# *FELIX*

*Dear Customer, Thank you for purchasing our FELIX Sport jet product.*

*Following you can find greater information for building and flying this model. Before you get started building and setting-up your aircraft, please make sure you have read this Instruction manual and understood it. If you have any questions, please don't hesitate to contact us.*

*Liability Exclusion and Damages you have acquired a kit, which can be assembled into a fully working R/C model when fitted out with suitable accessories,as described in the instruction manual with the kit.*
*However, as manufacturers, are not in a position to influence the way you build and operate your model, and we have no control over the methods you use to install, operate and maintain the radio control system components. For this reason we are obliged to deny all liability for loss, damage or costs which are incurred due to the incompetent or incorrect application and operation of our products, or which are connected with such operation in any way. Unless otherwise prescribed by binding law, the obligation of our company to pay compensation is excluded, regardless of the legal argument employed.*
*This applies to personal injury, death, damage to buildings, loss of turnover and business, interruption of business or other direct and indirect consequent damages. In all circumstances our total liability is limited to the amount which you actually paid for this model.*

*BY OPERATING THIS MODEL YOU ASSUME FULL RESPONSIBILITY FOR YOUR ACTIONS.*

*It is important to understand that the factory, is unable to monitor whether you follow the instructions contained in this instruction manual regarding the construction, operation and maintenance of the aircraft, nor whether you install and use the radio control system correctly. For this reason we are unable to guarantee, or provide, a contractual agreement with any individual or company that the model you have made will function correctly and safely. You, as operator of the model, must rely upon your own expertise and judgement in acquiring and operating this model.*

*Hardware Package;*

*Fuselage Installation;*

*Install front part to main fuselage part by using 5pcs 5 x 25mm Allen screw (included in the kit).*

*Air intake installation;*
*Please follow below steps;*

*Mark the fiberglass on the fuselage.*

*Cut the oracover for the air intake.*

*Use epoxy glue to assemble fiberglass intake*


*Tape well and be careful not to have air leak.*

*AILERON AND FLAP INSTALLATION:*
*In the hardware bag, you will find all you need to fix and link the hinges of the Flaps and Ailerons:*

*The Flaps and ailerons are fixed with the hinges to the wing, use glue or epoxy for hinges, take care not to put glue in the middle of the hinges.*

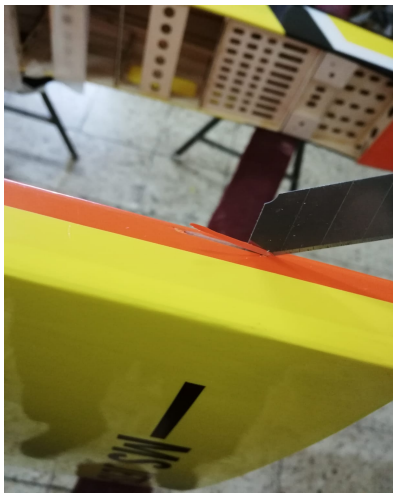
*Install the servo in the servo support(Standard size servos with min 10kg torque)*

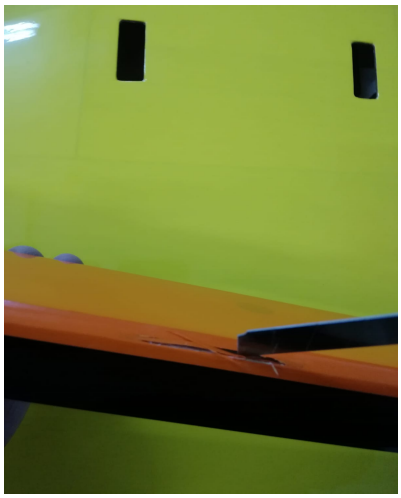
*Glue the aileron Horn in place and check if all work ok.*

*Screw and adjust the linkage at the exact dimensions, neutral servo position, please fix only if the servo position was tested to neutral, otherwise you risk damage.*



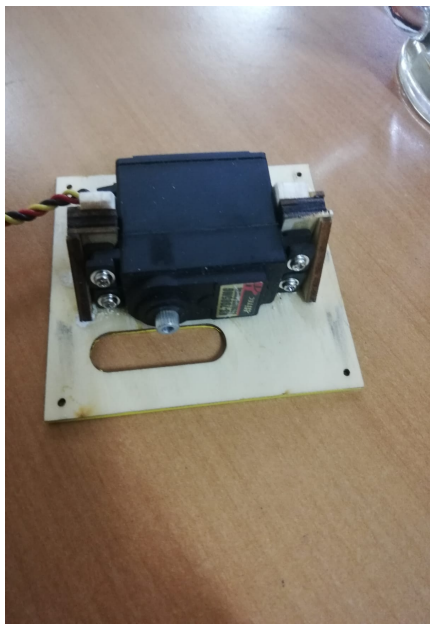
*ELEVATOR, FLAP and RUDDER INSTALLATION*



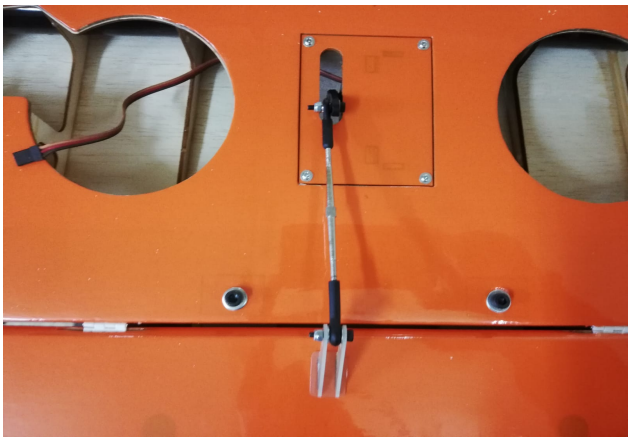
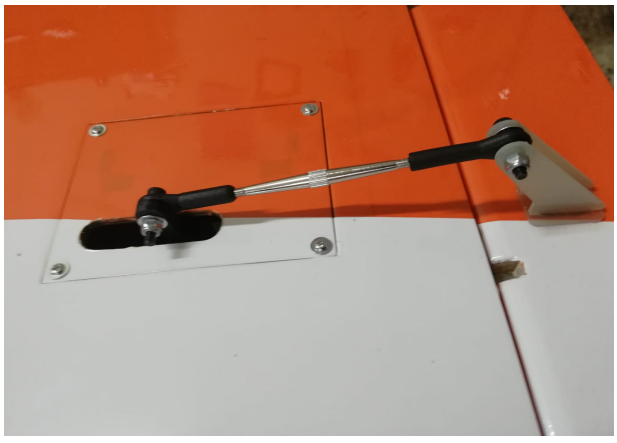


*Cut the oracover for flap hinges and use epoxy glue.*
*Use sandpaper on the horn parts for better glue result.*

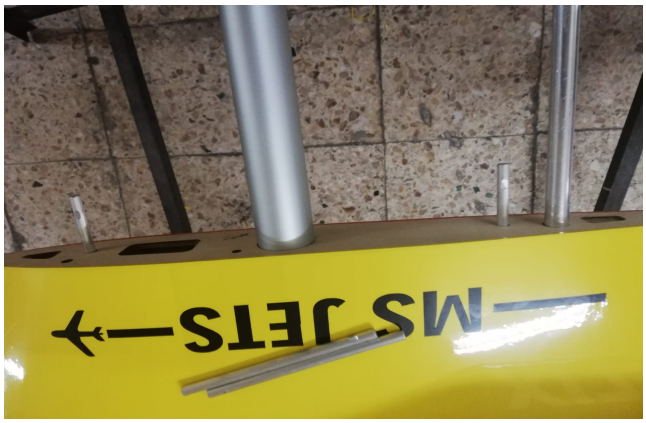
*Servo installation;*



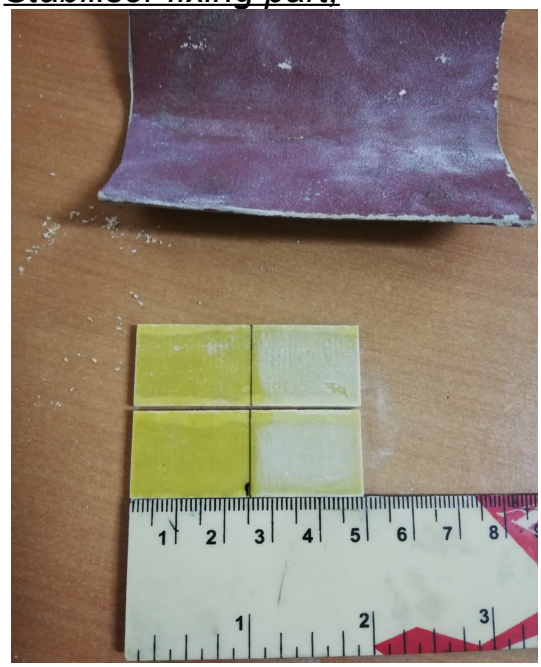




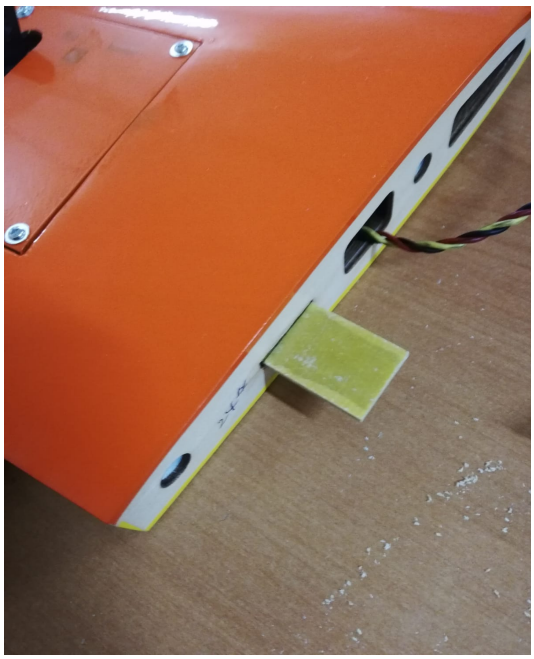
*Pins on Mid-Wing:*



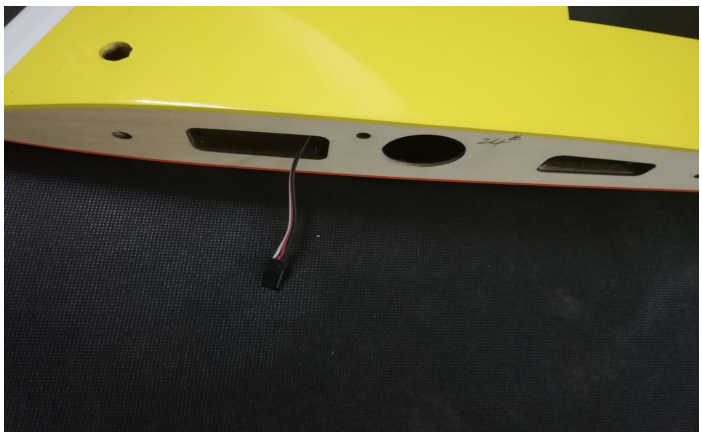
*Glue the pins on the mid-wing.*

*Stabiliser fixing part:*



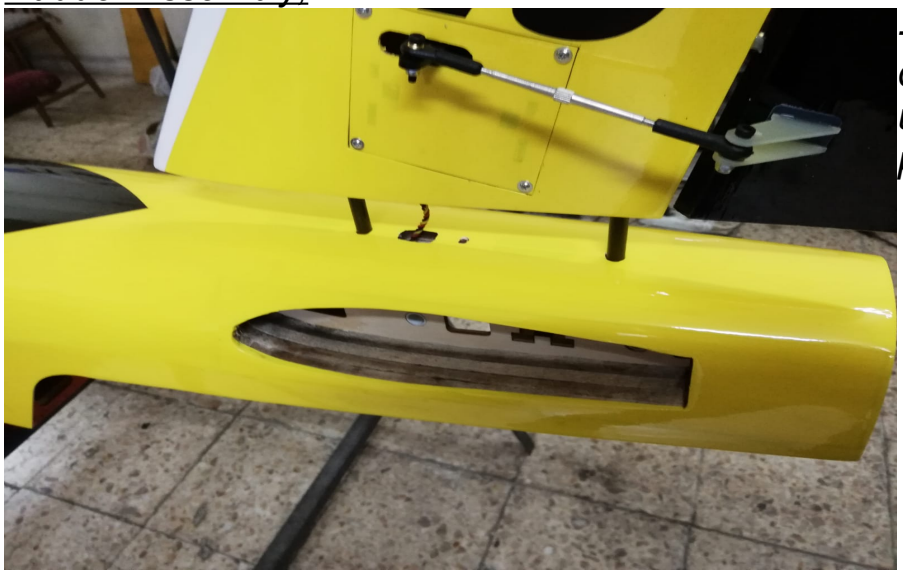


*Use sandpaper on the fiberglas for better glue result.*



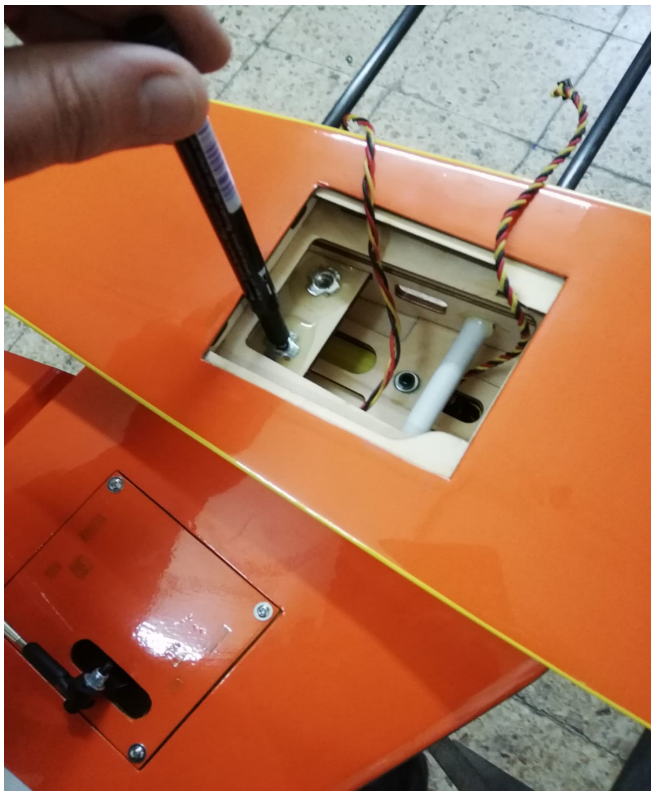
*Main wing extension cable.*

*Rudder Assembly:*



*-Use two screws for detachable rudder OR use epoxy glue for permanent assembling.*

*Stabiliser Fixing:*



*Mark the fiberglass parts on each stabilizer and drill a 4mm hole for fixing.*

*Turbine Mount:*

*The turbine mount is prepared in the right angle to fix your Turbine*
*Move the Turbine as front as possible and fix it, here on picture per ex.with a KingTech K100G engine.*

*To avoid damages on the fuselage due wet starts, secure the fuselage behind the turbine with alu-tape*

*We recommend K85G for standart flights, K100G for Sport flights and K120G for F3S flights.Please put 2mm washer under the back side secrew for K100 &K120 for increasing the exhaust angle 3 degree more down.*

*Assemble the engine to front end as close as possible to balance the CG for less extra weight in the nose.*

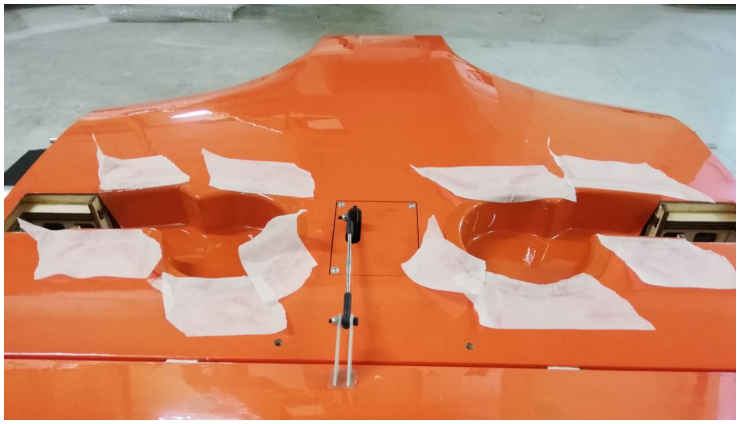
*Use aluminum folio, which is included in the kit.*

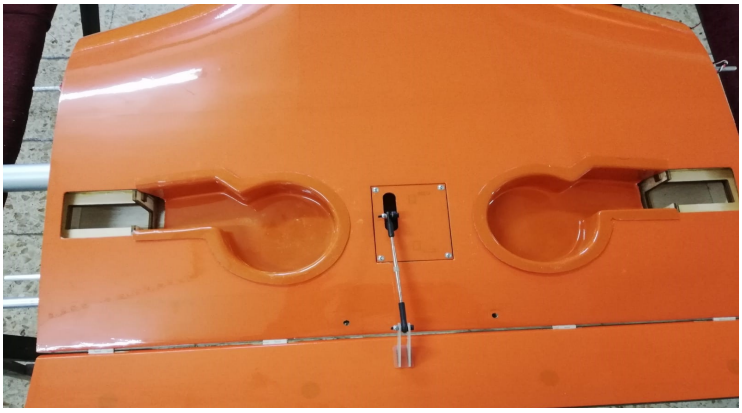
*Fuel tank assembly;*
*(Optional 3lt fuel tank shown in the picture – not included in the kit)*

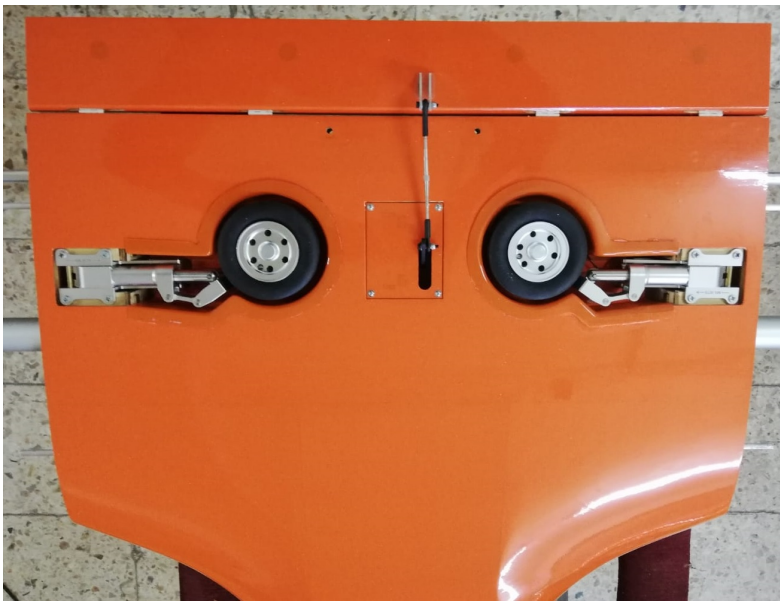
*Canopy assembly;*

*Cut the canopy to fix and use Patex soft glue (or similar). Also use 8pcs 2,5 x 12mm screws - included in the kit.*

*Retract Assembly;*





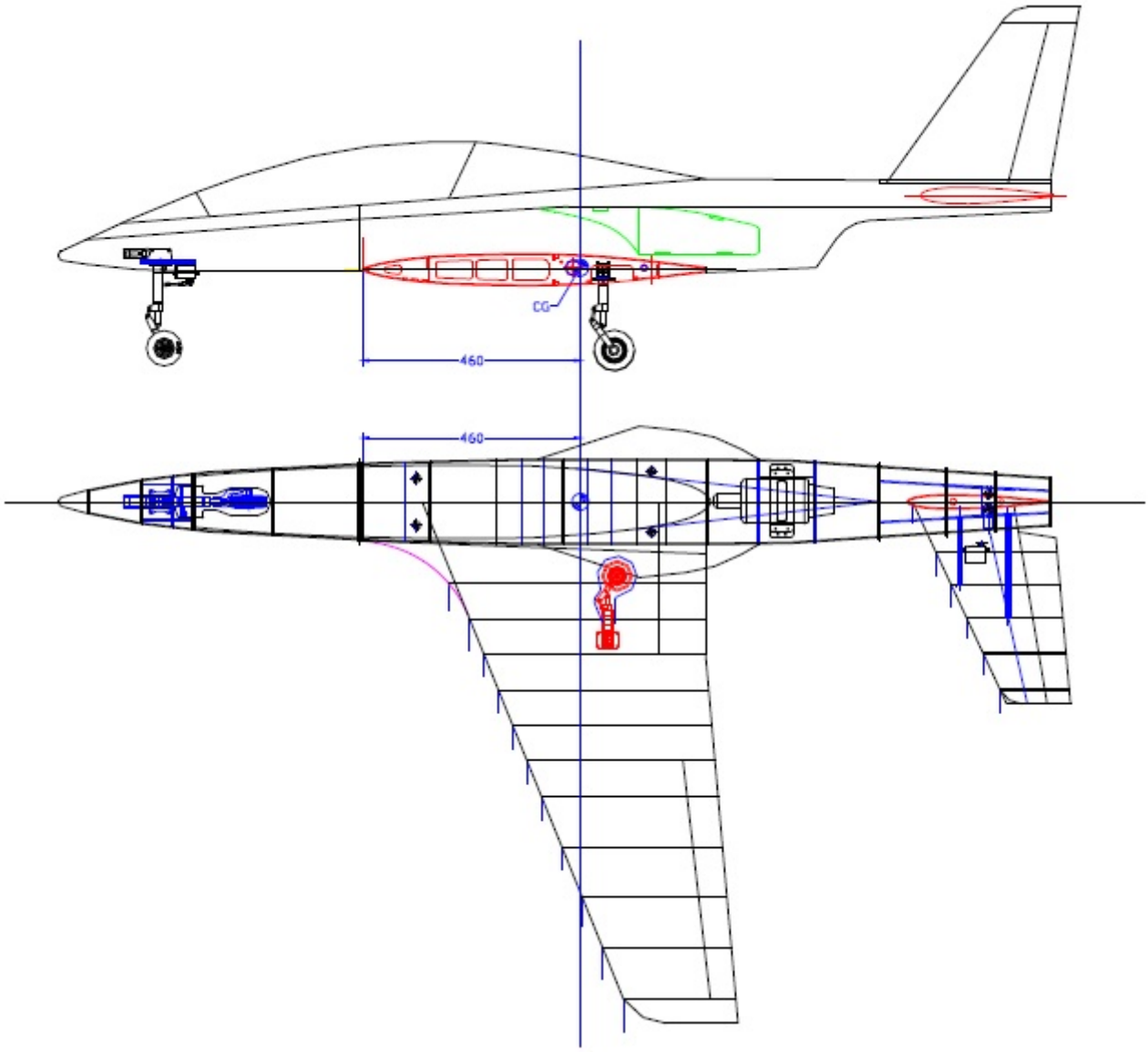


*Stick the plastic pools to the mid-wing with epoxy glue, than screw the retracts with 12pcs 3 x 20mm screws included in the kit.*

*We recommend spraying liquid grease oil in the joints of Retracts time to time.*

*CG;*

*We recommend the c.g. position at 460mm; this will be perfect as a starting point. We will recommend adjusting after a few flights to discover your personal preference.*



*Recommended Servo Throw Movement;*
*Aileron -15mm up/down,*
*Elevator - 20mm up/down,*
*Rudder - 35mm left/right,*
*Flap – not used in the takeoff. 50 – 60mm max. on landing*
*Elevator - flap mix, on 60mm down flap, mix elevator down, 6mm*
*(Measurements are measured on the tips of aileron and elevator)*

*Attention: you must adjust the movement, depending of your flying mode*

*Recommended Extension Cable Measurements; OPTIONAL (not included in the kit)*
*1- Mid-wing - 2 x 30cm for Aileron*
*1 x 30cm for Flap*
*2- Sidewings - 2 x 30cm*
*3- Rudder & 2pcs Elevator – 3 x 140cm*
*4- ECU -Throat Extention - 1 x 30cm*
*5- GSU ECU Extention – 1 x 30cm*
*6- Front Wheel Servo – 1 x 50cm*
*7- Pump Valve – 1 x 20cm*

*Gear and Steering Servo Installation:*
*Best is the electric retracts which is suplied as optional.*

*Suggested servos: Standard size,*
*Aileron - 10/13kg*
*Flap - 15kg*
*Elevator - 10/13kg*
*Rudder - 10/13kg*
*Front Gear Steering -10kg*

*For other information, please contact; kingtech.turbine@gmail.com*

*Please make safe flights and have a lot of fun with your Felix.*