

MUGIN 4450 VTOL

BRIEF BUILD GUIDE V1



Copyright © 2020 Mugin Limited

1. Aileron installation

- A. Drilling is required for servo installation.
- B. Make certain the drilling locations are correct.
- C. Remember to mark the functions of each wire while soldering.
- D. Install sleeves before wiring.
- E. Make certain the positive and negative are wired correct.





2. Rudder installation

- A. Drilling is required for servo installation.
- B. Make certain the drilling locations are correct.
- C. Remember to mark the functions of each wire while soldering.
- D. Install sleeves before wiring.
- E. Please test the wiring before applying the glue.







3. Elevator installation

- A. Drilling and polishing are required for servo installation.
- B. Make certain the drilling locations are correct.
- C. Remember to mark the functions of each wire after soldering.
- D. Please check and test the wiring before installation.







4. Boom installation

- A. Drilling is required for the wiring & installation of motors and ESCs.
- B. The motor base is inclined for installation. Make certain the installations are without problem.

- C. Make certain the drilling locations are correct.
- D. Make the wire lengths are suitable before wiring.
- E. Mark the functions of each wire before wiring.
- F. Make certain the positive and negative are wired correct.
- G. Test it first after wiring to make sure there's no mistake, and then apply the glue and seal.





5. Motor mount location

(pay attention to the direction of the hole positions while drilling)

- * 78cm from front motor to the leading edge of center wing
- * 76cm from rear motor to the trailing edge of center wing





6. Inside wiring

- A. Make certain the positive and negative are wired correct.
- B. Make certain there is no inoperative soldering.
- C. Mark the wire sequences for easier operation.



7. Center wing installation.

- A.Measure the lengths before wiring.
- B.Mark the functions of each wire before wiring to avoid the possible mistakes.
- C.Make certain the positive and negative are correctly wired.
- D.No inveracious soldering.
- E.Install the sleeves before wiring.
- F.Check after the wiring completed, and then apply the glue and seal.



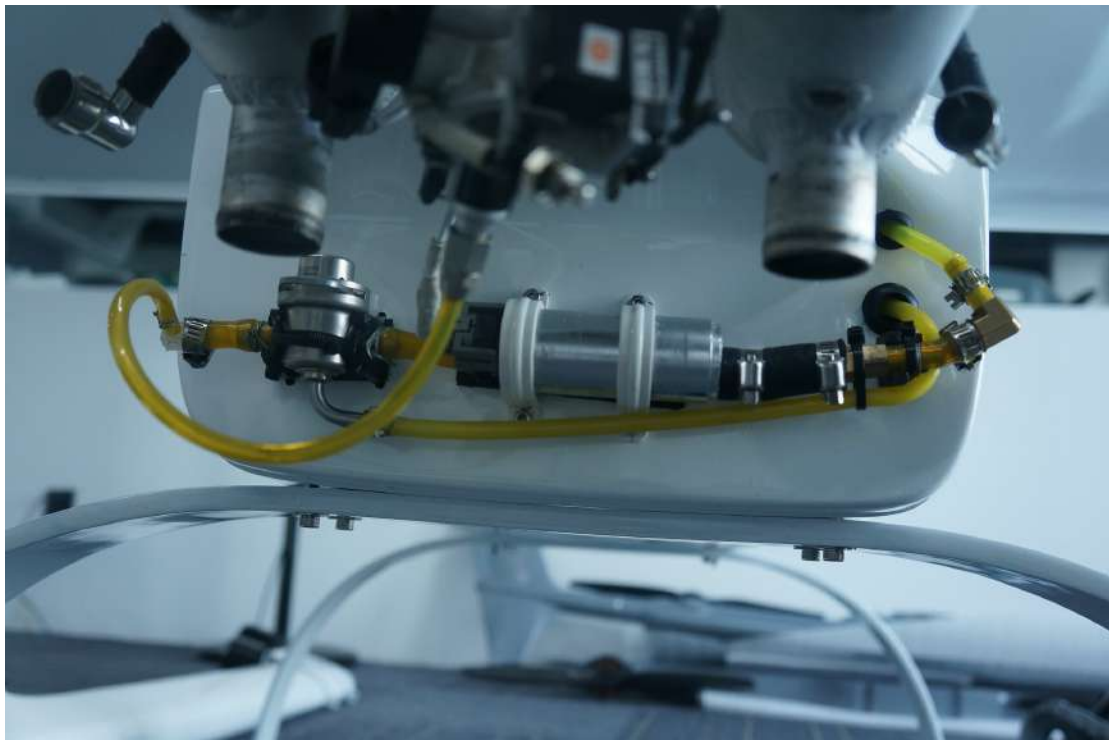


8. Fuselage installation.

- A. Drilling and polishing are required while install the engine.
- B. Better place metal plate on the base before installing the engine.
- C. Make certain the drilling holes are in correct locations.
- D. Do not squeeze or bend the oil pipe while installing.
- E. No special requirement for the servo installing locations.



If you are installing EFI on the engine, please take a reference to the pictures below:



9. Engine cover installation.

The installation of engine cover requires drilling and polishing.



10. Airspeed tube installation.

DIY work for the wooden rack, requires polishing.



11.Landing gear installation.



Now, the installation for the power system completed.

A.Make certain the wires and wired correctly before powering on.

B.Make certain the positive and negative are correct.

C.Make certain apply the screw glue when use the screws.

