



Viper Jet 73"

USER MANUAL

WINGSPAN:72.8" (1850mm)

LENGTH:77.1"(1960mm)



Introduction

- Thank you for purchasing our Viper 73" Jet plane. we strive to achieve a good quality quick build ARF aircraft .

It requires the least amount of assembly of any ARF kit to obtain the maximum performance.

- Both the design and manufacturing have been undertaken to the highest standards, using best quality hardware, covering, wood & glue during factory construction stage.
- By optimal weight and balance along with reliable construction, you will find this plane ideal for flying.

We hope that every effort and service we offer will, in turn, give you confidence using PILOT Models.

- Have a wonderful time flying your aircraft in a suitable safe space!

Warrant

- All Pilot-RC products are guaranteed against defects for 30 days of receiving your airplane. This warranty is limited to construction or production defects in both material and workmanship , it does not cover any component parts damaged through use or modification .
- The manufacture cannot supervise the assembly, operation or maintenance, and is not responsible for radio malfunctions. Please ensure your radio system is in good condition. **We are not responsible for any accident or damage while using this product.** It is impossible to determine for certain whether crash damage was the result of improper installation of our products, a radio system failure, or pilot error. Model airplane owners use our products at their own risk.
- Pilot-RC will not be liable for any costs, unless agreed and proved beyond doubt the failure was due to faulty materials or fabrication. Any agreed cost will not exceed the cost of the airframe and not include engine, radio equipment or third party claims.
- Should you wish to return a product or receive replacement parts, all shipping cost must be paid by the customer.

Attention

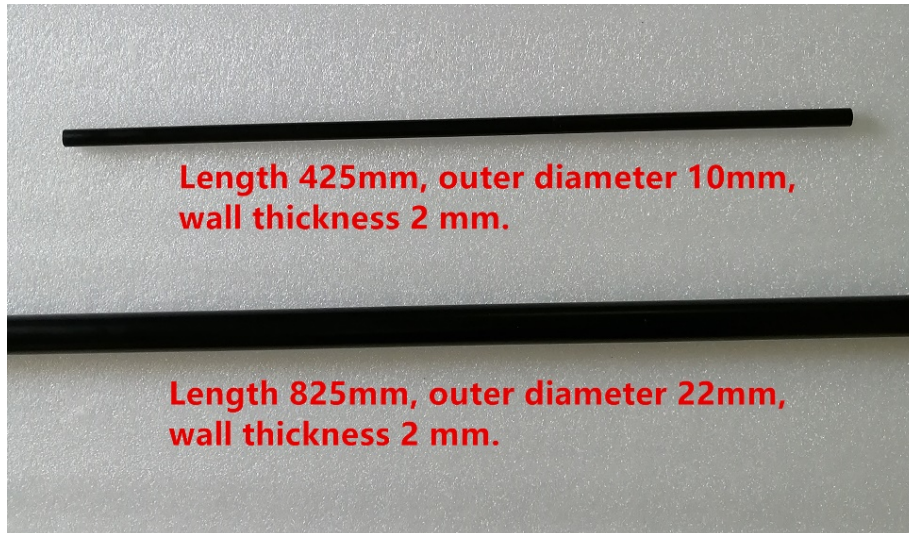
- 1. **Do not regard this plane as a toy!**
 - 2. To ensure safety, please read the instruction manual thoroughly before assembly.
 - 3. Building and operating an RC Plane of this nature requires previous experience and competence to an experienced level. This plane is not for a beginner!
 - 4. If you are in doubt have an experienced pilot at hand. Diligent practicing and correct guidance is essential, accidents can cause bodily harm and property damage.
 - 5. Seek assistance from an experienced person or airplane model clubs in assembly, operation and maintenance to ensure successful training.
 - 6. **Fly only in a registered RC model club airfield** that is approved by your local Academy of Model Aeronautics (AMA).
- Pilot-RC has the right to revise the plane, the instructions and the limited warranty without notice.
If you have any problems and questions please contact Pilot –RC:
Email: pilot-rc@139.com , info@pilot-rc.com
Phone: +86 760 88781293
FAX: +86 760 88780293
Address: No.34, Chengnan Er Road , Zhongshan city, 528400, Guangdong Province, China

Install kit contents

Install kit contents:

(Some contents like fuel tank etc... has already installed in fuselage)

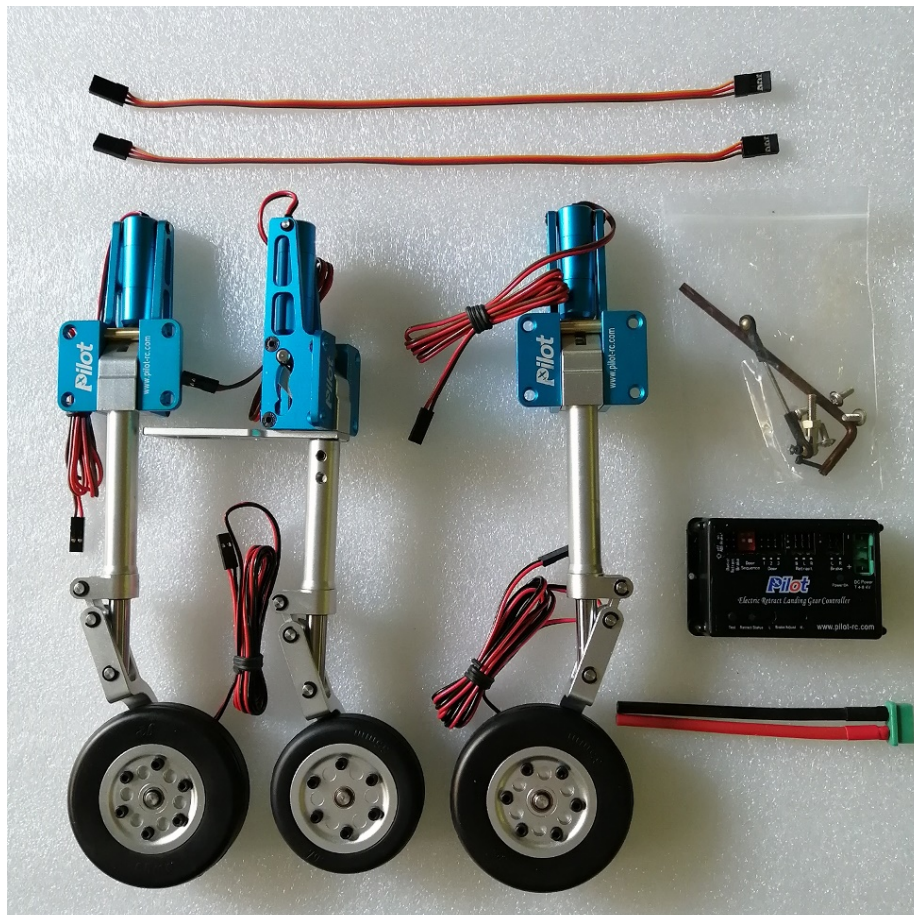
Aluminum tube:



Landing gear module(**optional**):

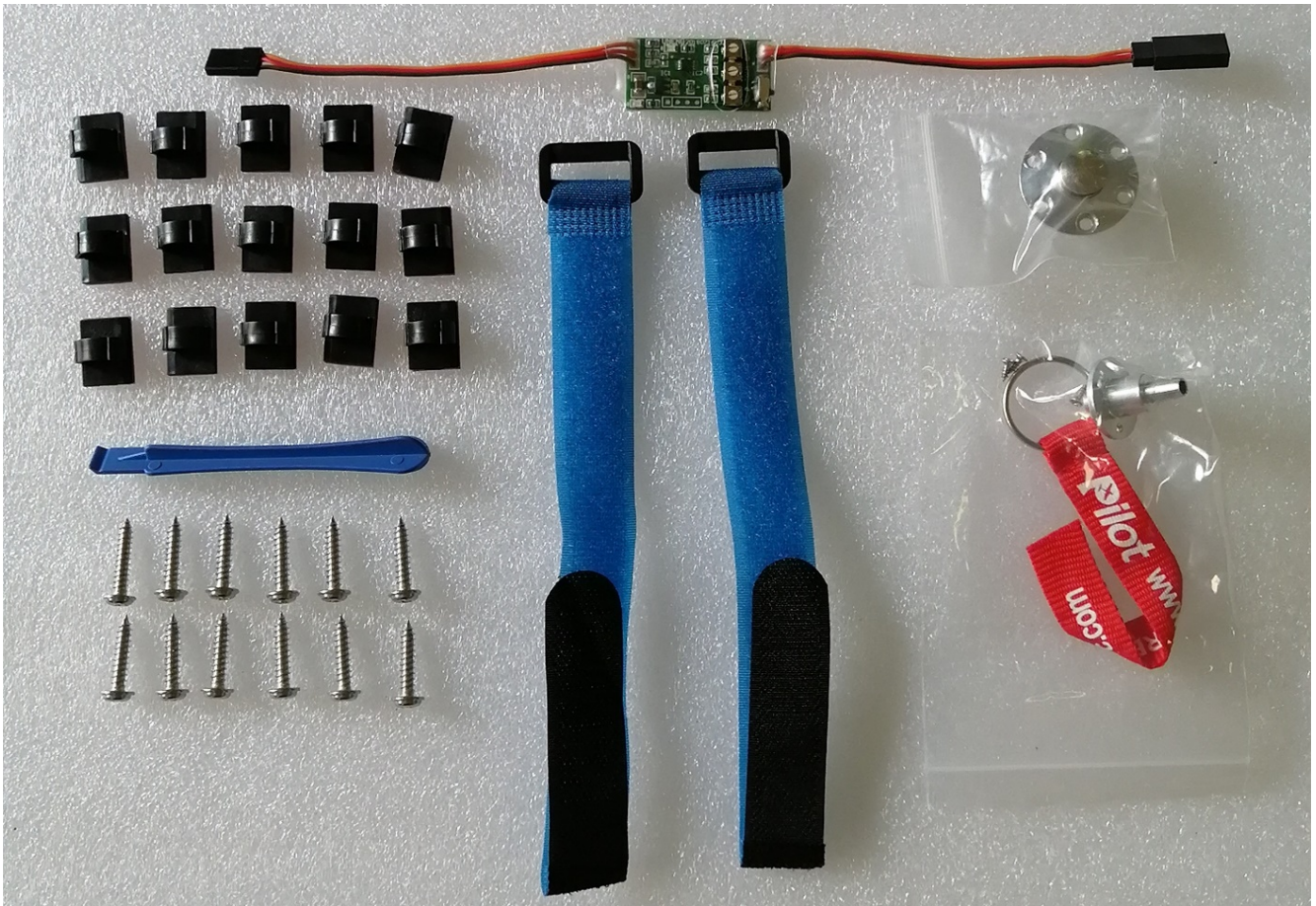
Landing gear

Pilot landing gear controller



Install kit contents

Accessories pack:



Accessories pack includes:

Hexagon screws in metric system(SHCS)

Tapping screws

Metric Allen Wrench

Push rot wrench

V teeth steel wire

Push rot

Wring clamp

Gasket

Battery bandage

Oil nipple suit

Extension cord

Crowbar

(Some of accessories like screw/cord etc... isn't in this accessories pack)

Install kit contents

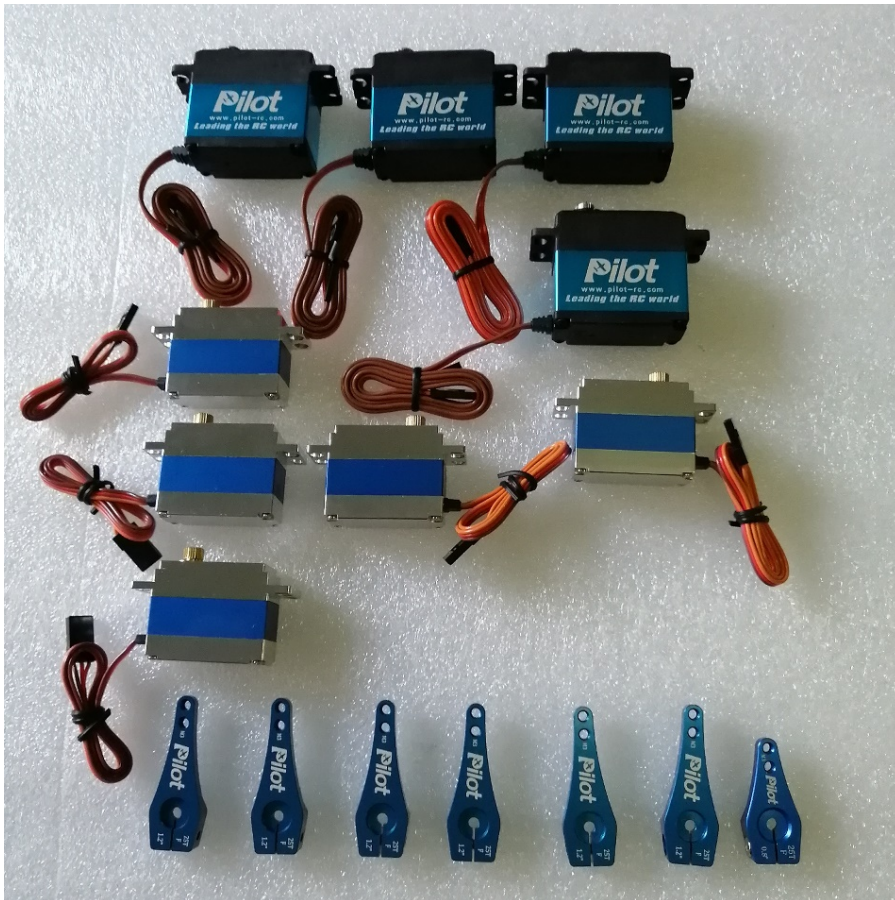
Servo module(optional):

Servo:

PW20AH 4
PY12AH 5

Servo arm:

Pilot Futaba aluminum alloy 0.8" 1
Pilot Futaba aluminum alloy 1.2" 6



Other Accessories Need To Complete:

Epoxy Adhesives

Cyanocrylate adhesives

X-Acto and Saw knives

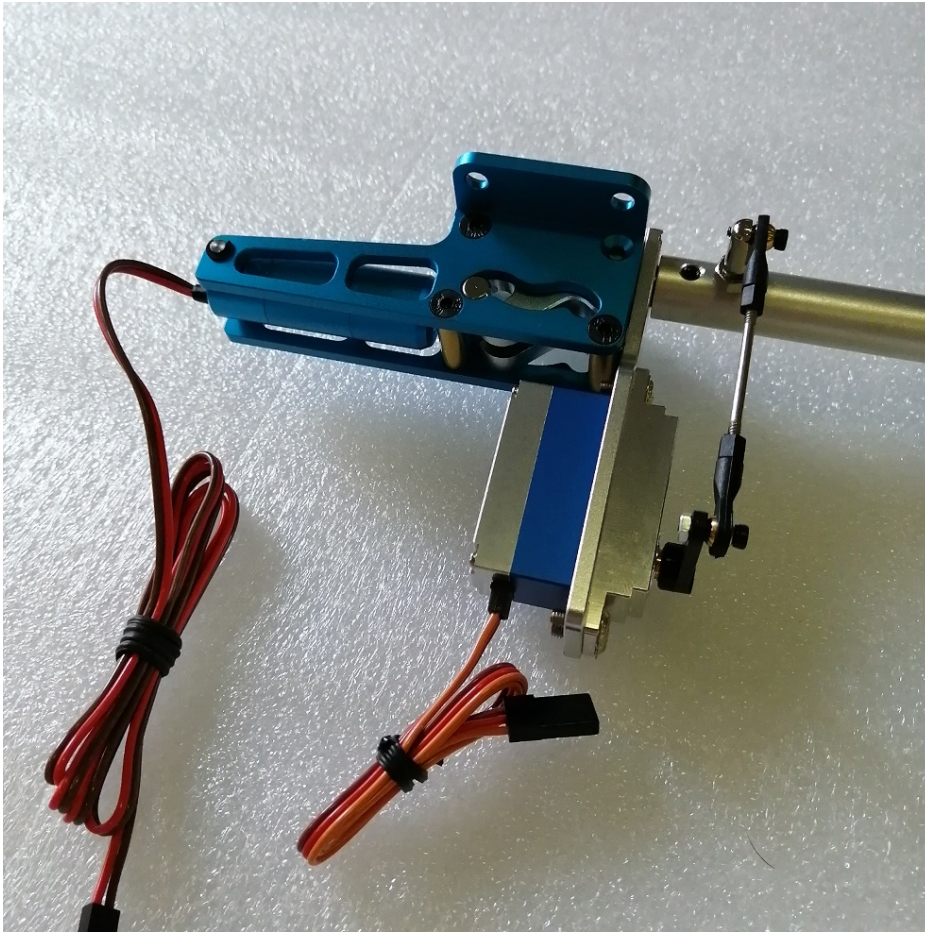
Sandpaper

Thread lock

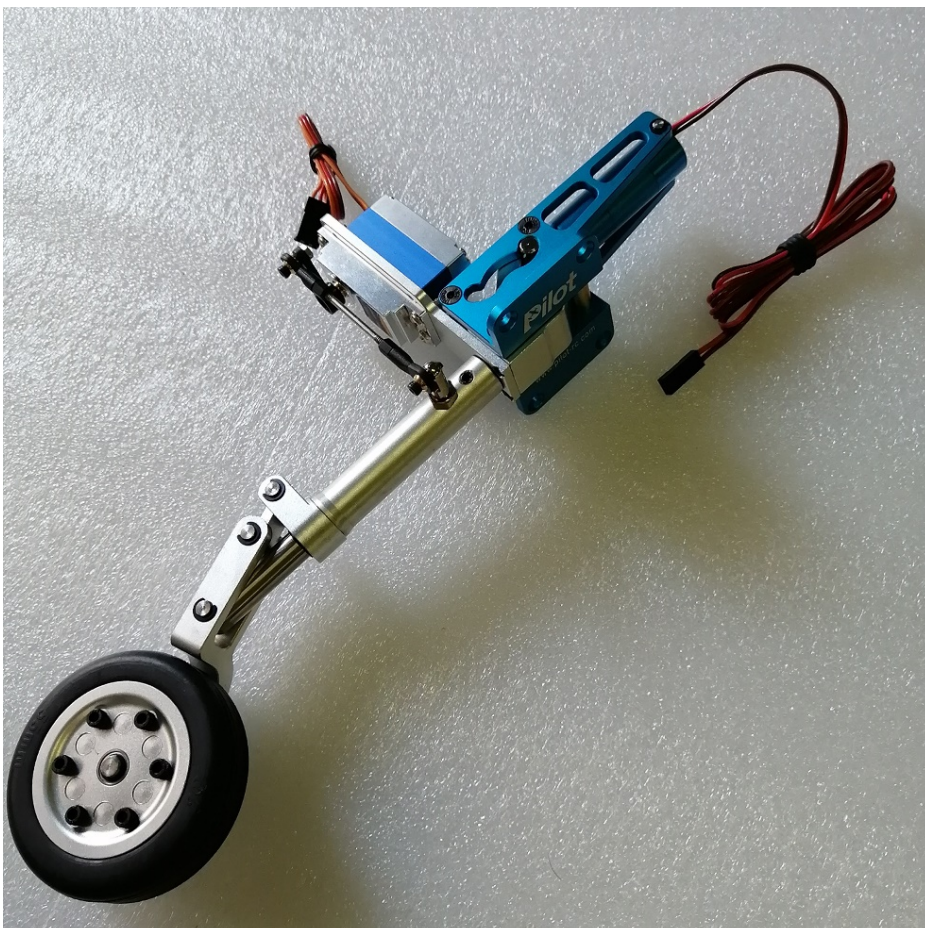
Aircraft stand or support

Landing gear assembly

1: Install the servo to the nose landing gear.



2: Install the servo arm and the push rod. Adjust it to make sure the plane can go straight approx. You still can adjust by radio after install it.



Landing gear assembly

3: Place the front gear on the support, adjust it to the correct position, and then lock it on the 4 reserved mounting holes with screws.



4. Before locking the screw, please make sure nothing gets stuck when opening and closing.



Landing gear assembly - nose

After the installation, Carefully arrange the nose gear retract wire lead and the steering wire as well

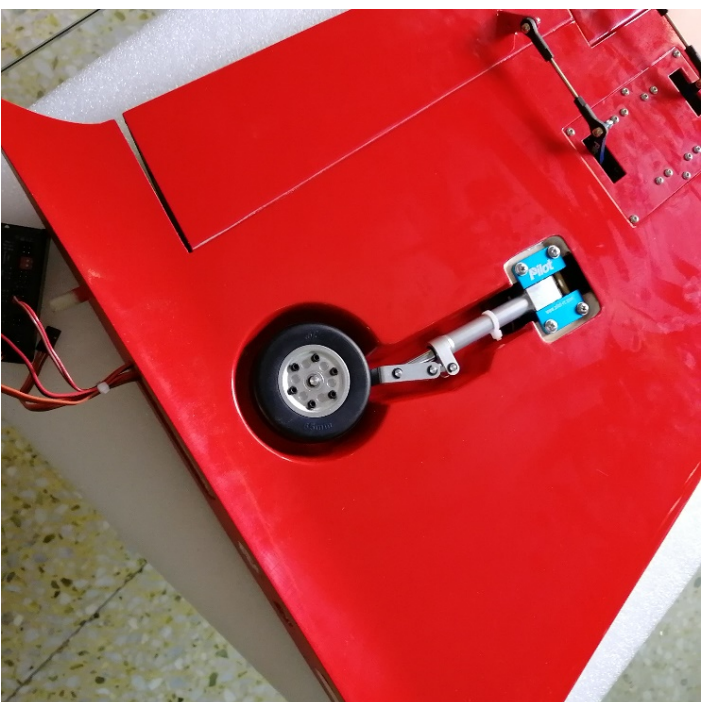
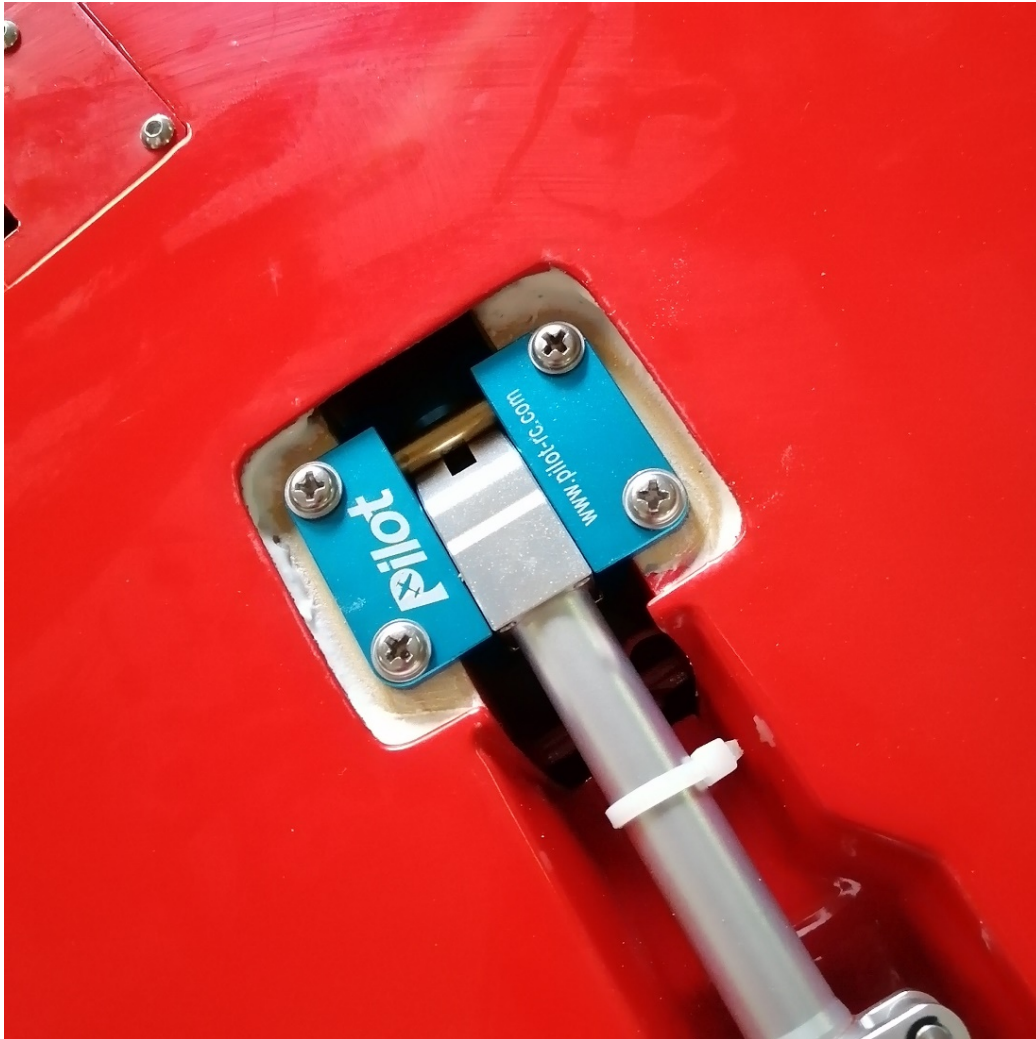


Install the nose retract gear to the fuselage.



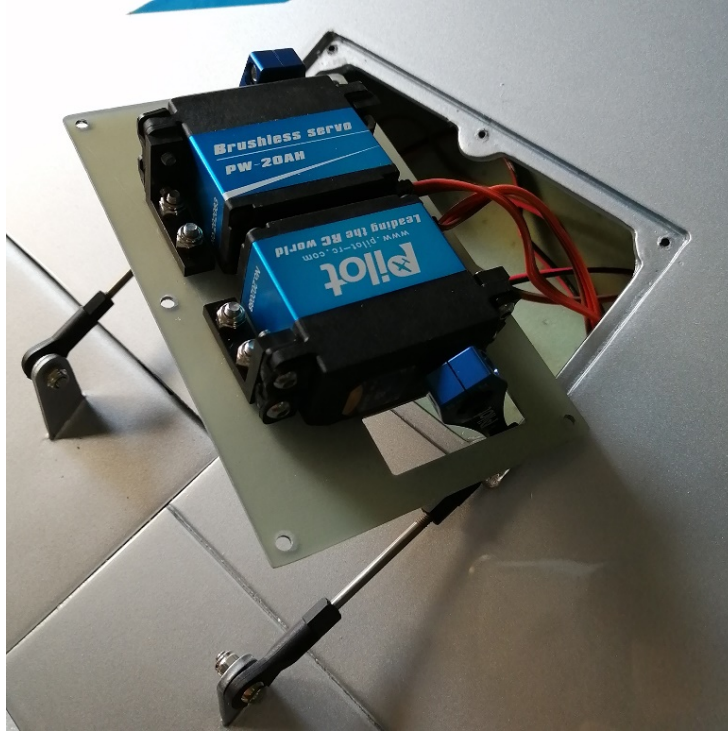
Landing gear assembly - main

4. Place the main landing gear in a suitable position and lock it with M4*20 woodworking screws. Before locking the screw, please make sure nothing gets stuck when opening and closing.

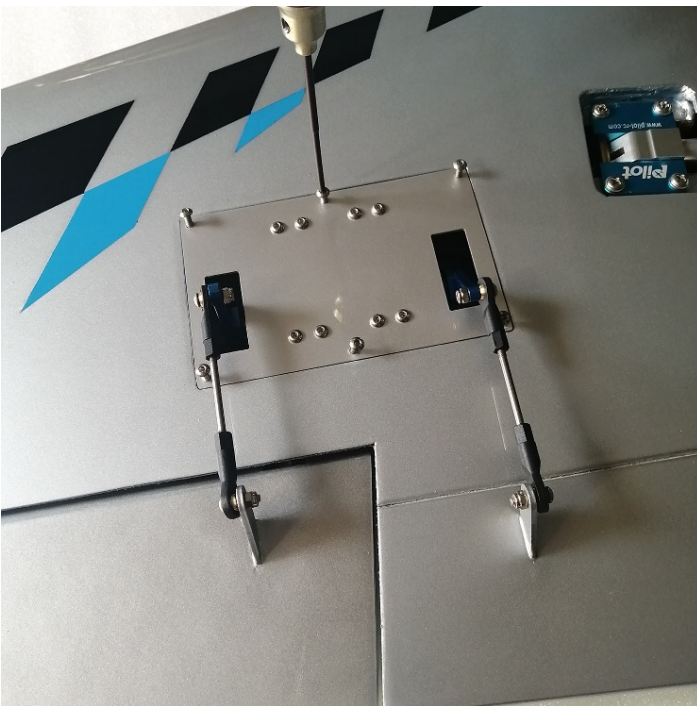


Wing Servo/Flaps Assembly

1. The control horns are pre-installed at the factory, ready for use. Screw the servo to the servo plate then install the servo arm on to the servo, making sure that this is centred



2. Place the servo over the servo plate making sure that the arm moves freely within the provided slot, and mark out the placement of the four screw holes. drill out the four holes in the plate, then securely screw the servo to the inside of the plate using the metal screws provided



Wing Servo/Flaps Assembly

Aileron servo / Flaps servo / Gear installed



Power cables for landing gear, flaps, ailerons and navigation lights are led out from the inside of the wing.



Elevator/ Rudder Servo Assembly

1. Rudder servo assembly Insert the servo into the precut servo mount, The rudder servo assembly inserts the servo device into the precut servo bracket. The screw is fixed in the same way as the aileron servo machine is installed



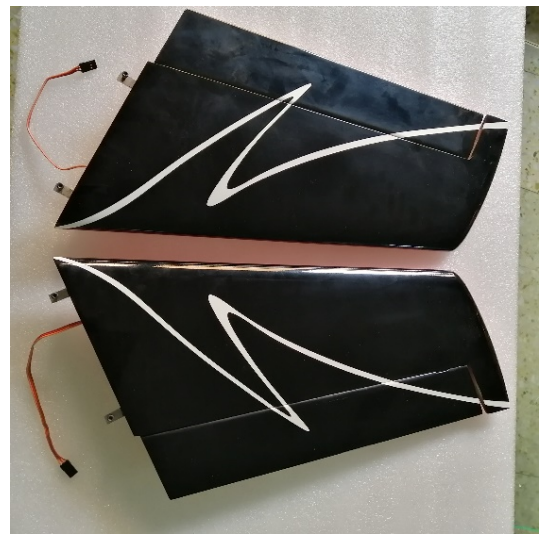
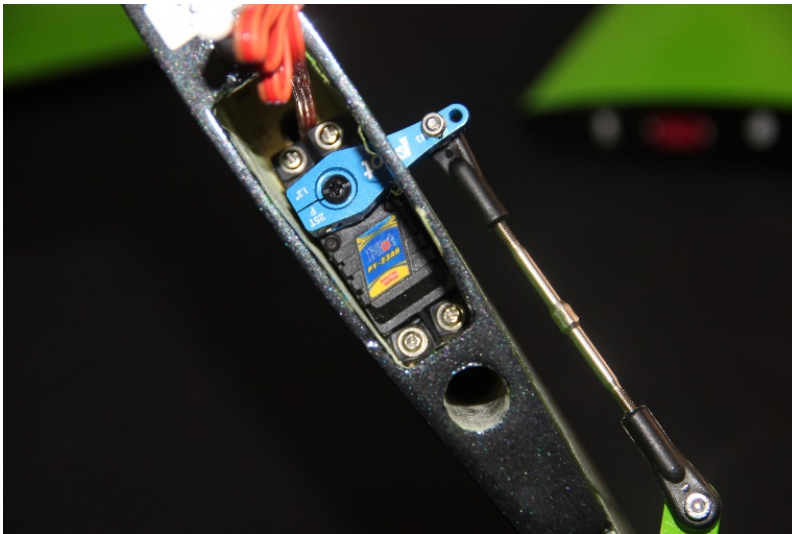
Elevator/ Rudder Servo Assembly

Next is the elevators



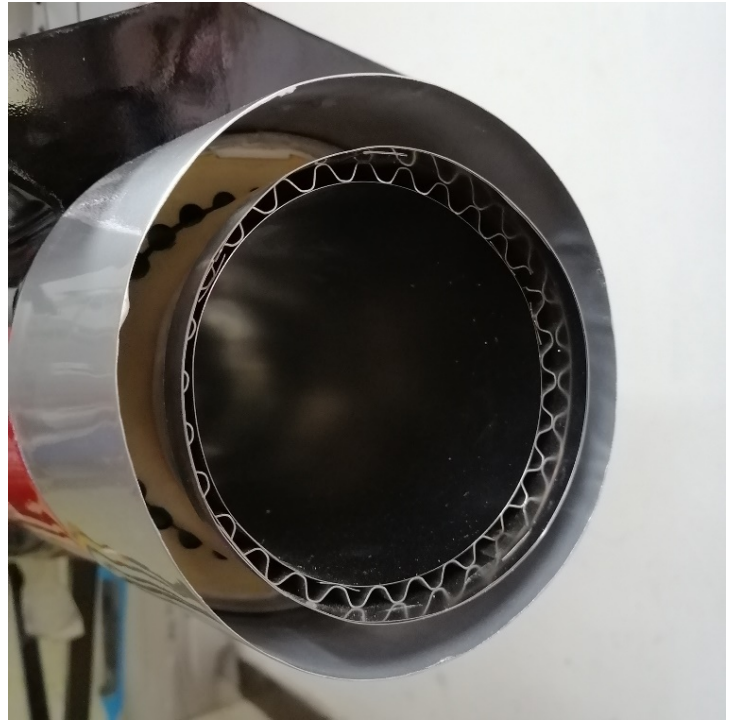
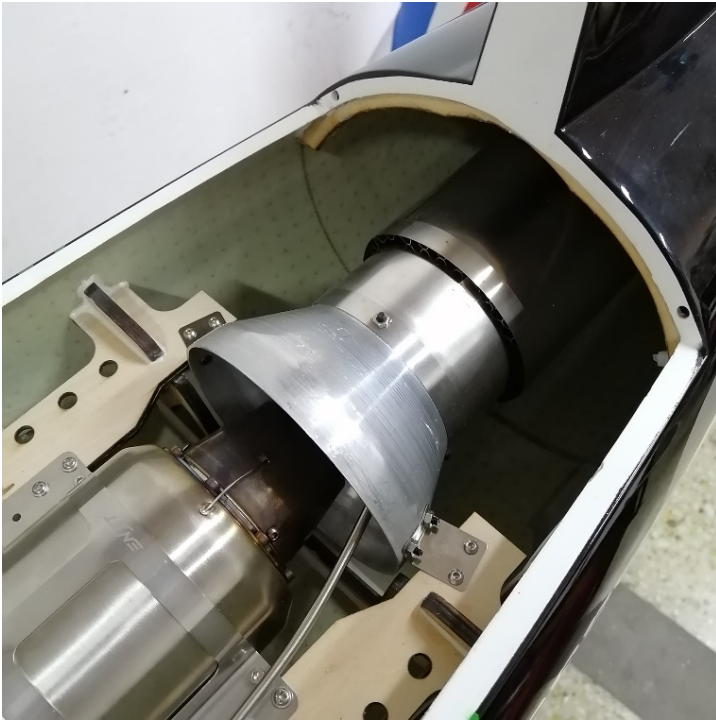
1.Put in the servo to the precut slot in the elevator.

2.Screw the servo in place, and then install the servo arm on to the servo, making sure that this is centred.



Servo Wire Arrangements

Fixed nozzle.

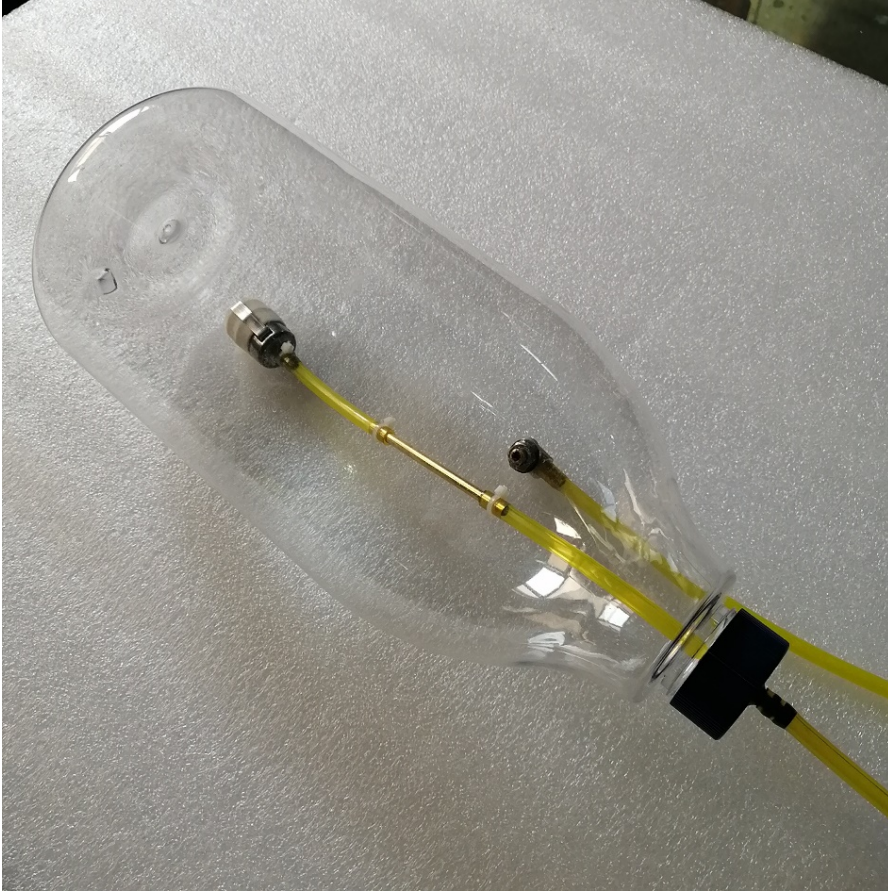


Fixing of engine



Tank Arrangement

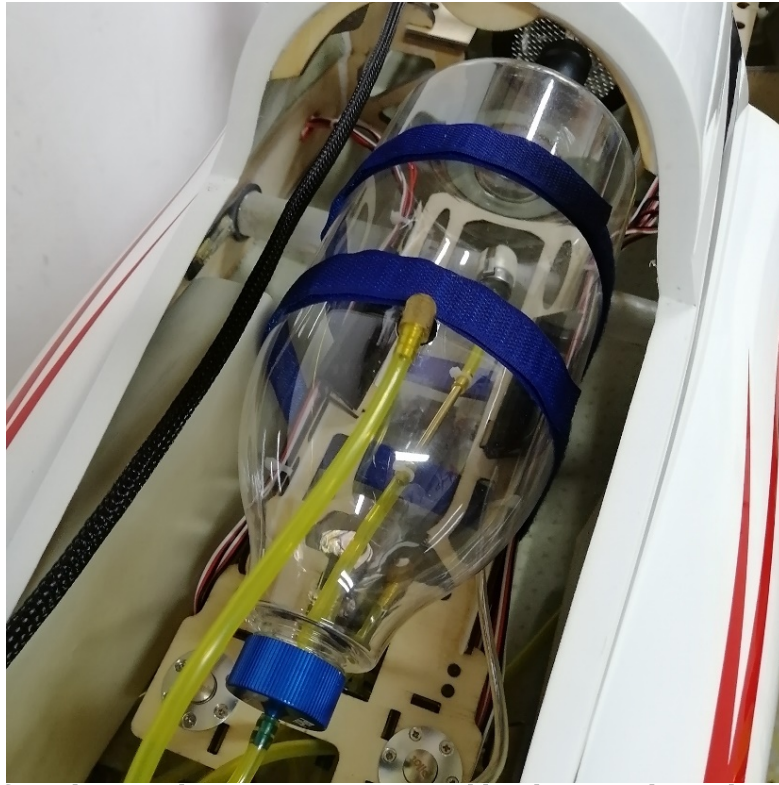
The 73" Viper use PilotRC 2000ml oil tank.



Anti-bubble oiltank:250ml



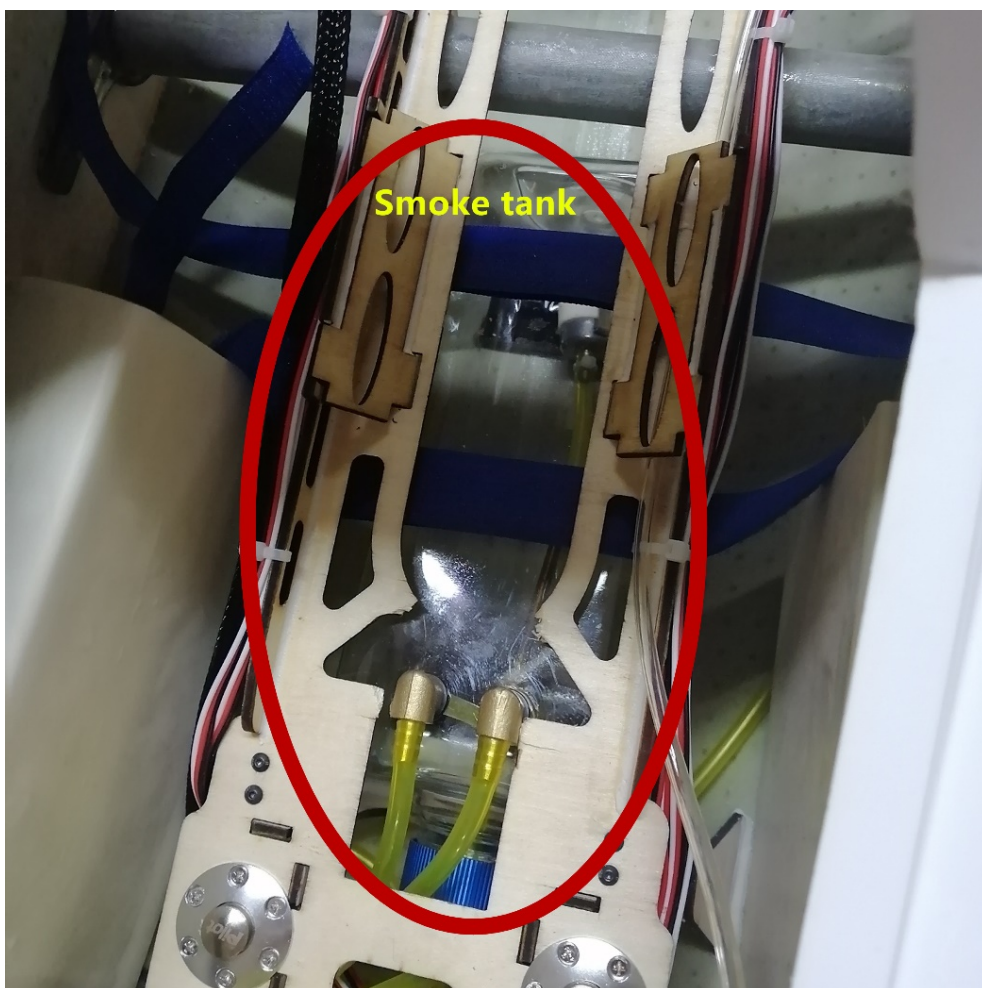
Fuel Tank Installation



To arrange the fuel tank, connect all the oil tube(or you can connect it later), and stick the Velcro stick on the tank support frame. Also, you need stick the Velcro stick on the fuel tank, to arrange the tank on the support frame, use Velcro stick tape to straining the tank.



Fuel Tank Installation



Flying Setting

Aileron: 9mm

Rudder: 17mm

Elevator: 15mm

Flaps:

25mm for take off

57mm for landing.

CG: The CG is 185mm from the front leading edge on the root of the wing.

Flight Preparation

- Make sure you have the right model programmed into your transmitter
- Check the direction of each surface not and also right before you take off .
- Remember nothing wrong on the ground ever improves in the air
- Check the air plane with the engine running and do a range check with your body between you and the plane at least 150 feet.
- Check your battery voltage after each flight, in case one servo is draining your battery
- Recheck all screws ,horns and linkages for slop after your maiden flight and check for damage if you made a bad landing you first time
- Have an experienced pilot fly it for you the first time if you have any doubts in your mind about the maiden flight
- Take a break after you first flight and let the adrenaline burned off by bragging to your fellow members how good it flies
- Fly low and at a medium speed on your first few flight
- Listen to your engine run and have an observer with you to remember what you talked about during the flight or if you get into trouble . Always balance your props, vibration is a killer.
- Remember nose heavy airplanes fly all the time, tail heavy airplanes fly only once. Be on the CG!
- Flying two mistakes: high in the beginning and not close to people, planes or runways. Being a center of the runway hog does not endear you to many modelers.

Double Check

Double check that all screws are installed, all components tightly secured, batteries and or fuel tank are full, all surfaces are working in the correct directions, balance is correct and range test passed before performing your maiden flight.

**WE WISH YOU A SUCCESSFUL MAIDEN AND MANY HAPPY FLIGHTS WITH
YOUR NEW MODEL**
Tony Tan, Pilot-RC



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