

# **MINI VIPER MANUAL**

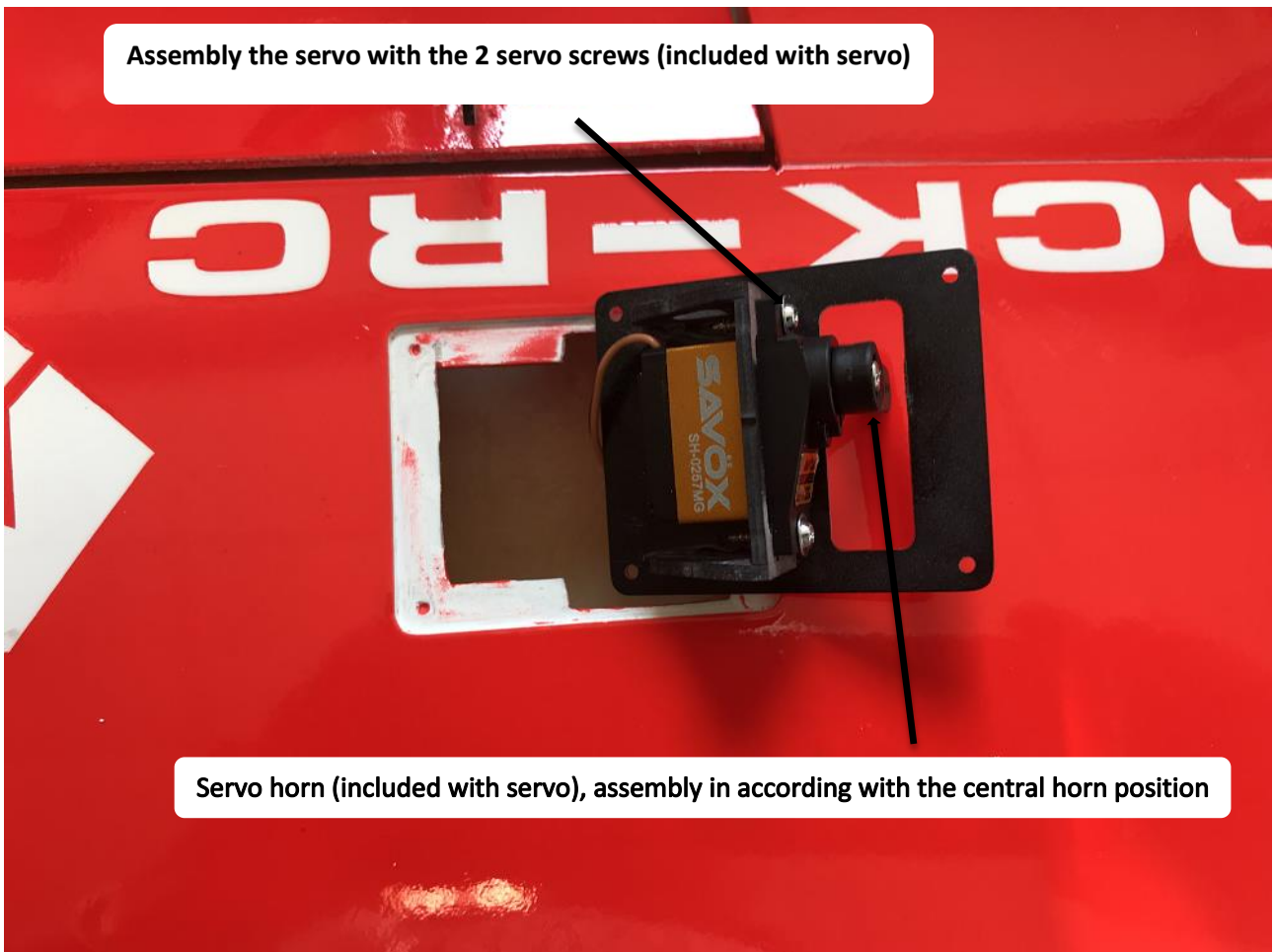
# START ASSEMBLY

## Aileron servo on the wings

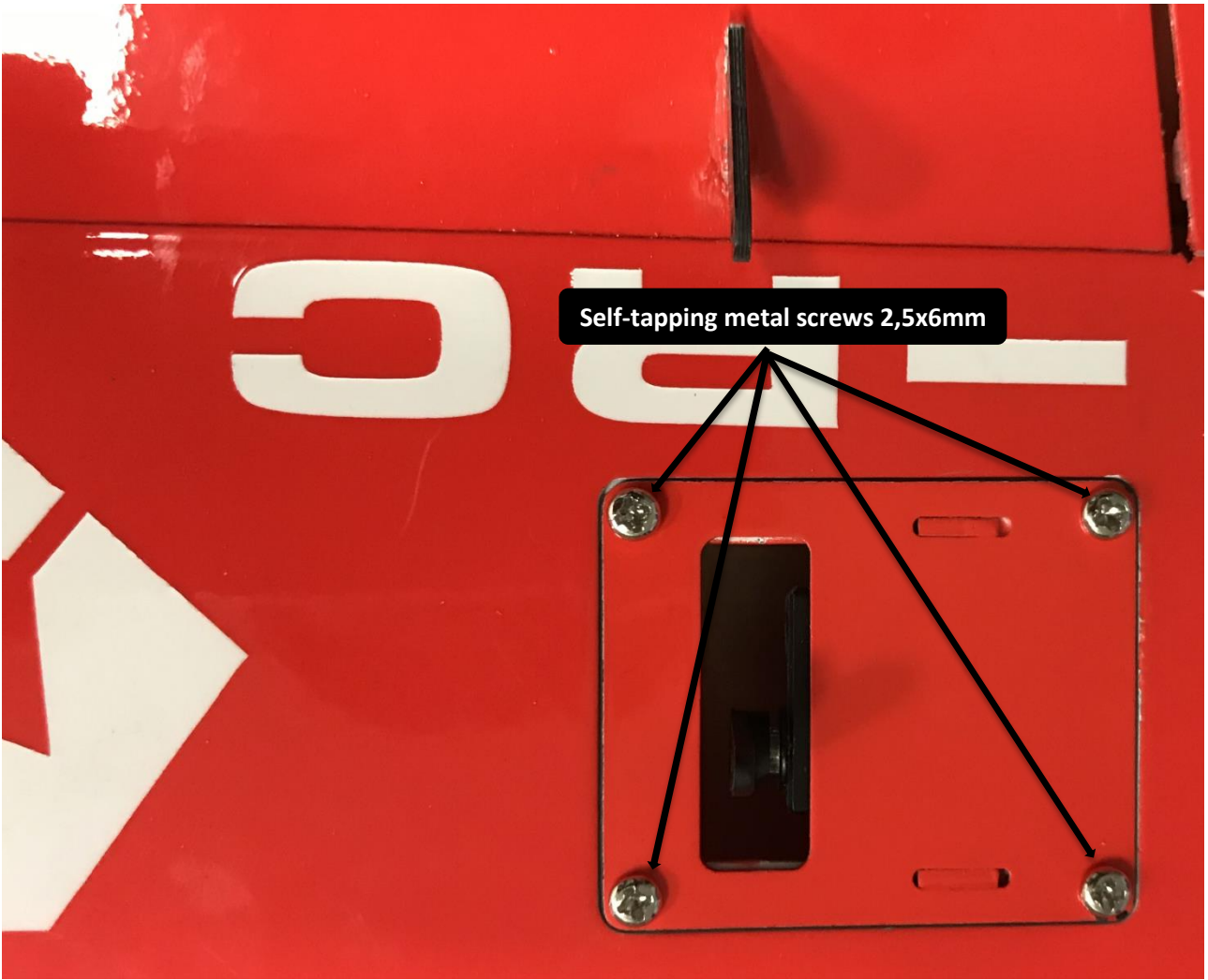
### Bag 1:

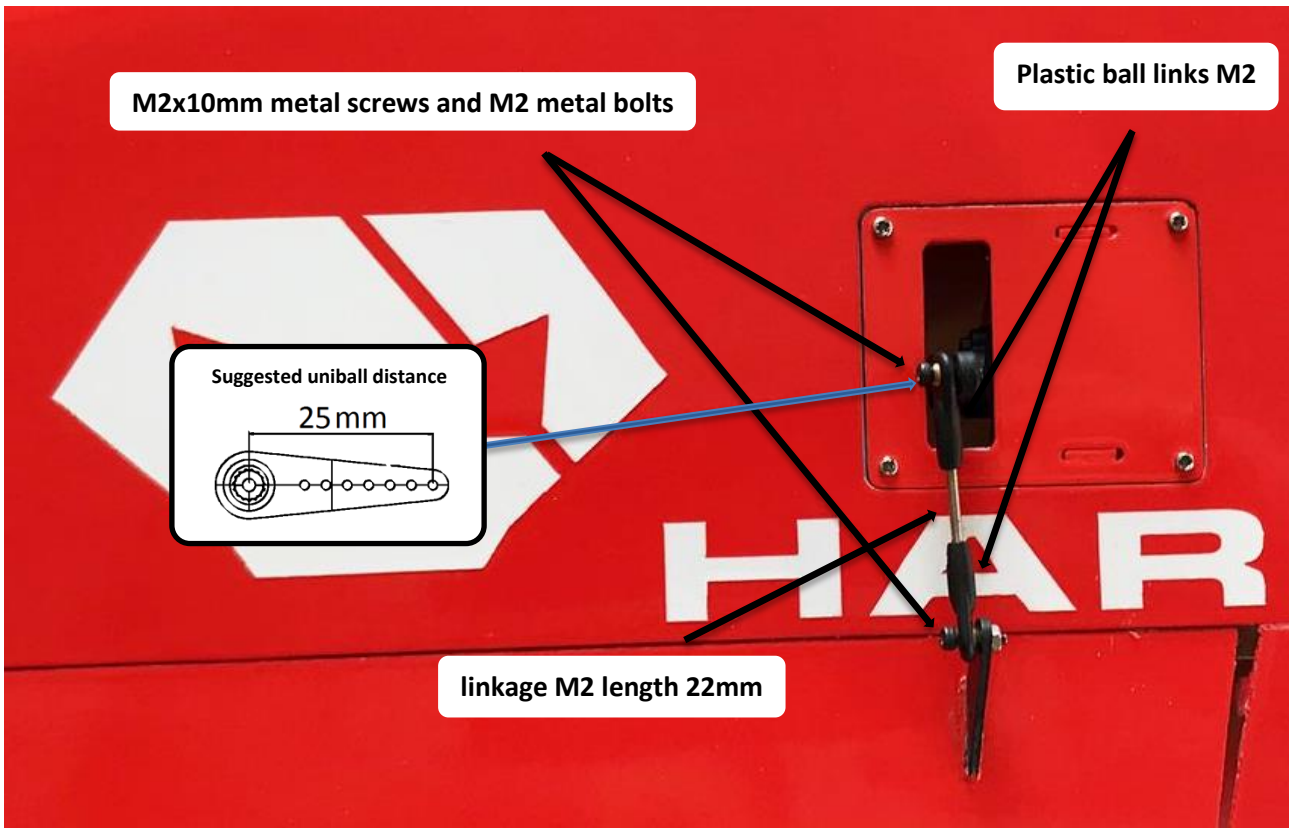
- 8x Self tapping metal screws 2,5x6mm
- 2x Threaded metal linkage M2 length 22mm
- 4x Plastic ball M2
- 4x M2 metal bolts
- 4x M2x10mm head cap screws
- 2x Servo holder

Assembly the servo with the 2 servo screws (included with servo)



Servo horn (included with servo), assembly in according with the central horn position





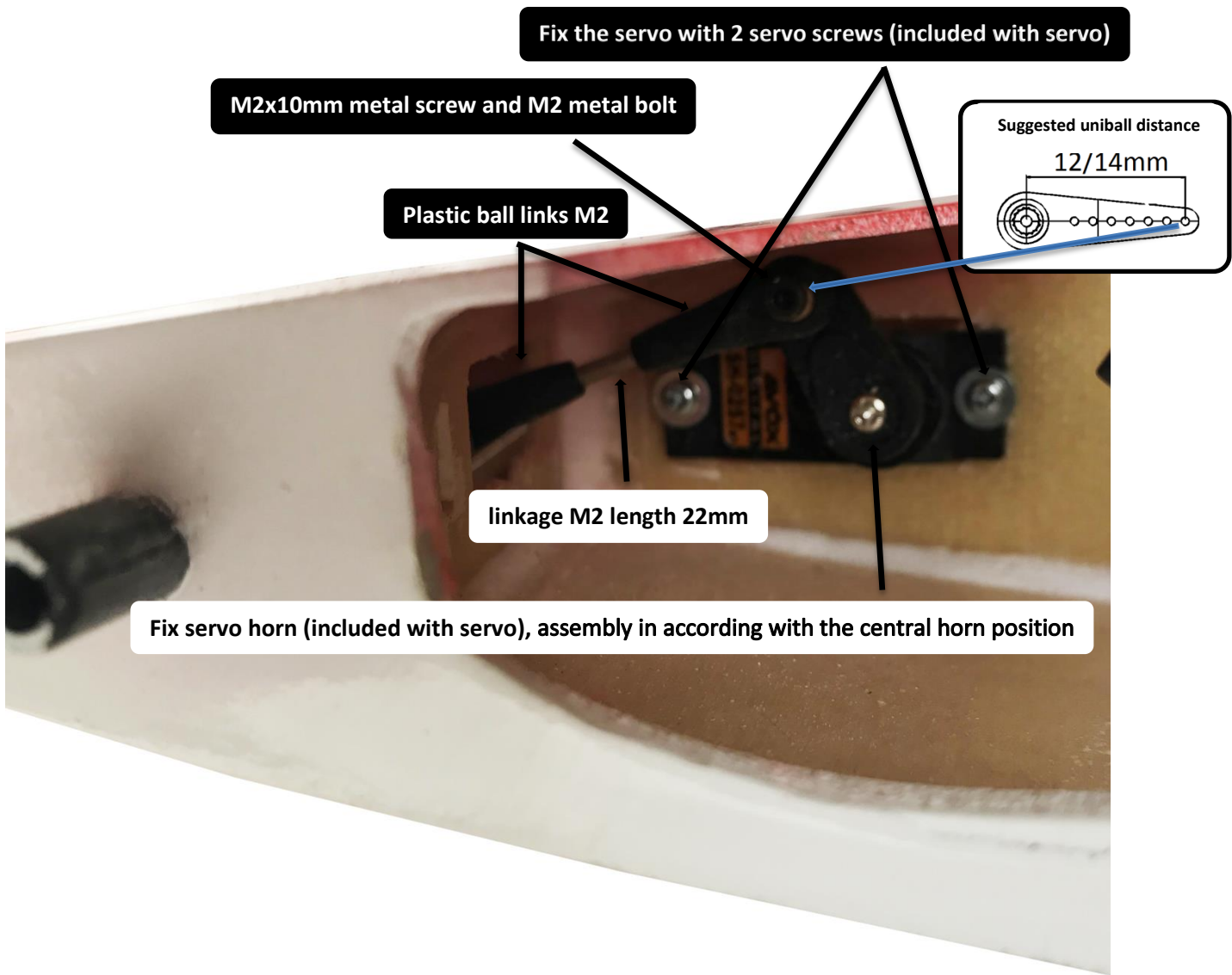
Do the same for both wings.

## Flap servo on the wings

### Bag 2:

- 2x Threaded metal linkage M2 length 22mm
- 4x Plastic ball M2
- 4x M2 metal bolts
- 4x M2x10mm head cap screws





Do the same for both wings.

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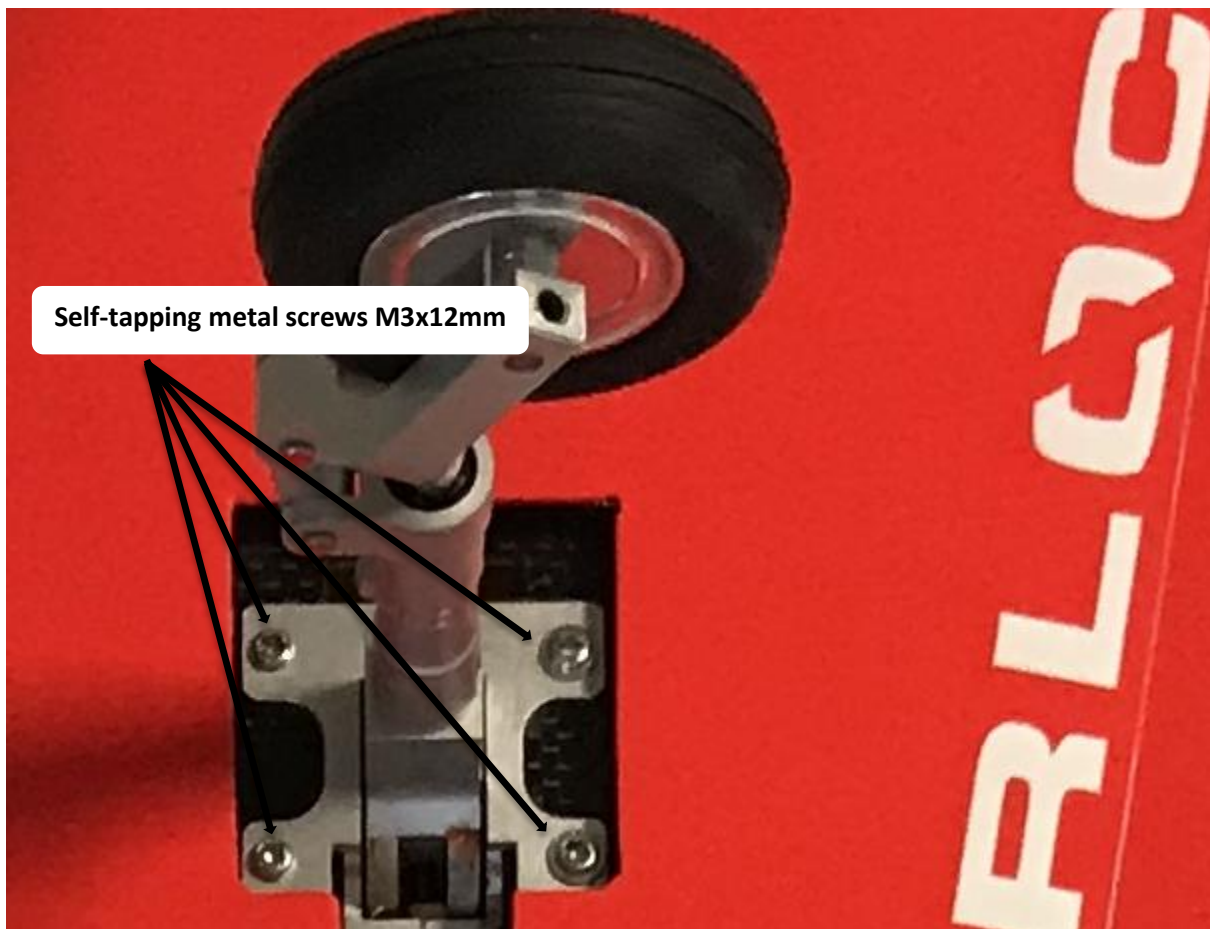
## Landing gears on the wings (sold separately)

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**Bag 3**

8x Self tapping metal screws

Before insert the screw proceed to hole with 1,5 drill bit. See following pictures to find the correct landing gear position.



Do the same for both wings.

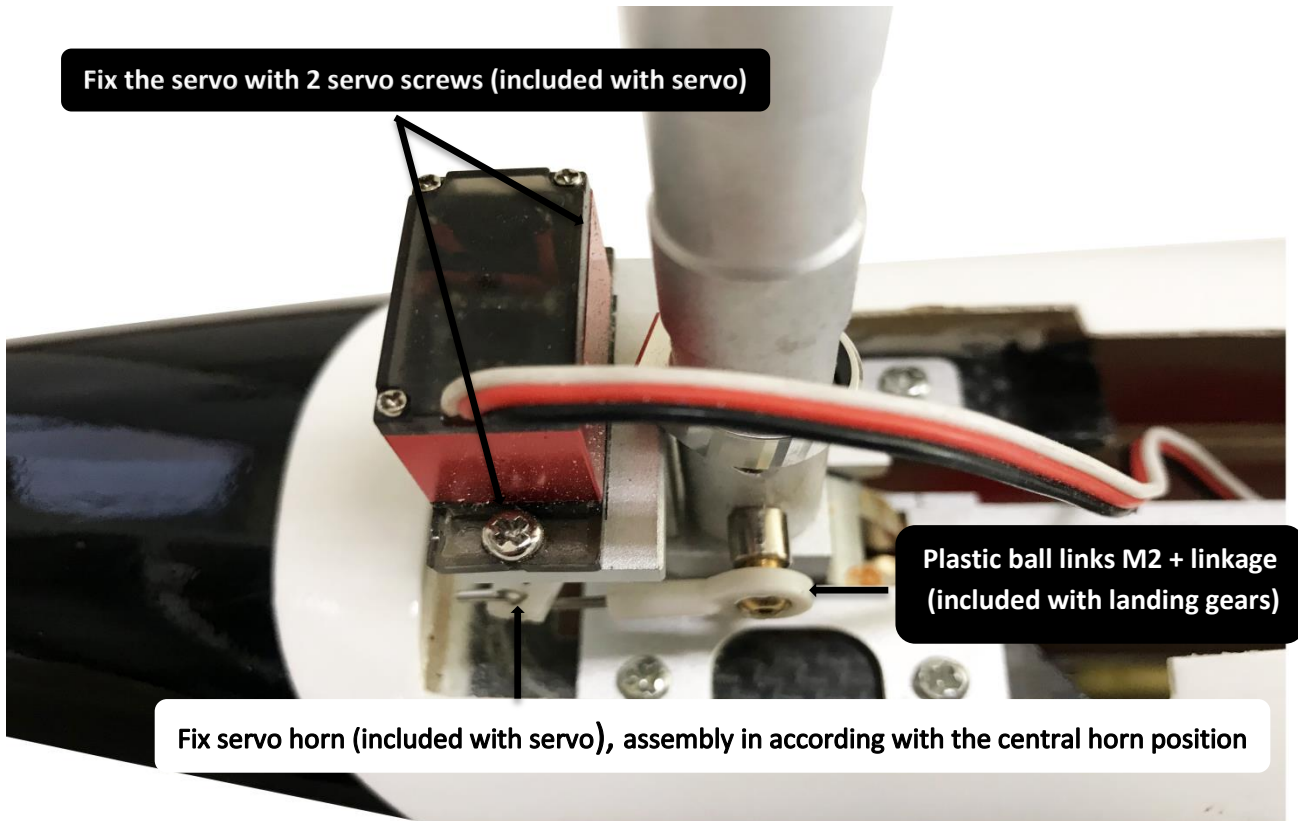
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## Nose landing gear (sold separately)

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**Bag 4:**

4x Self tapping metal screws 3x12mm



Before insert the screws proceed to hole with 1,5 drill bit. See following pictures to find the correct landing gear position.



## Rudder servo

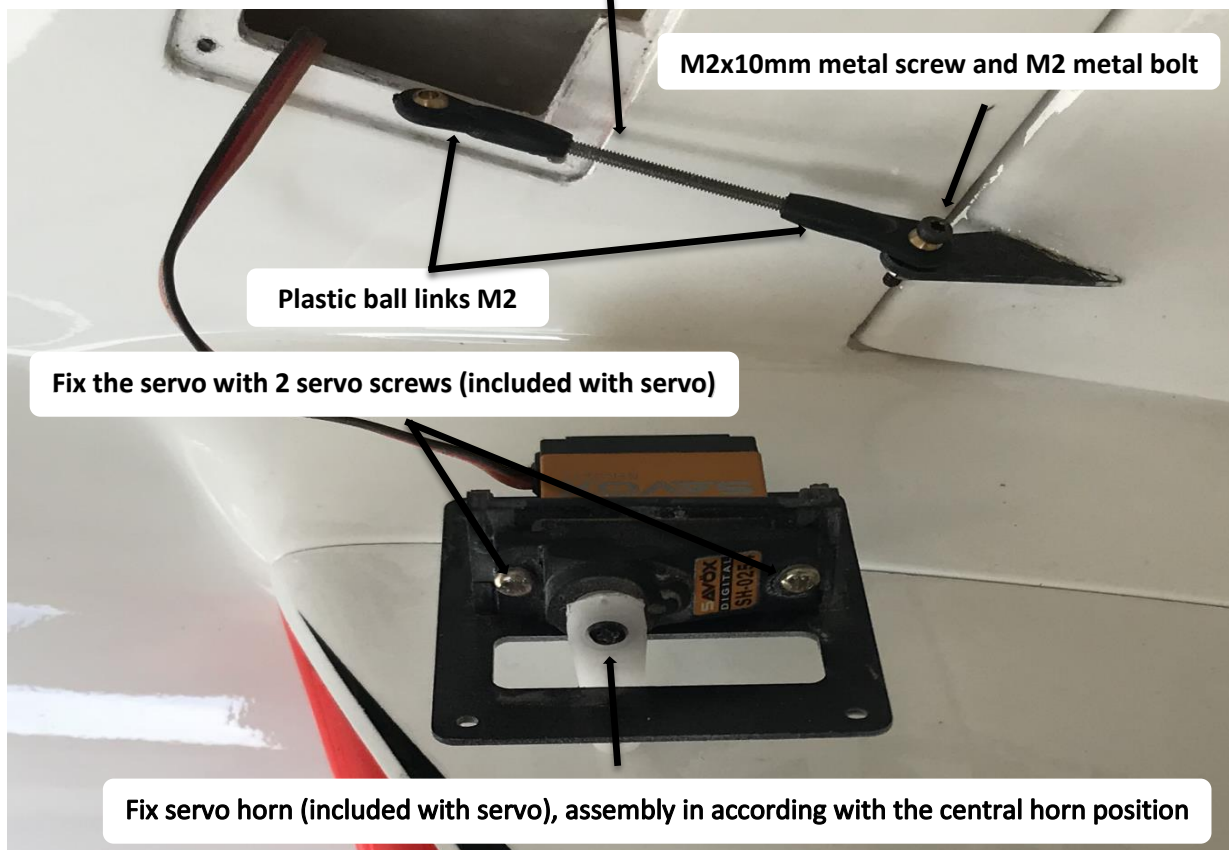
### Bag 5:

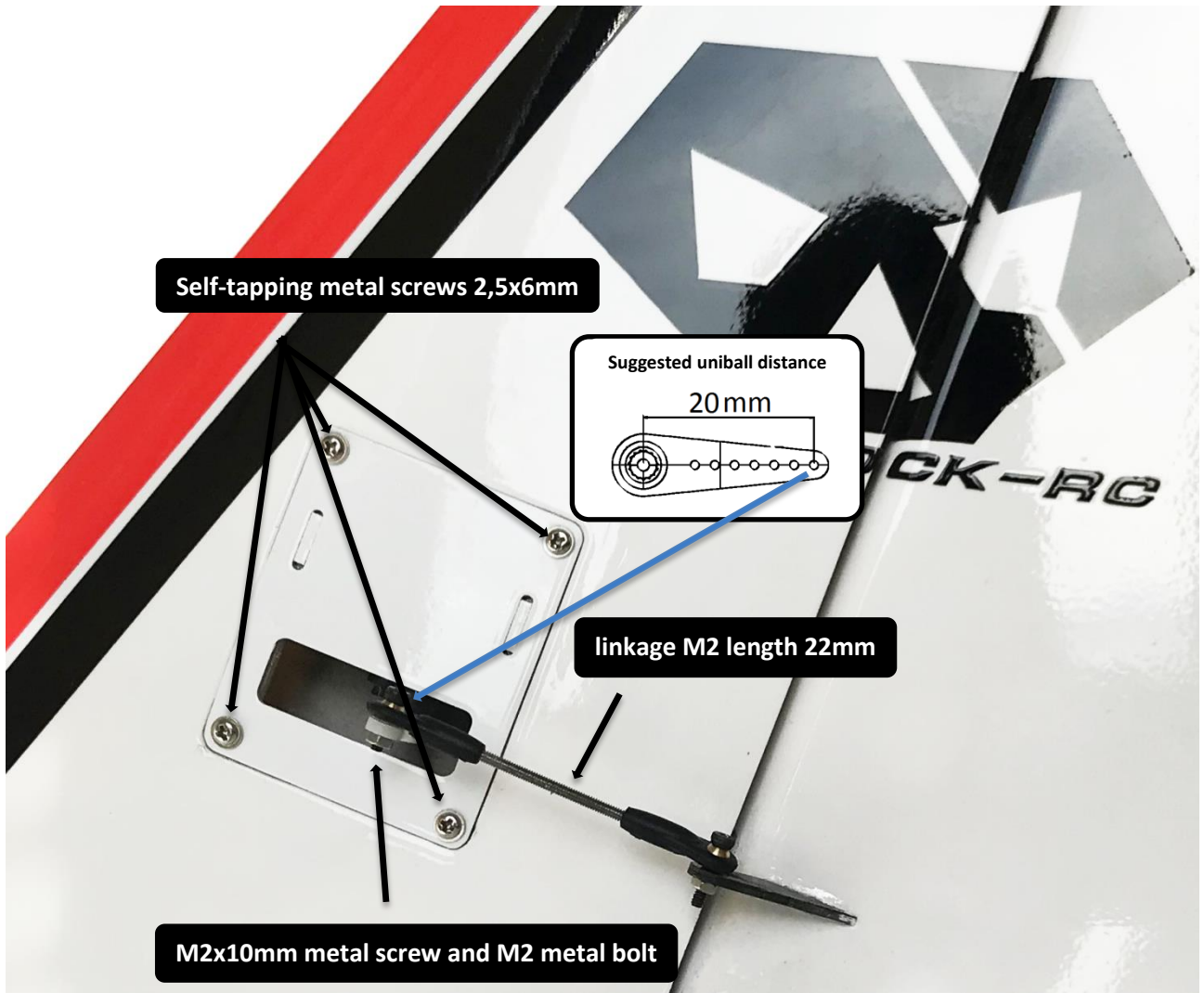
- 1x Threaded metal linkage M2 length 40mm
- 2x Plastic ball M2
- 2x M2 metal bolts
- 4x Self tapping metal screws 2,5x6mm
- 2x M2x10mm head cap screws
- 1x servo holder

Approx 65mm



linkage M2 length 22mm





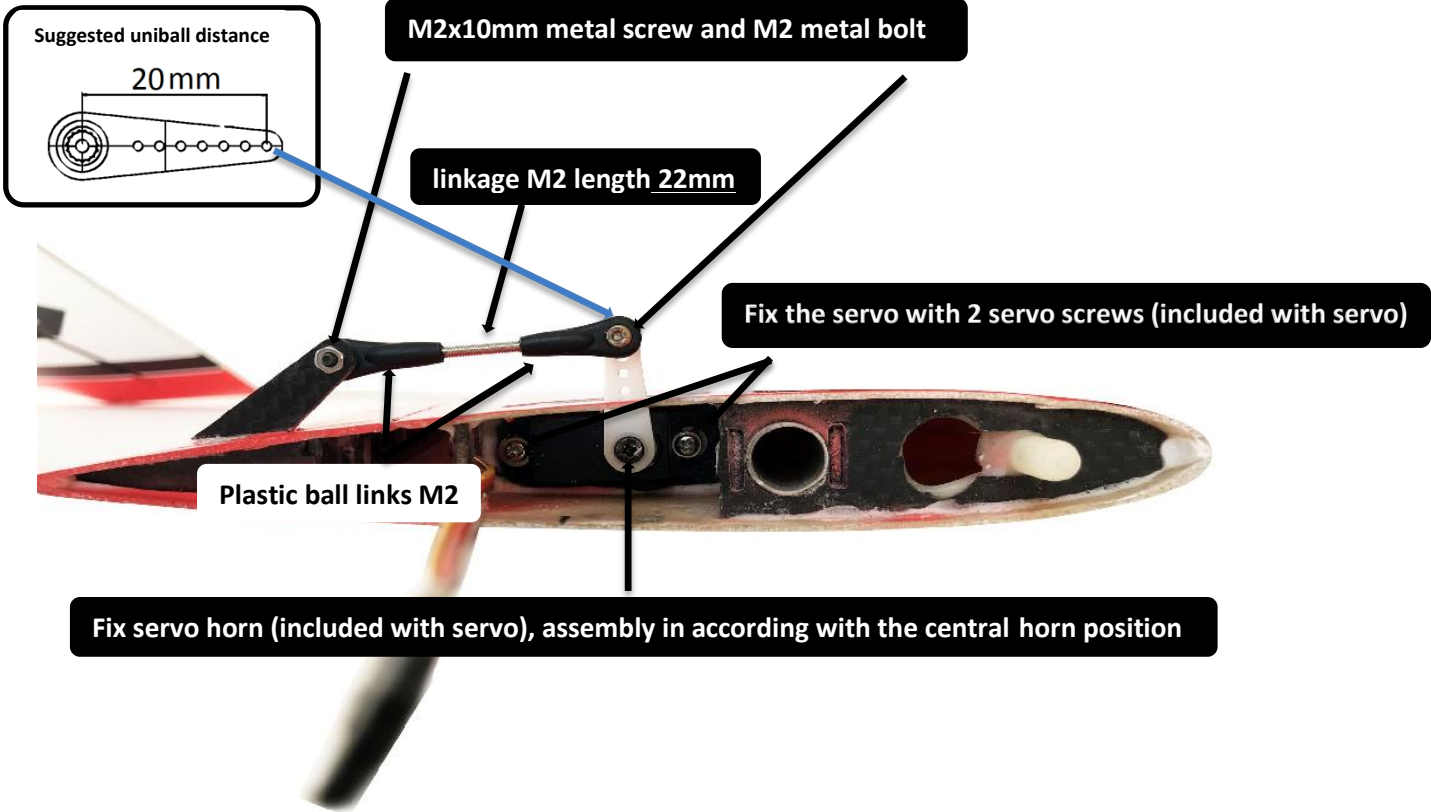
## Elevator servo

### Bag 6:

- 2x Threaded metal linkage M2 length 22mm
- 4x Plastic ball M2
- 4x M2 metal bolts
- 4x M2x10mm head cap screws

Approx 45mm





Pass the servo wire as shown:



Do the same for both elevators.

## Elevators on fuselage

### Bag 7:

2x Nylon nut M6

2x FG washers  $\text{\O}6 \times 12\text{mm}$

Carbon round tube  $\text{\O}10 \times 1 \times 250\text{mm}$



Nylon M6 bolt



Nylon  $\text{\O}6$  washer

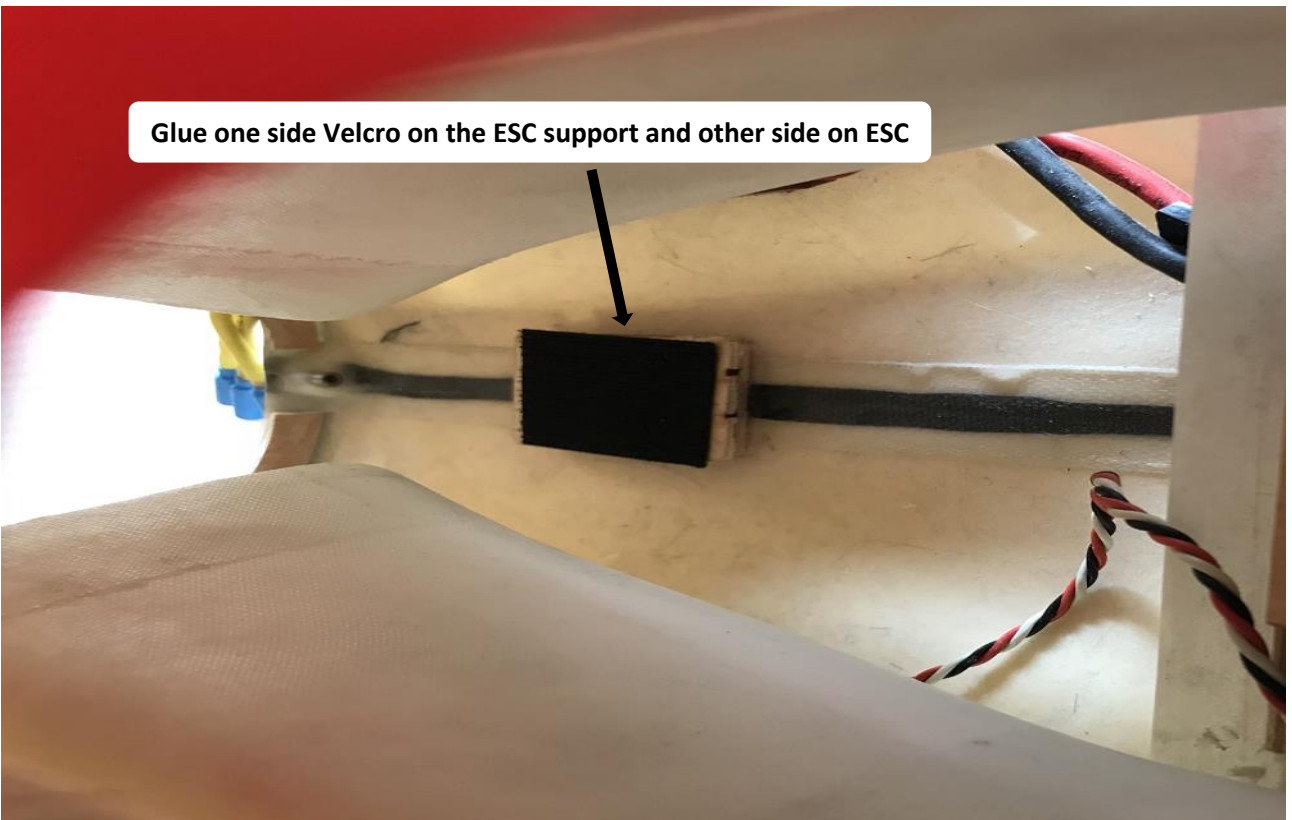


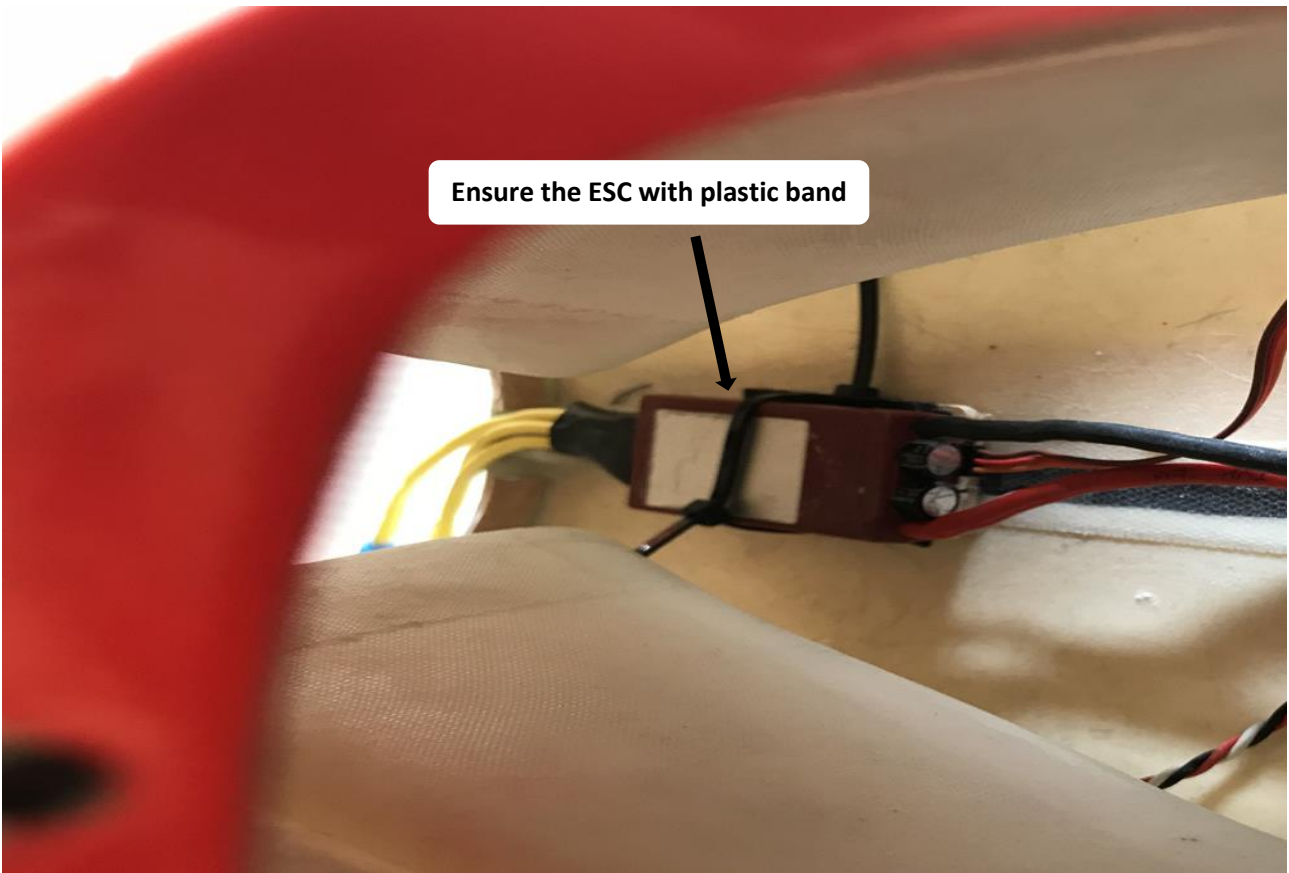
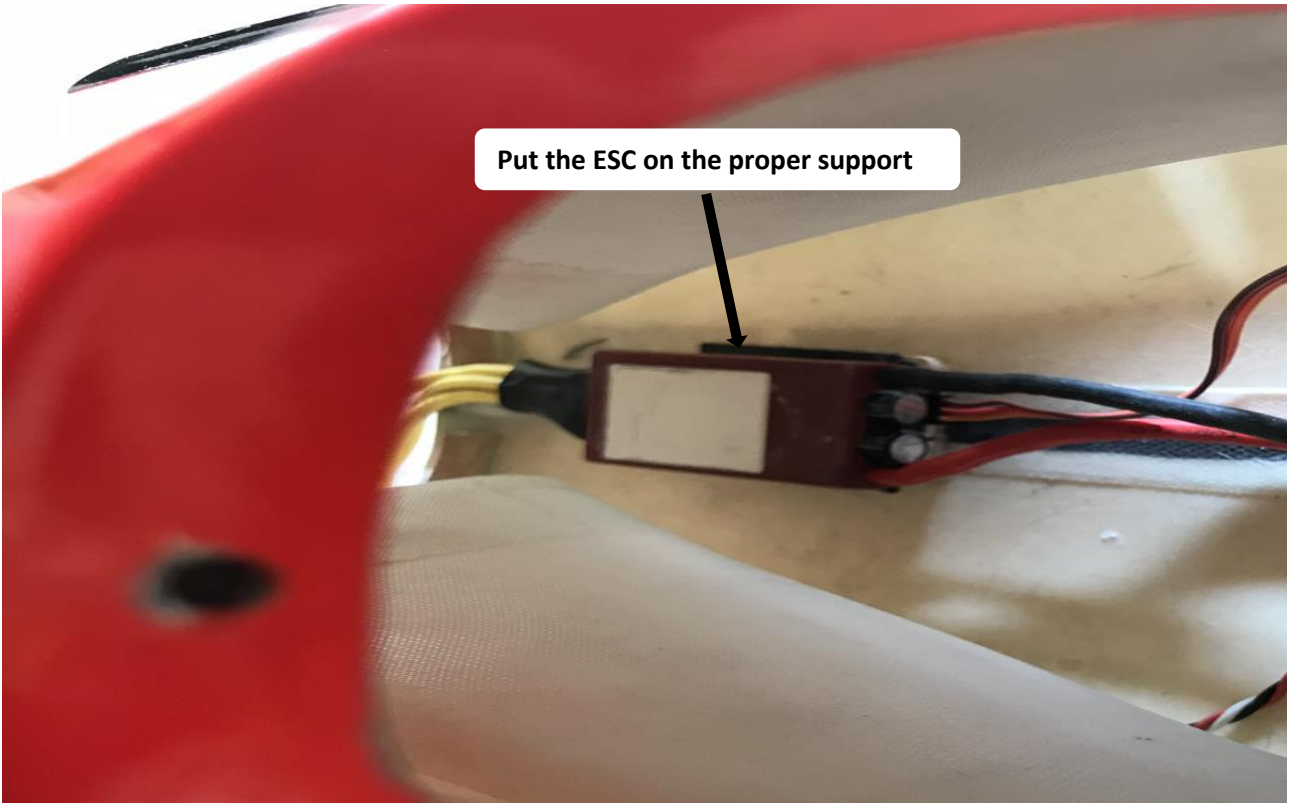
Not included



Do the same for both elevators.

**ESC**



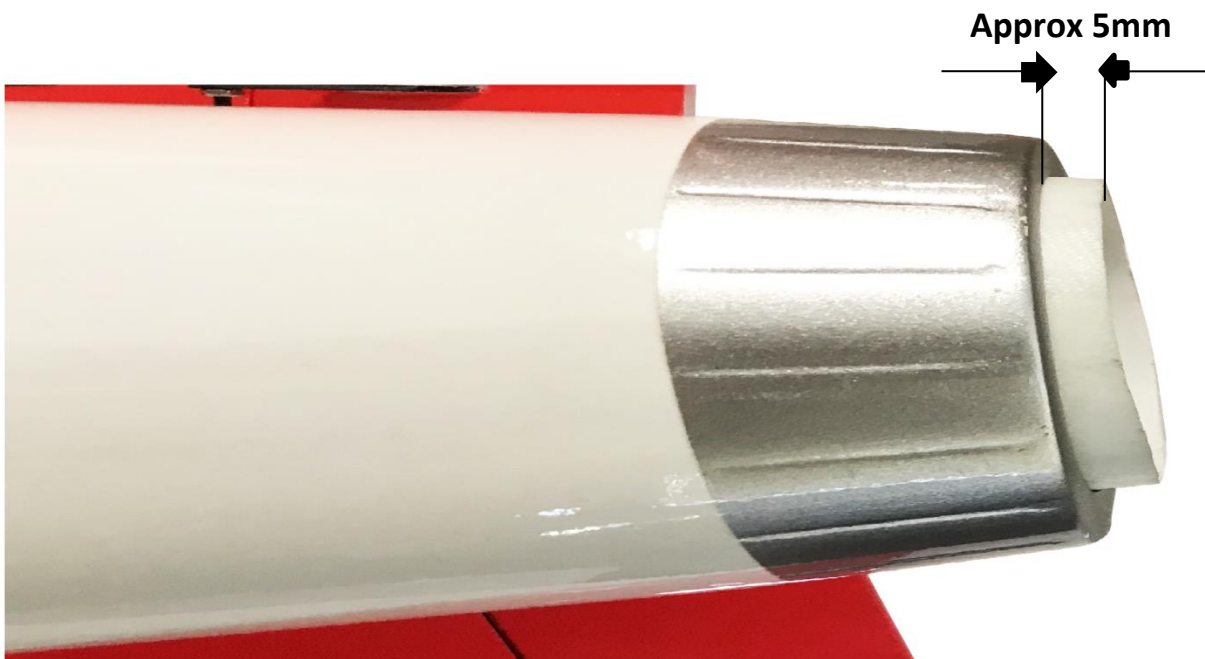


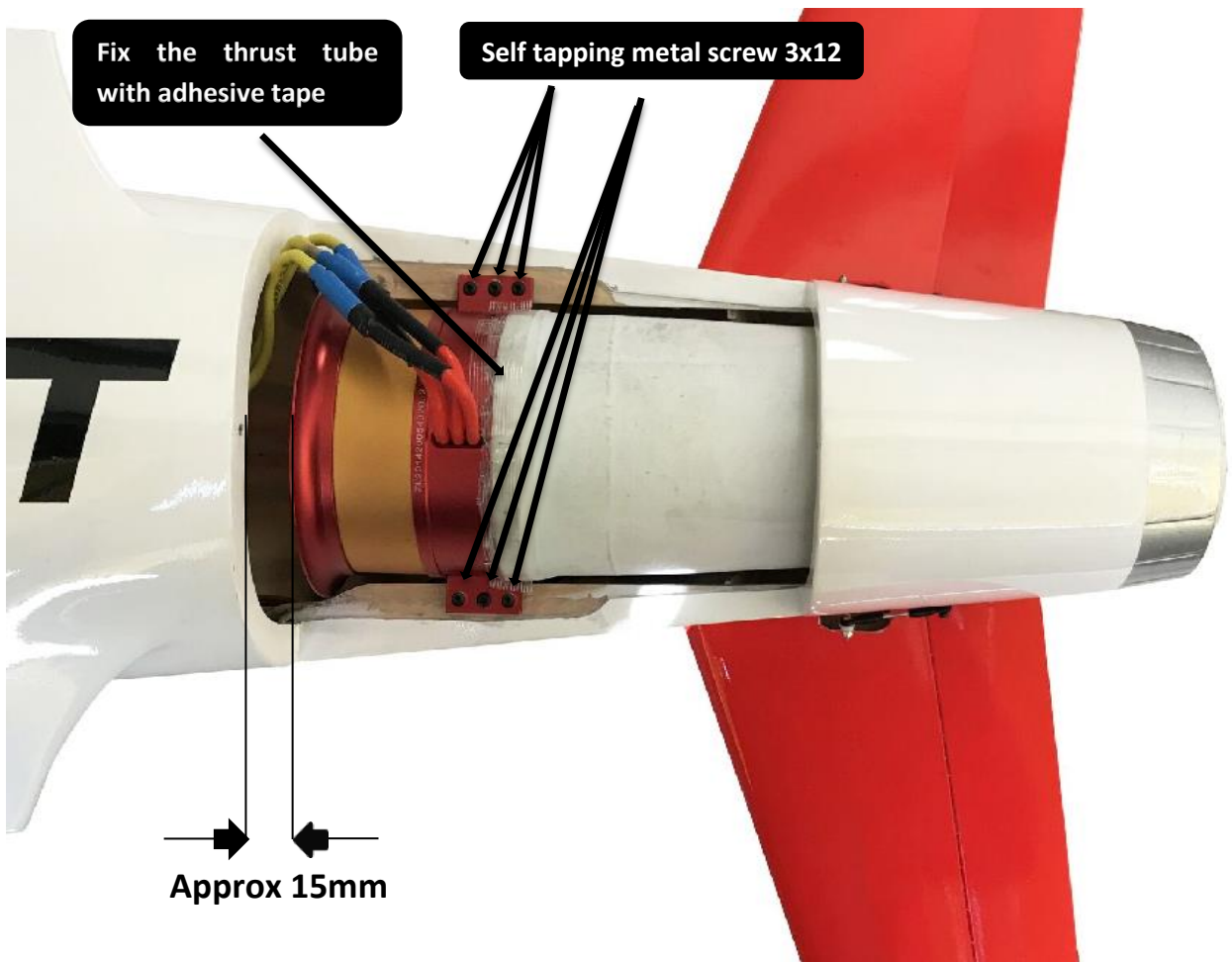
## Thrust tube and fan

**Bag 8:**

6x Self tapping metal screws 3x12mm

Enlarge the hole until thrust tube comes out of Approx 5mm



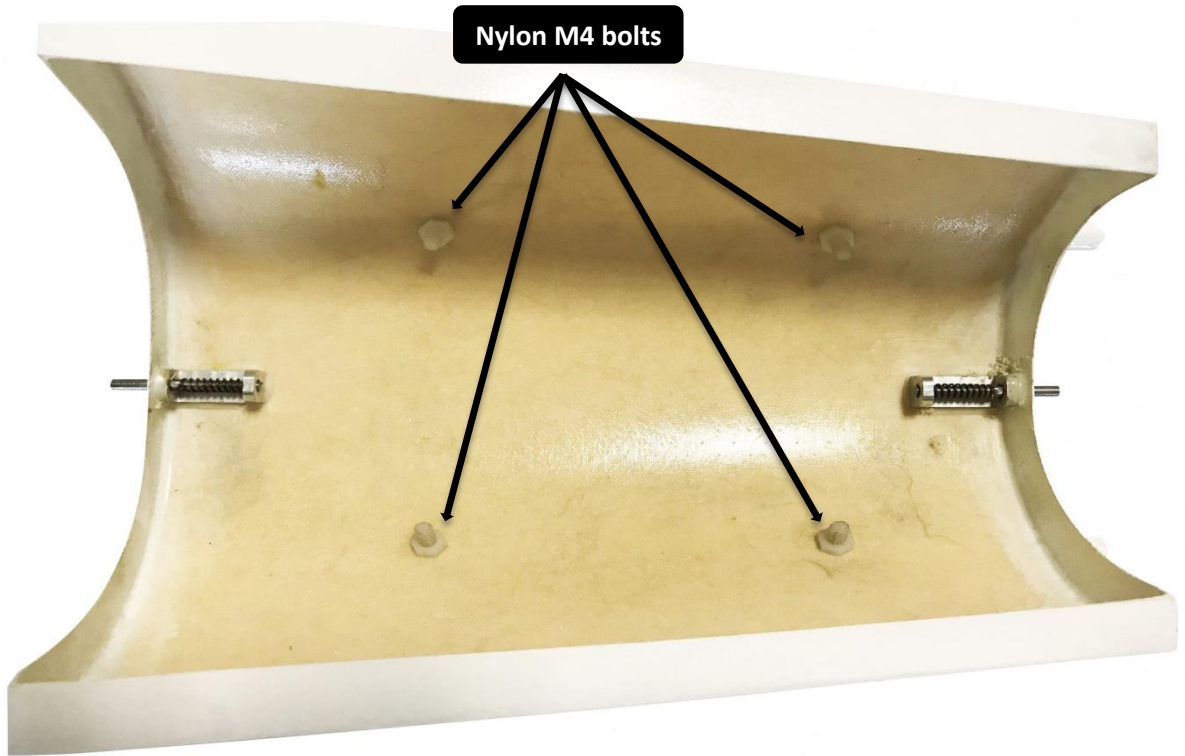


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**Fan cover**

**Bag 9:**

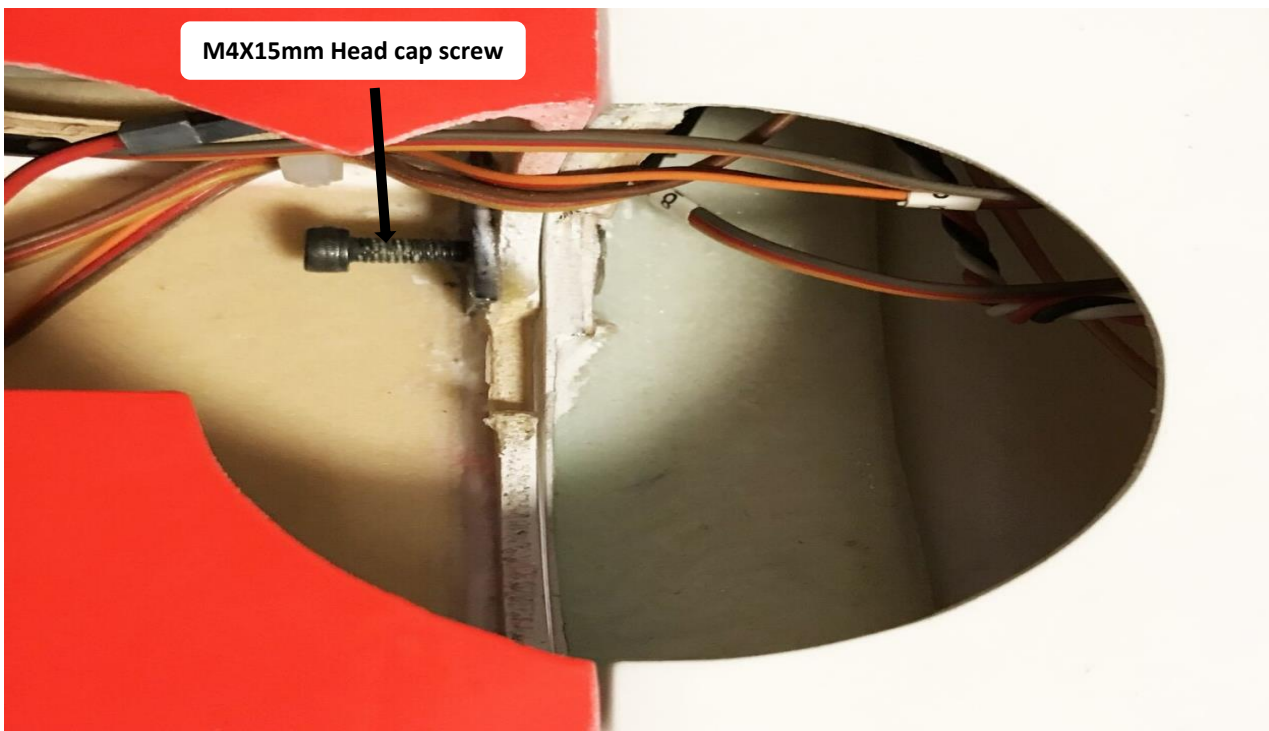
4x Nylon bolt M4



## Wings

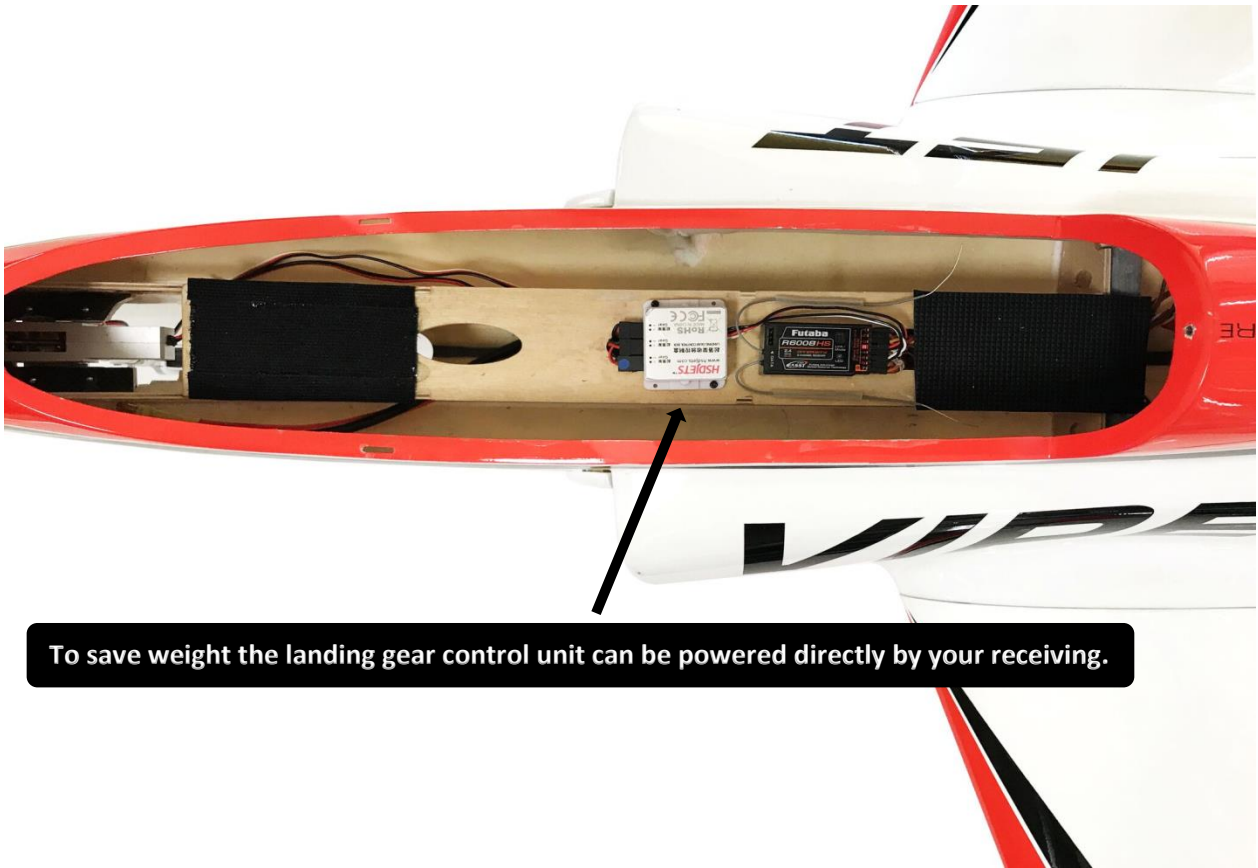
**Bag 10:**

2x M4x15mm Head cap screws



Do the same for both wings.

## Connect receiving, landing gear control unit and apply battery Velcro



## Indicative battery position

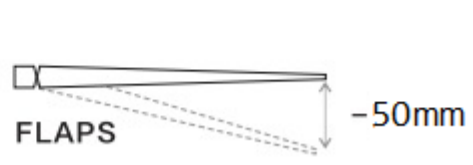
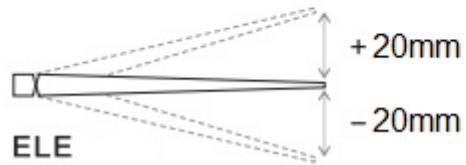
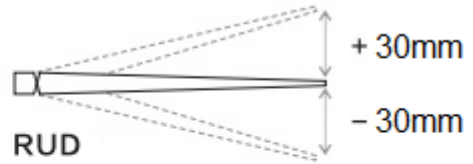
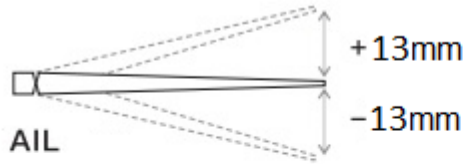




# Controls

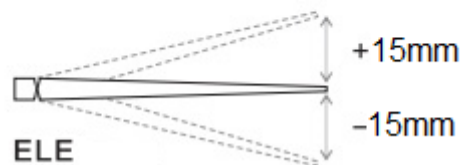
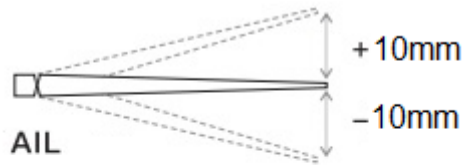
## max surface travel:

Please set as following for: Take off, landing and full-flap flight



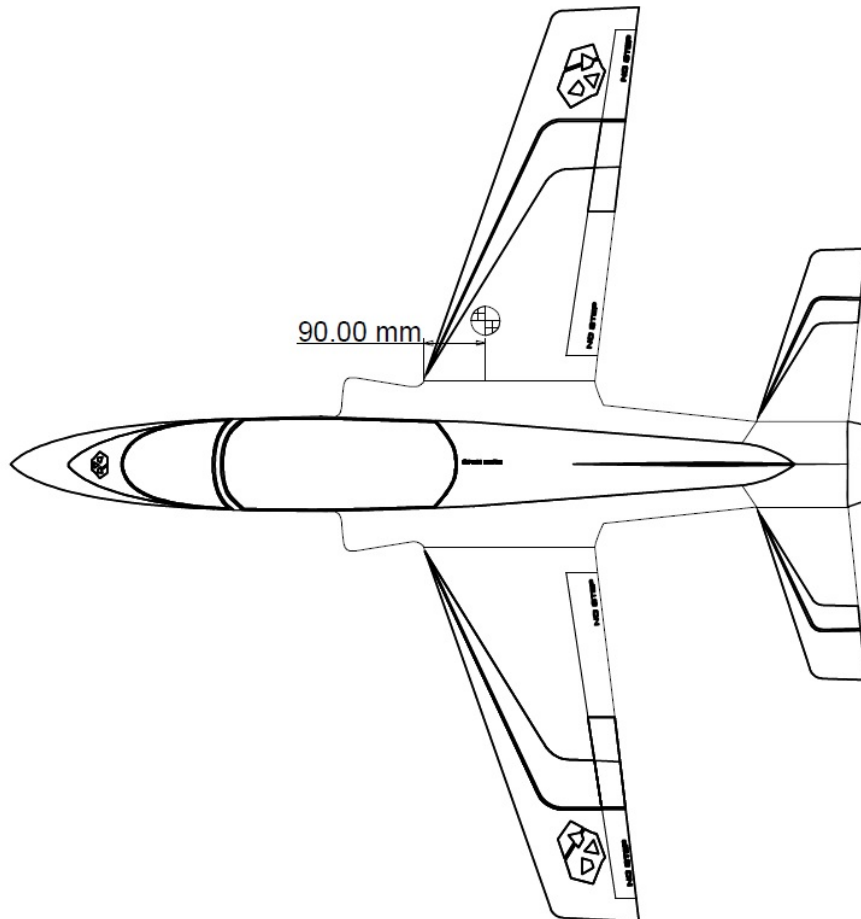
## Dual rate:

Please set as following for: During the flight



## Center of gravity

90mm from leading edge, please see the following draw:



## SAFETY GUIDELINES

- Fly only in areas dedicated to the use of model airplanes.
- Follow all control procedures for the radio frequency system.
- It is necessary that you know your radio system well. Check all functions of the transmitter before every flight.
- Never fly in the vicinity of other people.



## IMPORTANT NOTES

\*This radio controlled airplane is not a toy.

\*This radio controlled airplane can be very dangerous.

\*This radio controlled airplane is a technically complex device which has to be built and handled very carefully.

\*This radio controlled airplane must be built following these instructions. This manual provides the necessary information

to correctly assemble the model. It is necessary to carefully follow all the instructions.

\*Inexperienced pilots must be monitored by expert pilots.

\*All operators must wear safety glasses and take appropriate safety precautions.

\*A radio controlled aircraft must only be used in open spaces without obstacles, and far enough from people to minimize

the possibility of accidents or of injury to property or persons.

\*A radio controlled aircraft can be have in an unexpected manner, causing loss of control of the model, making it very dangerous.

\*Lack of care with assembly or maintenance can result in an unreliable and dangerous model.

\*Neither HARLOCK-RC nor its agents have any control over the assembly, maintenance and use of this product.

Therefore, no responsibility can be traced back to the manufacturer. You hereby agree to release HARLOCK-RC from any responsibility or liability arising from the use of this product.