Field Service Bulletin

FSB Number: 6000007

Revision: B

Date: 6/13/2024

Description: Troubleshooting the high vibration caused by propeller damage in the Golden Eagle and Teal 2.

Priority: ☒ Safety Critical ☐ Mission Critical ☐ Informative

Purpose: Damaged propellers cause vibration in the Golden Eagle and Teal 2 air vehicles (AV). This document reviews how to troubleshoot flight performance issues caused by high vibration from damaged propellers.

Action: Preserve and maintain the propellers to reduce instances of vibration. To preserve the

condition of the propellers:

- Remove the propellers from the motors before storing and transporting them in the transport case.
- Perform a detailed inspection of the propellers during pre- and post- flight inspections as described in the Operator's Manual.
- Immediately replace damaged or misshapen propellers.
- Replace propellers after 100 hours of flight or when damaged, whichever comes first.

IMPACT

System Safety Impact:

Damaged propellers can cause vibration in the Golden Eagle and Teal 2. This vibration can occur during flight or immediately after arming the aircraft.

Mitigation:

If the AV experiences high amounts of vibration, check the condition of the propellers and rotor arms.

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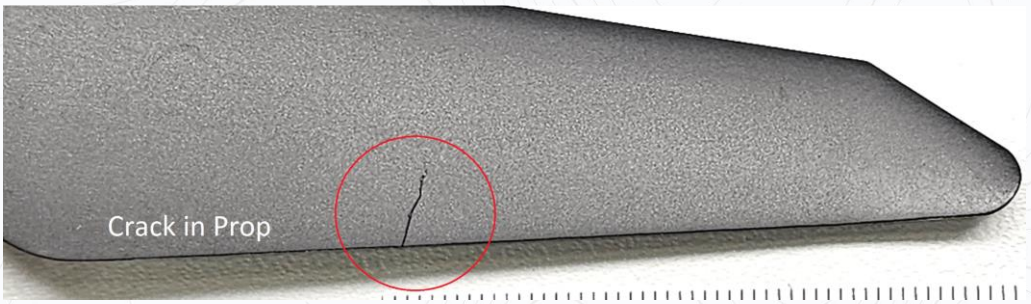
See 5 USC 552(b)(4); 18 USC 1905.

Check for:

- Warped propellers.

- Chipped propellers.

- Cracked propellers.



- Scratched propellers.

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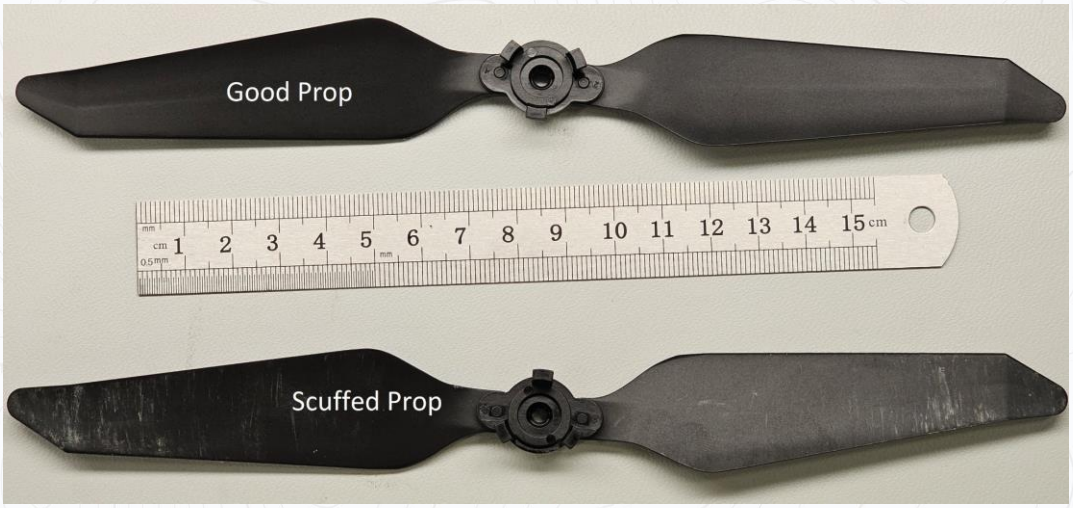
- Scuffed propellers.



Airworthiness Impact: High amounts of vibration cause:

- Corrupt data in the inertial measurement unit (IMU).
- Decrease in performance.
- Erratic or uncontrolled flight.

CONTACT SUPPORT:
Contact Teal Drones Technical Support, Program Manager, or other point of contact for further information.

TEAL DRONES TECHNICAL SUPPORT

For further information or to submit an RMA, please contact Support.

TEALDRONES.COM/SUPPORT **(385) 281-8415** **SUPPORT@TEALDRONES.COM**

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