



# SERVICE BULLETIN

SB0017

Rev A

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## Cub Crafters, Inc. Considers Compliance Mandatory

- EFFECTIVE DATE:** This Service Bulletin is effective November 15, 2016.
- SUBJECT:** *STABILIZER YOKE*
- MODELS AFFECTED:** *CC18-0002 THROUGH CC18-0083*
- COMPLIANCE TIME:** *AT NEXT ANNUAL OR 100 HOUR INSPECTION, AND AT EACH SUBSEQUENT INSPECTION UNTIL PART B IS COMPLIED WITH.*
- PURPOSE:** *Cub Crafters has determined that the bushings in the stabilizer yoke assembly may have been pressed in without a secondary swaging operation.*
- WARRANTY:** Aircraft under warranty will be provided parts at no cost, and receive up to 12 hours of labor if work is performed at a Cub Crafters Authorized Service Center. Please contact Cub Crafters Customer Support for assistance.

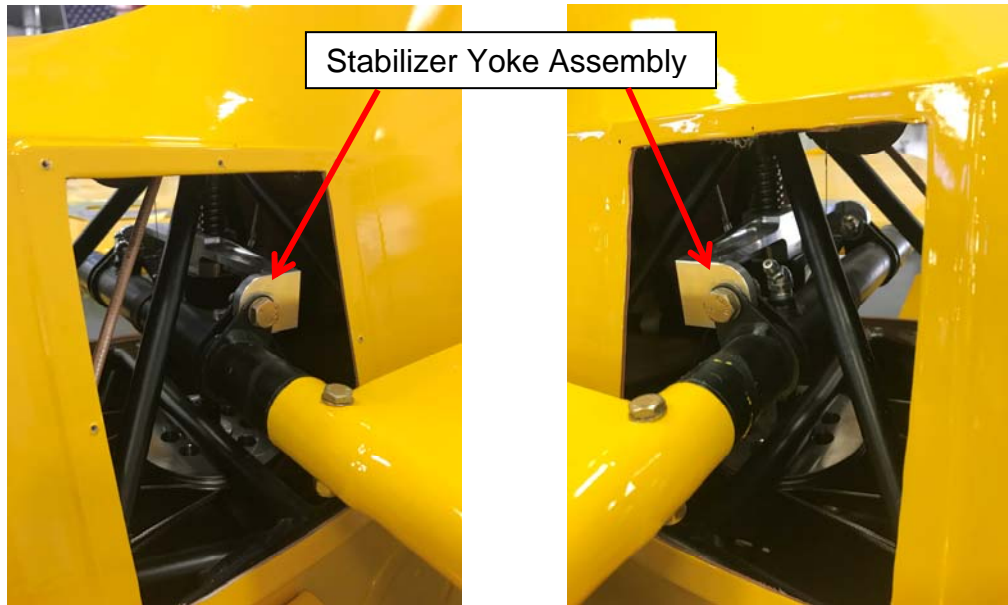
**PARTS LIST:**

<u>PART</u>	<u>DESCRIPTION</u>	<u>QTY</u>
AN380-2-2	Cotter Pin	2
AN380-3-3	Cotter Pin	1
TC2539-001	Key, Stabilizer Adjustment	1
TC2540-001	Stabilizer Yoke Assembly	1

**PART A INSTRUCTIONS:**

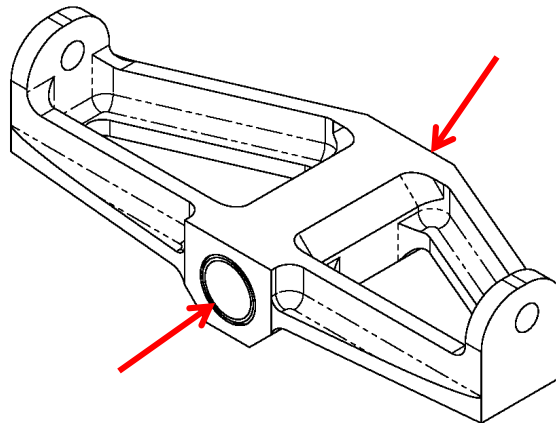
1. Read all instructions before beginning any work.
2. Remove the left and right stabilizer yoke covers, to gain visual access to the stabilizer yoke assembly (see Figure 1).

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**Figure 1 – Stabilizer Yoke Covers Removed**

3. Visually inspect the stabilizer yoke assembly to ensure that the jack screw bushings are intact, and sit flush or recessed to the face of the yoke (see Figure 2).



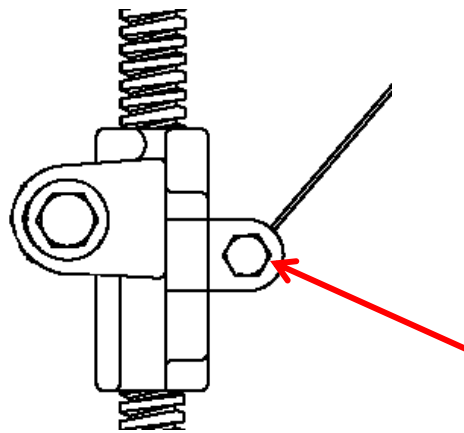
**Figure 2 – Stabilizer Yoke**

4. If the stabilizer yoke assembly is determined to be acceptable, proceed to step 5. If the stabilizer yoke assembly is determined to be unacceptable, skip to Part B.
5. Re-install both stabilizer yoke covers.
6. Make logbook entry stating that SB0017 Rev A, Part A was complied with. There are no changes to weight and balance. This inspection will be reoccurring until Part B is complied with.

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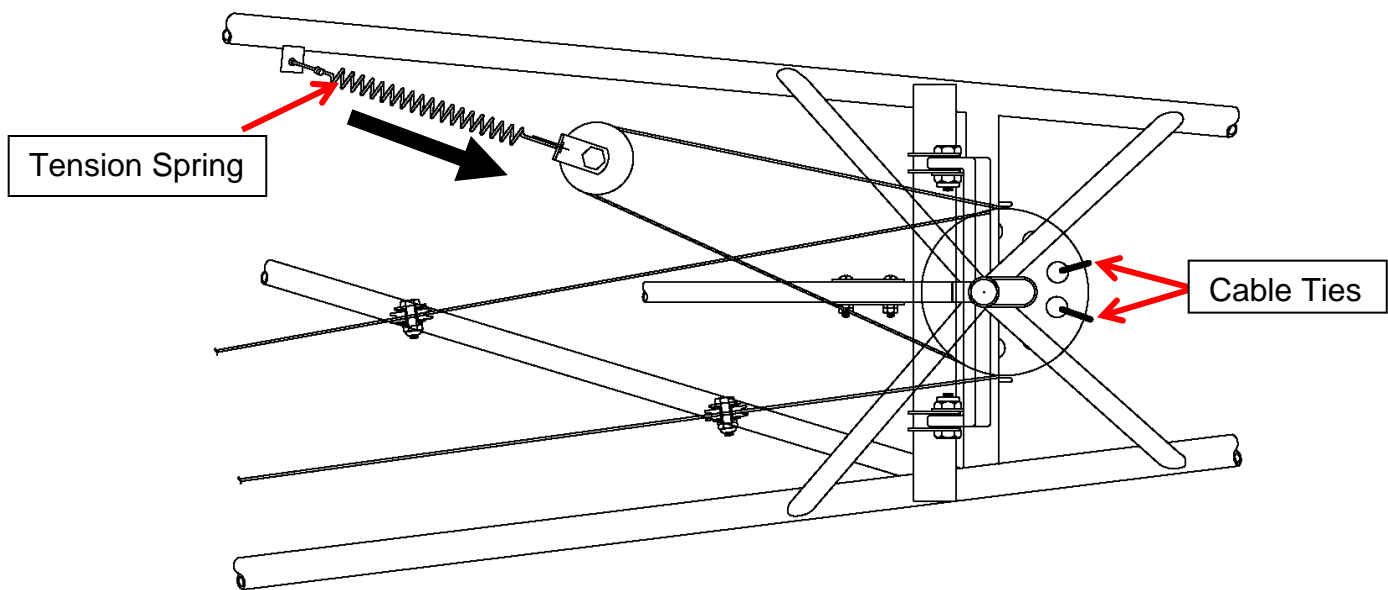
**PART B INSTRUCTIONS:**

1. Remove the attachment bolts at both ends of the stabilizer yoke assembly. Let the horizontal stabilizers rest on the fuselage tubes below.
2. Remove the bolt holding the bushing and trim bungee cable to the aft side of stabilizer yoke (see Figure 3).



**Figure 3 – Stabilizer Yoke**

3. Using cable ties, secure the pulley below the stabilizer yoke assembly such that the cables cannot slip out of their respective grooves (see Figure 4).
4. Using cable ties, secure the stabilizer trim tension spring in an aft position (see Figure 4).



**Figure 4 – Pulley / Stabilizer Trim Tension Spring**

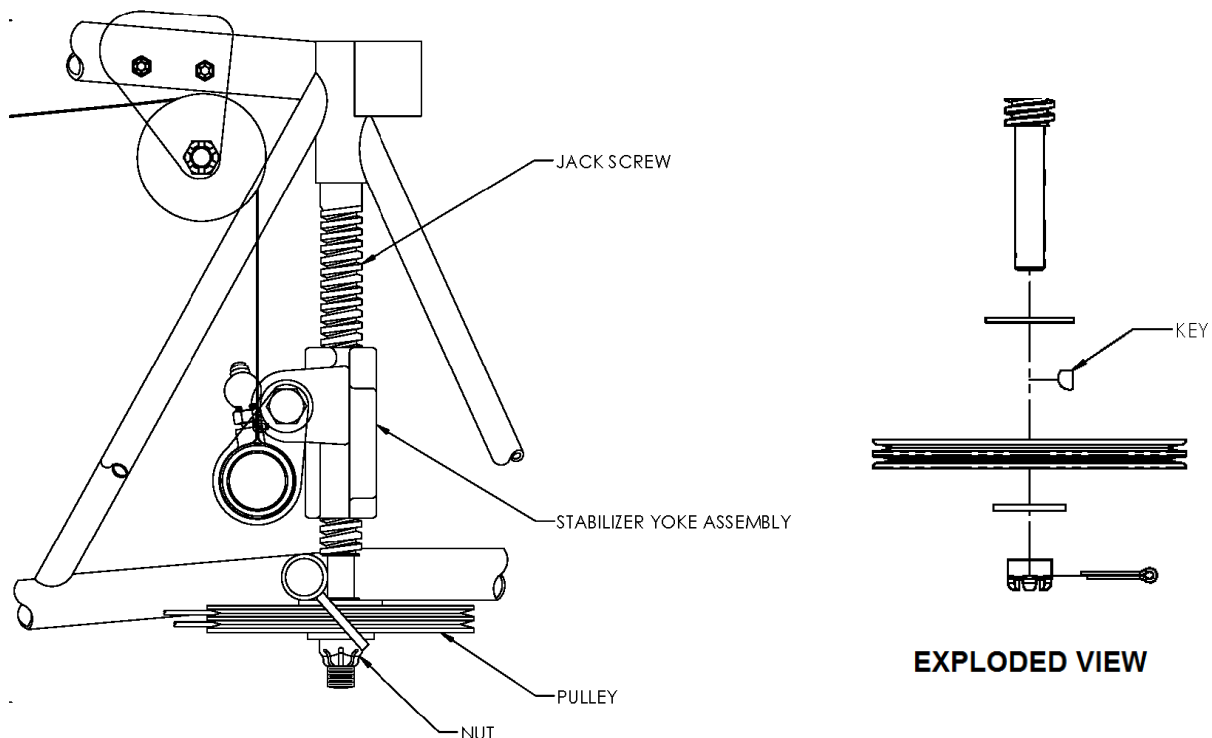
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5. Cut a hole through the fabric directly above the jack screw (see Figure 5). The leading edge fin fairing will have a hole in it to access the jack screw. If the hole in the leading edge fin fairing is not large enough, you may need to widen the hole as required to remove the jack screw.



**Figure 5 – Drill Location**

6. Remove the hardware at the bottom of the pulley below the jack screw (see Figure 6). Be sure to remove the key from the slot of the jack screw. Let the pulley hang below the stabilizer yoke assembly.



**Figure 6 – Jack Screw Removal**



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7. Thread the jack screw out the top of the yoke, through the hole in the fabric.
8. Remove the stabilizer yoke assembly.
9. Install the new stabilizer yoke assembly TC2540-001, by inserting the jack screw through the hole in the top skin and thread the jack screw through the stabilizer yoke assembly.
10. Re-install the pulley below the jack screw using the existing hardware. Be sure to re-install the key in the slot in the jack screw (It is acceptable to either use the existing key, or use a new one). Ensure that the nut is not too tight, as it might affect the function of the trim.
11. Cut and remove all cable ties that were installed in steps 3 and 4 of Part B.
12. Rig the stabilizer trim per the CC18-180 Aircraft Maintenance Manual (document TC10000AMM), Chapter 27-40. Perform an operational test to ensure the system is functioning properly.
13. Reattach the horizontal stabilizers to the stabilizer yoke assembly.
14. Patch the hole above the jack screw per the CC18-180 Aircraft Maintenance Manual (document TC10000AMM), Chapter 51-00.
15. Re-install both stabilizer yoke covers.
16. Make logbook entry stating that SB0017 Rev A, Part B was complied with. There are no changes to weight and balance. No further action is required.

If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify Cub Crafters, Inc. Contact the customer service department at:

Cub Crafters, Inc.  
1918 S. 16<sup>th</sup> Avenue  
Yakima, WA 98903.  
1-877-484-7865 or 1-509-248-9491  
[support@cubcrafters.com](mailto:support@cubcrafters.com)

Please include the aircraft registration number, serial number, current name, and address of the owner and/or operator.