

DJI FlyCart 100 Maintenance Schedule Recommendation Table

Module	Component	Recommended Inspection Time	Maximum Replacement Cycle	Maintenance Type	Item	Repair Plan (User Maintenance Recommendation)
Remote Controller	Remote Controller	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Clean and inspect the port for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning. 3. Check if the cache on the remote controller is sufficient and whether normal operation is smooth. 4. Check if the remote controller screen responds to touch normally. 5. Check if the Remote Controller Built-in Battery endurance and charging functions are normal. 6. Check if the external battery endurance and charging functions of the remote controller are normal, and if the port is dirty or damaged.	Visual inspection
Aircraft Structure Part	Battery Slider (Including Battery Compartment Battery Slider)	Before daily operations preparation	200 hours/12 months	Daily/Monthly/Annual Maintenance	Visually inspect the following items, replace if there are any issues 1. Check if the pad is missing or if the pad thickness is worn down to the plastic. 2. Check if the plastic side edge is damaged or missing. 3. Check if the roller is missing or stuck; if the roller pad is detached. 4. Check if the metal hook side is misshapen, and if the battery plugs into the hook correctly. 5. Check if the battery side clips are broken or missing, and if the function is normal.	/
Aircraft Structure Part	Power Distribution Board (Main and Auxiliary Power Distribution)	1 month	500 hours/36 months	Daily/Monthly/Annual Maintenance	1. Check if the battery is difficult to insert or remove on the aircraft end. 2. Check if the battery connector has verdigris corrosion or black dirt. 3. Check if the connector contact terminals on the power distribution board have any verdigris corrosion or black dirt. 4. Check if the power distribution lock seat on the main power distribution board is worn or misshapen. 5. Check whether the wires on the auxiliary power distribution board are worn or have damaged	1. If the battery is difficult to insert or remove, clean the positioning holes on both sides of the battery with a cotton swab and apply dry lubricant; 2. Clean the current flow post and spring with alcohol

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Aircraft Structure Part	Power Distribution Connector	Before daily operations preparation	500 hours/36 months	Daily/Monthly/Annual Maintenance	1. Clean and inspect the port for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning. 3. Check for any issues with the reed, such as collapse or blackening. 4. Check whether the power distribution connector latch is worn and if the spring lacks sufficient elasticity.	/
Aircraft Structure Part	Battery Compartment	1 month	200 hours/12 months	Daily/Monthly/Annual Maintenance	1. Check whether the appearance of the left and right Battery Compartment is cracked or misshapen. 2. Check if the Battery Compartment mounting screws are loose.	/
Aircraft Structure Part	Aircraft Frame (Including Left and Right Frames, Aircraft Arm Connectors)	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Visually inspect the aircraft arm connectors, locking screws, and the contact surface with the middle frame for cracks or misshapen parts. 2. Check if the gap between the aircraft arm and the arm connector exceeds 2mm; if so, replace the corresponding materials. 3. Check if the middle frame locking screws are tightened.	/
Aircraft Structure Part	Middle frame (including front frame and rear frame)	6 months	500 hours/36 months	Annual Maintenance	1. Check for cracks or damage. 2. Check for any looseness in the structure. 3. Inspect the frame for corrosion. 4. Check if the lock lever is cracked or misshapen.	/
Aircraft Structure Part	Middle frame fixing screw	1 month	500 hours/36 months	Monthly/Annual Maintenance	Middle frame fixing screw 1. Check if the screw is loose. 2. Check if the screw is broken. 3. Check if the rubber seal is extruded or if there are any abnormal gaps.	/
Aircraft Structure Part	Aircraft Arm & Lock Lever	Before daily operations preparation	500 hours/36 months	Monthly/Annual Maintenance	Check if the lock lever is misshapen, cracked, if the secondary latch engagement is sufficient, and if the lever stiffness is loose. If looseness occurs, adjust to moderate, not too high.	/
Landing Gear Structural Part	Landing Gear Fixing Screw	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the screw is loose. 2. Check if the screw is broken.	/

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Landing Gear Structural Part	Landing Gear	12 Months	500 hours/36 months	Annual Maintenance	Check if the landing gear has any cracks.	/
Aircraft Arm	Large and small aircraft arms	Routine	500 hours/36 months	Daily/Monthly/Annual Maintenance	1. Check if the Aircraft Arm coating is cracked. 2. Check if the Aircraft Arm carbon tube has cracks.	/
Aircraft Structure Part	Middle frame buckle	Routine	500 hours/36 months	Monthly/Annual Maintenance	Check if the lock lever is misshapen, cracked, if the secondary latch engagement is sufficient, and if the lever stiffness is loose. If looseness occurs, adjust to moderate, not too high.	/
Aircraft Arm wiring	Aircraft Arm power line	1. The new aircraft needs to undergo its initial inspection after the completion of 100 flights; 2. Every 100 hours or one month	500 hours/36 months	Monthly/Annual Maintenance	Check if the Aircraft Arm power line at the four Aircraft Arm connectors has worn through the protective tape, and if there is any exposed or even damaged wire insulation.	/
Radar System	Front Radar	6 months	500 hours/36 months	Annual Maintenance	1. Check for dents or other external damage. 2. Clean and check if the wiring port is corroded. 3. Check if it can power on normally and function properly, with no HMS errors. 4. If HMS errors occur, replace with a new radar for cross test.	/
Radar System	Radar supporting piece.	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Inspect the radar crossbar. 2. Inspect the radar mounting bracket. 3. Inspect the front radar base.	/

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Radar System	Laser Radar	Routine	500 hours/36 months	Daily/Monthly/Annual Maintenance	<p>1. If the laser radar dome is contaminated with pesticides, fertilizers, or dust, it may cause laser radar malfunction. It is recommended to:</p> <p>a. Please rinse with clean water first, then use a compressed air cleaner to spot spray the areas of the window that need cleaning, and finally wipe the window with a clean, lint-free cloth or tissue. (When there are granular dust or other impurities on the window, wiping directly may scratch the window and affect the detection performance of the laser rangefinder.</p> <p>b. If the window still has visible dirt, use a cleaning cloth with a small amount of alcohol to gently wipe the window.</p> <p>2. Do not use chemical agents like aircraft nose water for cleaning, as this may cause reactions on the dome surface, leading to irreversible damage such as coating destruction.</p> <p>3. Since the laser Radar is a high-precision optical device, do not disassemble the laser dome privately, as this may cause Sensor failure due to dust ingress.</p> <p>4. If HMS errors occur, replace with a new radar for cross test.</p>	Rinse with clean water, wipe with a dust-free cloth
Radar System	Bottom Radar + Rear Radar	1 month	500 hours/36 months	Monthly/Annual Maintenance	<p>1. Check if the functions of the Radar and rear Radar are normal, and whether there are any error messages in the app.</p> <p>2. Check whether the cables of the Radar and rear Radar /</p> <p>are worn or corroded.</p> <p>3. Check whether the housing of the Radar and rear Radar is misshapen or cracked.</p>	
Battery Module	Standard Provided Battery	Every 100 charge cycles or one month	1500 cycles	Monthly/Annual Maintenance	<p>1. Check if there is any swelling, dent or deformation.</p> <p>2. Clean the battery port.</p> <p>3. Charge and discharge at least once every three months to maintain battery activity.</p>	/

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Cable Distribution Board Module	Cable Distribution Board	6 months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning.	/
Aerial-Electronics System	Aerial-Electronics Module (including RF Module)	6 months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning.	/
Power System	Motor	1. The new aircraft needs to undergo its initial inspection after the completion of 100 flights; 2. Every 100 hours or one month; 3. If there is a motor stalled error or motor/ESC temperature error, perform this check	500 hours/36 months	Monthly/Annual Maintenance	1. Tilt the motor to observe if there is any stalling, or if the rotor is loose or detached. 2. Check if the motor and motor mount are shaking (no movement is normal). 3. Check if the motor cover is misshapen or damaged. 4. Check if the motor shaft is misshapen and whether there is abnormal noise when rotating the motor. 5. Check if the propeller clamp shaft is worn and if the propeller clamp shaft threads are stripped.	/
Power System	Aircraft arm screw bolt	1 month	500 hours/36 months	Monthly/Annual Maintenance	There is one at the root of each aircraft arm (four in total). Inspect the aircraft arm for any gaps or looseness when folding it.	1. Visual inspection 2. Dip a cotton swab in alcohol with a concentration of 95% or higher, and use it to carefully clean the battery terminals
Power System	Propellers	1. The new aircraft needs to undergo its initial inspection after the completion of 100 flights; 2. Every 100 hours or one month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the propeller is misshapen or damaged. 2. Check if the propeller is loose. 3. Check if the propeller is cracked.	/

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Power System	Propeller Clamp & Propeller Locking Module	1. The new aircraft needs to undergo its initial inspection after the completion of 100 flights; 2. Every 100 hours or one month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the propeller clamp is misshapen. 2. Check if the propeller clamp movement is stuck. 3. Check if the propeller lock module is worn and if the rubber pad is misshapen. 4. Check the propeller clamp nut.	/
Power System	ESC	6 months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning. 3. Check if the ESC is loose. 4. If an HMS error occurs, replace the ESC for a cross test.	/
Positioning System	SDR Antenna	6 months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning.	/
Positioning System	4G Enhanced Transmission (Optional)	6 months	500 hours/36 months	Annual Maintenance	1. Check whether the 4G Module Shell is damaged, and whether the signal cable is bent or the port is corroded. 2. Check if the remaining 4G data is sufficient. 3. Check if the 4G connection is normal.	/
Positioning System	RTK Module	6 months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning.	/
Vision System	FPV/Quadruple Vision	12 Months	500 hours/36 months	Annual Maintenance	1. Visually inspect if the binocular vision is misshapen or damaged. 2. Visually inspect if the FPV is misshapen or damaged. 3. If an HMS error occurs, replace with a new Radar for a cross test.	/

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Parachute	Parachute	6 months	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the parachute signal cable connection is normal. 2. Check if the parachute connector screws are loose. 3. Check the parachute for any appearance damage. 4. Check whether the indicator light flashes normally after powering on the parachute, and whether there are any HMS errors.	/
Lift System	Hoisting Control Module	12 Months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning. 3. Reconfigure the parameters after replaing the control modue.	/
Lift System	Hoisting Rope & Hook	Before daily operations preparation	200 hours/12 months	Daily/Monthly/Annual Maintenance	1. Check whether the lift rope is severely worn and whether the ports at both ends of the rope are worn or frayed; if the wear is severe, please replace the rope. 2. Check whether the mechanical hook opens and closes smoothly and whether the hook is worn or misshapen. If so, please replace it.	1. Check whether the lift rope is severely worn and whether the ports at both ends of the rope are worn or frayed; if the wear is severe, please replace the rope. 2. Check whether the mechanical hook opens and closes smoothly and whether the hook is worn or misshapen. If so, please replace it.
Lift System	Dual Battery Landing Gear & Hoisting Crossbar	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if all screw bolts on the dual battery landing gear are secure. 2. Check whether the landing gear aluminum tube is misshapen or cracked. 3. Check if the top crossbar is misshapen or cracked. 4. Check if the screw bolts of the hanging crossbar are securely tightened and whether the crossbar is misshapen. 5. Check if the weight sensor is misshapen and the weight value in the app is correct. Reconfigure the parameters after replacing the three-axis force sensor.	/

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Lift System	Fuse	1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the fuse is dirty and if the wiring is worn or cracked. 2. Check if the app shows any fuse-related issues. 3. Check if the fuse is misshapen and if the screw bolts are tightened.	/
Winch System	Hoisting Control Module	12 Months	500 hours/36 months	Annual Maintenance	1. Clean and inspect for any signs of corrosion. 2. Check if the device can be powered on normally and is functioning. 3. Reconfigure the parameters after replaing the control modue.	/
Winch System	Three-Axis Force Sensor	Daily Preparation Before Operation / App Prompt	500 hours/36 months	Annual Maintenance	1. Check if the weight value is correct. 2. Check if the placement angle of the goods is correct. 3. Be sure to re-enter parameters after replacing the three-axis force sensor.	/
Winch System	Empty Middle Frame (Spool Side + Wire Grabbing Side)	12 Months	500 hours/36 months	Annual Maintenance	1. Check if the unloaded middle frame is misshapen or cracked. 2. Check if all screws on the middle frame are tightened.	/
Winch System	Gripping Motor (Incl. Brake)	Daily Preparation Before Operation / App Prompt	500 hours/36 months	Annual Maintenance	1. Check if there is a Motor error reported in the app. 2. Check if the battery wiring harness is worn or cracked. 3. Check if the brake function of the wire-grabbing Motor is normal.	/
Winch System	Winding Motor (Incl. Brake)	Daily Preparation Before Operation / App Prompt	500 hours/36 months	Annual Maintenance	1. Check if there is a Motor error reported in the app. 2. Check if the battery cable of the reel is worn or cracked. 3. Check if the brake functionality of the Motor in the rewinding system is normal.	/
Winch System	Winch Sensor	Daily Preparation Before Operation / App Prompt	500 hours/36 months	Annual Maintenance	1. Check if any Sensor-related errors are reported in the app. 2. Check whether the Sensor cable is worn or corroded.	/
Winch System	Reducer (including primary and secondary)	12 Months	500 hours/36 months	Annual Maintenance	1. Check if the reducer is functioning properly and if the rope is winding and unwinding normally. 2. Check whether the reducer housing is misshapen or cracked. 3. Check if the reducer screw bolts are tightened.	/



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Lift System	Lift Rope	Before daily operations preparation	200 hours/12 months	Daily/Monthly/Annual Maintenance	1. Check if the Winch System rope is severely worn. 2. Check if the rope is broken. 3. Check if the knot between the rope and the hook is tightened.	/
Lift System	Active Hook	Daily Preparation Before Operation / App Prompt	500 hours/36 months	Daily/Monthly/Annual Maintenance	1. Check if the active hook's battery endurance is normal and whether there are any related error messages in the app. 2. Check if the active hook button functions properly, and if the hook opens and closes normally. 3. Check if the main and secondary hooks are worn or misshapen. 4. Check if the charging port is dirty or has water ingress. 5. Check if the active hook wireless charging is functioning properly.	/
Generator	Generator	200 charges or 1 month	500 hours/36 months	Monthly/Annual Maintenance	1. Check if the casing is cracked. 2. Check if the battery port is dirty. 3. Clean the Cooling Fan.	1. Visually inspect the casing for any cracks. 2. Dip a cotton swab in alcohol with a concentration of 95% or higher, and use it to carefully clean the battery terminals. 3. Use a screwdriver to remove the fan strainer, and clean the internal cooling fan and strainer.