which might interfere with proper operation of the rudder control system. Verify proper operation and rudder travel in accordance with Owner's and Maintenance Manual document number 70196-001.



The view above is from the S-2A part list document 70183-001. The view shows the installation of the rudder cables part number 2-3150-2 (item 11) turnbuckles (item 12), forks (item 13) rudder cable fairleads (items 18 and 19).

The replacement part number 2-3150-7 rudder cables are available from Aviat Aircraft Inc. parts department. You can reach the parts department at aviat@aviataircraft.com or phone 307-885-3151.

COMPLIANCE LETTER

I certify that I have complied with Service Bulletin No. 36 on:

Pitts model: _____ Serial Number: _____
Registration No.: _____ Aircraft Hours: _____

FAA Authorized Repairman: _____ License No. _____

Date: _____

Signed: _____

Return completed letter to:

Engineering
Aviat Aircraft, Inc.
P.O. Box 1240
Afton, WY 83110
Fax: 307-885-9674

Send copy to:

Federal Aviation Administration
Denver Aircraft Certification Office
Attn: Roger Caldwell
26805 East 68th Avenue, Room 214
Denver, CO 80249-6361
Fax: 303-342-1088