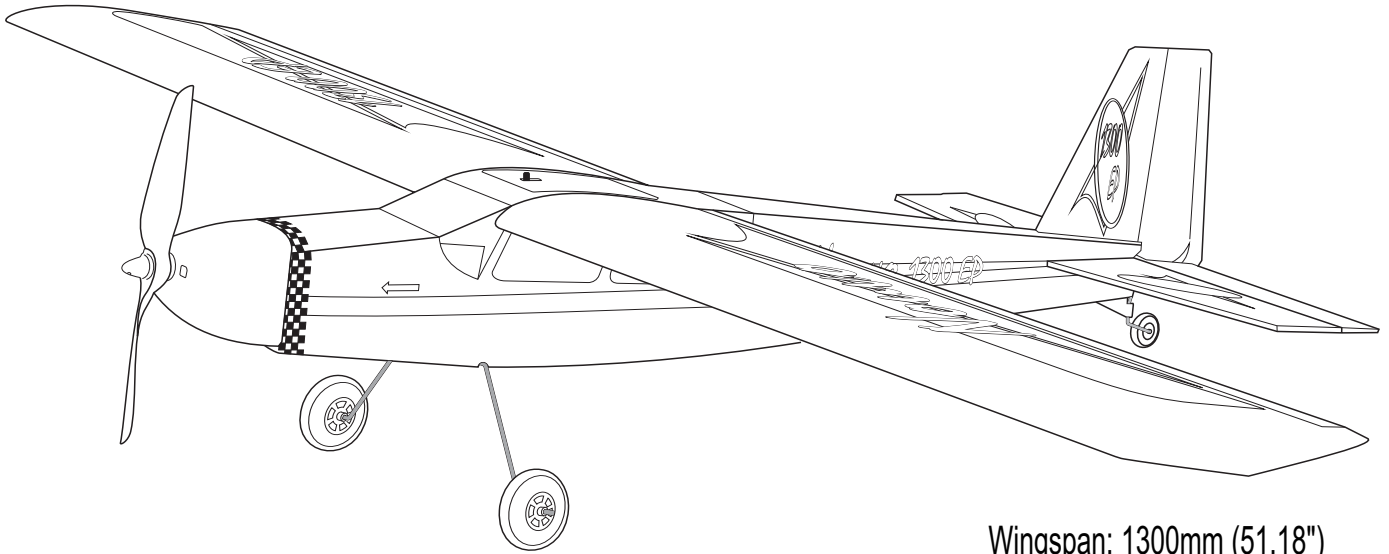


# Newvo 1300 EP

Before beginning assembly, please read these instructions thoroughly.



Wingspan: 1300mm (51.18")  
Length: 870mm (34.25")  
Wing Area: 24.7dm<sup>2</sup> (383Sq Inch)  
Weight: 850-950g (1.9-2.1lbs)  
Motor: 350-500watts  
Radio: 4 channels , 4 servos

INSTRUCTION MANUAL

**ARTF**  
ALMOST-READY-TO-FLY



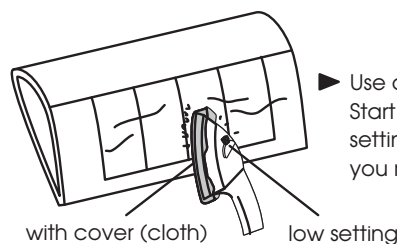
## UNDER SAFETY PRECAUTIONS

This radio control model is not a toy!

- It is highly recommended that first-time builders seek advice of experienced modelers before beginning assembly.
- Assemble this kit only in places out of children's reach!
- Take enough safety precautions prior to operating this model. You are responsible for this model's assembly and safe operation!
- Always keep this instruction manual ready at hand for quick reference, even after completing the assemble.
- Taking out liability insurance is recommended.

**\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.**

The pre-covered film on ARF kits may wrinkle due to variations of temperature. Smooth out as explained at right.



► Use an iron covered with a cloth!  
Start at low setting. Increase the setting if necessary. If it is too high, you may damage the film.

# ITEM REQUIRED FOR OPERATION (Not included in kit!)



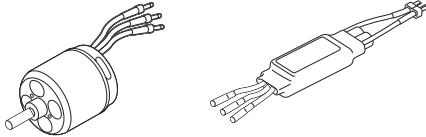
**CAUTION :** For details concerning the equipment listed below (size, make, etc.) check with your hobby shop.

**EP** version

A minimum 4 channel radio for airplanes (with 5 standard servos), and nicad or alkaline batteries are required.

4-channel (minimum) radio system for aircraft 4 servos (standard servos). Please be sure to use servos with enough torque (3.0 - cm minimum).

■ Y-Harness 2pcs

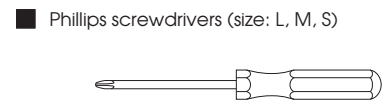
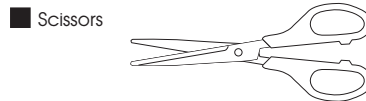


■ Suitable Outer Rotor Motor.  
Motor : KV / 600~900

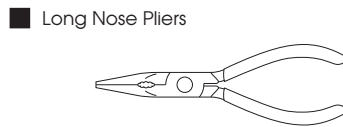
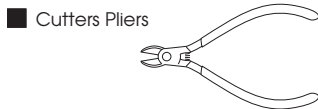
■ Use outer rotor motor power between 350~450 w

■ ESC More than 30A

## TOOLS REQUIRED (Purchase separately!)



■ Hex Wrench (2, 2.5, 3mm)

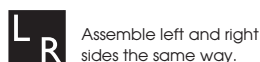
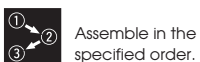
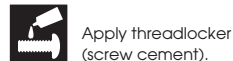
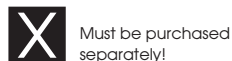
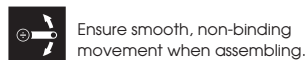
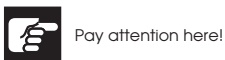


■ Drill,Bits (2,3,4,6mm)

## BEFORE YOU BEGIN

accepts no responsibility for accidents, damage or breakage if other manufacturers parts are used.

- 1** Read through the manual before you begin, so you will have an overall idea of what to do.
- 2** Check all parts. If you find any defective or missing part, contact your local dealer or our VMARSHOP.
- 3** Symbols used throughout this instruction manual, comprise:

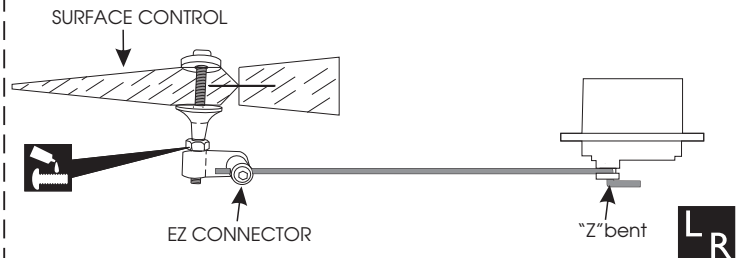
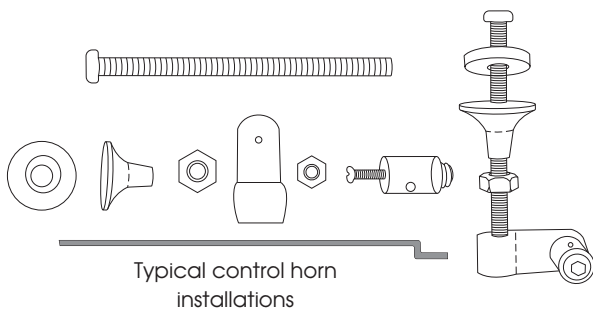
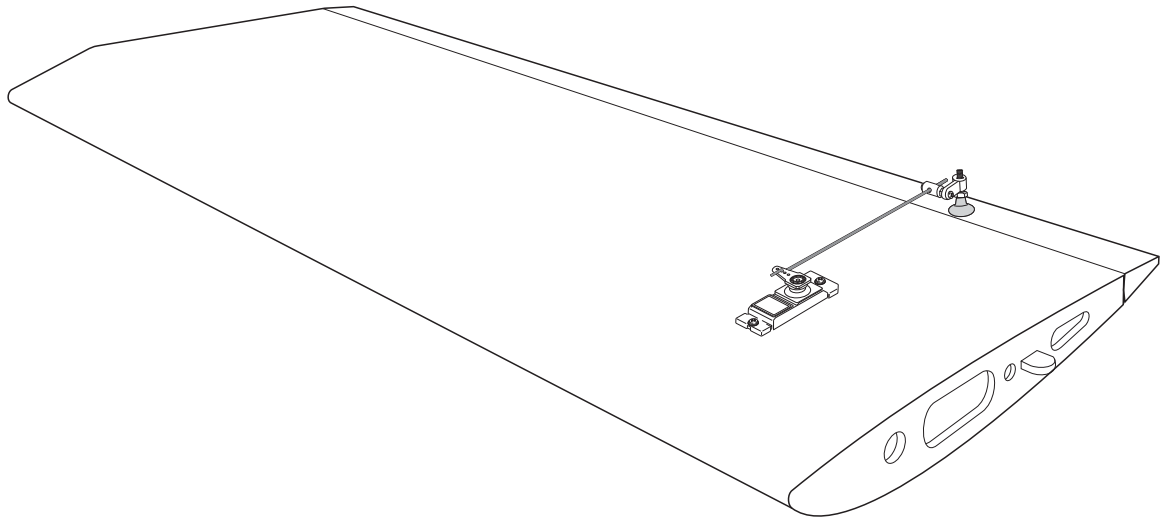


**1** Install aileron servo to the wing



**Warning!**

Set all screws securely. If they come off during flight you will lose control of your aircraft!



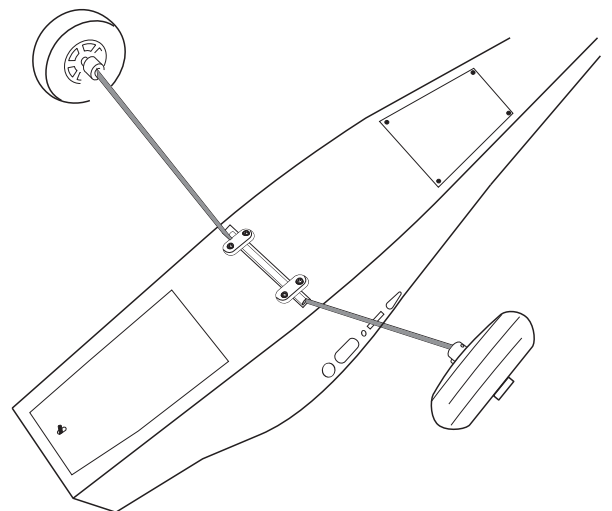
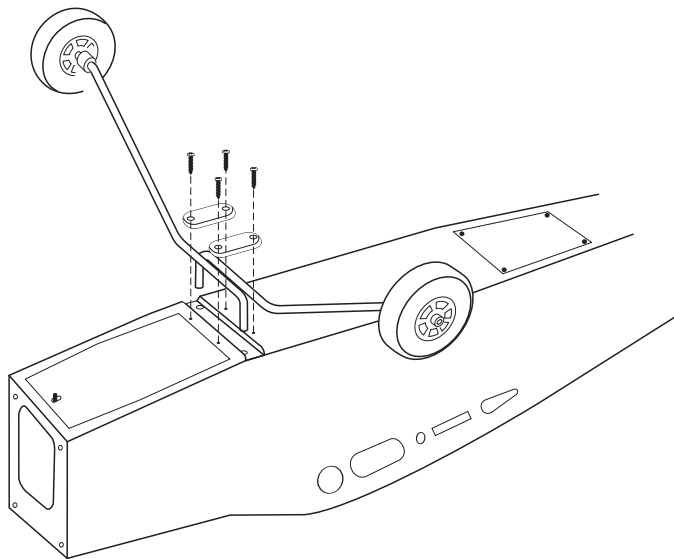
**2** Install the main landing gear

**L R**

2 x 10mm

TP Screw

4



Cut off shaded portion.

Drill holes with the specified diameter.

**L R** Assemble left and right sides the same way.

Pay close attention here!

Must be purchased separately!

**x4** Assemble as many time as specified.

**3**

Install the vertical and horizontal stabilizer to the fuselage

2 x 10mm



TP Screw

2

2mm



Plastic washer

2

Aileron control rod

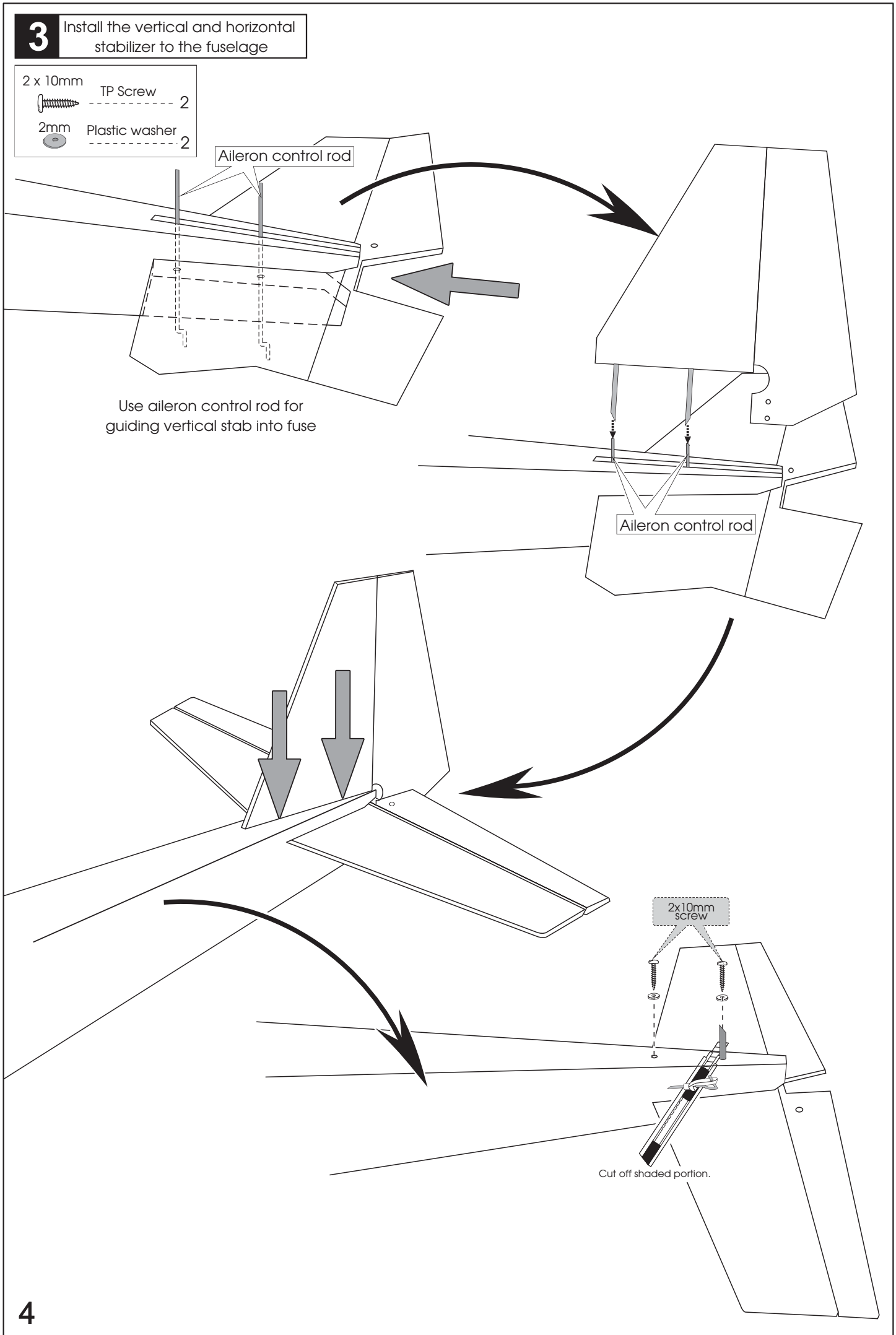
Use aileron control rod for guiding vertical stab into fuse

Aileron control rod

2x10mm screw

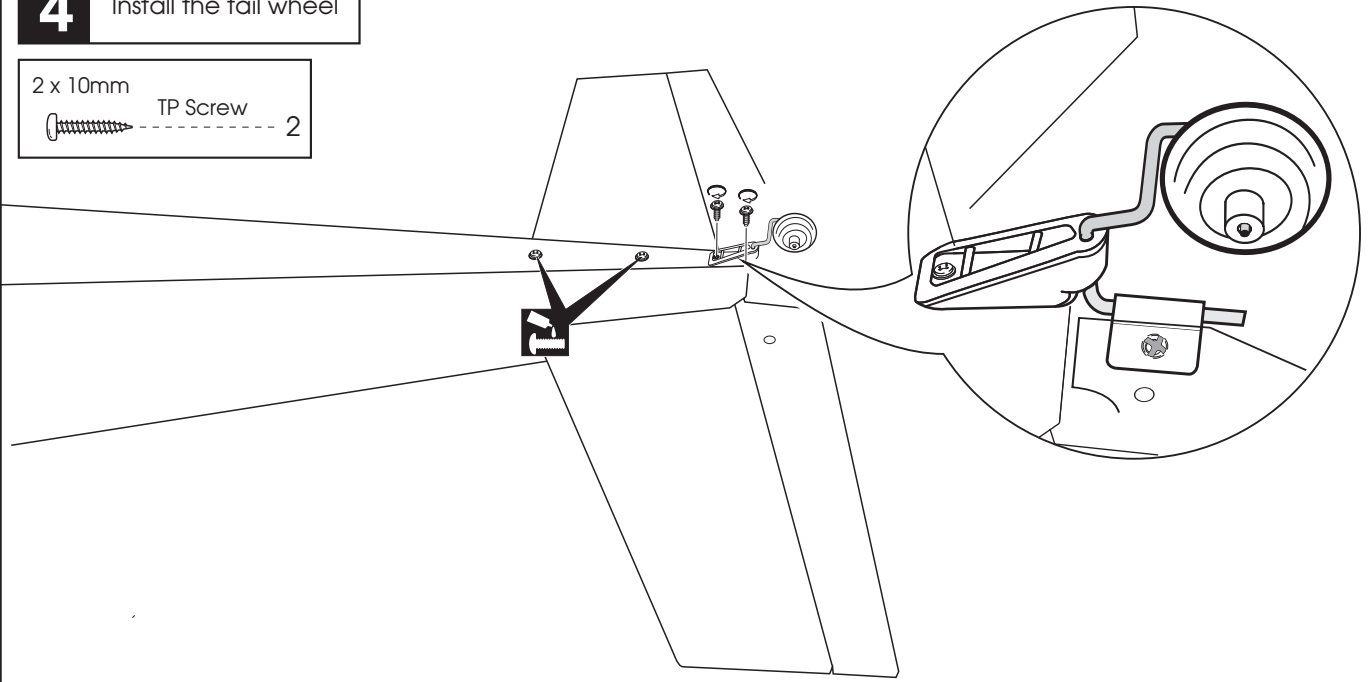
Cut off shaded portion.

**4**

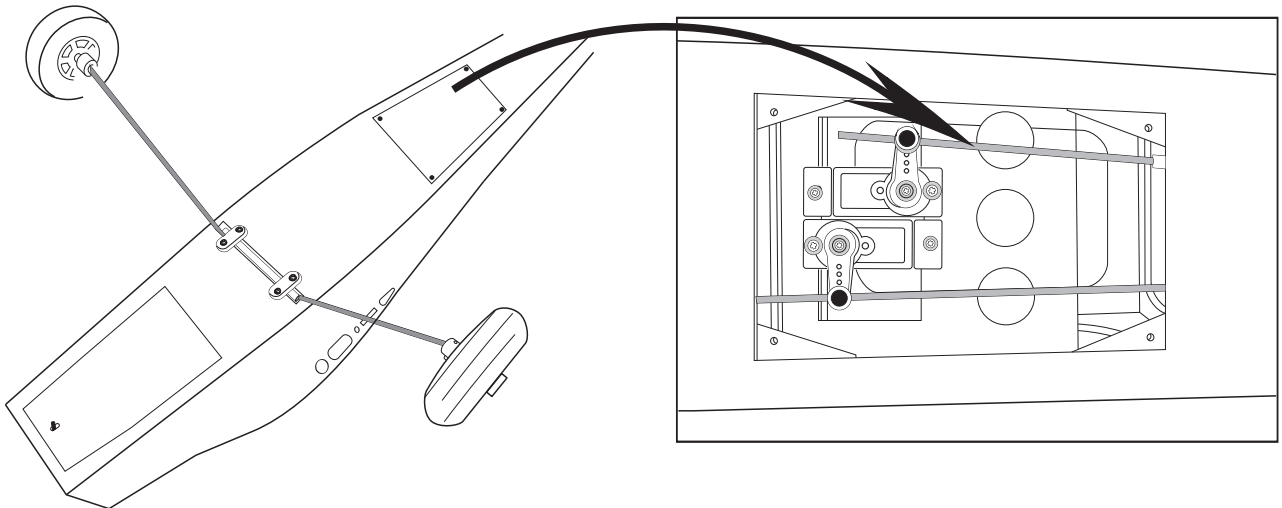


**4** Install the tail wheel

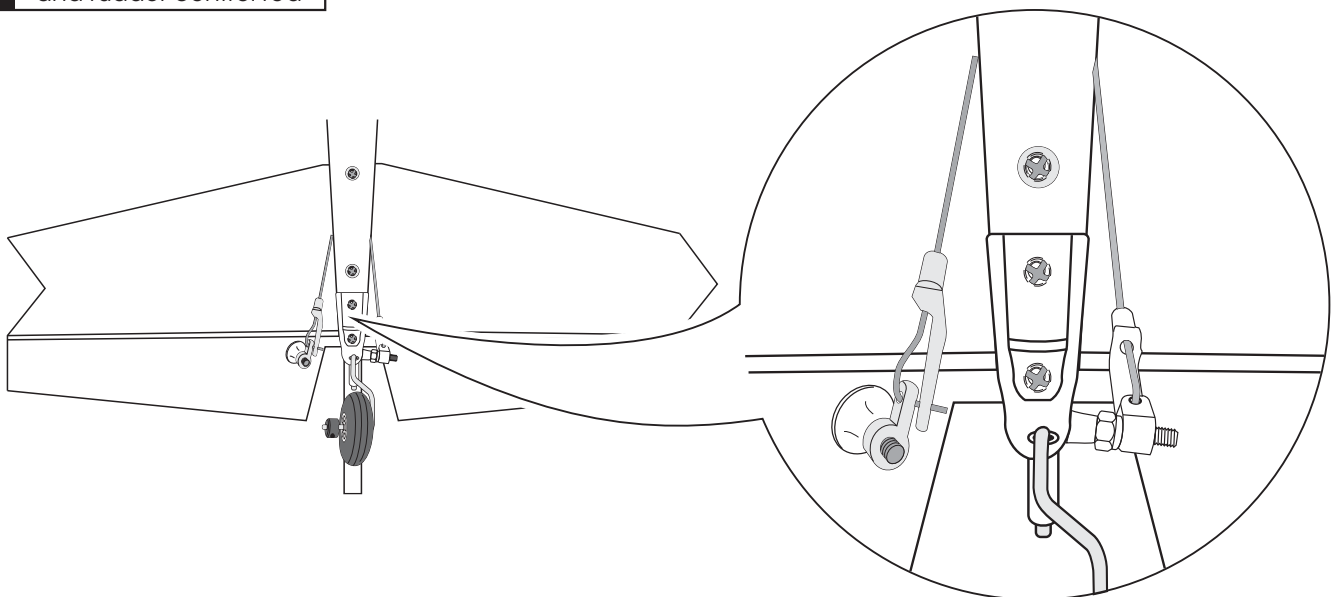
2 x 10mm  
TP Screw 2



**5** Install the elevator and rudder servos

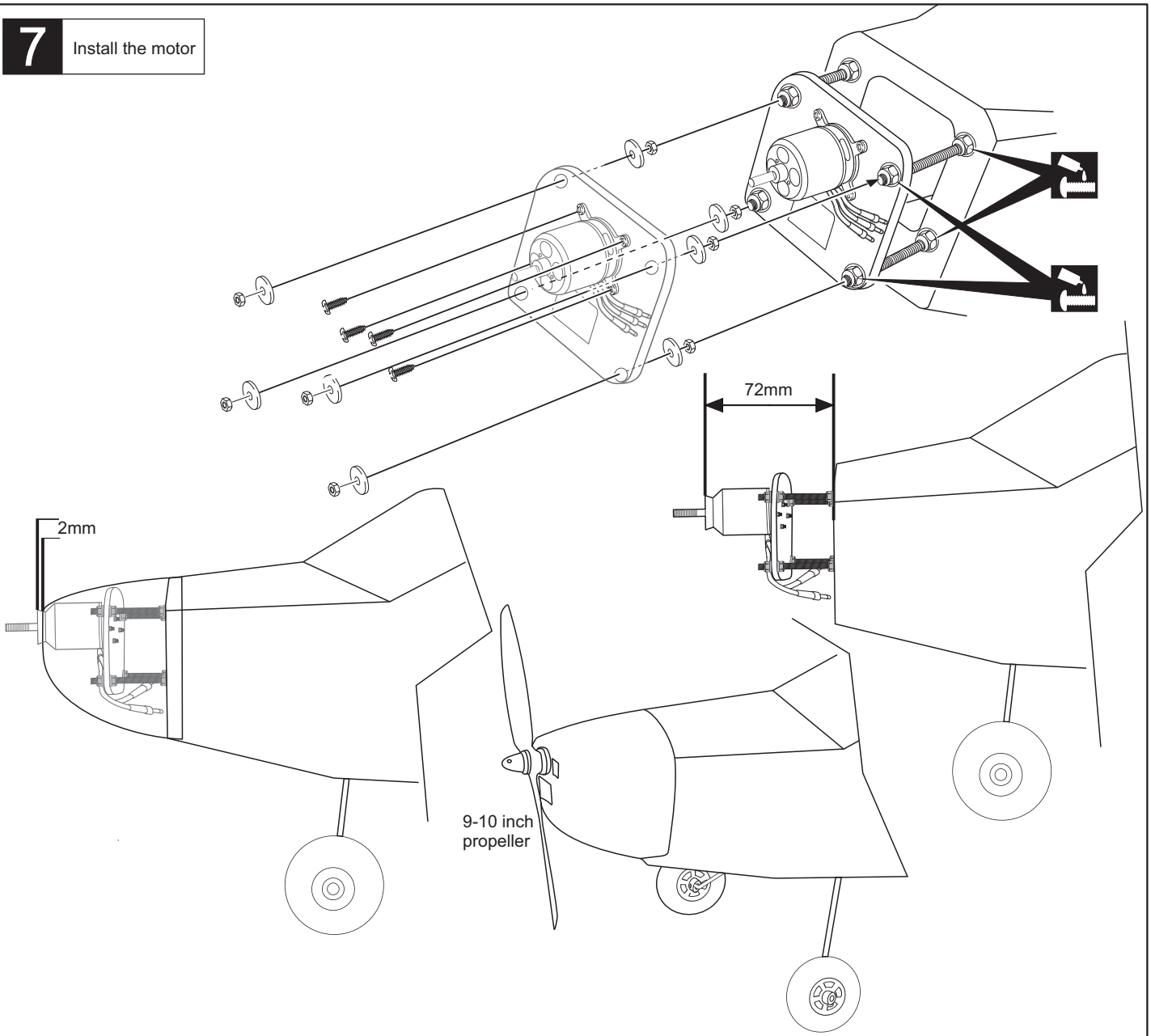


**6** Connecting the elevator and rudder control rod



7

Install the motor




8

Attached the wing to the fuselage

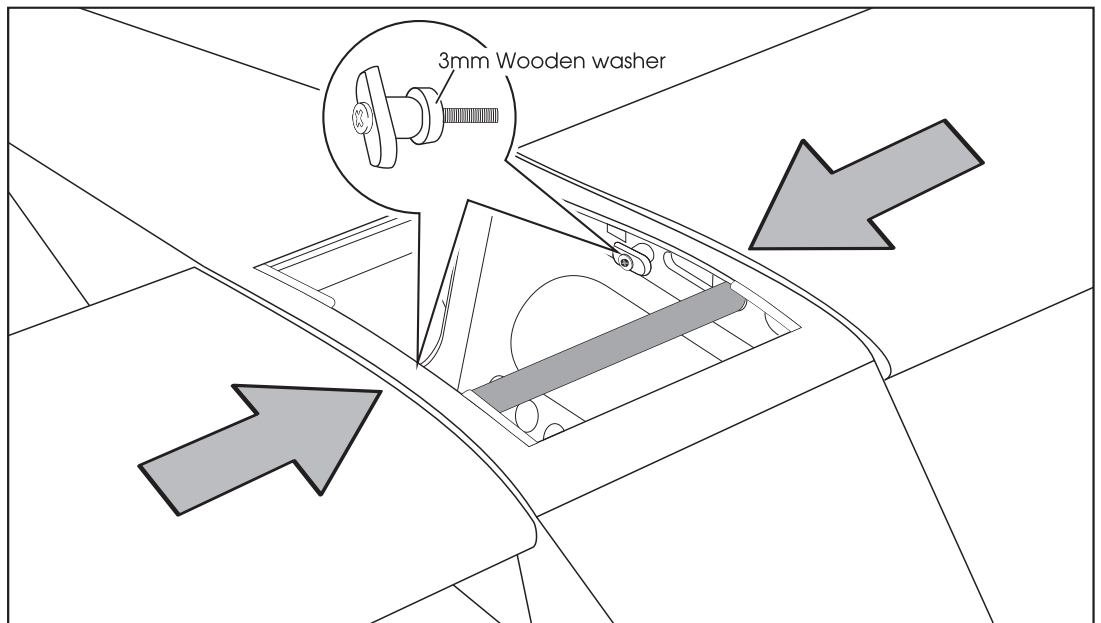
**NO GLUE NEEDED FOR THIS ASSEMBLY**

Aluminum wing joiner tube  
size 9mm diameter and 335mm long

 3x20 wing bolt assembly

 3mm Wooden washer

1. Insert the wing tube onto right wing panel then tighten with the wing bolt to secure to the fuselage
2. Same procedure secure the left wing panel to the fuselage



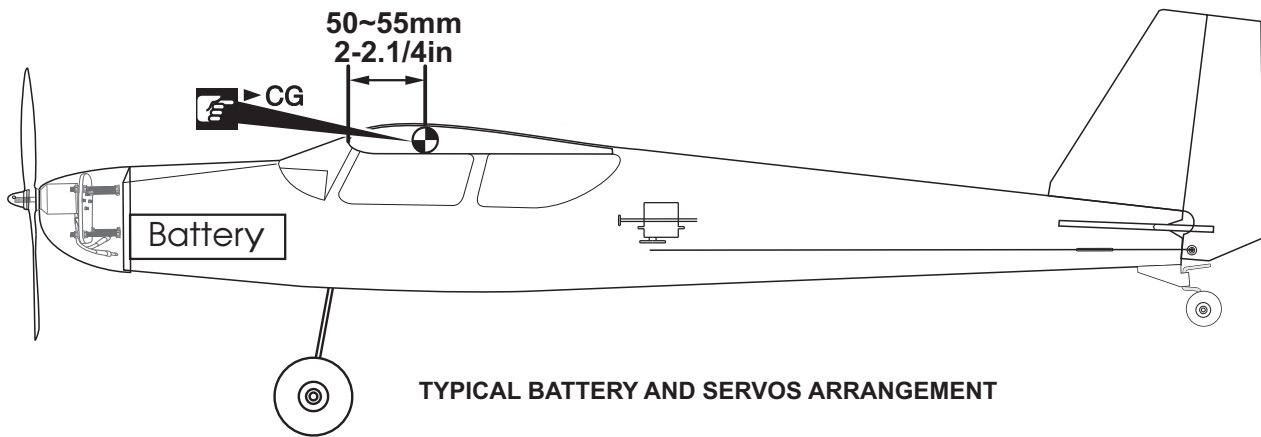
6

# 9

## C of G position



In order to obtain the CG specified, reposition the receiver and other equipment



**TYPICAL BATTERY AND SERVOS ARRANGEMENT**



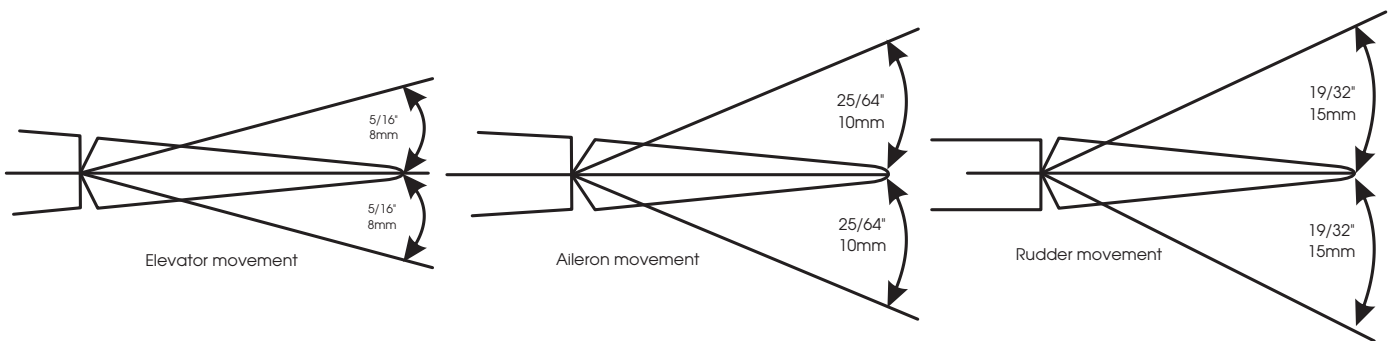
### Warning!

Do not fly before confirming the correct location of the CG. If the CG is incorrect, you lose control of your airplane which leads to accidents!

# 10

## Surface control movement

## SURFACE CONTROL MOVEMENT



	High rate	Low rate
ELEVATOR	5/16" ( 8mm ) up 5/16" ( 8mm ) down	15/64" ( 6mm ) up 15/64" ( 6mm ) down
RUDDER	19/32" ( 15mm ) right 19/32" ( 25mm ) left	7/16" ( 11mm ) right 7/16" ( 11mm ) right
ALERON	25/64" ( 10mm ) up 25/64" ( 10mm ) down	5/16" ( 8mm ) up 5/16" ( 8mm ) down