Field Service Bulletin

FSB Number: 6000008

Revision: B

Date: 6/13/2024

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

Priority: ☒ Safety Critical ☒ Mission Critical ☐ Informative

Purpose: Damaged rotor arms cause vibration in the Golden Eagle and Teal 2 air vehicles (AV). This document reviews how to troubleshoot high vibration caused by rotor arm damage.

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

condition of the rotor arms:

- Perform a detailed inspection of the rotor arms during pre- and post- flight inspections as described in the Operator's Manual.
- Immediately replace damaged and misshapen rotor arms.
- Replace arms every 100 hours of flight or when damaged, whichever comes first.

IMPACT

System Safety Impact:

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

Mitigation:

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

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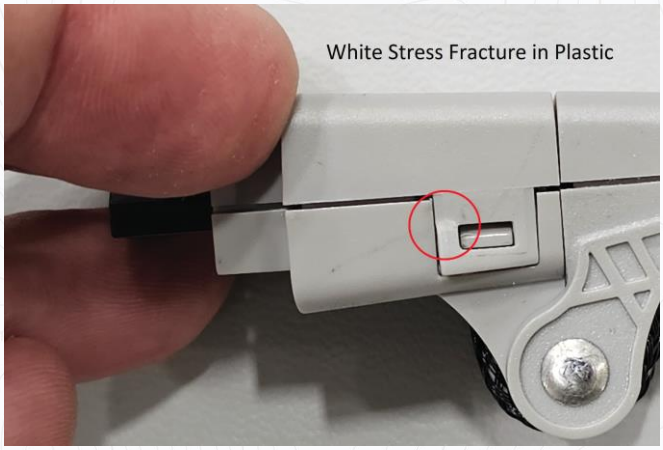
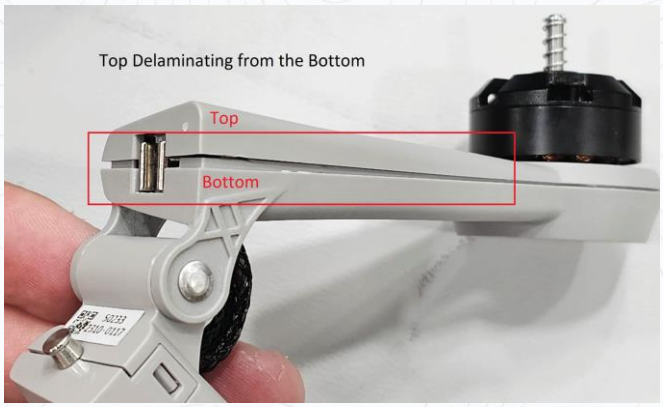
See 5 USC 552(b)(4); 18 USC 1905.

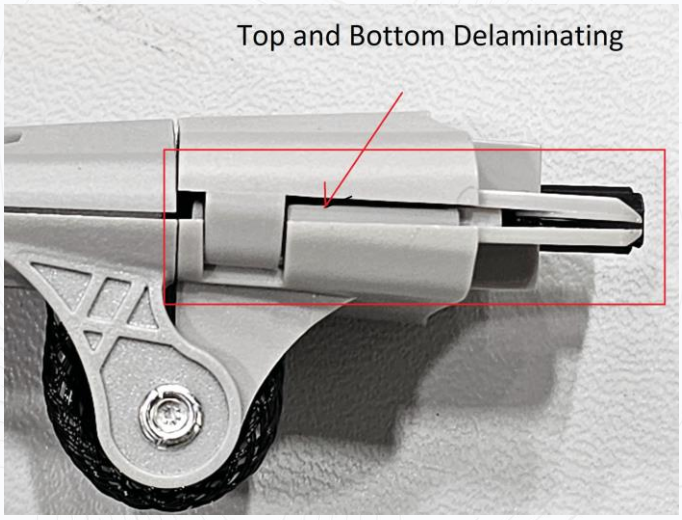
Check for:

- Damaged rotor arms.



- Delaminated rotor arms.





- Cracked rotor arms.

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Airworthiness Impact:

High amounts of vibration cause:

- Corrupt data in the inertial measurement unit (IMU)
- Decrease in performance.
- 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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