Dji inspire 2 maintenance manual



DJI have now released a Maintenance Manual for the Inspire 2. The Maintenance Manual sets out the maintenance checks to be performed every 200 flights or 50 flight hours, propellers, Flight Control System, Control and Video Transmission System, Gimbal and Camera, and Vision System. Also note that the gimbal connector's rubber balls are listed as consumable items to be replaced after 120 flights or 40 flight hours, as well as other circumstances specified in the Maintenance Manual. The latest version of the Inspire 2 Maintenance Manual. The latest version of the Inspire 2 Maintenance Manual can be downloaded from the downloaded tab on DJI's Inspire 2 page. Photo source: DJI To ensure flight safety and the aircraft's performance, carrying out maintenance is recommended after 200 flights or after the aircraft has flown for 50 hours. Read this article and see how to maintain the Inspire 2. Battery 1. Check if the battery is damaged or misshapen. If yes, please stop using it, fully discharge the battery and then safely discard it. 2. Check the battery and battery compartment port, if there is any debris, clean it out, and make sure the surface is clean. 3. Connect to DJI GO 4 and check each battery cell's voltage. If a battery cells' have a voltage difference above 0.2 V or DJI GO 4 indicates the battery cell is abnormal, please update the battery to the latest firmware, fully charge the battery, and then do not use the battery for the next 72 hours. While the battery is idle, the cells will automatically balance the voltage difference. If the battery has been stored for a long time without use, it is recommended to check the battery's condition every month and discharge the battery every three months. Aircraft 1. Check if all screws on the aircraft arm's carbon fiber tubes are loose or misshapen, and check if the left and right landing gears are symmetrical. 3. Before checking the transformation mechanism, you can enable the "Disable Landing gears repeatedly to check. If the landing gears cannot be normally lowered or raised, power off the aircraft, stick a slotted screwdriver into the small hole at the bottom of the aircraft, then slowly rotate the screw lever at a constant speed to check if the screw lever is damaged or bent, please go to and contact DJI after-sales for help. (If the parts are rusty or there is dirt on the parts, clean them with a WD-40 spray.) 4. Check if the E type circlip on the transformation mechanism's lever is bent or misshaped. Gimbal Camera, as well as the lens, should be kept in a dry, dust-free environment. If the product is damp or mildewed, please store the product with a desiccant or place the product in a moisture-proof box. 2. Check the metal contact pins on the gimbal and aircraft's gimbal port. If there is debris or dust, please clean it off with a brush or a dust blower. 3. Connect the gimbal camera to the rubber shock absorbers on the aircraft's bottom shell. It is recommended to replace the rubber shock absorbers after 120 flights or after 40 hours of flight. To ensure flight safety, please replace the rubber shock absorbers if they are aging or damaged. Vision System 1. Check if the vision system is abnormal, please connect the aircraft with a PC and calibrate the vision system again. 3. Check if the ultrasonic sensors and Infrared Sensing System for dirt or debris. If there is any debris, clean it off. Flight Controller System 1. Connect the aircraft to the app to check the sensors' status. You can also go to the Flight Controller Advanced Settings to check the IMU and compass' status. 2. Check the GPS module's top and all landing gears, make sure no metal pieces are attached. 3. Observe the aircraft's real-time flight data during the flight. Stop flying immediately if there is anything abnormal. Twitter Facebook Favorite 4 Like 3 2018-12-23 Thanks for this. I think that many pilots will conduct these tests routinely, as part of their operational requirements. There do seem to be a few things missing though..... 1. A complete maintenance manual would be good so that, if you choose to, you can strip and rebuild the machine. 2. Details of tightening torques for screws (all of them). Whether locking compounds are needed. 3. A more sophisticated proceedure for checking transformation alignment. 4. Mention of a test for motor rotation smoothness. 5. Interpretation of DAT file data from flight log information, using CSVview or similar. These are just a few provisional ideas, whilst having a morning cup of tea, I expect that many others will follow! Most of the people who use the I2 routinely for work, and have (or employ people with) engineering experience, would benefit greatly from the above. It would also go towards satisfying the national organisations to whom we are responsible for the safe operation of our aircraft. 2018-12-26 GeoffG Posted at 12-26 01:18 Thanks for this. I think that many pilots will conduct these tests routinely, as part of their operational requirements. There do seem to be a few things missing though..... 1. A complete maintenence manual would be good so that, if you choose to, you can strip and rebuild the machine. These are great suggestions that have been asked for years starting with the Inspire 1. Unfortunitely, this will go unanswered by DJI. The trend for large tech companies to keep there product under tight control is not new. Apple, Microsoft Tesla to name a few. They are very strict selling parts and information and prefer that you send the item into the OEM repairs. Actually IMO it is all about more revenue to the bottom line. Don't get me wrong, I support DJI and have many drones. Until we see a strong competitor in this market don't expect to see anything change. Rich 2018-12-29 Hi Rich, I'm sure that you're right - can't blame me for trying though! I've been used to buying electronic instruments for years with really detailed information - circuit diagrams, fault finding processes, test procedures and so on, so it's frustrating that you get no data! The other thing is that, with large scale integration of components into blocks, less detailed skill is needed to fault find - just swap boards. So it makes sense to supply the data and the spares (I think). Do you reckon DJI care about servicing revenue? 2018-12-29 I wish DJI could share information more transparently. I think you are right as they make these drones with more removable modules the end user could repair them by swapping out bad parts. Yes, service is an huge market and really do not expect this to change in the near future.... All the best Rich 2018-12-30 RichJ53 Posted at 12-30 13:54 I wish DJI could share information more transparently. I think you are right as they make these drones with more removable modules the end user could repair them by swapping out bad parts. Yes, service is an huge market and really do not expect this to change in the market, like that, Ive repaired all my drones by myself, spares parts and tools are available in the market, the knowledge required is everywhere on the internet too, the only things you need is time, money and patience !!! 2018-12-30 Nicksons Posted at 12-30 19:02 Is almost like that, Ive repaired all my drones by myself, spares parts and tools are available in the market, the knowledge required is everywhere on the internet too, the only things you need is time, money and patience !!! 2018-12-30 Nicksons Posted at 12-30 19:02 Is almost like that, Ive repaired all my drones by myself, spares parts and tools are available in the market, the knowledge required is everywhere on the internet too, the only things you need is time, money and patience !!! Yes there are ways to buy parts and tools.... agreed. It's just hard for some to get the information needed. You cant buy the repair for your DJI drones. IFIXIT has many things to offer parts and tools. The right to repair is strong with this company Rich 2018-12-30 It's well worth checking motors regularly by rotoating the props and getting a feel for the characteristics. I fould one to be lumpier than the others and had all 4 motors and ESCs replaced under warranty. Also, there's a massive amount of data in the csv files of the flight logs which can be checked using CSVview. It's difficult to interpret the results because there is no data about what is normal, but certainly for motors you can check whether one is drawing more power or hotter than the other 3. 2019-2-7 GeoffG Posted at 2-7 23:41 It's well worth checking motors regularly by rotoating the props and getting a feel for the characteristics. I fould one to be lumpier than the others and had all 4 motors and ESCs replaced under warranty. Also, there's a massive amount of data in the csv files of the flight logs which can be checked using CSVview. It's difficult to interpret the results because there is no data about what is normal, but certainly for motors you can check whether one is drawing more power or hotter than the other 3. But is there anywhere documented the time motors can flight before replacing them / having a special maintenance like bearings replacement? 2019-2-27 These things above are checked regularly on mine. I too would like a more comprehensive breakdown manual. 2019-3-20

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