



**Cub Crafters, Inc. Considers Compliance Mandatory**

**EFFECTIVE DATE:** This Service Bulletin is effective **February 07, 2019.**

**SUBJECT:** *TIMING RING INSPECTION*

**SERIAL NUMBERS AFFECTED:** *CCX-2000-0002 thru CCX-2000-0034  
CCX-2000-0036 thru CCX-2000-0043  
CCK-2000 AIRCRAFT WITH ENGINE KITS SHIPPED PRIOR TO 02/01/2019*

**COMPLIANCE TIME:** *INSPECTION BY THE AIRCRAFT OWNER/OPERATOR OR AN A&P MECHANIC MUST BE PERFORMED WITHIN THE NEXT 25 FLIGHT HOURS*

**PURPOSE:** *Cub Crafters learned of an instance where screws fastening the timing ring to the flywheel did not adequately secure the ring in place, allowing the ring to shift position. The purpose of this Service Bulletin is to verify these screws are tight and the timing ring is secure.*

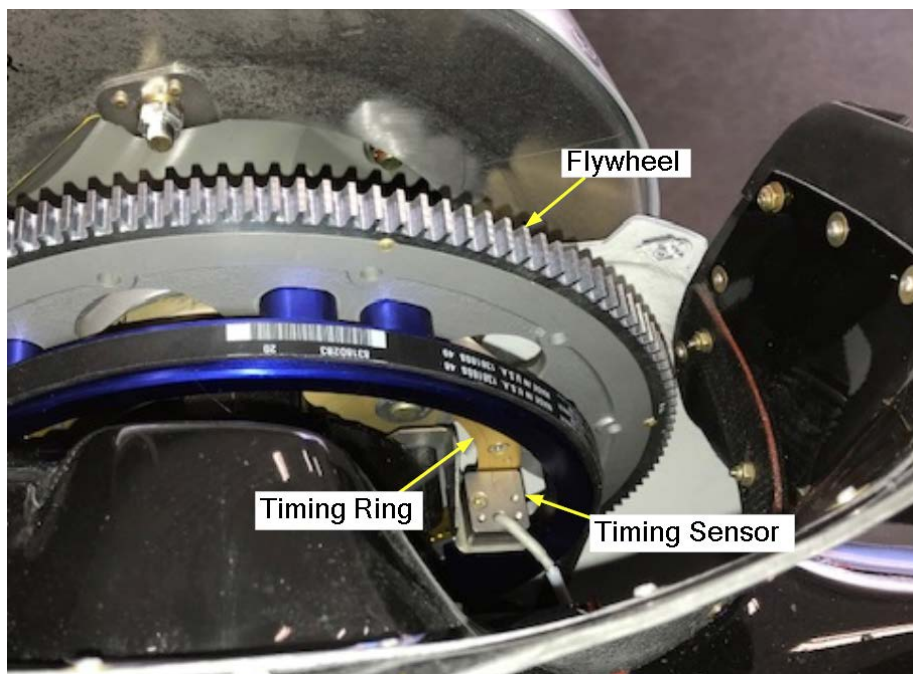
**WARRANTY:** *Aircraft under warranty will receive up to 30 minutes of labor cost if work is performed at a Cub Crafters Authorized Service Center. Please contact Cub Crafters Customer Support for assistance.*

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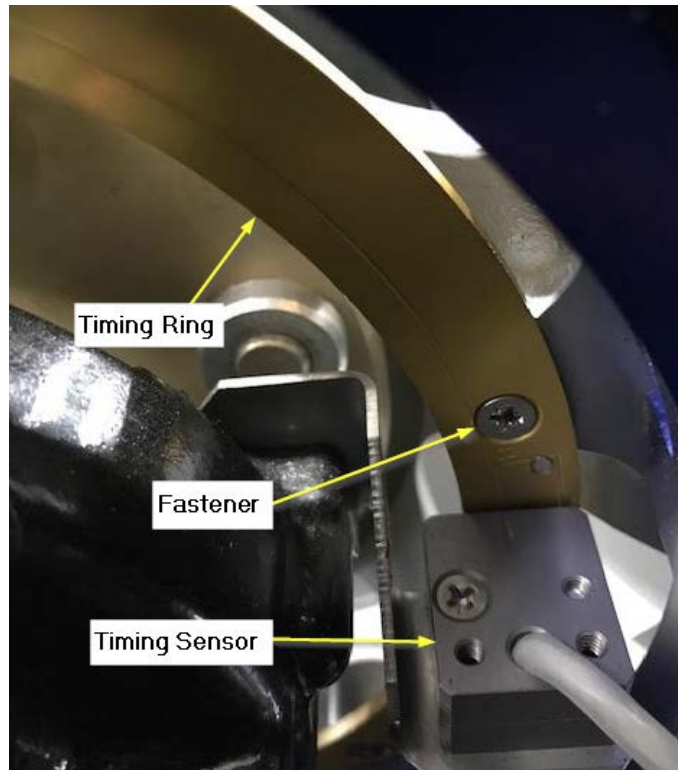
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**INSTRUCTIONS:**

1. Read all instructions before beginning any work.
2. Verify all switches are in the off position and pull ignition and starter circuit breakers to ensure there are no unintentional engine starts.
3. Remove upper cowl by unscrewing fasteners along seam between upper cowl and boot cowl and seam between upper cowl and lower cowl.
4. From the right side of the aircraft and looking down, locate the aft side of the timing ring in front of the timing sensor.



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5. Rotate prop until timing ring fastener can be inspected. An inspection mirror may be useful in this step and the following ones.
6. Verify countersink in timing ring is not elongated and there are no signs of fretting. Also inspect the aft face of the timing ring for signs of wear that could indicate contact with the sensor during use.

If there are any signs of elongated countersinks, fretting, or wear on the face of the timing ring, contact Cub Crafters for instruction before further flight.

**Note:** Do not attempt to loosen or tighten screws. Screws are installed with Loctite and tightening may result in snapped screw heads or could weaken Loctite bond.

7. Grab the timing ring in the area above the fastener and try to wiggle it. Attempt to move it fore & aft and also in a rotational manner. This should not require much force, just enough to verify the ring is firmly attached to the flywheel. If the timing ring is loose at all, contact Cub Crafters for instruction before further flight.

**Note:** While accessible, take this opportunity to inspect the general condition of the flywheel and timing ring assembly.



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- 8. Rotate prop and repeat steps 6 and 7 at all six fastener locations.
- 9. If there are no indications of a loose or shifted timing ring, reinstall upper cowl using existing hardware, reset ignition and starter circuit breakers, and make the following logbook entry stating compliance with SK-SB002 Rev NC.

<u>          </u> <i>(tach time)</i>	<u>          </u> <i>(total time)</i>	<p>This engine was inspected in accordance with SK-SB002 Rev. NC. Timing ring was found to be secure.</p> <p style="text-align: center;">_____</p> <p style="text-align: center;"><i>Signature</i></p> <p style="text-align: right;">_____</p> <p style="text-align: right;"><i>Date</i></p>
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If you are no longer in possession of this aircraft, please forward this information to the present owner/operator and notify Cub Crafters, Inc. of the address of the current owner at:

1918 South 16th Avenue  
 Yakima, WA 98903-1212  
 Phone: (877) 484-7865 or (509) 248-9491  
 Fax: (509) 248-1421

Email: [support@cubcrafters.com](mailto:support@cubcrafters.com)  
 Website: [www.cubcrafters.com](http://www.cubcrafters.com)

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