

Radio control model

R/C Flugmodell

# INSTRUCTION MANUAL MONTAGEANLEITUNG

Designed for brushless electric motors

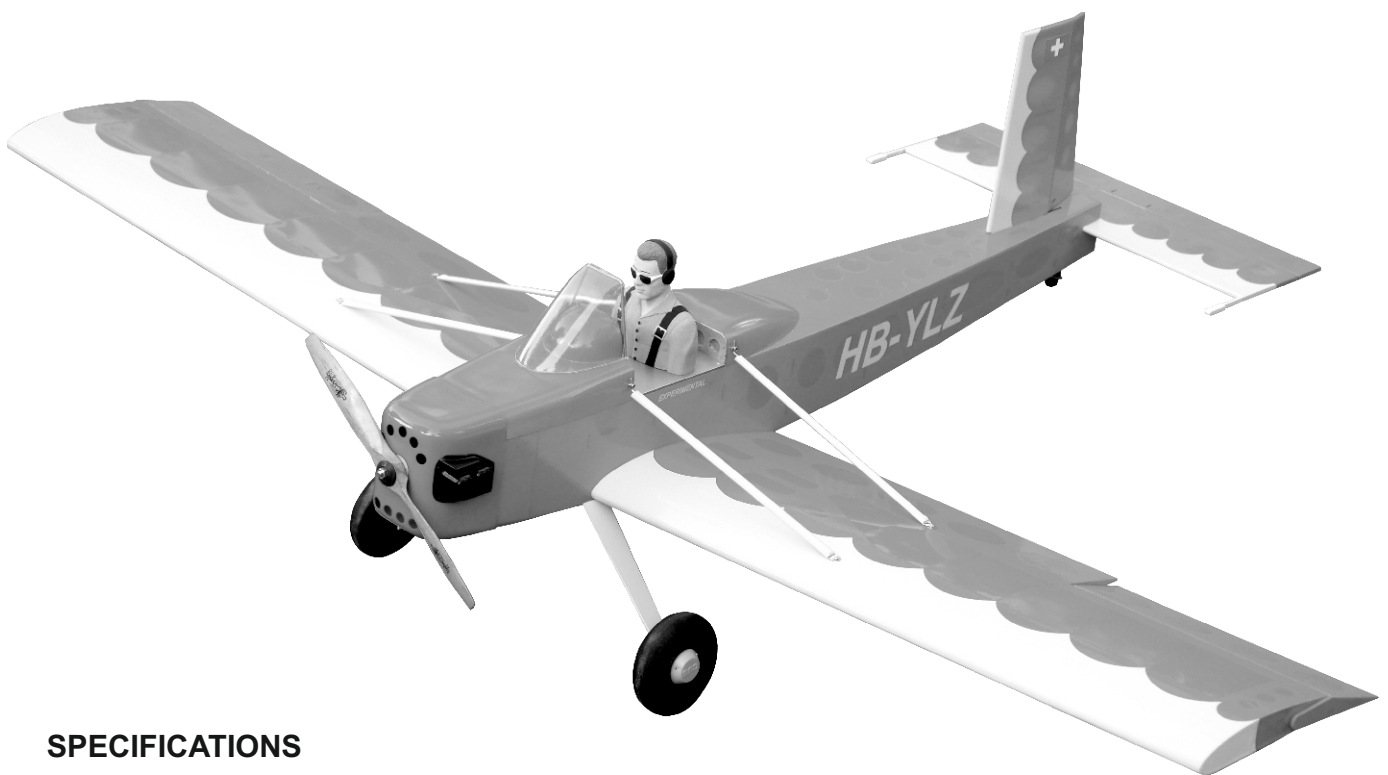
Entwickelt für Brushless Elektro Motoren

# VOLKSPLANE

U.S VERSION: VQA133US

SWISS VERSION: VQA134BLUE

SWISS VERSION: VQA134RED



## SPECIFICATIONS

Wingspan	62.9in.
Length	46 in.
Electric Motor	(See next page)
Radio	5 Channel / 4 Servos

## TECHNISCHE DATEN

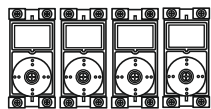
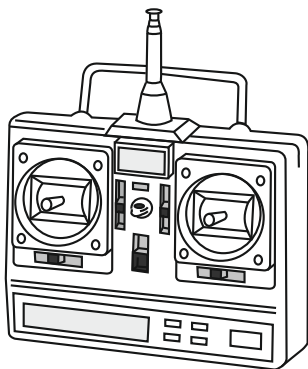
Spannweite	1600mm
Länge	1170mm
Elektroantrieb	(siehe nächste Seite)
Fernsteuerung	5 Kanal / 4 Servos



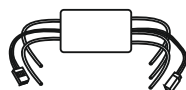
**WARNING!** This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of control and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if you are unexperienced.

**ACHTUNG!** Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstützung, wenn Sie Hilfe im Bau und Betrieb benötigen. Der Zusammenbau dieses Modells ist durch die vielen Abbildungen selbsterklärend und ist für fortgeschrittene, erfahrene Modellbauer bestimmt.

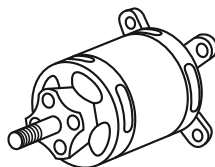
## REQUIRED FOR OPERATION (Purchase separately)



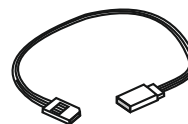
Minimum 5 channel radio for airplane with 4 servos



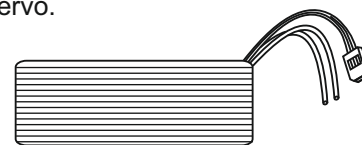
Motor Control



650-800W Brushless Motor



Extension for aileron servo.

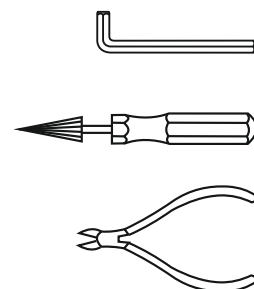
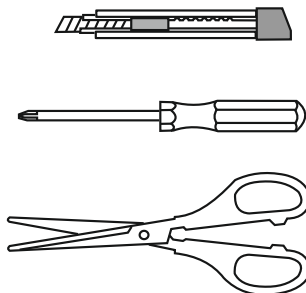
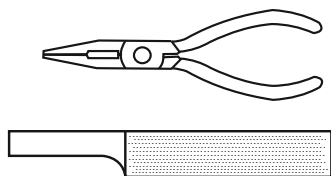


Li-Po Battery, 3700mAh.

Cyanoacrylate Glue  
Sekundenkleber




### Tool Required/ Empfohlenes Werkzeug





The pre-covered film on ARF kit may wrinkle due to variations of temperature. Store model in a cool and dry place for awhile. Then, starting with low heat, you may carefully use a hair dryer to smooth out wrinkles.


Die Bespannung des Modells kann durch Temperatureinflüsse erschlaffen oder Falten werfen z.B. bei zu starker Sonnenstrahlung oder Hitze. Stellen Sie das Modell zunächst an einen kühlen Platz für eine bestimmte Zeit. Danach können Sie versuchen die restlichen Falten vorsichtig mit einem Haartrockner zu behandeln.





 1.5mm Drill holes using the stated size of drill (in this case 1.5 mm Ø)


 Take particular care here


 Hatched-in areas: remove covering film carefully

 Check during assembly that these parts move freely, without binding

 Use epoxy glue

 Apply cyano glue


 Assemble left and right sides the same way.

 Not included. These parts must be purchased separately

 1.5mm Löcher bohren mit dem angegebenen Bohrer (hier 1,5 mm)


 Hier besonders aufpassen

 Schraffierte Stellen, Bespannfolie vorsichtig entfernen

 Während des Zusammenbaus immer prüfen, ob sich die Teile auch reibungslos bewegen lassen

 Epoxy-Klebstoff verwenden

 Sekundenkleber auftragen

 Linke und rechte Seite wird gleichermaßen zusammengebaut

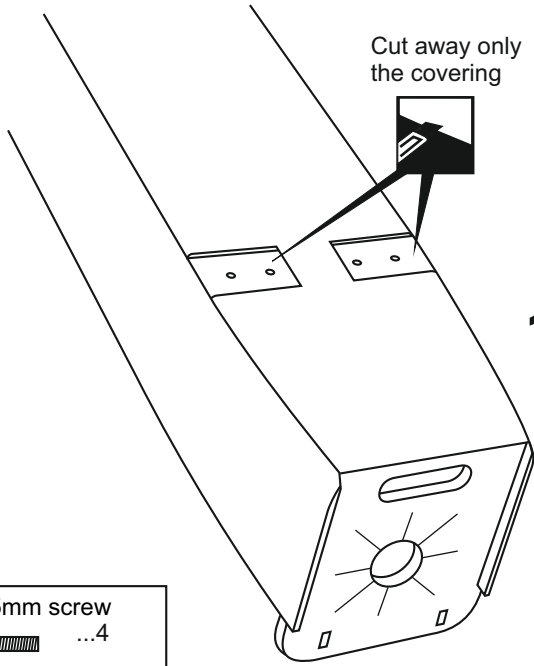
 Nicht enthalten. Teile müssen separat gekauft werden.

### CONVERSION TABLE

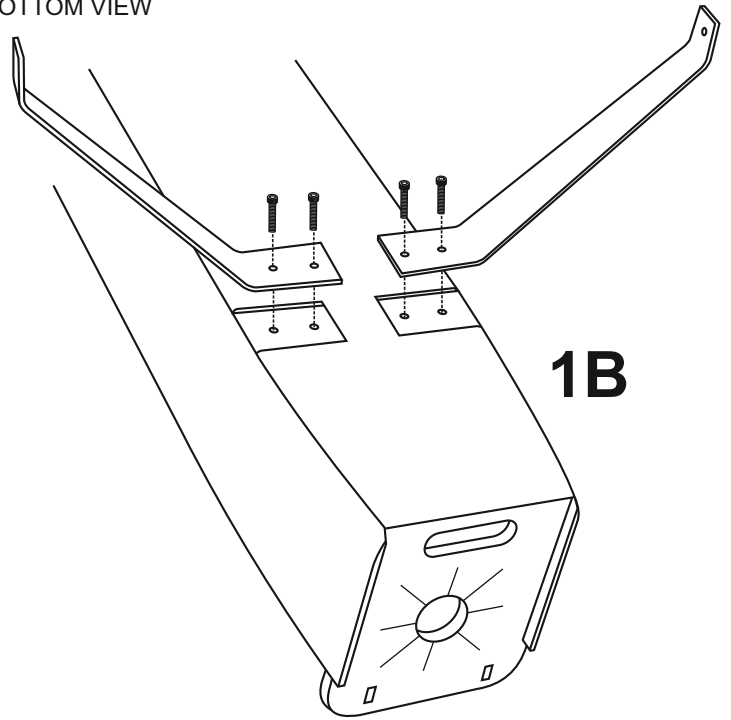
1.0mm = 3/64"	3.0mm = 1/8"	10mm = 13/32"	25mm = 1"
1.5mm = 1/16"	4.0mm = 5/32"	12mm = 15/32"	30mm = 1-3/16"
2.0mm = 5/64"	5.0mm = 13/64"	15mm = 19/32"	45mm = 1-51/64"
2.5mm = 3/32"	6.0mm = 15/64"	20mm = 51/64"	

FUSELAGE - BOTTOM VIEW

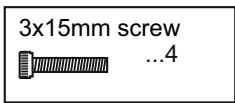
1



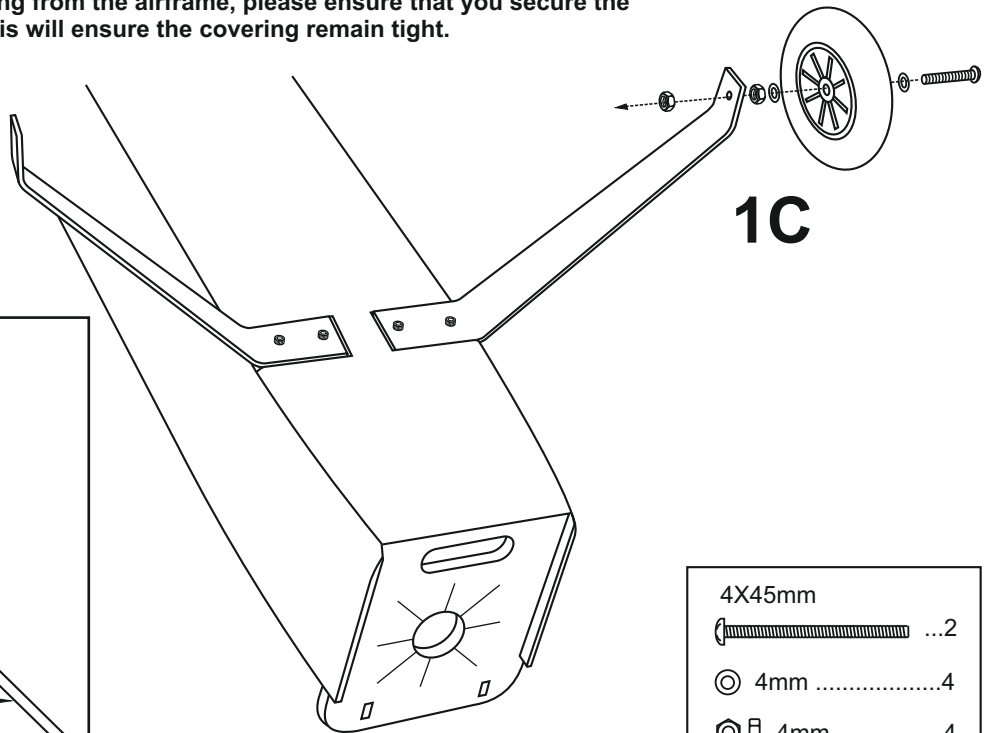
1A



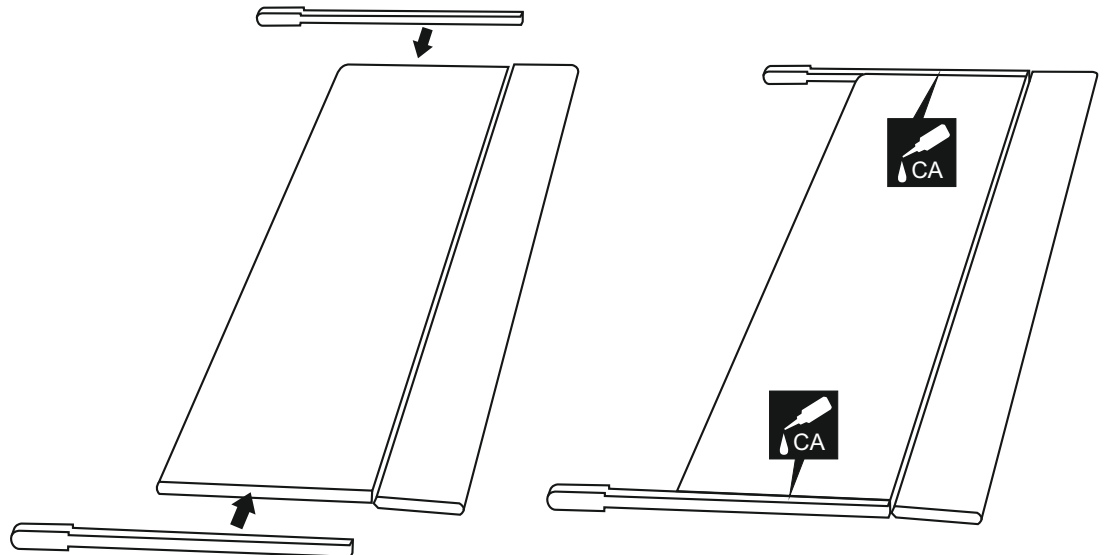
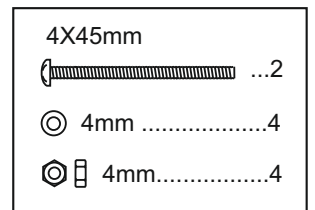
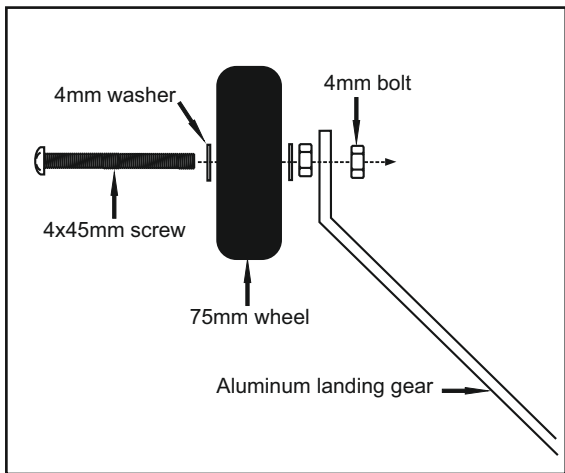
1B



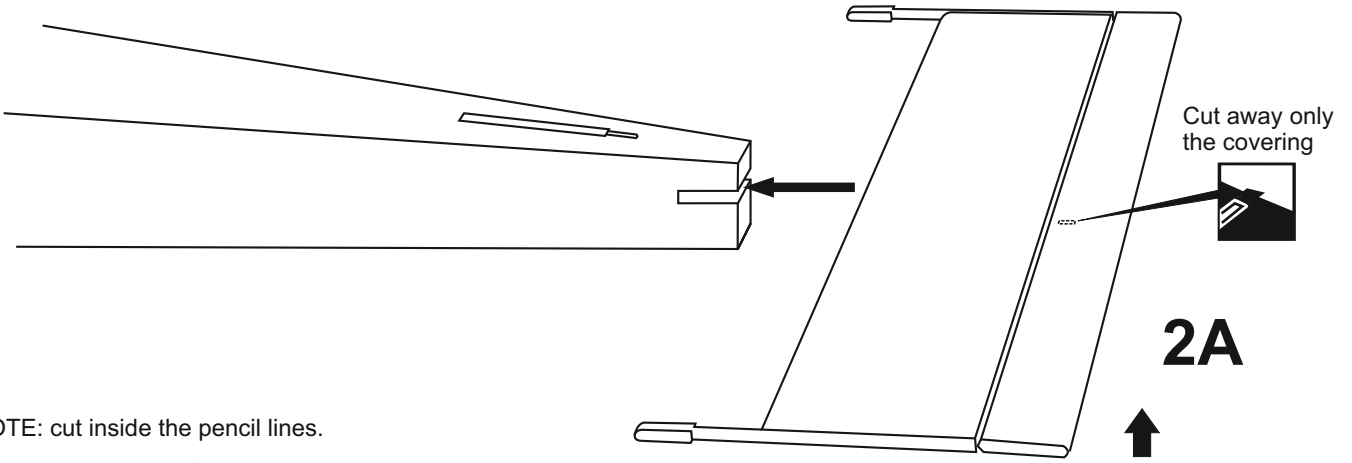
\* **WARNING:** When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.



1C



2



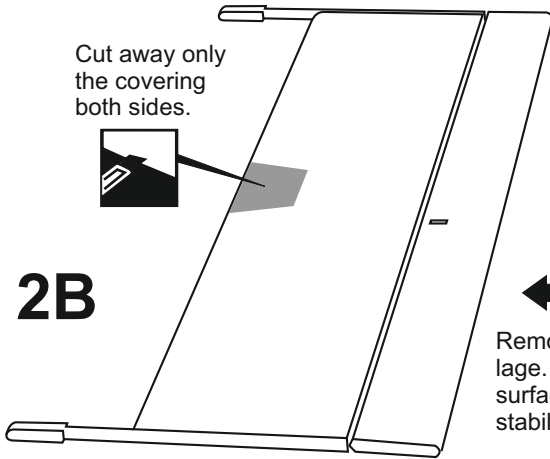
2A

NOTE: cut inside the pencil lines.

Cut away only the covering both sides.



2B



Remove the horizontal stabilizer from the fuselage. Remove the covering material from the gluing surfaces on both the top and bottom of the horizontal stabilizer.

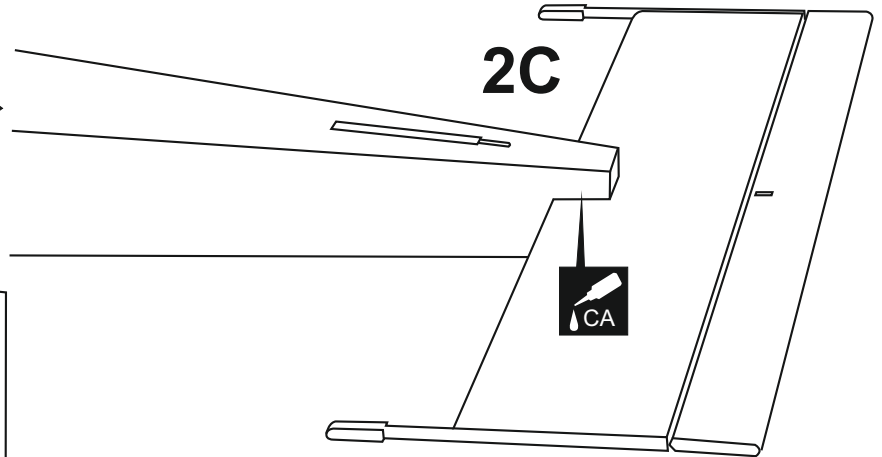
Trial fit the horizontal stabilizer in place on the fuselage. Check the alignment of the horizontal stabilizer by measuring from a fixed point along the center line of the fuselage to the leading edge on each side of the horizontal stabilizer. The distance must be equal on both sides. Using the pencil trace around the top and bottom of the stabilizer where it meets the fuselage.

NOTE: Do not glue the horizontal stabilizer into the fuselage at this time.

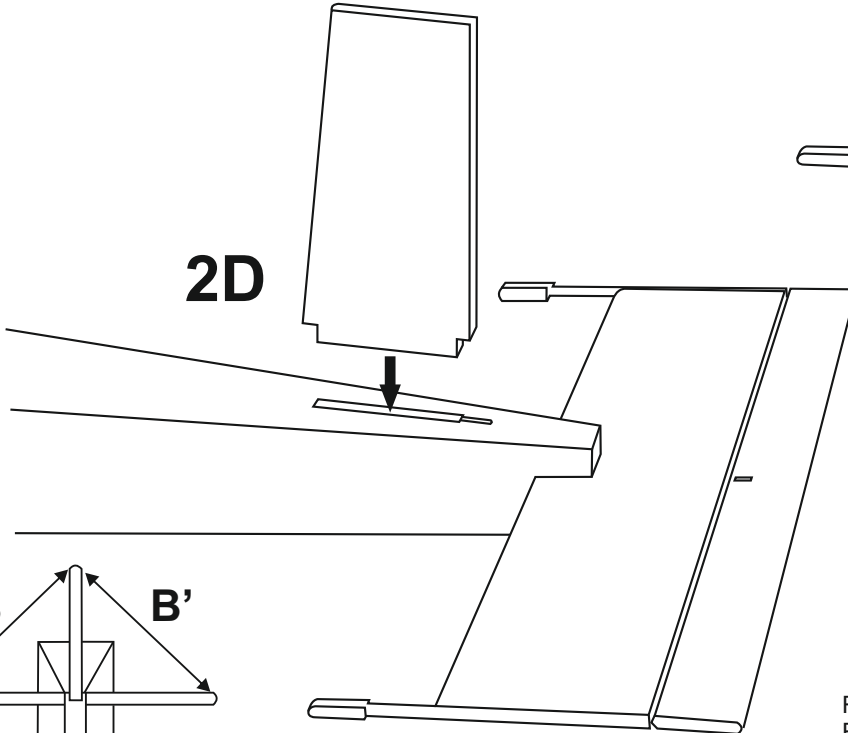
Again, slide the horizontal stabilizer into the fuselage. Check the alignment of the horizontal stabilizer. Secure the horizontal stabilizer in place using the **thin CA glue**.

**Securely glue together. If coming off during flight, you lose control of your air plane.**

2C



2D

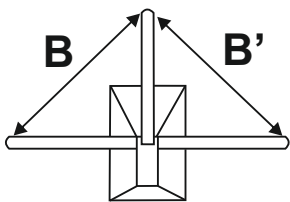


2E

Cut away only the covering both sides



Remove the vertical stabilizer from the fuselage. Remove the covering material from the gluing surfaces on both the left and right of the vertical stabilizer.

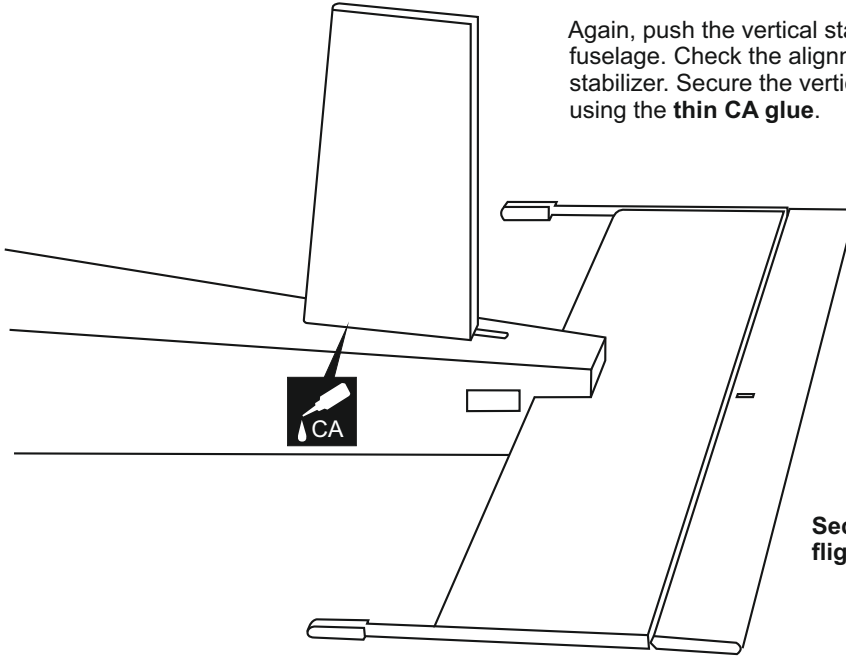


Trial fit the horizontal stabilizer in place on the fuselage. Check the alignment with the horizontal stabilizer. The distance must be equal on both sides ( $B=B'$ ). Using the pencil trace around the top and bottom of the stabilizer where it meets the fuselage.

**\* WARNING: When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.**

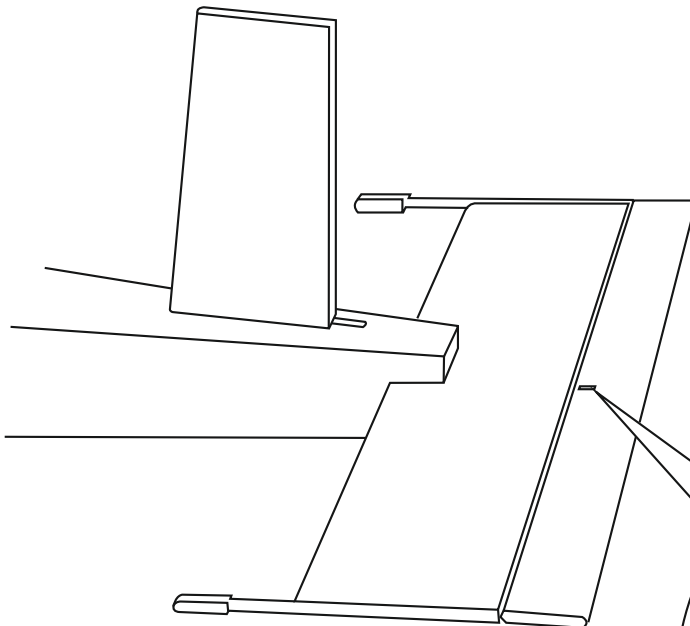
3

Again, push the vertical stabilizer into the fuselage. Check the alignment with the horizontal stabilizer. Secure the vertical stabilizer in place using the **thin CA glue**.

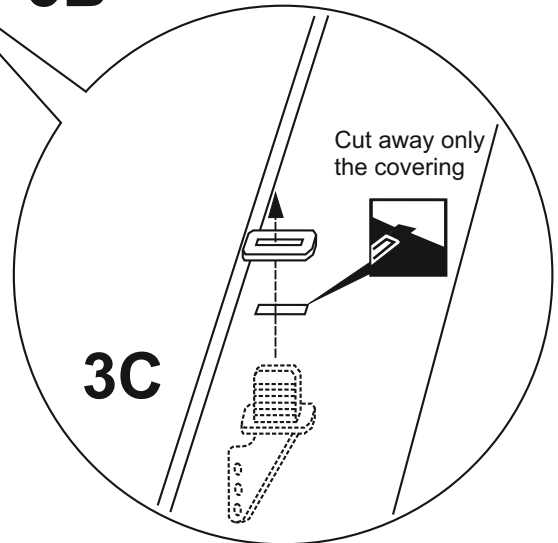


3A

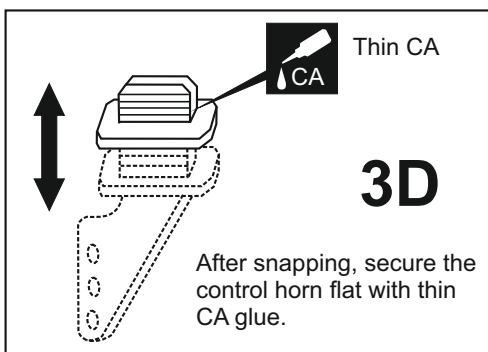
Securely glue together. If coming off during flight, you lose control of your air plane.



3B



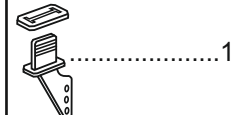
3C






3D

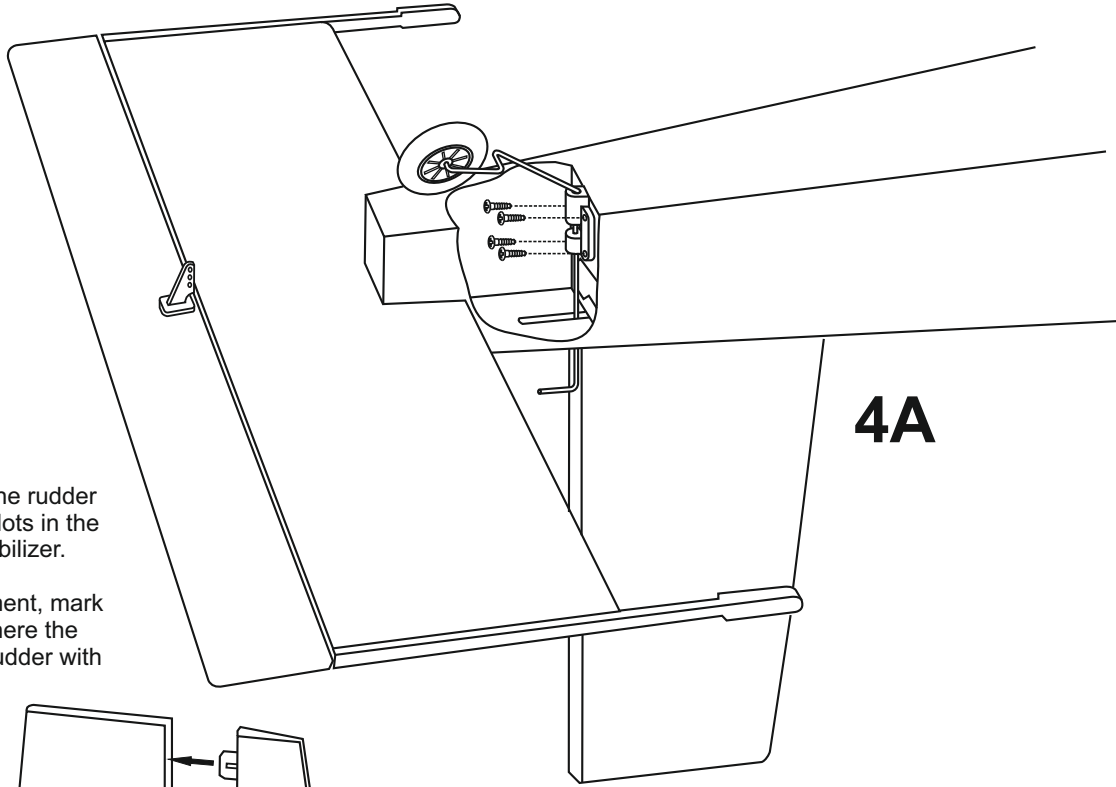
After snapping, secure the control horn flat with thin CA glue.

Plastic control horn



# 4

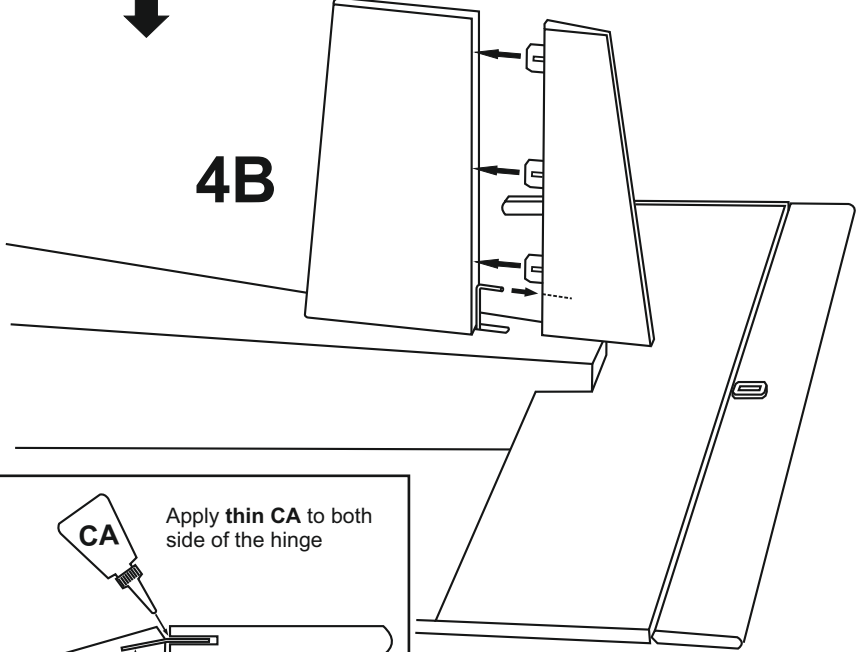
- 3x10mm  ....4
-  ....1
-  ....2



## 4A

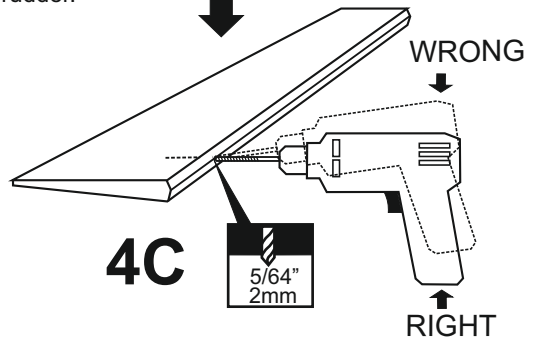
Without using glue yet, push the rudder and its hinges into the hinge slots in the trailing edge of the vertical stabilizer.

When satisfied with the alignment, mark the mounting hole position, where the rudder torque rod meets the rudder with a pencil.



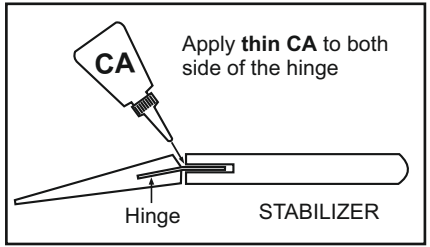
## 4B

Remove the rudder and drill a 2mm diameter hole in torque rod mounting slot, making sure that you drill the hole perpendicular to the leading edge of the rudder.



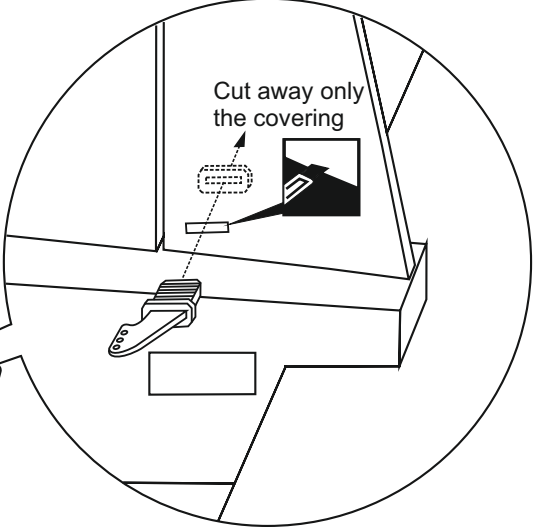
## 4C

5/64"  
2mm




Apply **thin CA** to both side of the hinge

Hinge STABILIZER

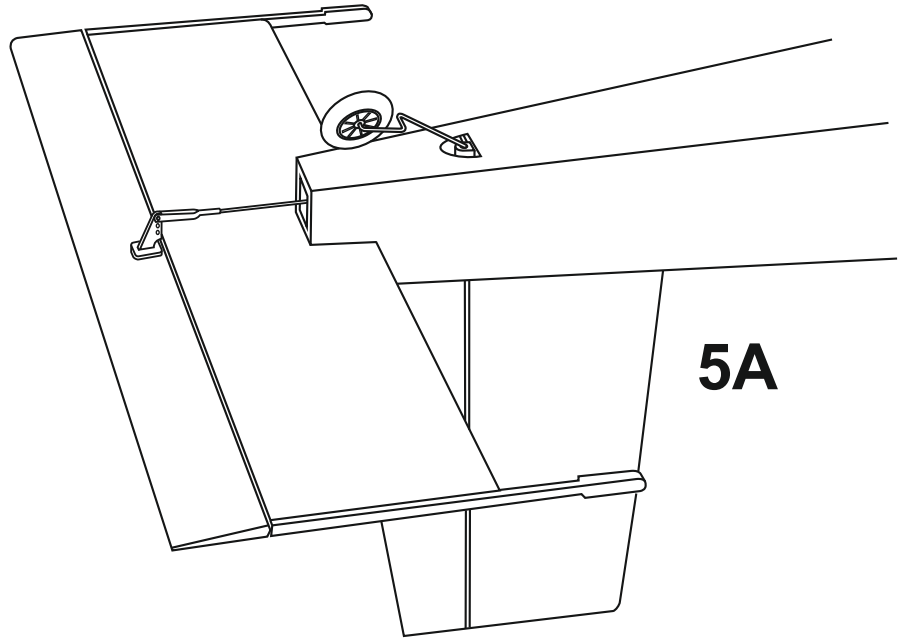


## 4D

Plastic control horn

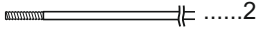

-  .....1

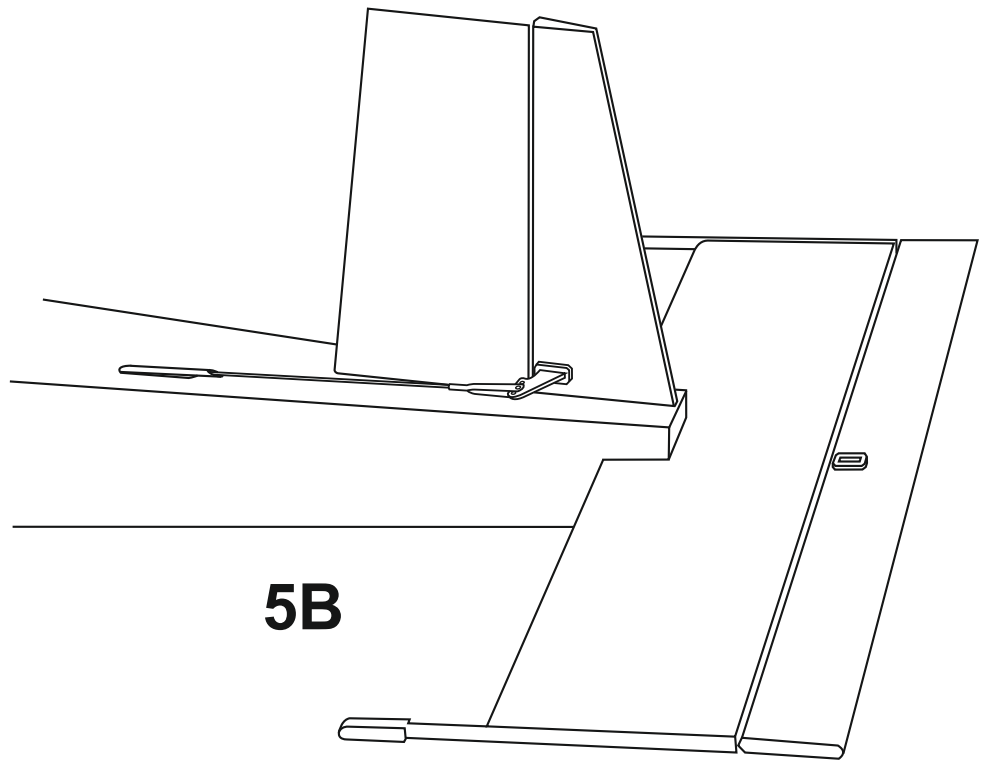
**5**



**5A**

FUSELAGE - BOTTOM VIEW

950mm steel wire		.....2
Steel clevis		.....2

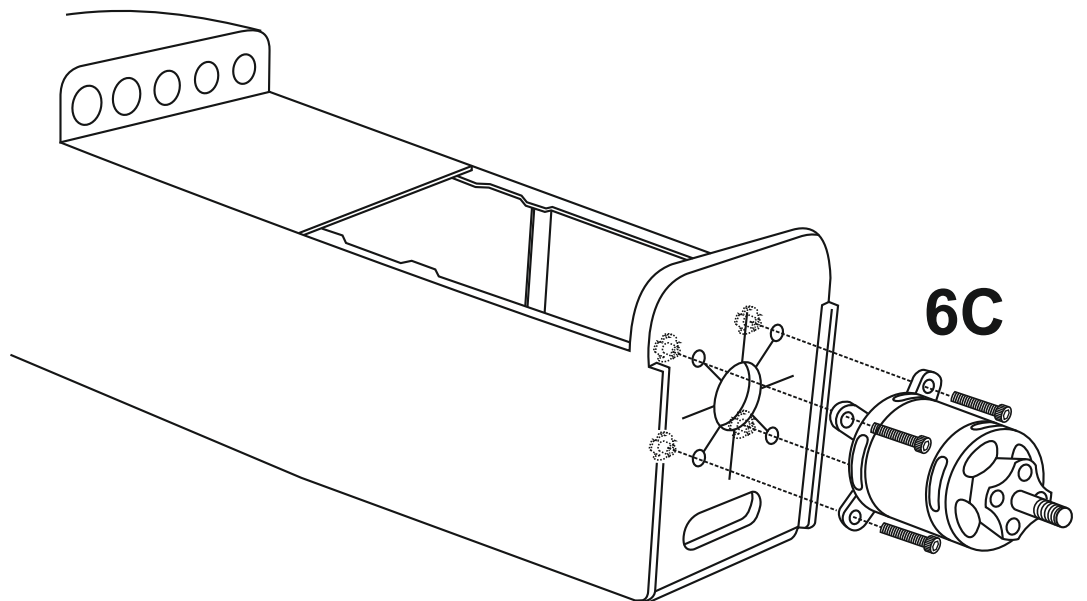
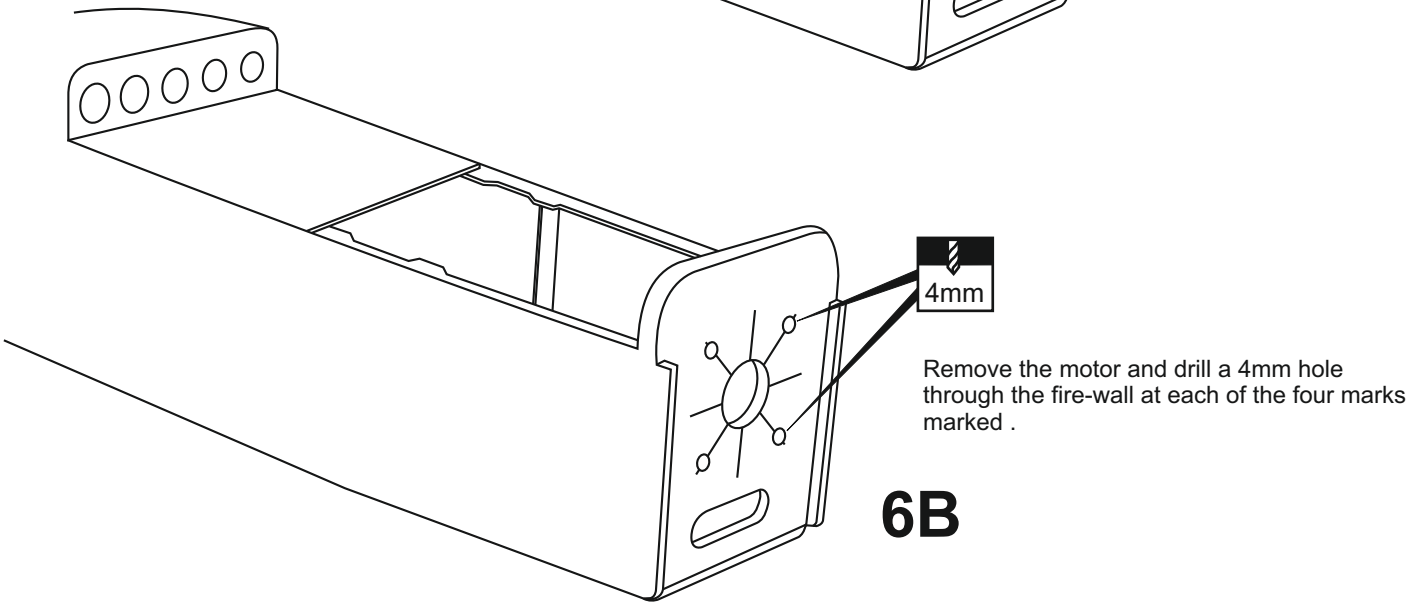
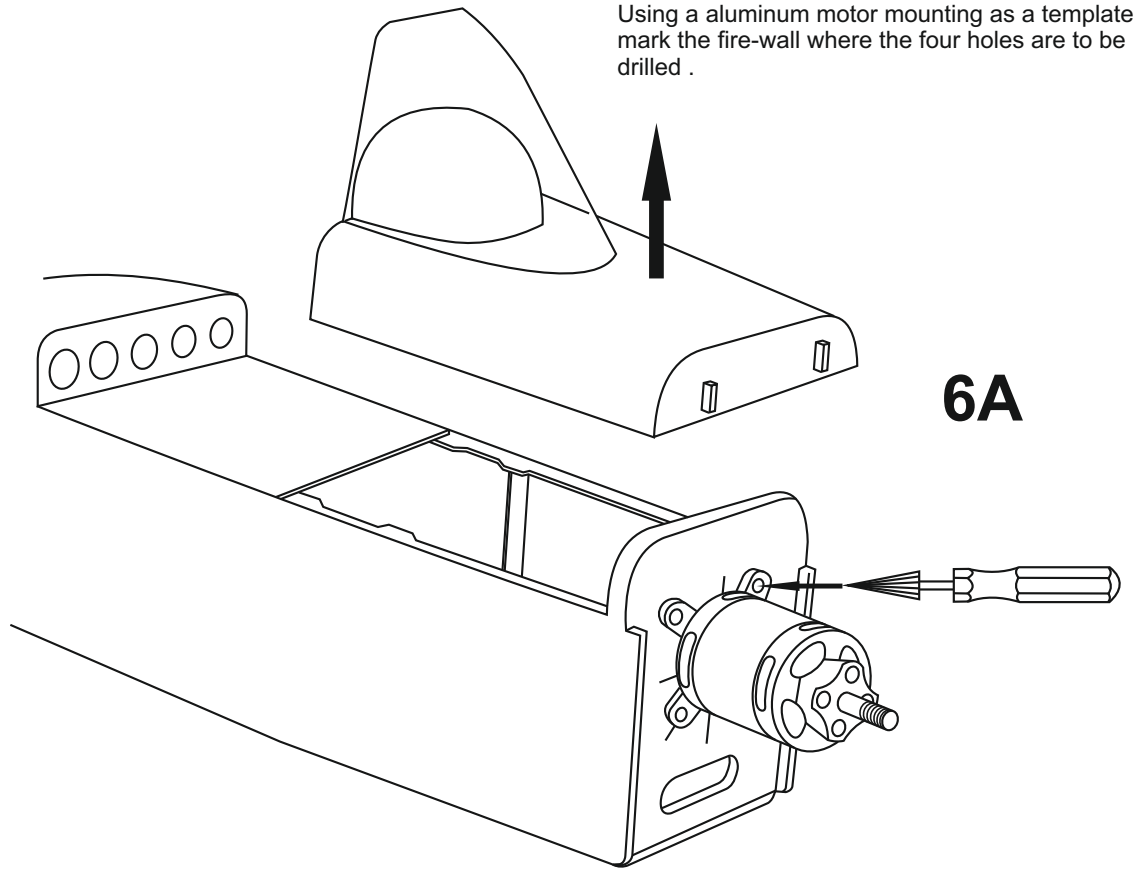


**5B**

FUSELAGE - TOP VIEW

# 6

Using a aluminum motor mounting as a template, mark the fire-wall where the four holes are to be drilled .



3x15mm

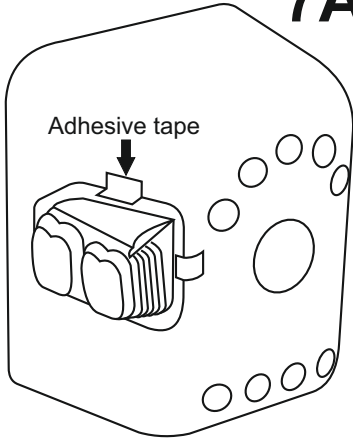
 ...4

 ...4

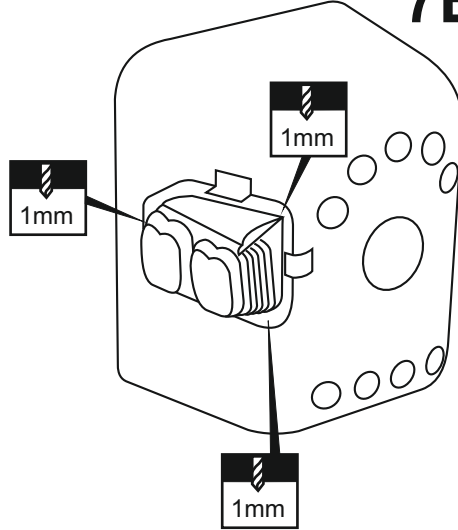


7

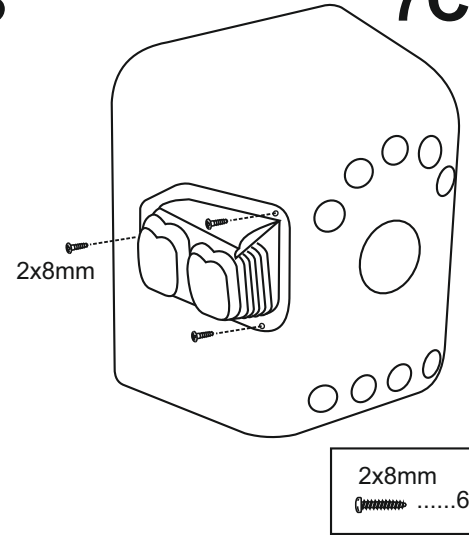
7A



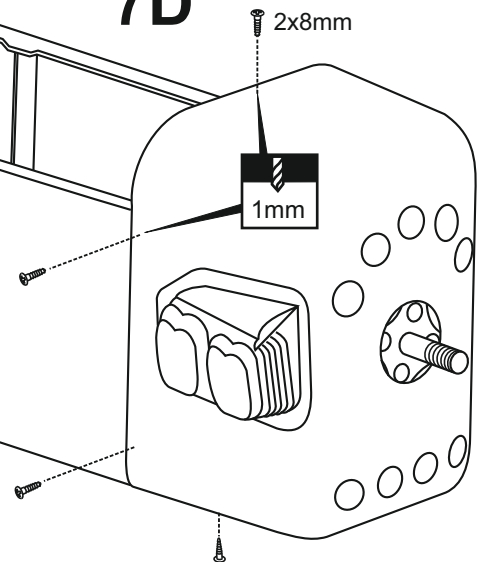
7B



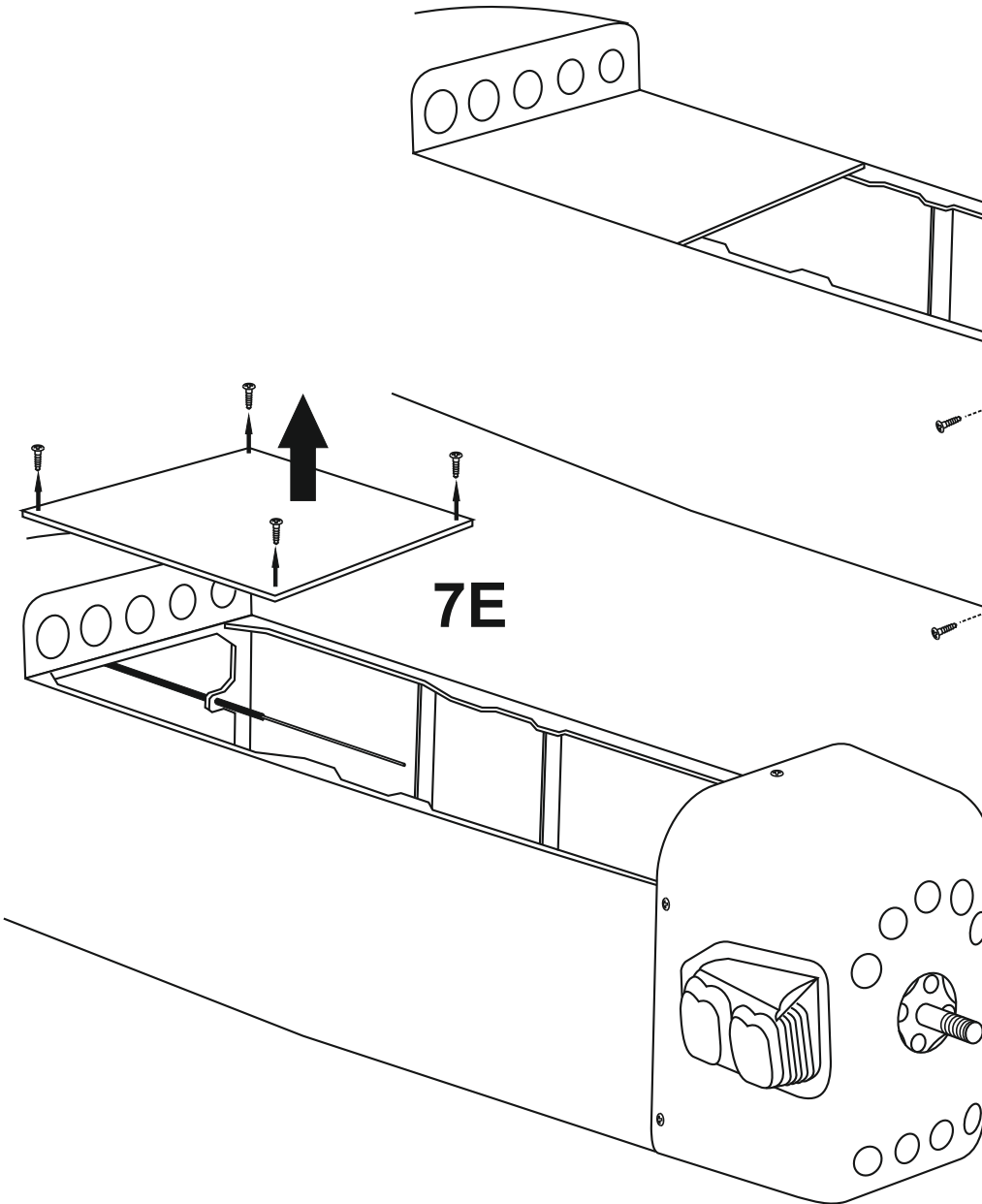
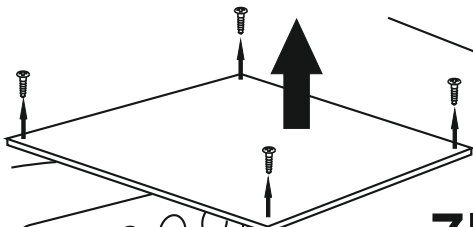
7C



7D



7E



8

2mm connector

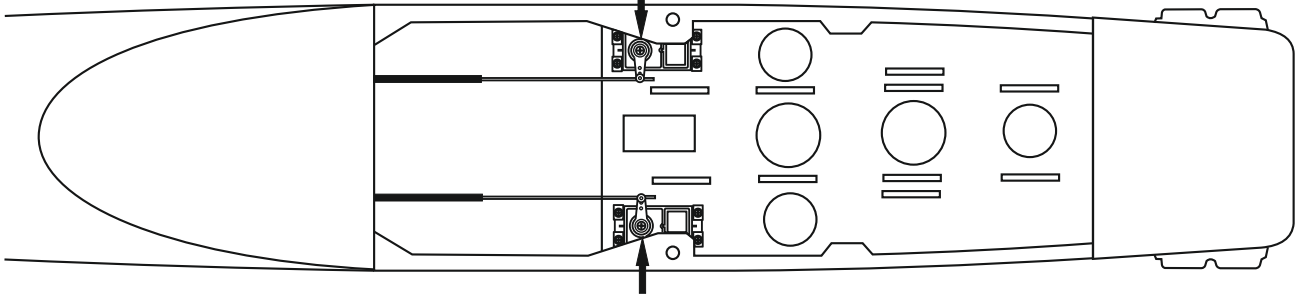


8A

Rudder servo

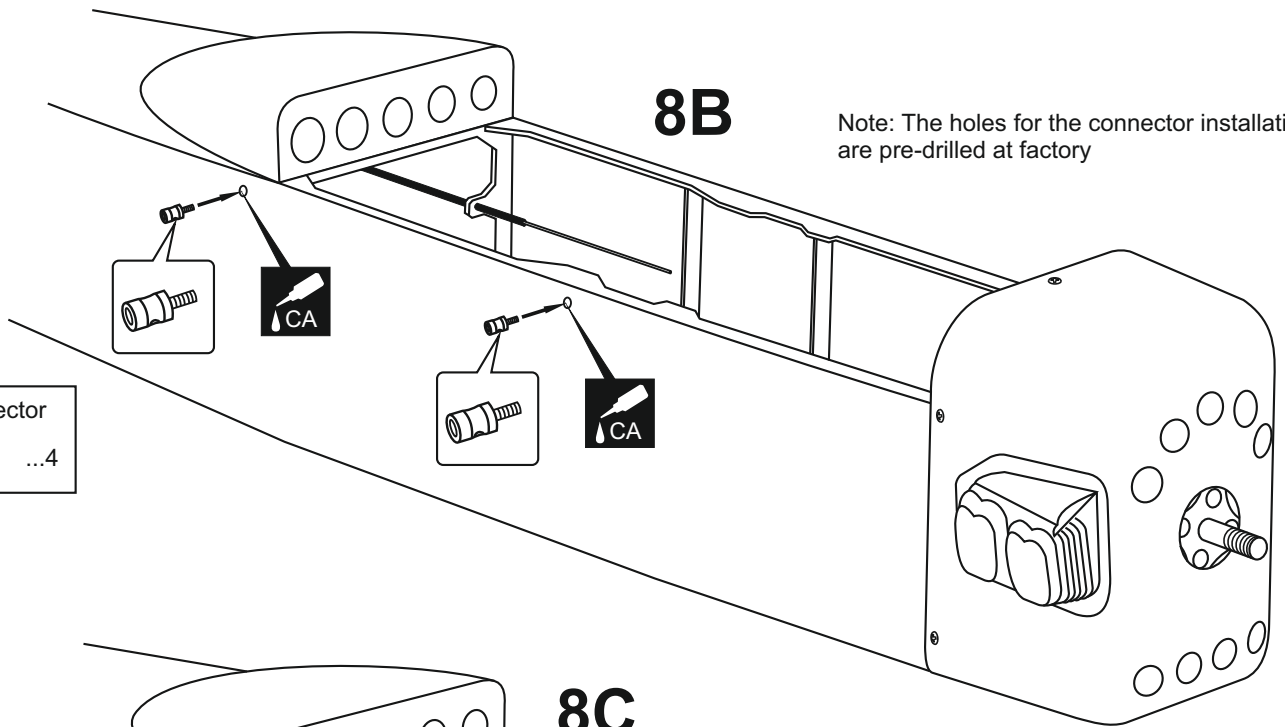
Elevator servo

Fuselage - Top view

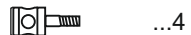


8B

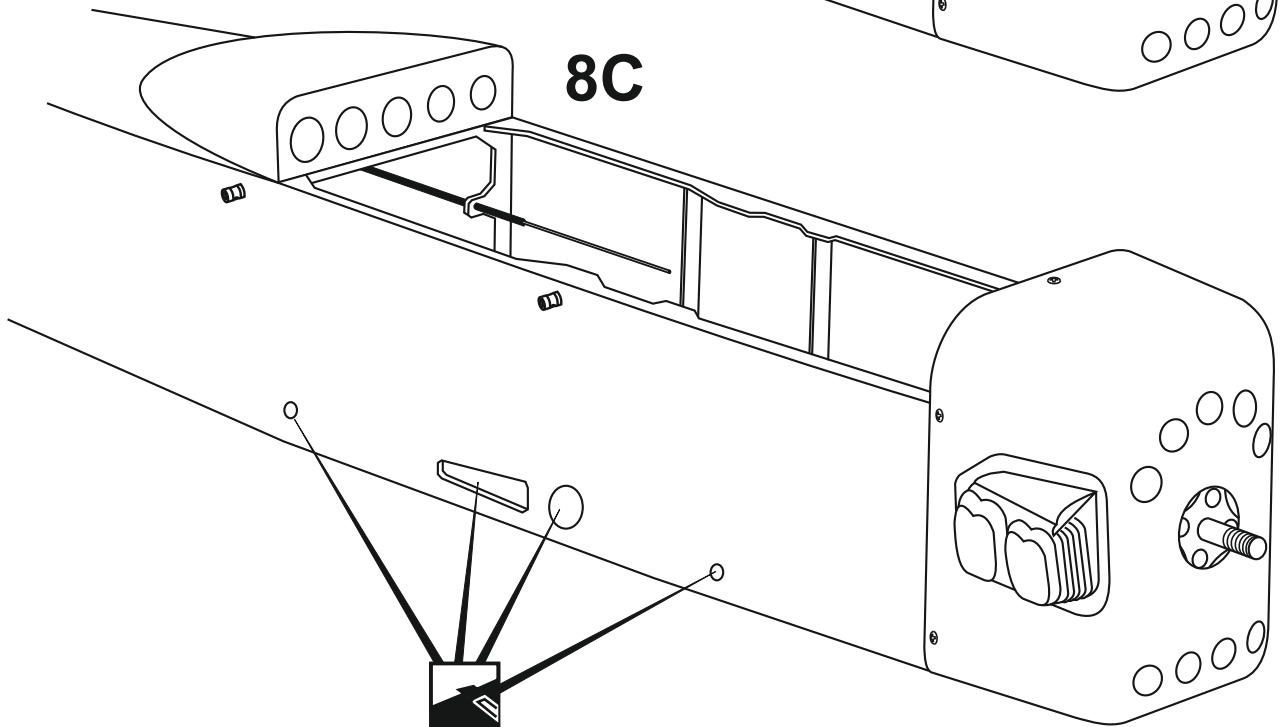
Note: The holes for the connector installation are pre-drilled at factory



3mm connector



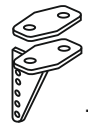
8C



Cut away only the covering


9

Control horn

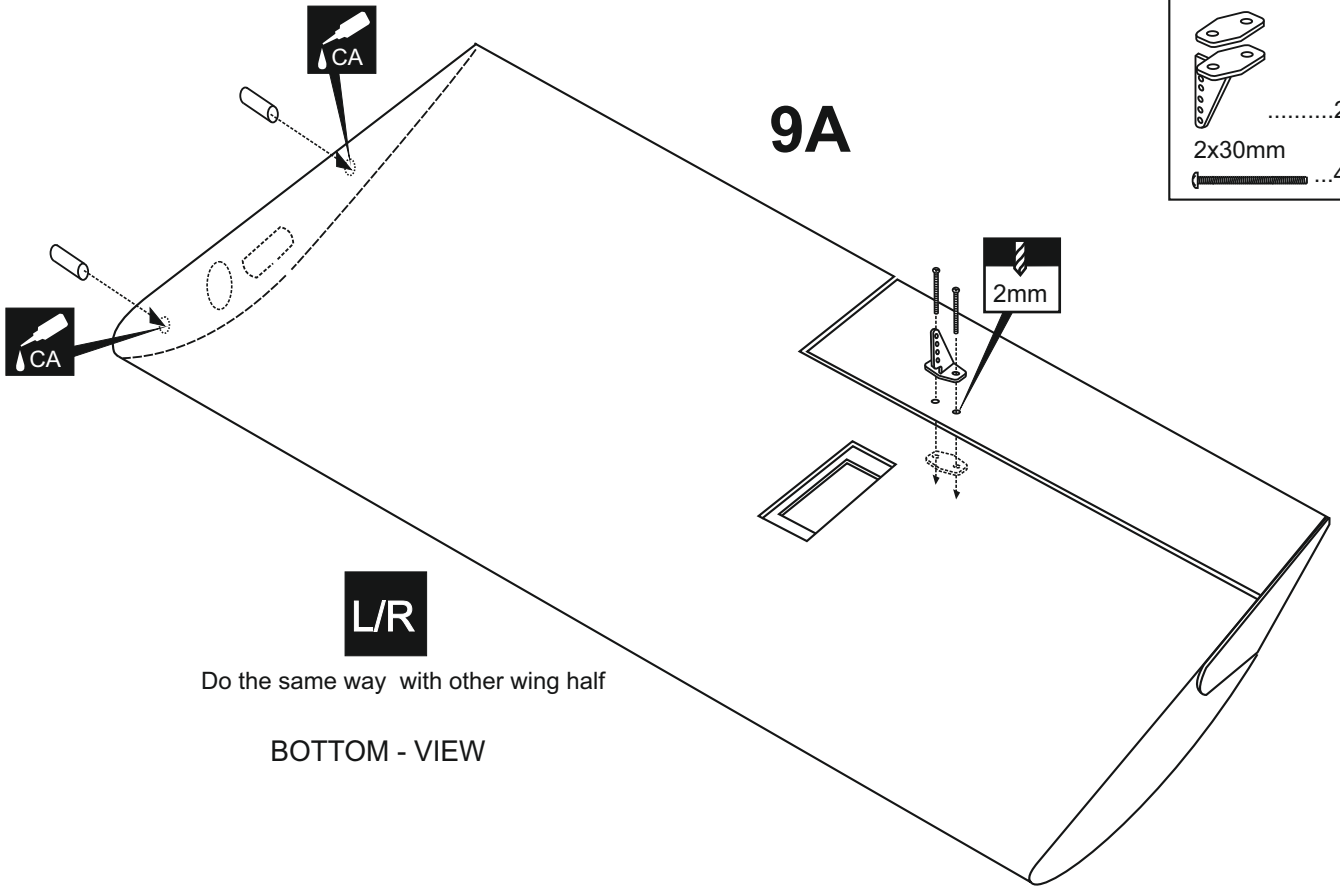


.....2

2x30mm

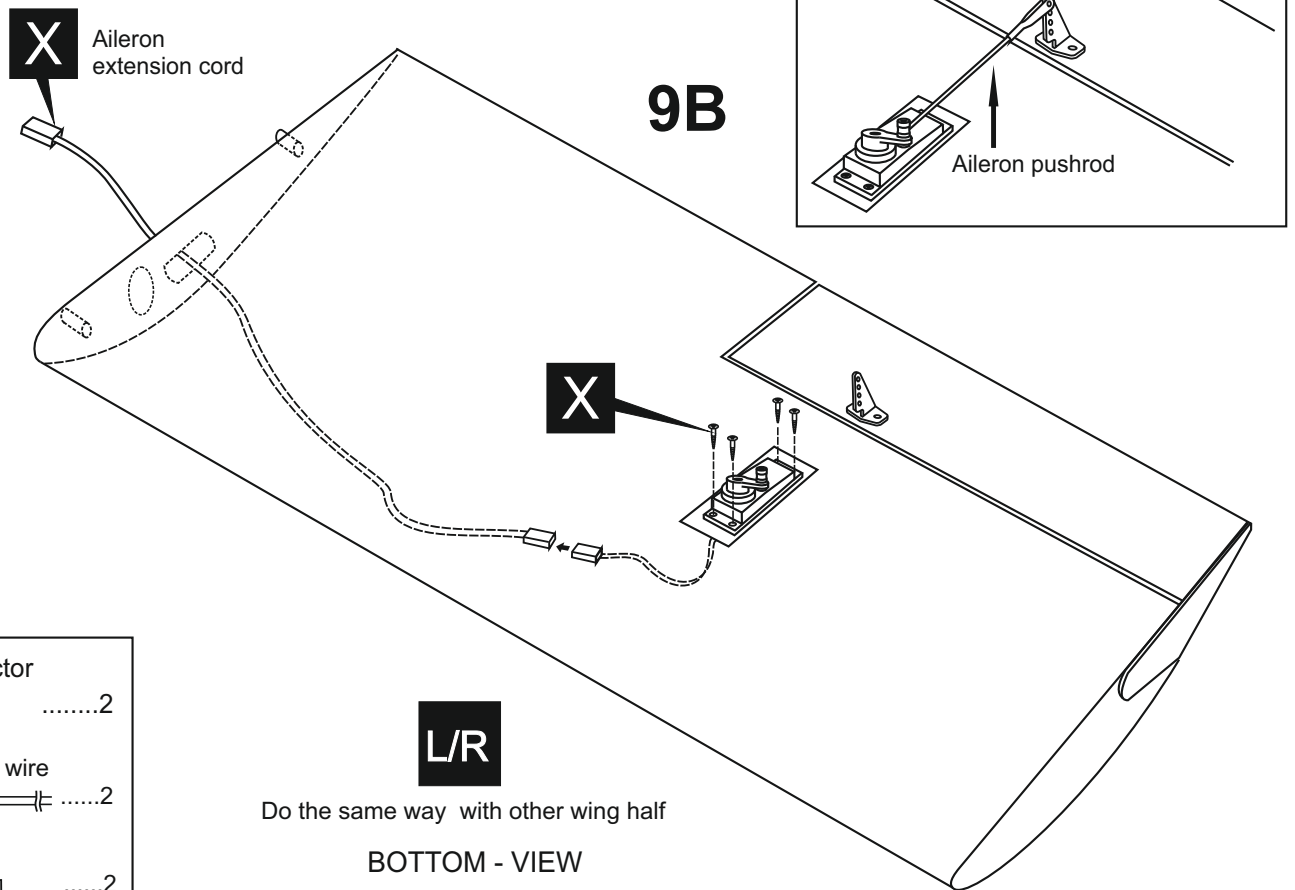


...4



Do the same way with other wing half

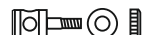
BOTTOM - VIEW



Do the same way with other wing half

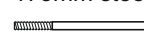
BOTTOM - VIEW

2mm connector




.....2

175mm steel wire



.....2

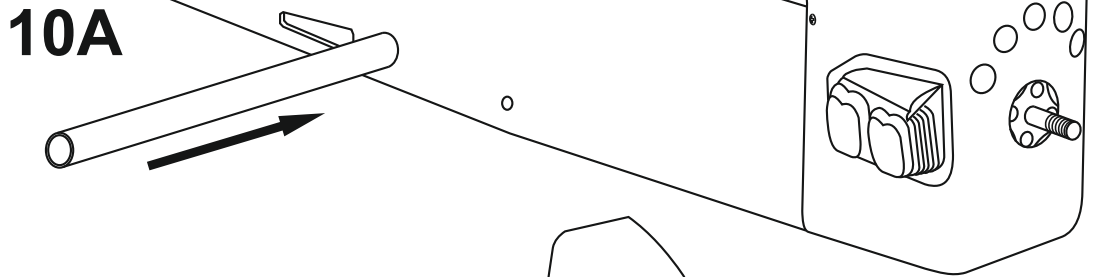
Steel clevis



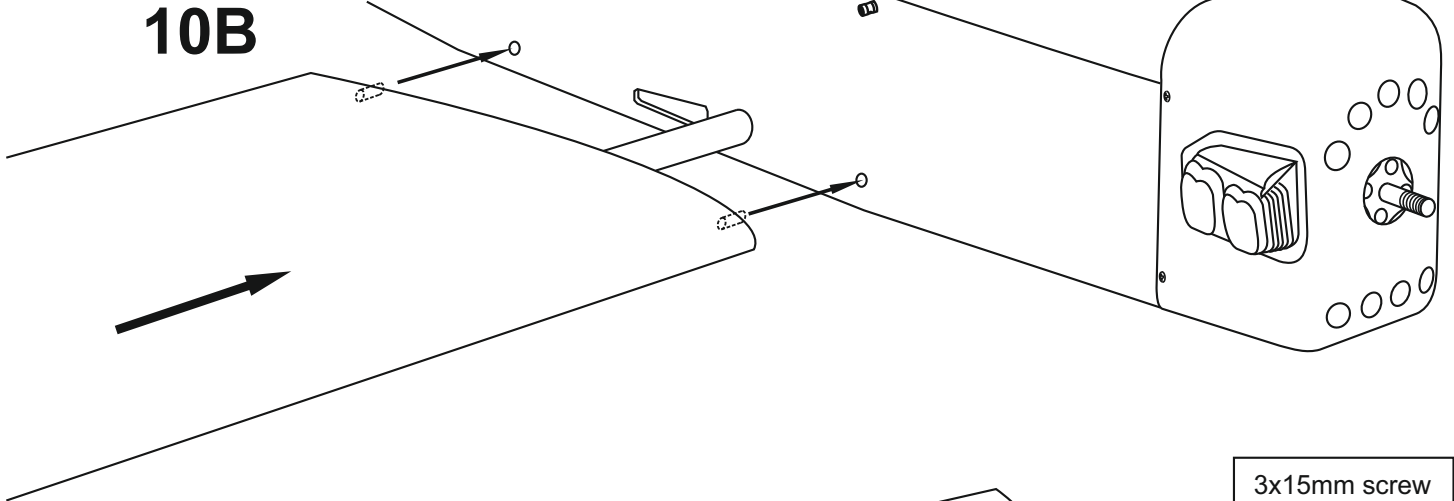
.....2

# 10

## 10A

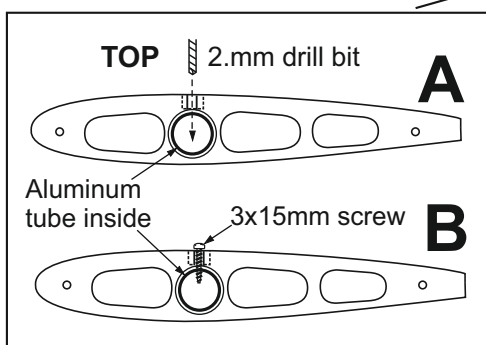



## 10B



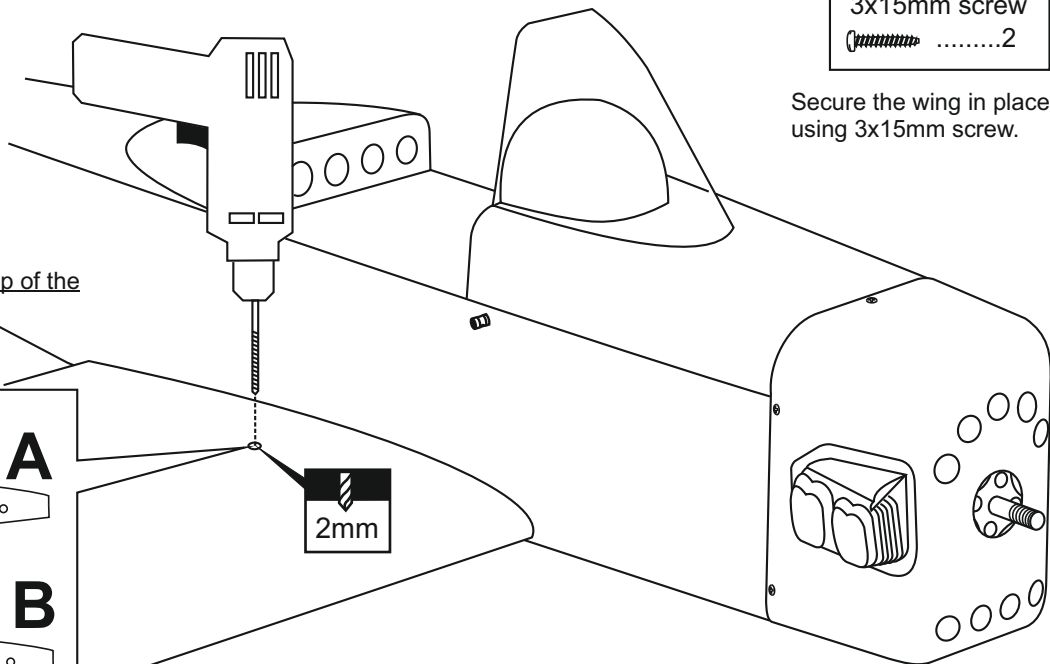
## 10C

Note: The hole on the surface of the top of the wing is pre-drilled at factory.



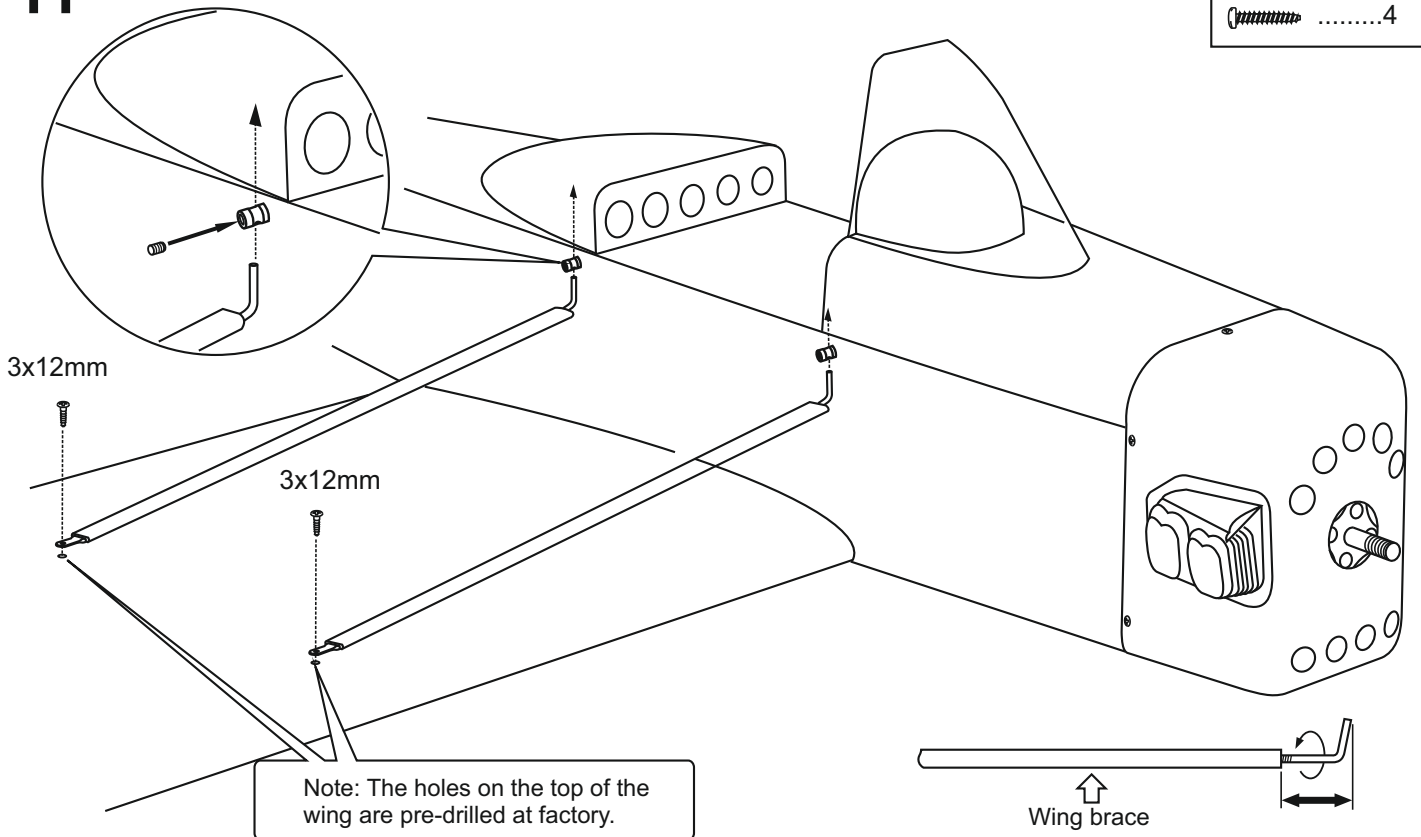
3x15mm screw  
 .....2

Secure the wing in place using 3x15mm screw.



# 11

3x12mm  
.....4

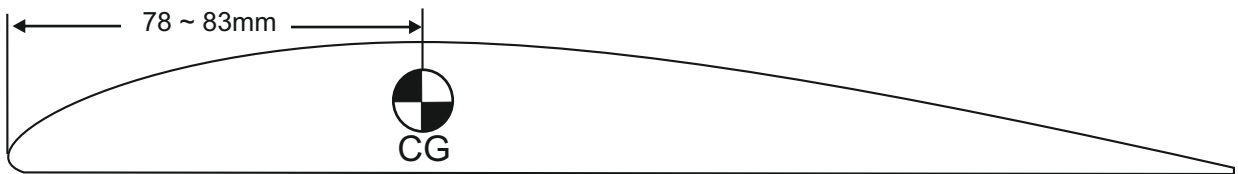


Note: The holes on the top of the wing are pre-drilled at factory.

Note: The length of the wing brace can adjust by turn the metal hook.

# 12

The recommended C.G (Center of Gravity) location for the Volksplane is 89 ~ 91mm. Adjust the location of the battery pack as required to achieve this C.G location. If necessary, add weight to either the tail or nose until the correct balance is achieved.



**WARNING !** Securely install the receiver and power pack, ensuring they will not come loose or rattle during flight. Never fly before checking the Cg's required position.

## Control Surface

