

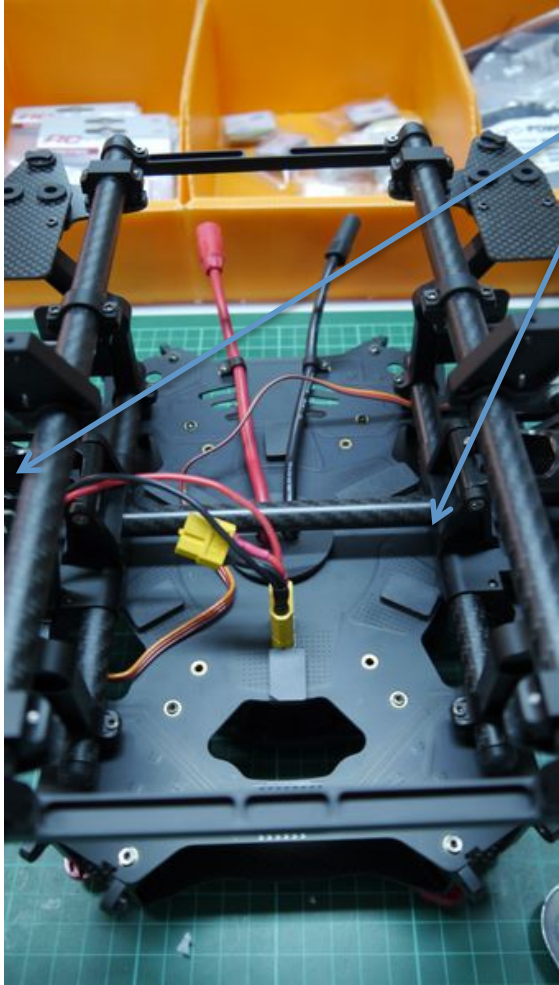
DJI S900 BUILD TIPS

E-Copter

January, 3rd, 2015

Document Rev 1.2

Landing Gears Reinforcement



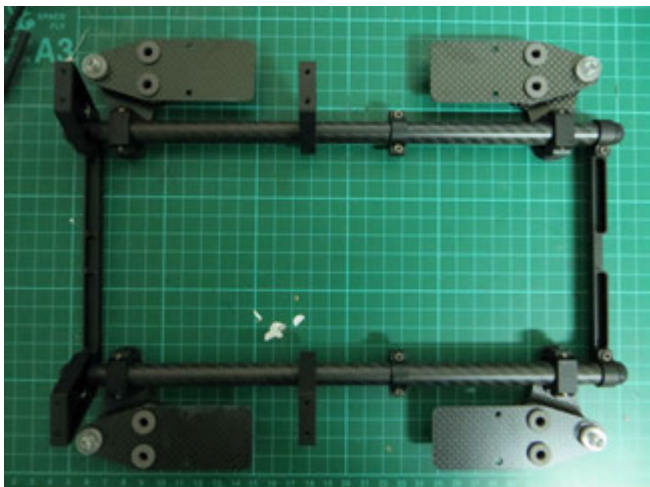
Remove one of the 4 carbon dampers plates (2 screws each) to remove the gimbal dampened unit.

Remove both retract gears assembly in order to remove the carbon tube between both retracts bases and apply thread lock on all screws and check retract joints screws and eventual slope. Grind slightly with 240 grade sand paper the inside borders on each side of the carbon tube and also the aluminum cylindrical protrusions of the LG bases used to hold the carbon tube.

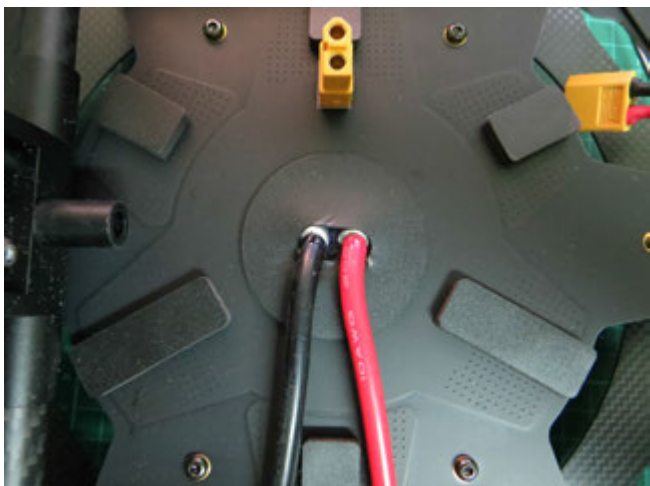
Degrease with Isopropyl alcohol. Apply slow cure epoxy in the carbon tube borders and on the aluminum cylindrical protrusions and reinstall the carbon tube and the retract assembly. Slowly rotate then the carbon tube to spread the epoxy and cleanup any excess.

Let the assembly rest during epoxy cure.

Landing gear reinforcement pics

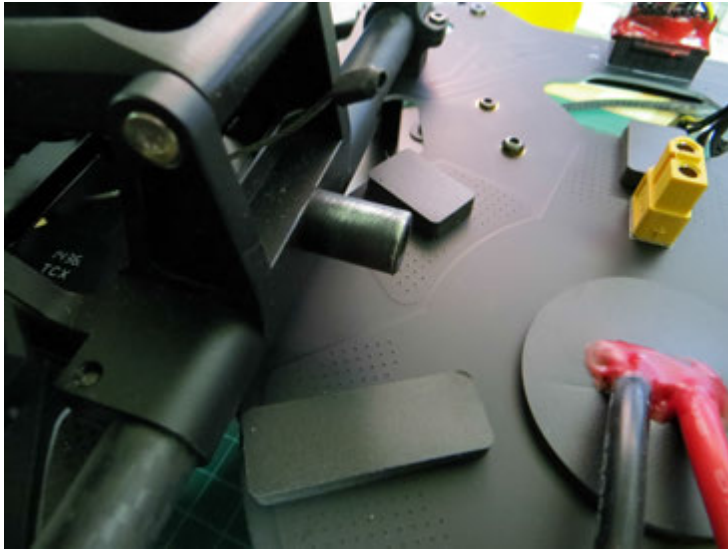


Remove the gimbal / battery tray support.
Apply threadlock on all screws by the way.

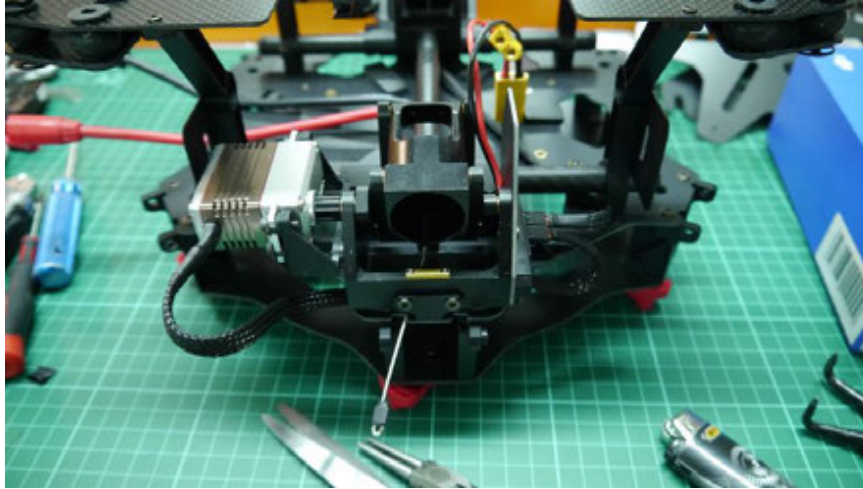


Remove one (left or right) landing gear retract unit
So you can remove the carbon tube. You can apply
Plastidip on the solderings of the main power cables.
Some people put also nylon braid on these cables but
It is not really necessary. But you can add 2 thickness
Of small heatshrink lenght on the cables where they
Are clamped on the frame with the small alu parts.

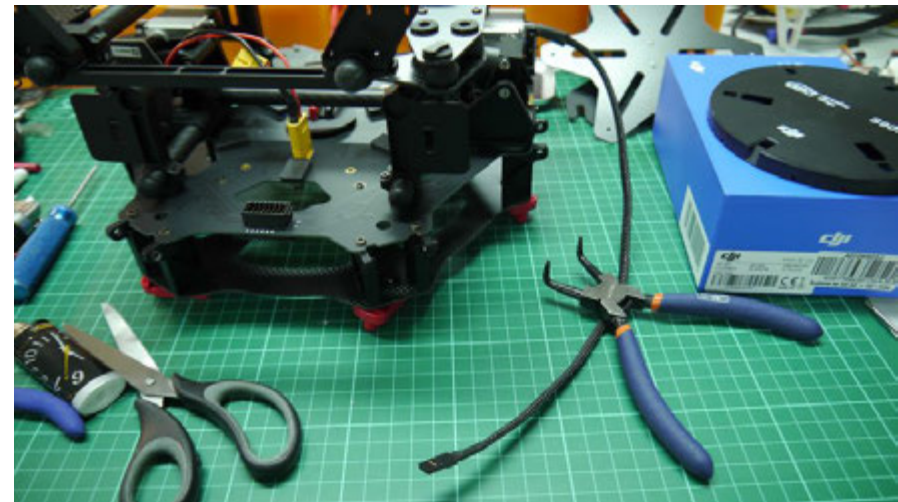
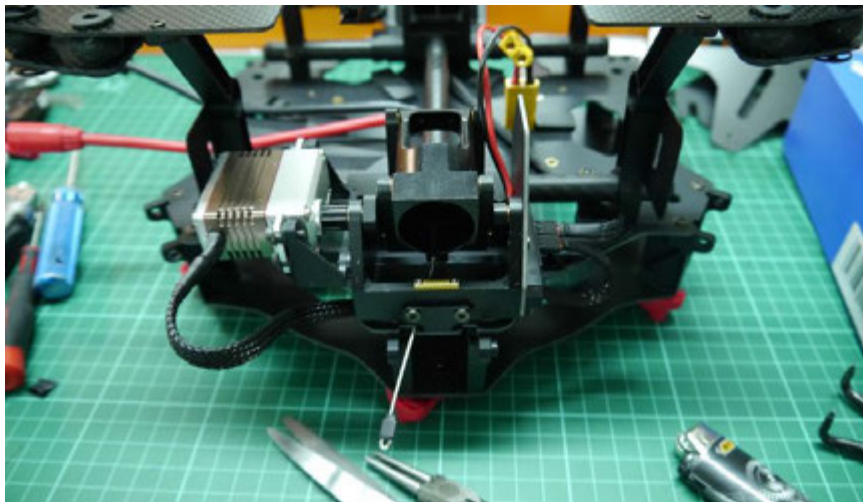
Landing gears reinforcement pics



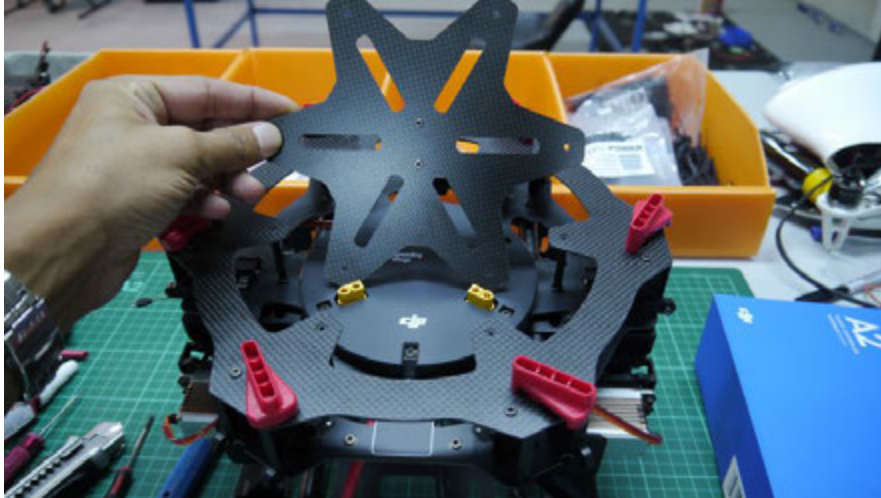
Landing Gears Wiring



Install nylon braid on retracts servos wires, and use a small piece of heatschrink at each end of the nylon braid. Secure with CA glue, slow cure, the heatschrink after heating it, using an exalto knife or small tip to put a drop or 2 of CA between Heatschrink and nylon braid.

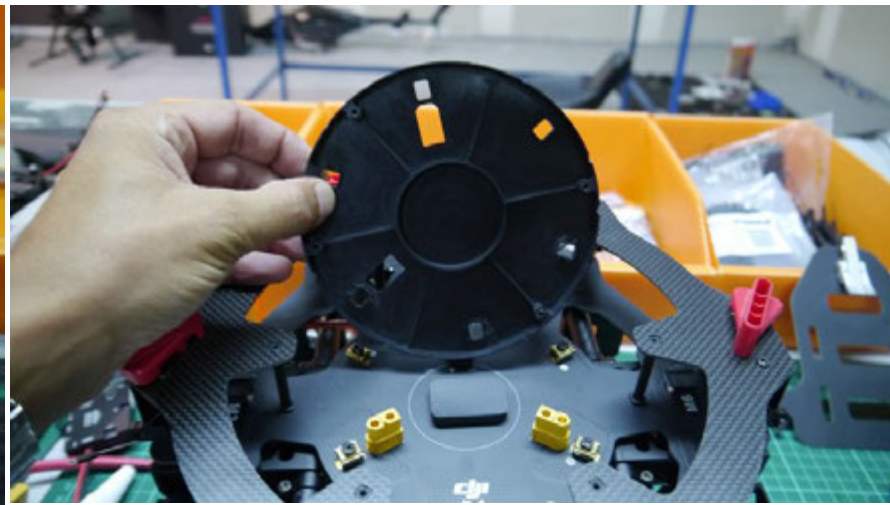


Frames Preparation

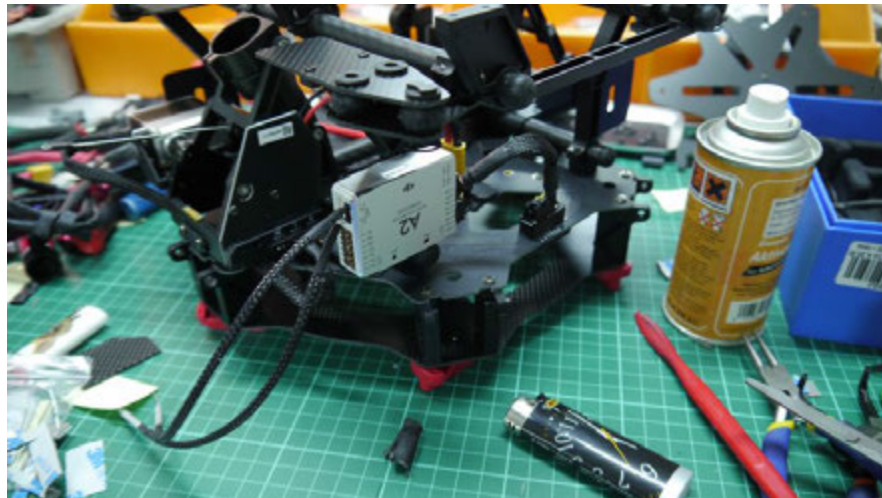
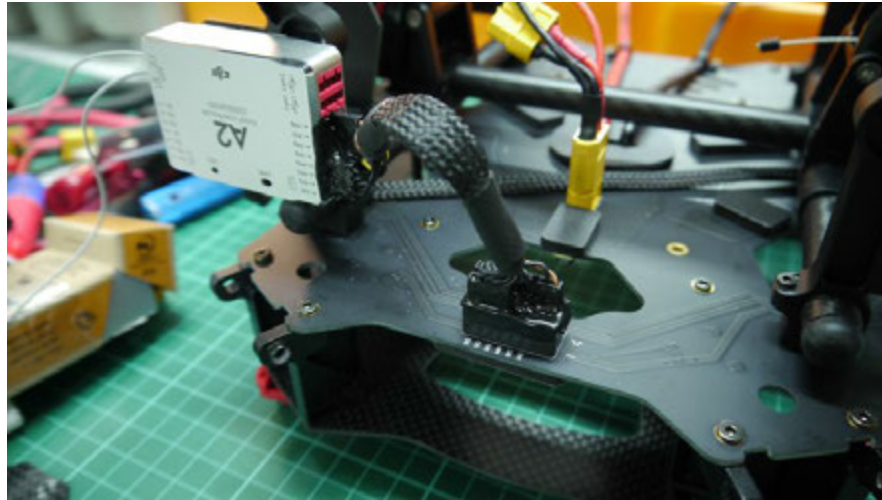


Remove the top frame « star » carbon part and then the powerboard plastic cover. Take care by the way to check all screws on the frame and re apply medium strength threadlock.

Degrease the lower frame surface at the IMU location and degrease the IMU. Use Genuine 3M PE Foam adhesive or 3M VHB adhesive to install the IMU.



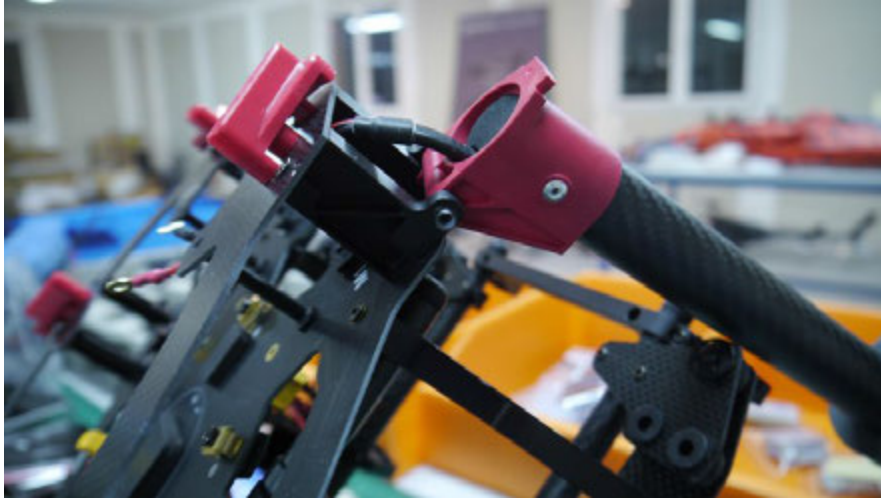
MCU Installation



Degrease the MCU support and the MCU itself, and apply 3M PE Foam or 3M VHB. Degreasing is essential (use Isopropyl alcohol from 3M, it's a very good product). You can protect the antennas of the A2 integrated receiver with nylon braid, but make sure that the braid does not « pull » the antennas from the MCU once nylon braid are installed and tensionned.

There are several ways to install the antennas, you can install one horizontally on the gimbal damper support right under the MCU and one vertically through one of the dampers and lock it with small nylon tie wrap.

Booms Installation



Install the booms and att thread lock in the boom supports as the nylon lock installed in factory will wear out very quickly. Tighten the screws so that the arms cannot « fall » by themselves when unlocked. Remove the heatschrink from the crimped connector and secure with soldering. Put back a heatschrink sleeve.

