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**DATE:** 17 January 2010

**REVISION:** A

**AIRCRAFT MODEL:** Husky A-1, A-1A, A-1B, A-1C 180 and A-1C 200

**SUBJECT:** Threaded Tie Rod

**SERIAL NUMBERS AFFECTED:** All

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**Engineering Data is FAA Approved**

**DESCRIPTION**

As stated in POH prior to any flight operation, the Husky should receive a thorough inspection. During such inspection if it is concluded that the threaded tie rods are in a worn condition, replace such tie rods with rolled threads instead of cut threads. The rolled thread tie rod should minimize failure of the tie rod.

It is requested that both ends of each threaded tie rod be visually inspected before each flight for any cracks in the threaded portion of the strut fitting where tie rod screws into the terminal end.

**COMPLIANCE**

If during inspection cracks are found purchase new threaded tie rods from Aviat Aircraft Inc. Part number for the threaded tie rod is 30655-012. Replace threaded tie rods using appropriate F.A.A. authorized mechanics. Complete and send compliance letter to appropriate addresses.

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**PARTS LIST**

<b>NO. REQ.</b>	<b>CODE NUMBER</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
2	81352	30655-012	Threaded Tie Rod
2	55400	AN365-428A	Self-Locking Nut
2	55675	AN380-2-2 MS24665-132	Cotter Pin

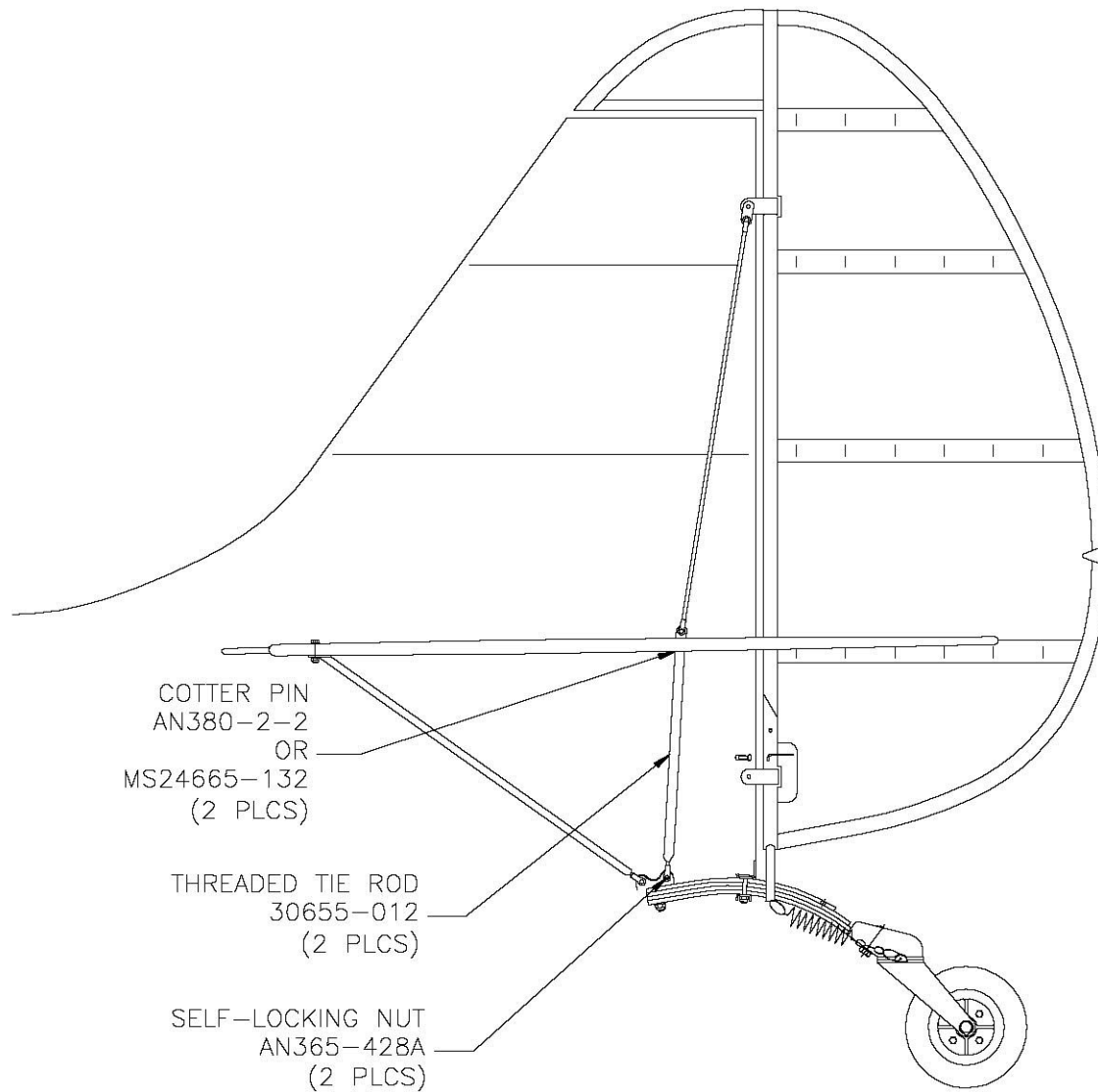
**INSTALLATION OF THE THREADED TIE ROD\***

1. Loosen top nut on rudder fuselage to relieve tension.
2. Remove lower nut at horizontal stabilizer/elevator attach point.
3. Remove nut and bolt that attached threaded tie rod to strut attach bracket.
4. Remove threaded tie rod.
5. Pull cotter key from end of threaded tie rod assembly.
6. Measure center hole to center hole from clevis to determine length of threaded tie rod.
7. Reverse process to install new threaded tie rod. Replace provided hardware.
8. Remove rear cushion seat. Place smart level on forward horizontal rear seat tube to determine level or 0°.
9. Place level on trailing edge between the two center ribs to check for 0° on stabilizer. If adjustments are needed turn threaded tie rod in appropriate direction to accomplish 0° then tighten jam nut and front locking nut.
10. Check witness holes on clevis to determine appropriate thread depth is acquired.
11. Loosen jam nut and adjust as needed forward stabilizer strut to keep front of stabilizer level.
12. Check wire tension of top tail wires. Tension should be between 100-125 lbs. Using tensiometer.

For any further question please call Aviat Aircraft Inc. factory service at (307) 885-3151.

**\*NOTE:**

- Only FAA authorized repairmen should perform the following instructions.
- It is the responsibility of owner/operator to have FAA authorized repairmen perform this work.



**COMPLIANCE LETTER**

This is to certify that I have conducted the inspection of the Threaded Tie Rod and upgraded to the Rolled Threaded Tie Rod, part number 30655-012 on aircraft:

Serial Number \_\_\_\_\_ Registration Number \_\_\_\_\_

Model Number \_\_\_\_\_ in accordance with Service Bulletin No. 26.

Date: \_\_\_\_\_ Aircraft Hours: \_\_\_\_\_ Hours

Signed: \_\_\_\_\_

**Return completed letter to:**

Engineering  
Sky International, 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 68<sup>th</sup> Avenue, Room 214  
Denver, CO 80249-6361  
Fax: 303-342-1088