

P3 Maintenance Checklist

BEFORE & AFTER EVERY FLIGHT

- * Check condition of props (run finger along leading and trailing edges, flex both blades to check for hairline cracks);
- * Check motor shafts have no free play (missing E clip? Loose bell housing screw? Bad bearings?);
- * Check motors move freely when spun by hand;
- * Check condition of battery spade connectors and data pins (level, free movement, clean);
- * Check camera mounts are secure (and any other attachments, e.g. Flytrex core);
- * When powered up and idling confirm no unusual noise or vibration from motors.

EVERY WEEK or EVERY 10 FLIGHTS, WHICHEVER SOONER

- * Visual inspection of shell and other plastic components for cracking/damage (landing skids, camera mounting plates, etc.);
- * Check tightness of motor retaining screws and shell retaining screws (both 2.0mm hex);
- * Clean data spring pins and battery contact pads with alcohol and swab or proprietary electrical contact cleaner and cycle spring pins several times to check for spring weakness and full unimpeded travel;
- * Plug in to Vision Assistant and check tx & IMU calibration state and all battery cells have good balance (repeat for all batteries);
- * Check batteries for number of cycles and discharge per DJI recommendations if required.

EVERY MONTH or EVERY 40 FLIGHTS, WHICHEVER SOONER

- * Remove upper shell and check state of all wiring - plugs fully seated, condition of all solder joints, condition of visible circuit boards and wiring runs, internals generally clean and no debris/loose items.
- * Remove motors and check security of E clips, condition of bearings and general visual inspection.
- * Remove rubber cover from Vision camera servol mounting point and check tightness of the small cross-head screw.

The DJI Phantom 3 is fairly maintenance free and unless you crash it, its likely to require very little. But like everything, there are care procedures you can do to keep it tip top. This guide will give you simple steps to keep the Phantom 3 in good condition and always ready to fly.

DJI Phantom 3 Maintenance Guide

- **Intelligent Flight Battery Maintenance.**
 - 1:** Before and after flight its good to check the battery for any damage or swelling. if you notice damage its best to not use it anymore, discharge it to 10% and dispose of it. Do not pierce or disassemble the battery as it could catch fire.
 - 2:** make sure the four contact pins on the battery as well as the main power connectors. You can use [DeoxIT](#) to keep them in good condition to maintain good contact (note [DeoxIT](#) goes a long way, only use a tiny bit). Also check/clean the contact pins/connector in the Phantom 3's battery bay.
 - 3:** Use the DJI Pilot App to check the cell voltage of the battery and ensure they are similar. Variations in the cell voltage of a battery can signify cell damage and the battery should not be used. 0.2v above or below could mean a problem.
 - 4:** make sure if you have spare batteries that you update the firmware on them also. Just do as you would updating the Phantom's firmware.
- **Aircraft Maintenance.**
 - 1:** Go over the Phantom's screws and verify they are all still tight. You will need a [T6 and T8 Torx](#) screwdrivers for this task.
 - 2:** Check over the Phantom's body and check for cracks, blown out seams.
 - 3:** Spin the motors to make sure they move freely, listen out for any abnormal noise. Also run the motors with the propellers off and listen for a sound difference.
 - 4:** Check the landing gear and make sure there is no damage to the antennas or compass. Also check the little pads on the bottom and replace if broken/damaged.
 - 5:** Check the rubber dampers for damage and that they are seated correctly. Verify that the anti-drop pins are fitted.
 - 6:** Check gimbal movement is OK. Listen for any unusual noise.
 - 7:** Check the VPS (Vision Positioning System) is clean as dirt could reduce its performance.
 - 8:** Check the props for cracks and chips as well as wear to the hub.