

Field Service Bulletin

FSB Number: FSB-00004

Revision: A

Date: 5/25/2023

Description: Troubleshooting high vibration caused by propeller damage in The Golden Eagle MK1 and Teal 2.

Priority: Safety Critical Mission Critical Informative

Purpose: Damaged propellers cause vibration in The Golden Eagle MK1 and Teal 2. 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 in the transport case.
- Perform detailed inspection of the propellers during pre and post flight inspections as described in the Operator Manual.
- Immediately replace damaged or misshapen propellers.
- Replace propellers every 30 hours of operation or every 100 flights, whichever comes first.

IMPACT

System Safety Impact:

Damaged propellers can cause vibration in The Golden Eagle MK1 and Teal 2. This vibration can occur during flight or immediately after arming the aircraft.

Mitigation:

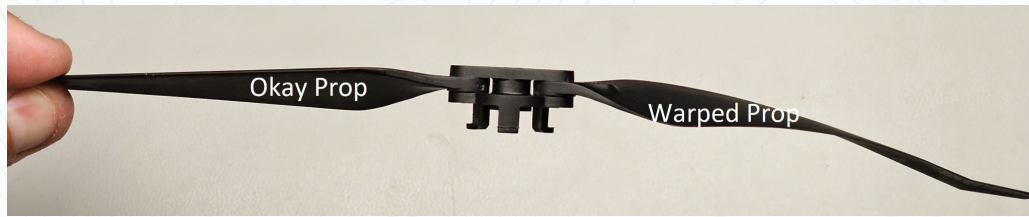
If the sUAS experiences high amounts of vibration, check the condition of the propellers and rotor arms.

INFORMATION SUBJECT TO EXPORT CONTROL LAWS: This document, which includes any attachments and exhibits hereto, contains information subject to the International Traffic in Arms Regulation (ITAR). This information may not be exported, released, or disclosed to foreign persons inside or outside the United States without first obtaining the proper export authority. Violators of ITAR are subject to civil and criminal fines and penalties under Title 22 U.S.C. § 2778. By accepting this document, the recipient acknowledges its responsibilities under the ITAR. Recipients shall include this notice with any reproduced portion of this document.

TEAL DRONES, Inc. PROPRIETARY INFORMATION. No further distribution or copying of this document or any part thereof is permitted absent the prior written consent of Teal Drones, Inc. Furthermore, this material contains trade secrets and/or commercial or financial information that is proprietary and is exempt from disclosure under the Freedom of Information Act and protected from disclosure by the Trade Secrets Act. See 5 USC 552(b)(4); 18 USC 1905.

Check for:

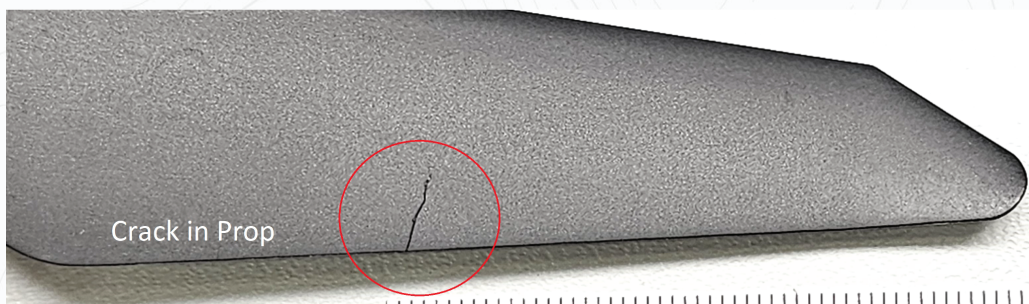
- Warped propellers.



- Chipped propellers.



- Cracked propellers.



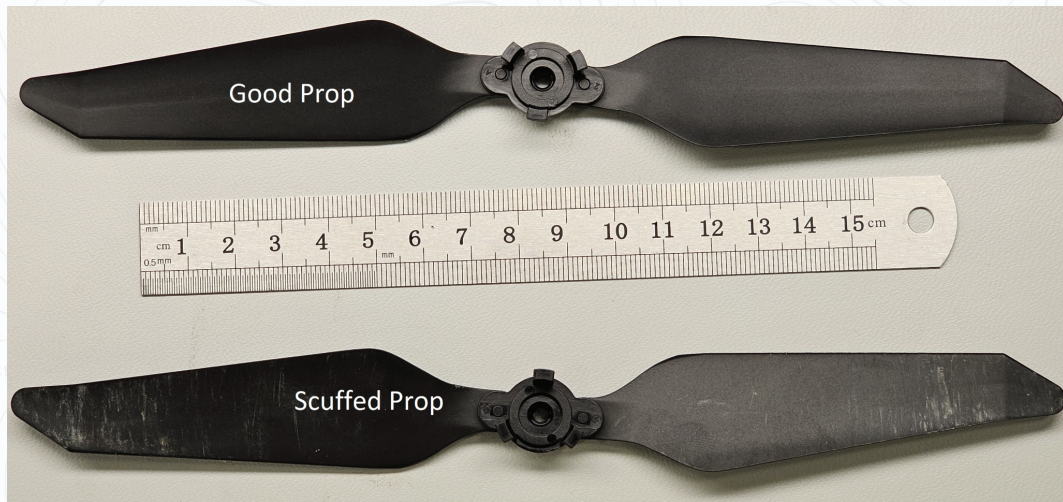
- Scratched propellers.



INFORMATION SUBJECT TO EXPORT CONTROL LAWS: This document, which includes any attachments and exhibits hereto, contains information subject to the International Traffic in Arms Regulation (ITAR). This information may not be exported, released, or disclosed to foreign persons inside or outside the United States without first obtaining the proper export authority. Violators of ITAR are subject to civil and criminal fines and penalties under Title 22 U.S.C. § 2778. By accepting this document, the recipient acknowledges its responsibilities under the ITAR. Recipients shall include this notice with any reproduced portion of this document.

TEAL DRONES, Inc. PROPRIETARY INFORMATION. No further distribution or copying of this document or any part thereof is permitted absent the prior written consent of Teal Drones, Inc. Furthermore, this material contains trade secrets and/or commercial or financial information that is proprietary and is exempt from disclosure under the Freedom of Information Act and protected from disclosure by the Trade Secrets Act. See 5 USC 552(b)(4); 18 USC 1905.

- 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: (385) 281-8415 | support@tealdrones.com

INFORMATION SUBJECT TO EXPORT CONTROL LAWS: This document, which includes any attachments and exhibits hereto, contains information subject to the International Traffic in Arms Regulation (ITAR). This information may not be exported, released, or disclosed to foreign persons inside or outside the United States without first obtaining the proper export authority. Violators of ITAR are subject to civil and criminal fines and penalties under Title 22 U.S.C. § 2778. By accepting this document, the recipient acknowledges its responsibilities under the ITAR. Recipients shall include this notice with any reproduced portion of this document.

TEAL DRONES, Inc. PROPRIETARY INFORMATION. No further distribution or copying of this document or any part thereof is permitted absent the prior written consent of Teal Drones, Inc. Furthermore, this material contains trade secrets and/or commercial or financial information that is proprietary and is exempt from disclosure under the Freedom of Information Act and protected from disclosure by the Trade Secrets Act. See 5 USC 552(b)(4); 18 USC 1905.