DJI FLYCART 100

Maintenance Manual

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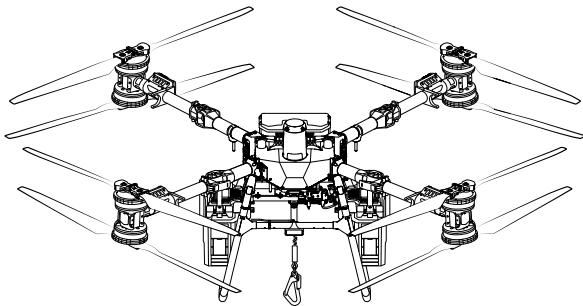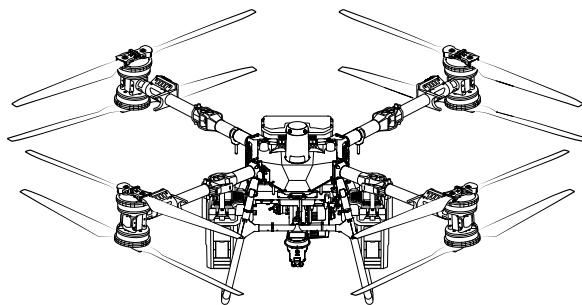
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🔍 **Searching for Keywords**

Search for keywords such as "battery" and "install" to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

🖐 **Navigating to a Topic**

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

🖨 **Printing this Document**

This document supports high resolution printing.

Contents

1 Introduction

This Maintenance Manual offers guidelines to help you in the daily upkeep and maintenance of the aircraft, and also provides after-sales service information.

This document will focus on the maintenance instructions and the notes, cautions, and warnings during use. Read the User Manual and Maintenance Manual carefully to optimize user experience. If you have any questions on the maintenance operations, please contact official Support.

2 Safety Guidelines

Before use, read the Safety Guidelines, User Manual, and Maintenance Manual carefully.

2.1 Flight Restrictions

1. Connect the aircraft to the internet to update the GEO Zones database regularly. Consult the relevant local government agencies or governing bodies before flight to ensure you comply with all the relevant laws and regulations.
2. If flying in GEO Zones is required, apply for unlocking in advance.

2.2 Storage and Transportation

There are safety requirements for the storage and transportation of the Intelligent Flight Batteries. Strictly follow the instructions in the user manual.

2.3 Firmware Update and System Calibration

To optimize the experience, it is recommended to keep the firmware of the aircraft, Intelligent Flight Batteries, and remote controller up to date before each flight. Refer to the user manual for instructions on updating the firmware. If the firmware update fails, restart the device and try again. Contact DJI Support if the issue persists.

It is recommended to routinely perform aircraft calibration to keep the aircraft in good condition.

1. Aircraft firmware update
2. Payload system firmware update
3. Remote controller firmware update
4. Charging device firmware update
5. IMU calibration
6. Compass calibration

2.4 Pre-Flight Checklist

It is recommended to perform the following routine checks before each flight.

1. Only use genuine parts that are in good condition.
2. Remote controller and aircraft batteries are fully charged.

3.   All propellers are free of damage and wear, clean with no foreign objects, and properly installed on the motors.

4.   Propellers and frame arms are unfolded and arm locks are firmly tightened.

5.   Motors are mounted securely and start and function normally.

6.   Landing gear, payload system, and Intelligent Flight Battery are firmly in place.

7.   All parts are mounted securely, and cables are connected correctly and firmly.

8.   All parts of the aircraft are in good condition and their surfaces are clean and free of obstructions.

9.   Make sure the devices firmware and the DJI Delivery app have been updated to the latest version.

10. Make sure your flight area is outside any GEO zones, and flight conditions are suitable for flying the aircraft.

11. Make sure that you are not flying under the influence of alcohol, drugs, or any substance that may impair your cognitive abilities.

12. Be familiar with the selected flight mode. Be familiar with the aircraft action during Failsafe Return to Home (RTH).

13. Be sure to observe all local flight regulations. Obtain appropriate authorizations by yourself if necessary.

14. Make sure the DJI Delivery app is running to assist your operation of the aircraft. Without the flight data recorded by the app and stored in your remote controller, in certain situations such as the loss of your aircraft, we may not be able to provide aftersales support or assume liability.

3   Inspection and Maintenance

Routine inspection before operations or regular maintenance can greatly improve the reliability of the aircraft, reduce potential safety hazards, and extend the service life of the aircraft.

Refer to the Maintenance Schedule Recommendation Table on the download page for details.

https://www.dji.com/flycart-100/downloads

3.1   Battery Maintenance

To minimize the impact of battery aging on performance, it is recommended to perform the following actions on the battery every 300 cycles or every six months:

Charge to 100% > Rest for 1 hour > Discharge to below 20% > Rest for 1 hour > Charge to 100%

Checklist for Maintenance

1. Charge and discharge the battery as per instructions.
2. Insert the battery into the aircraft and power it on. Check the battery information in DJI Delivery and ensure that the voltage difference between battery cells is less than 0.1 V and that the battery firmware is the latest version.
3. The battery is not swollen, leaky, or damaged.
4. The battery terminals are clean.

Battery Replacement Standards

1. The battery is visibly swollen, leaky, or damaged.
2. It is recommended to replace the battery after 1500 cycles.
3. The battery error still exists after performing the standard charge and discharge operations twice continuously.

3.2   Battery Disposal

⚠ •   Before disposing, make sure to soak the battery in water for 72 hours to completely discharge the battery. Dispose of the battery in specific recycling boxes. The battery contains hazardous chemicals, DO NOT dispose of the battery in a regular waste disposal container. Strictly follow your local regulations regarding the disposal and recycling of batteries.

   •   If the battery cannot be discharged completely, DO NOT dispose of the battery in a battery recycling box directly. Contact a professional battery recycle company for assistance.

3.3   Battery Usage Warnings

1. DO NOT charge the battery near flammable materials or objects or on flammable surfaces.

2. DO NOT use the battery in a humid environment to avoid short circuit.

3. DO NOT disassemble or pierce the battery in any way.

4. Store the battery in a well-ventilated and dry place.

5. Initiate RTH immediately when DJI Delivery prompts that the battery temperature is too high.

4   Health Management System

Users can view the status of each module on the Health Management System (HMS) page in DJI Delivery. Upload the abnormal status log on the log upload page if any module is abnormal.

1.   On the home page in DJI Delivery, tap **Device Management > Device Health**.
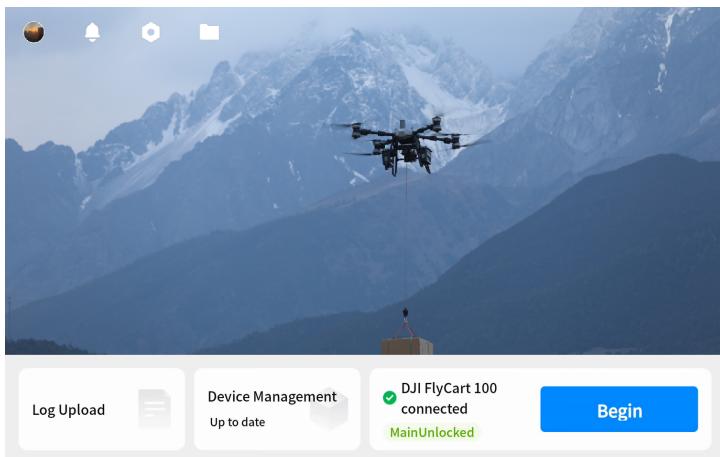

2.   View the condition of each module of the connected device.
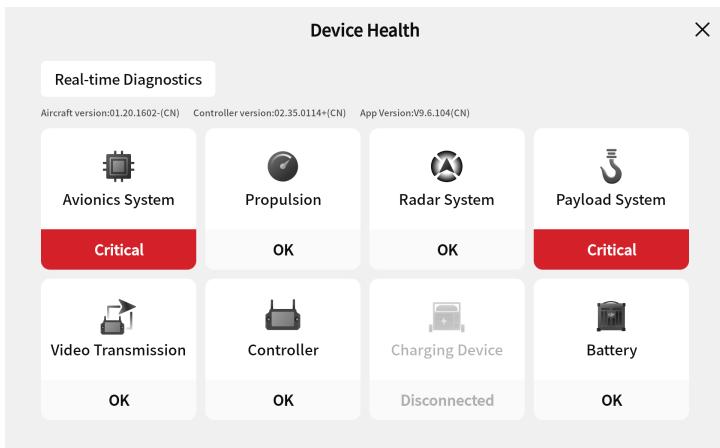
3. If any module is abnormal, tap to view the warning message. Tap the warning message to view the help document for troubleshooting.

4. If the abnormal status still exists after troubleshooting, enter **Log Upload** on the home page, then select and upload the logs using any of the following methods.

   • Select logs by issue category. *

   * When exporting logs from the charging device, connect the USB-C port on the charging device to the USB-A port on the remote controller using a data cable.
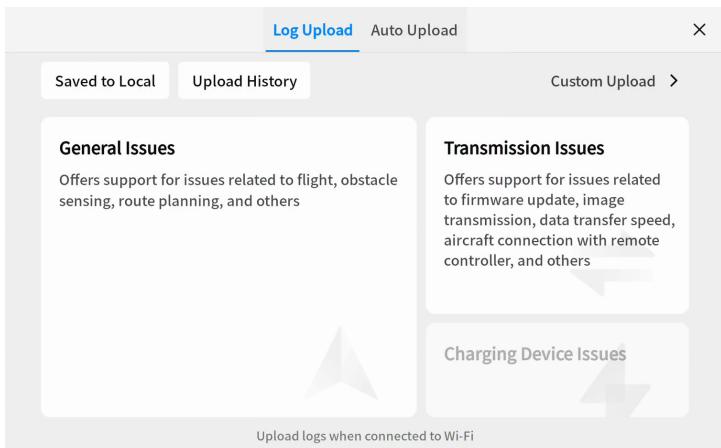
   • Tap **Custom Upload** and select logs by module.
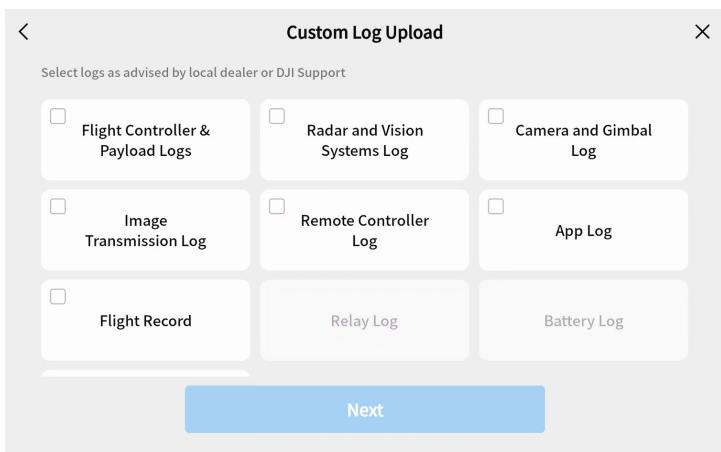
Send the QR code or tracking number displayed after upload to an authorized dealer for help.

Contact
DJI SUPPORT

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High Definition Multimedia Interface

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If you have any questions about this document, contact DJI by sending a message to
DocSupport@dji.com.