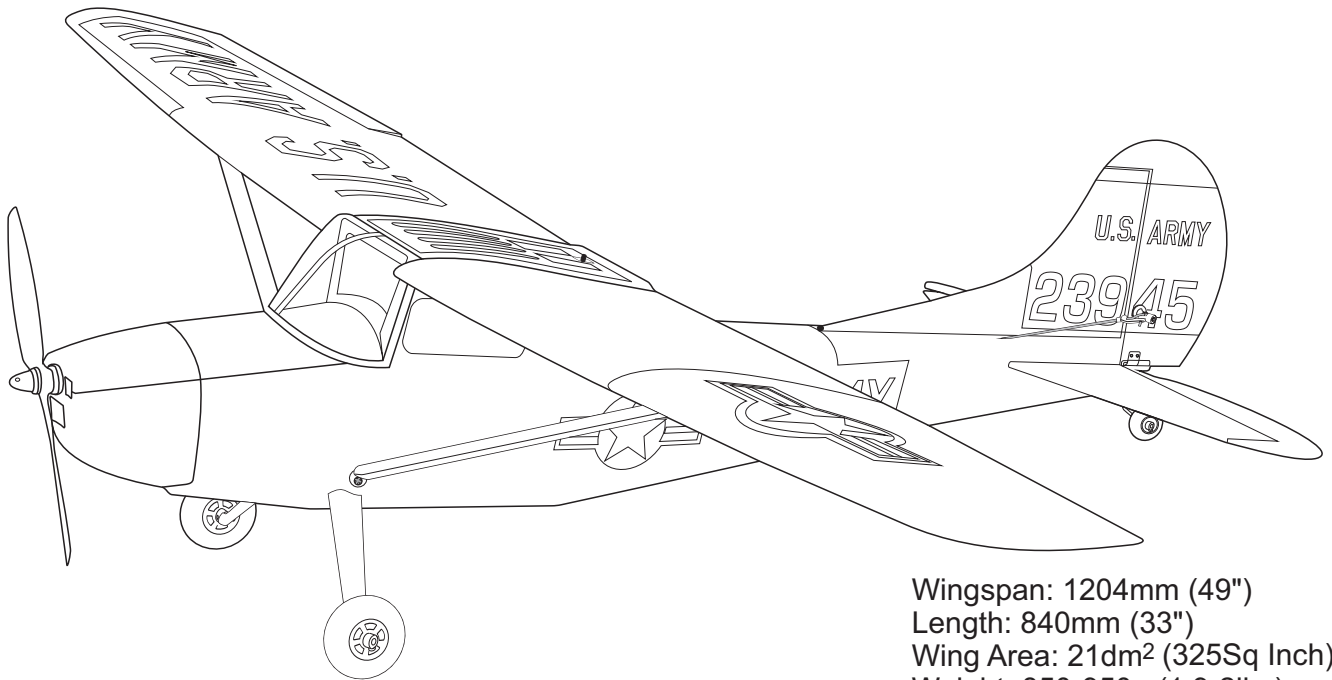


# CESSNA L19 BIRD DOG

Before beginning assembly, please read these instructions thoroughly.



Wingspan: 1204mm (49")  
Length: 840mm (33")  
Wing Area: 21dm<sup>2</sup> (325Sq Inch)  
Weight: 850-950g (1.9-2lbs)  
Motor: 350-450watts  
Radio: 4 chanel's , 4 servos

INSTRUCTION MANUAL

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



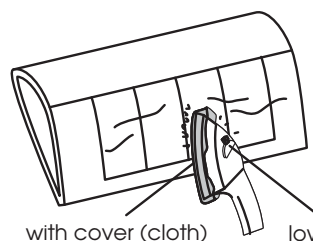
## UNDER SAFETY PRECAUTIONS

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!)



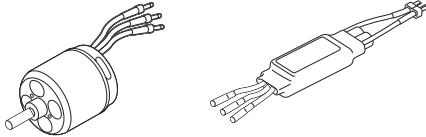
**CAUTION :** For details concerning the equipment listed below (size, make, etc.) check with your hobby shop.

**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

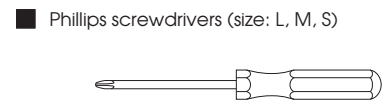
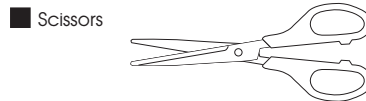


■ Suitable Outer Rotor Motor.  
Motor : KV / 600~900

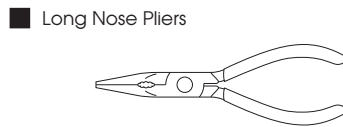
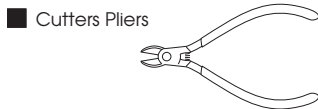
■ Use outer rotor motor power between 350~450 w

■ ESC More than 30A

## TOOLS REQUIRED (Purchase separately!)



■ Hex Wrench (2, 2.5, 3mm)

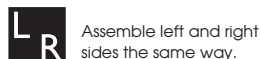
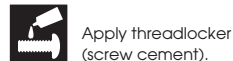
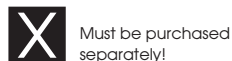
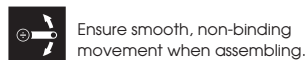
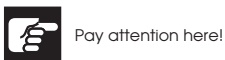


■ Drill,Bits (2,3,4,6mm)

## 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:

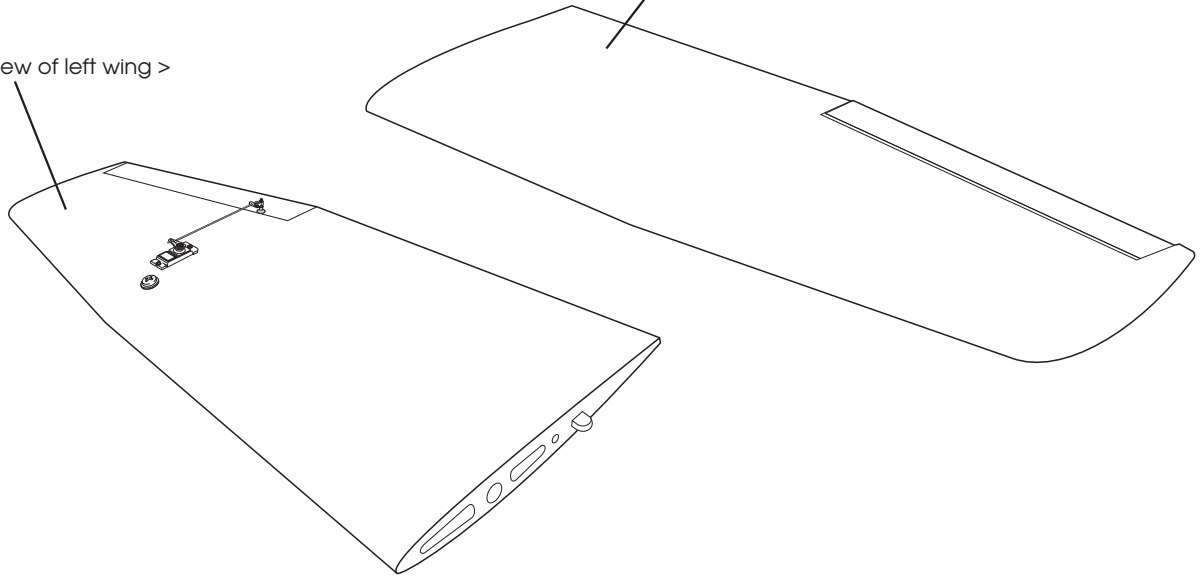


# 1

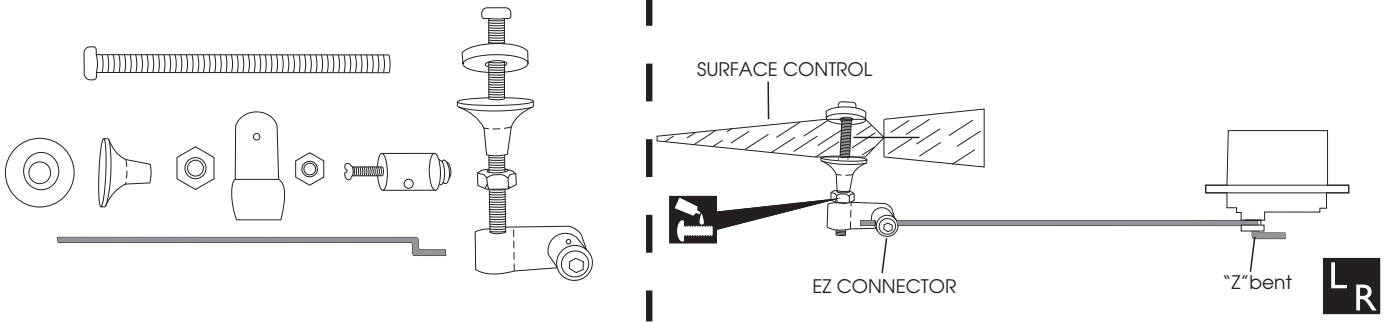
## Installing Servo to the wing

< Top view of left wing >

< Bottom view of left wing >



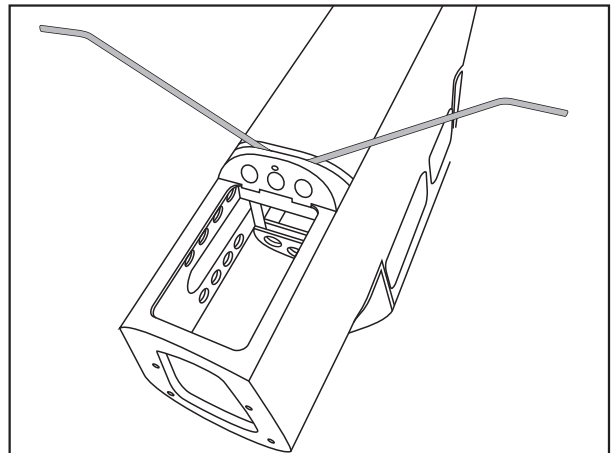
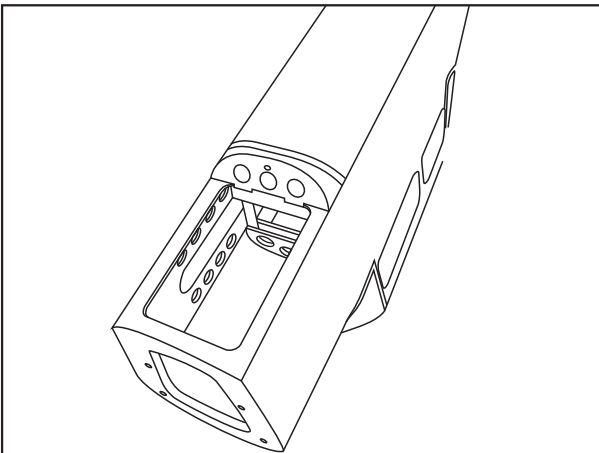
Typical control horn installations



# 2

## Assembly landing gear

- 2 x 15mm TP Screw ..... 2
- 2 x 10mm TP Screw ..... 2
- 2mm Plastic washer ..... 2



Cut off shaded portion.



Drill holes with the specified diameter.



Assemble left and right sides the same way.



Pay close attention here!

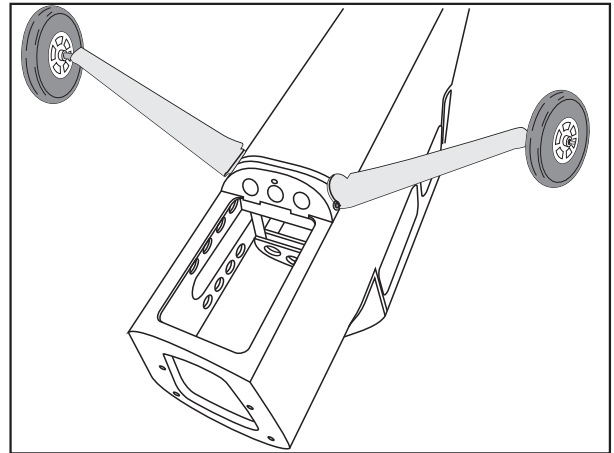
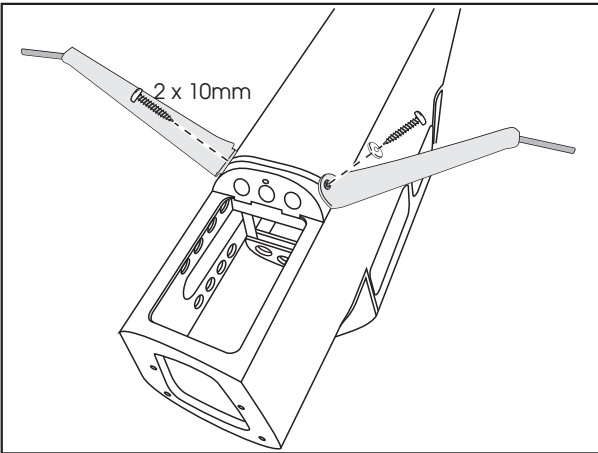
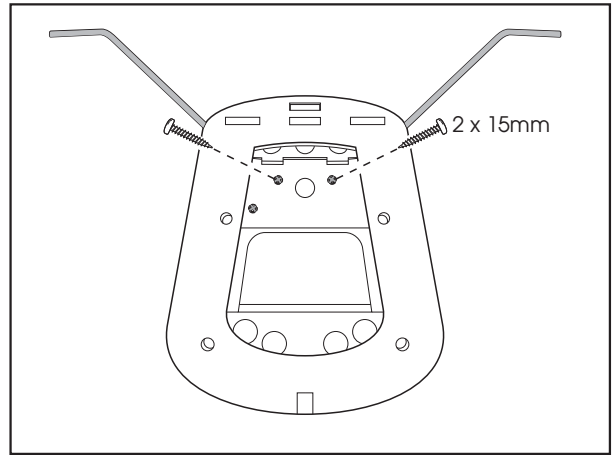
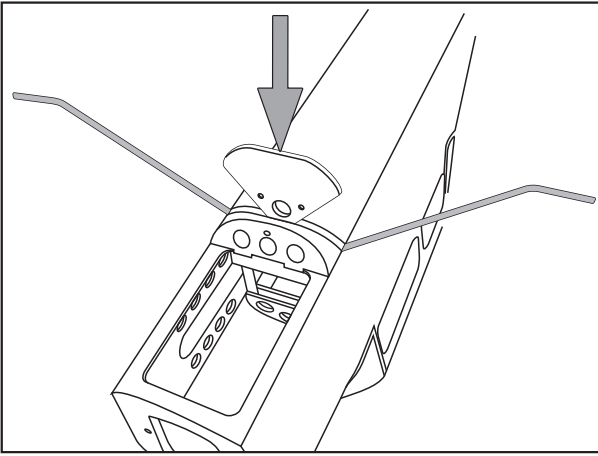


Must be purchased separately!



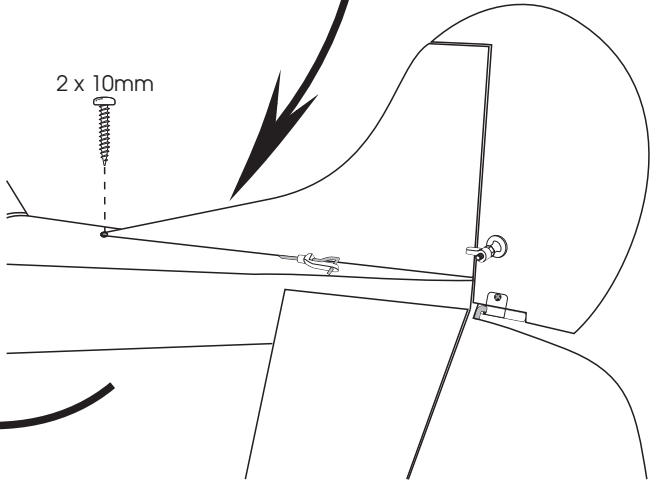
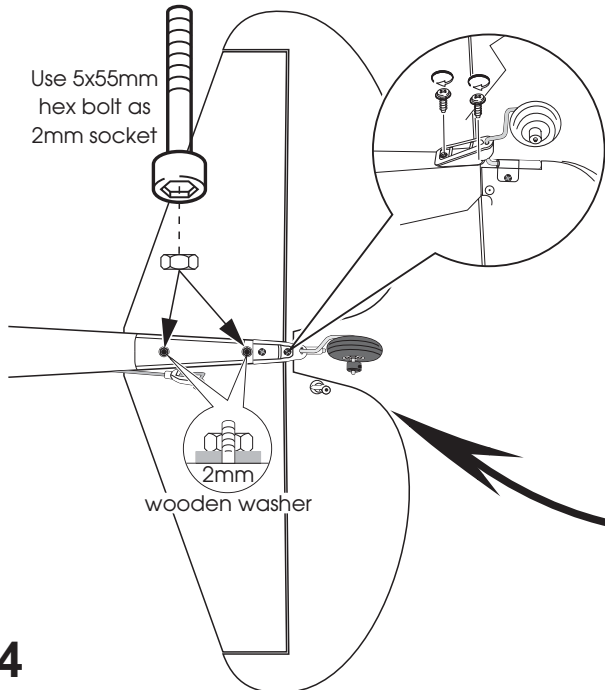
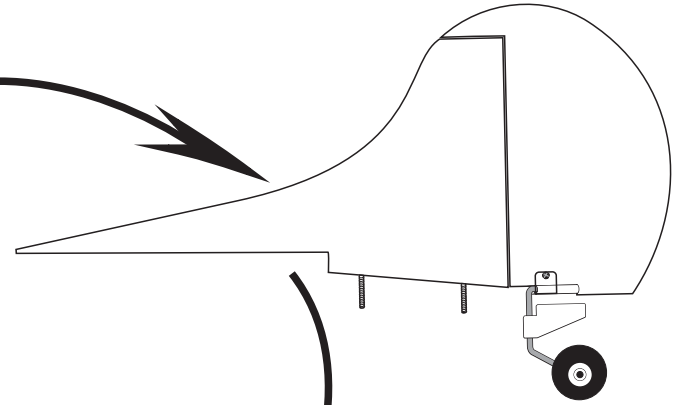
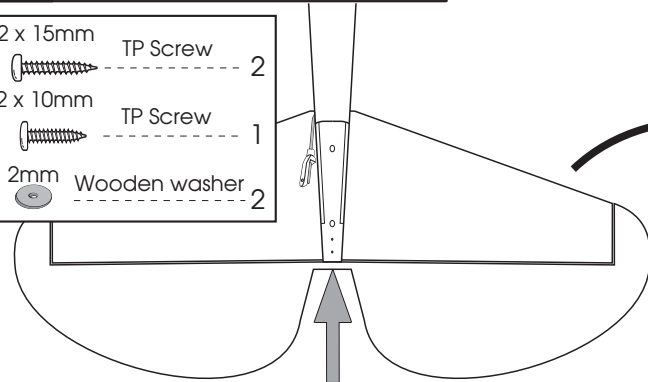
Assemble as many times as specified.

# 3



**3** Install the horizontal and vertical stab also tail wheel to the fuselage

- 2 x 15mm TP Screw ..... 2
- 2 x 10mm TP Screw ..... 1
- 2mm Wooden washer ..... 2



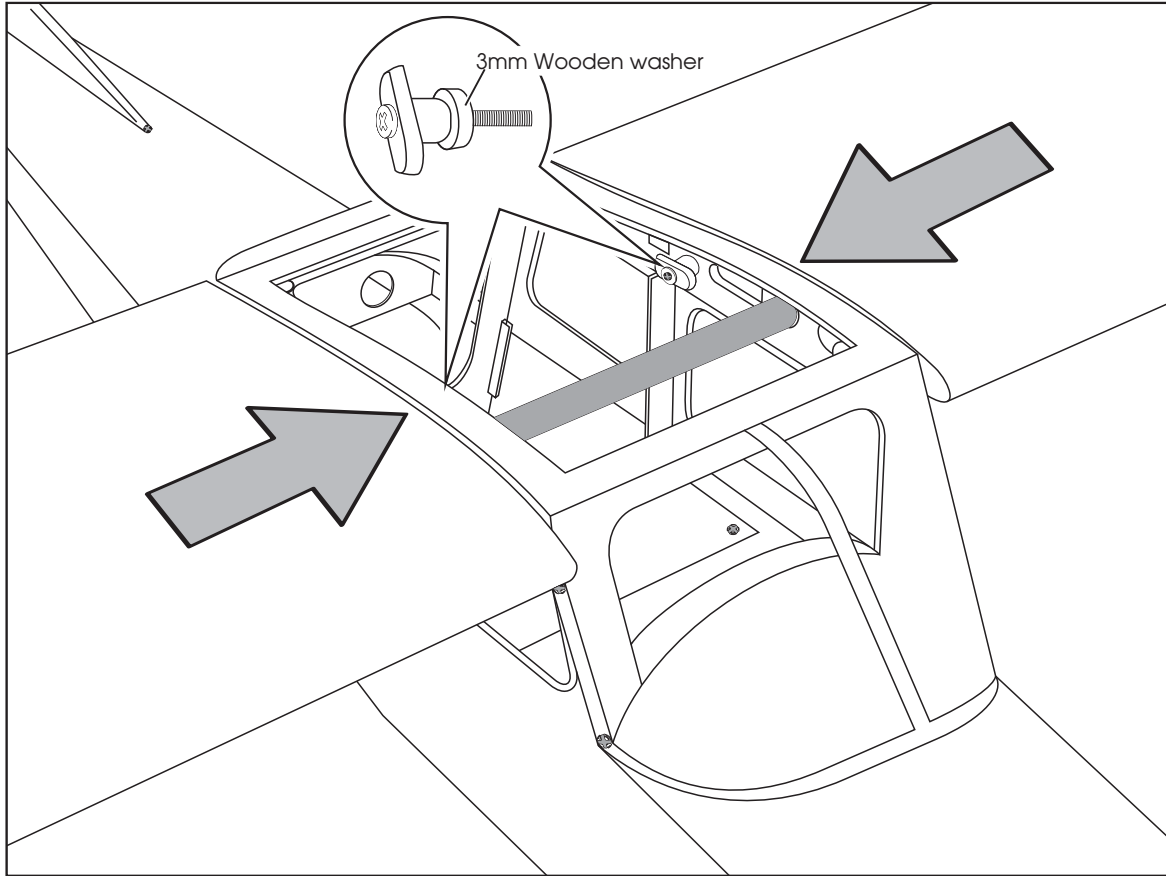
# 4 Attached the wing to the fuselage

**NO GLUE NEEDED FOR THIS ASSEMBLY**

Aluminum wing joiner tube  
size 8mm diameter and 300mm long

 3x20 wing bolt assembly  3mm Wooden washer


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



L R

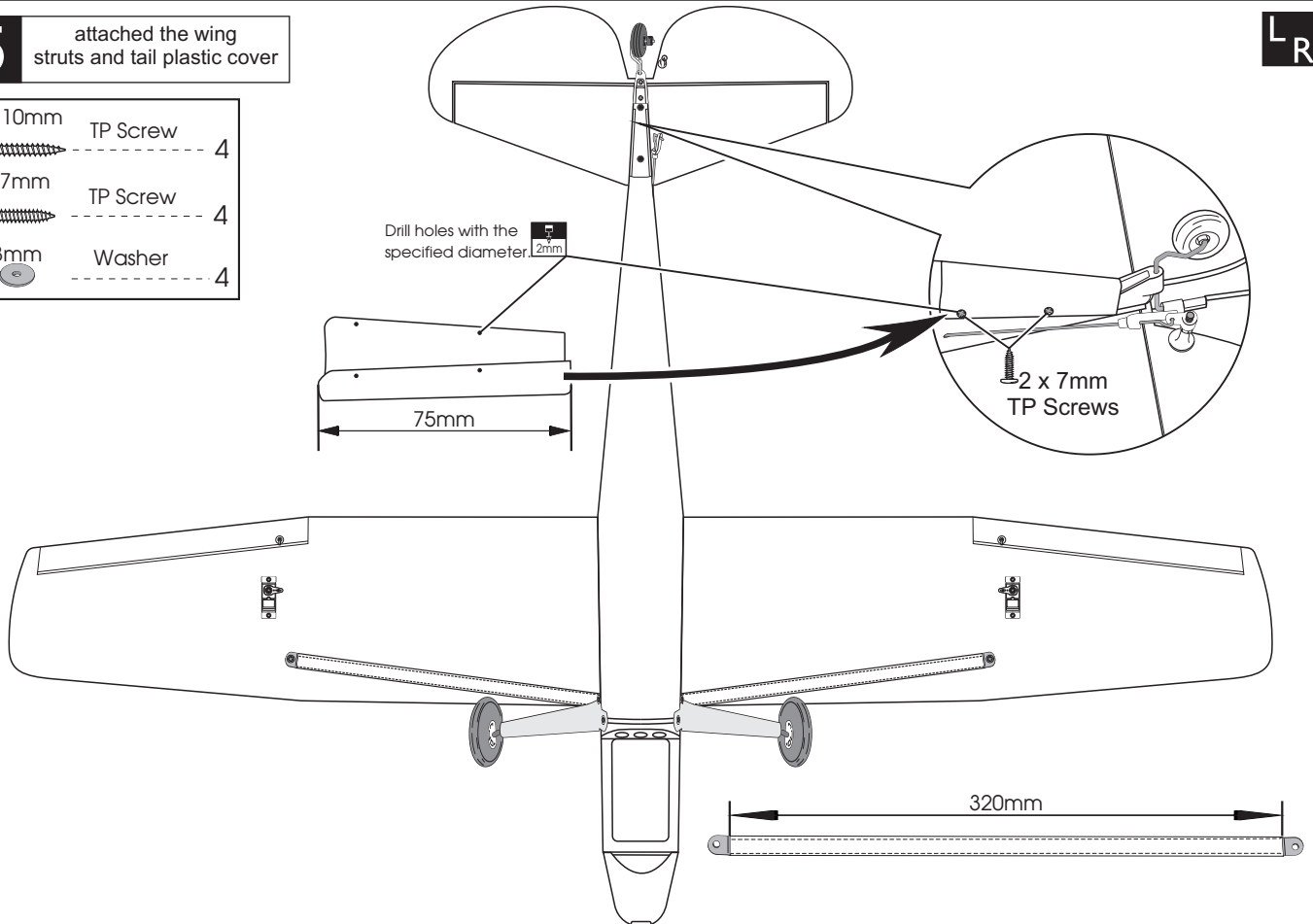
# 5 attached the wing struts and tail plastic cover

- |                   |   |
|-------------------|---|
| 3 x 10mm TP Screw | 4 |
| 2 x 7mm TP Screw  | 4 |
| 3mm Washer        | 4 |

Drill holes with the specified diameter 

75mm

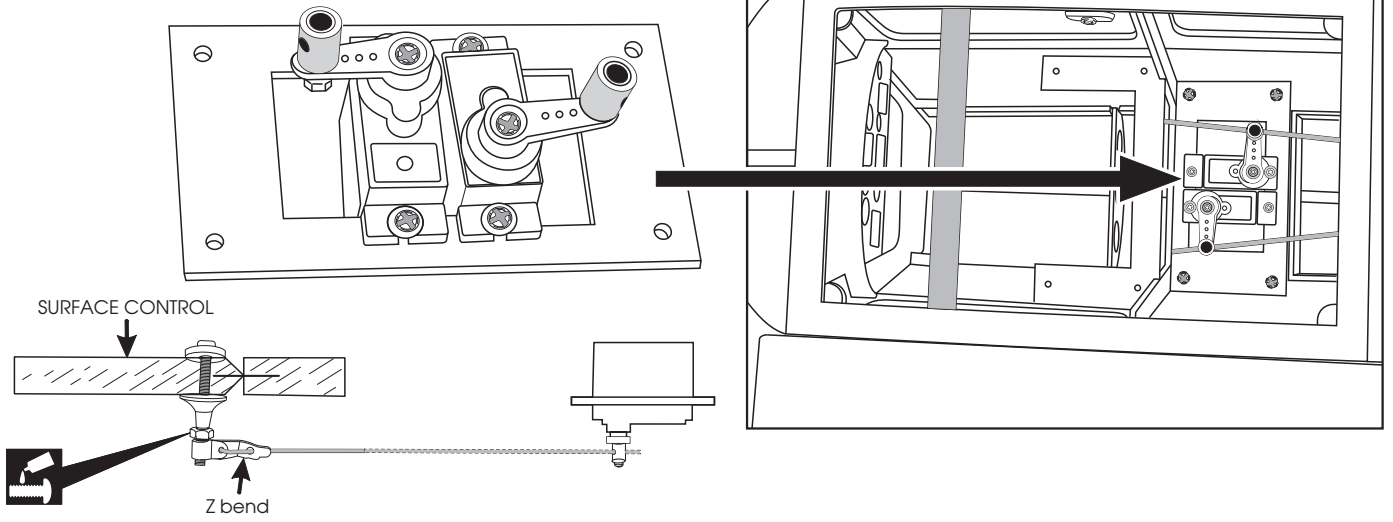
2 x 7mm TP Screws



L R

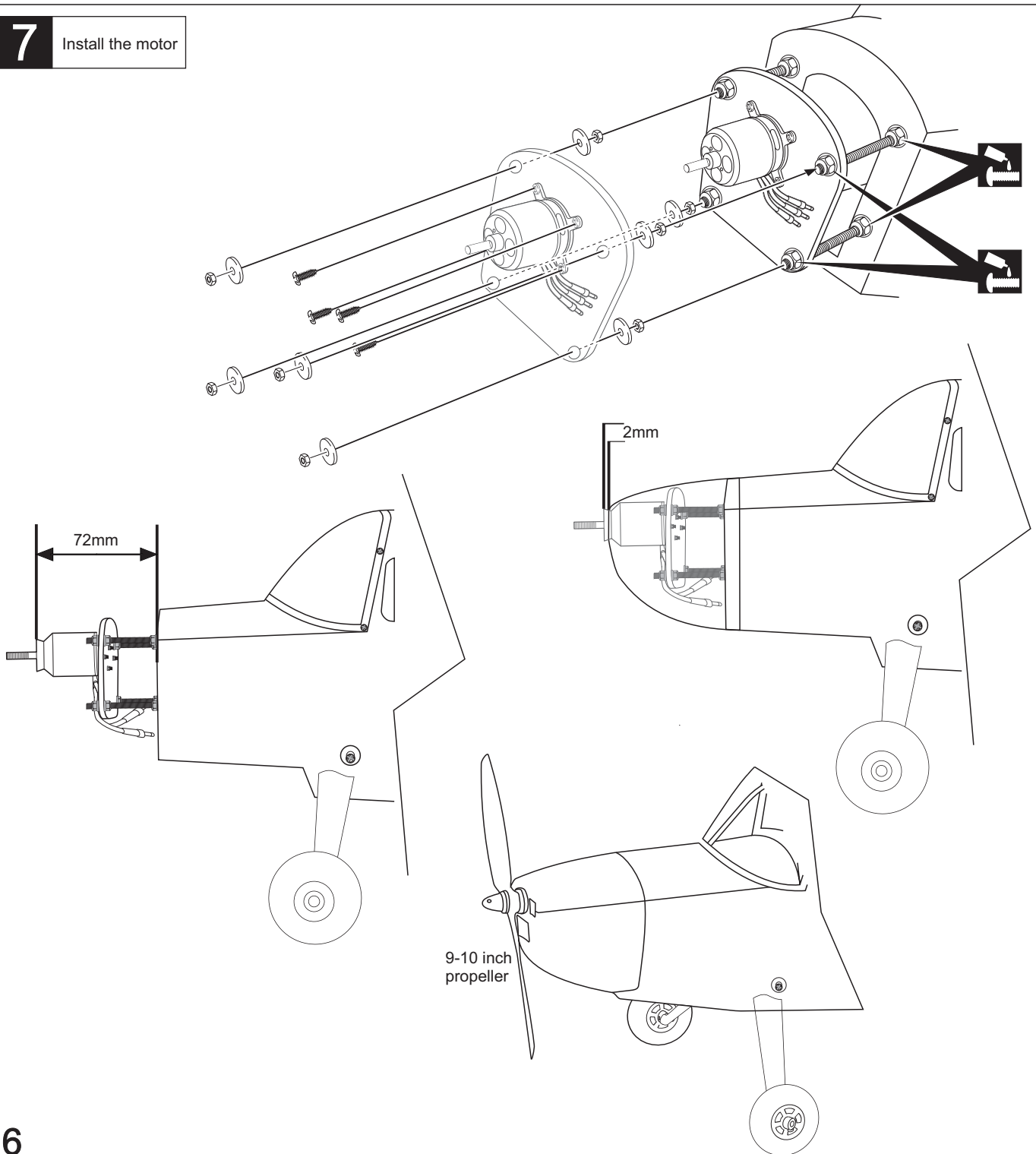
6

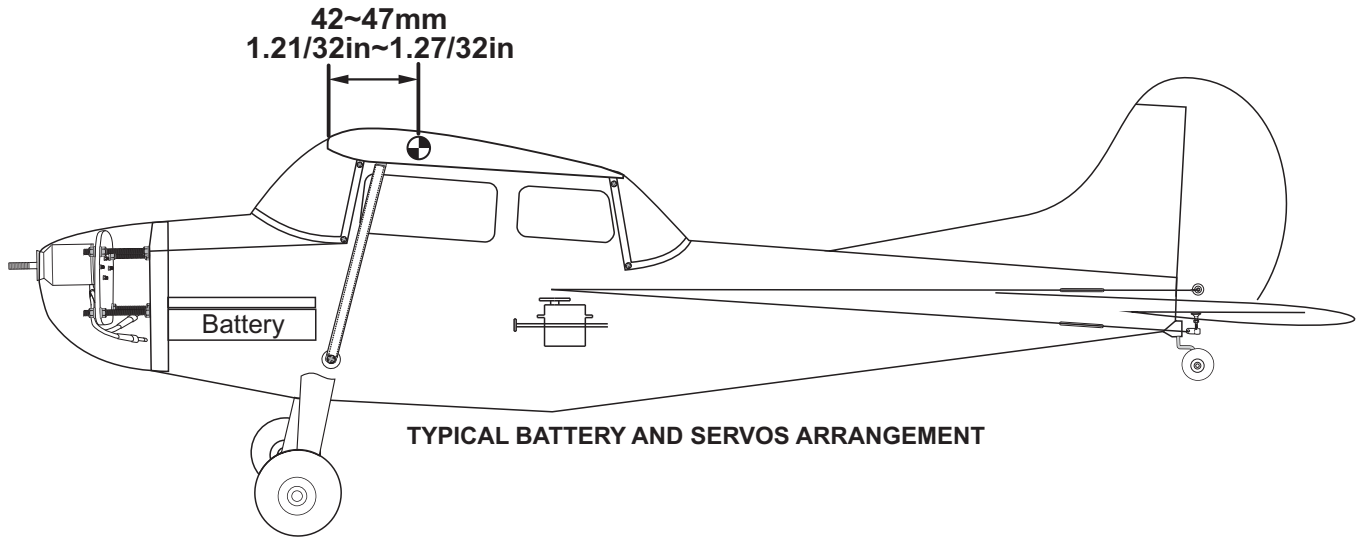
Install the rudder and elevator servos to the fuselage



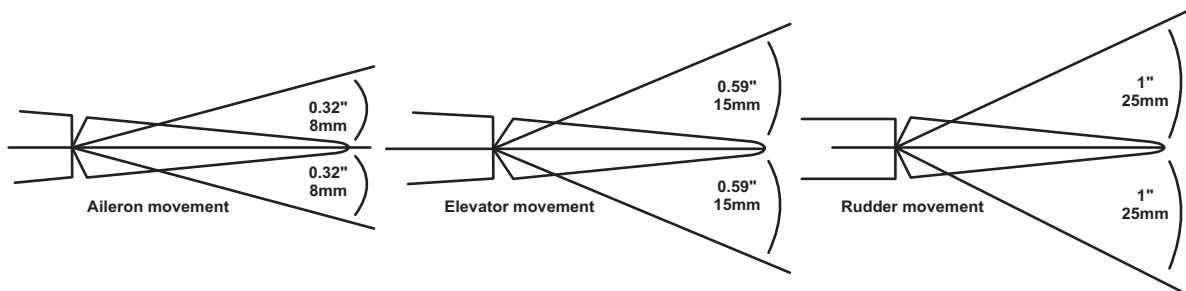
7

Install the motor

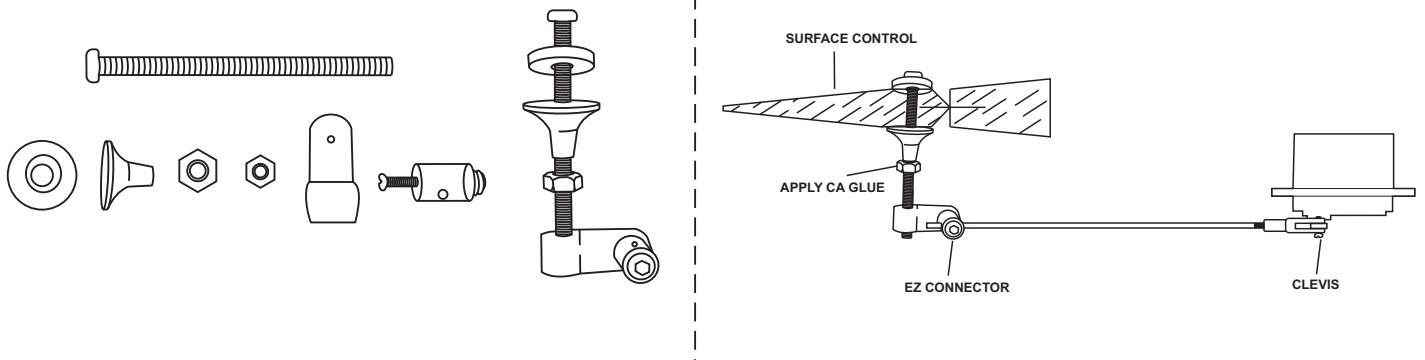




**SURFACE CONTROL MOVEMENT**



	High rate	Low rate
ELEVATOR	0.59" ( 15mm ) up 0.59" ( 15mm ) down	0.4" ( 10mm ) up 0.4" ( 10mm ) down
RUDDER	1" ( 25mm ) right 1" ( 25mm ) left	0.8" ( 20mm ) right 0.8" ( 20mm ) left
ALERON	0.32" ( 8mm ) up 0.32" ( 8mm ) down	0.24" ( 6mm ) up 0.24" ( 6mm ) down



**TYPICAL CONTROL HORN INSTALLATION**