Radio control model - RC Flugmodell

Monaro SPORT 60

60 Class - 2 Cycle engine
90 Class - 4 Cycle engine
Or electric equivalent

INSTRUCTION MANUAL / Montageanleitung

TECHNISCHE DATEN

Spannweiter	1710mm
Länge	1030mm
Elektroantrieb	1000 Watt (BOOST 90)
Verbrennerantrieb	60 2-T / 90 4-T
Fernsteuerung	5 Kanal / 5 Servos

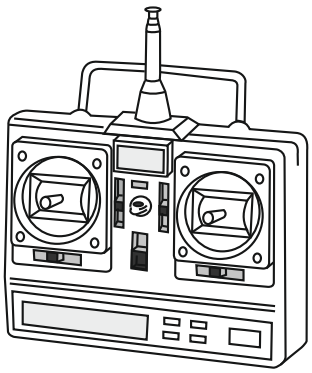
SPECIFICATIONS

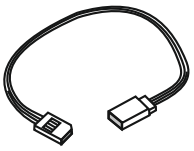
Wingspan	67.3 in.
Length	51.1 in.
Electric Motor	1000 Watt (BOOST 90)
Glow Engine	60 2-T / 90cc 4-T
Radio	5 Channel / 5 Servos

WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll 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.

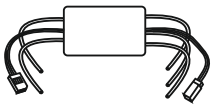
ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein 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)

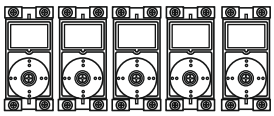




Extension for aileron servo.



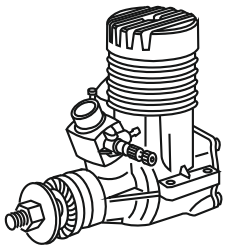
70A Regler



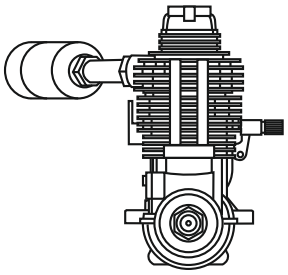
Minimum 5 channel radio for airplane with 5 servos

.Motor control x1 .Aileron x2

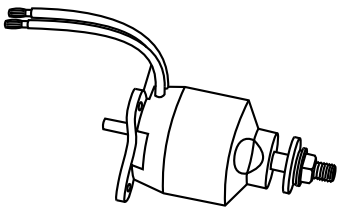
.Elevator x1 .Rudder x1



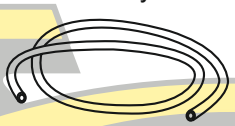
.60 - 2 cycle



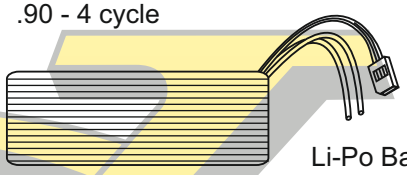
.90 - 4 cycle



1000w Brushless Motor



Silicone tube

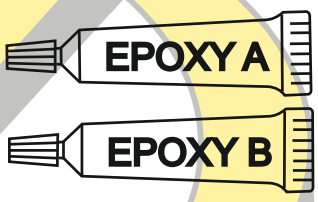


Li-Po Battery, 22.2V, 5300mAH

GLUE (Purchase separately)

Silicon sealer

Cyanoacrylate Glue



Epoxy Glue (5 minute type)

Epoxy Glue (30 minute type)

TOLLS REQUIRED (Purchase separately)

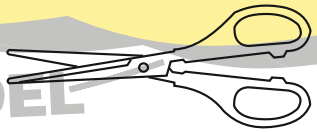
Hobby knife

Needle nose Pliers

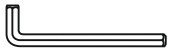
Sander

Phillip screw driver

Scissors

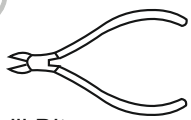


Hex Wrench



Awl

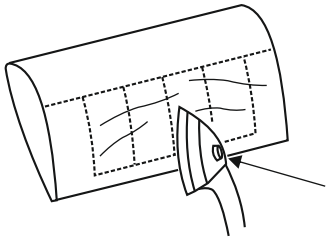
Wire Cutters



Masking tape - Straight Edged Ruler - Pen or pencil - Rubbing alcohol - Drill and Assorted Drill Bits

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

* Use an iron or heat gun. Start as low setting. Increase the setting if necsessary. If it is too high, you may damage the film



Low setting

Symbols used throughout this instruction manual, comprise:

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

Read through the manual before you begin, so you will have an overall idea of what to do.

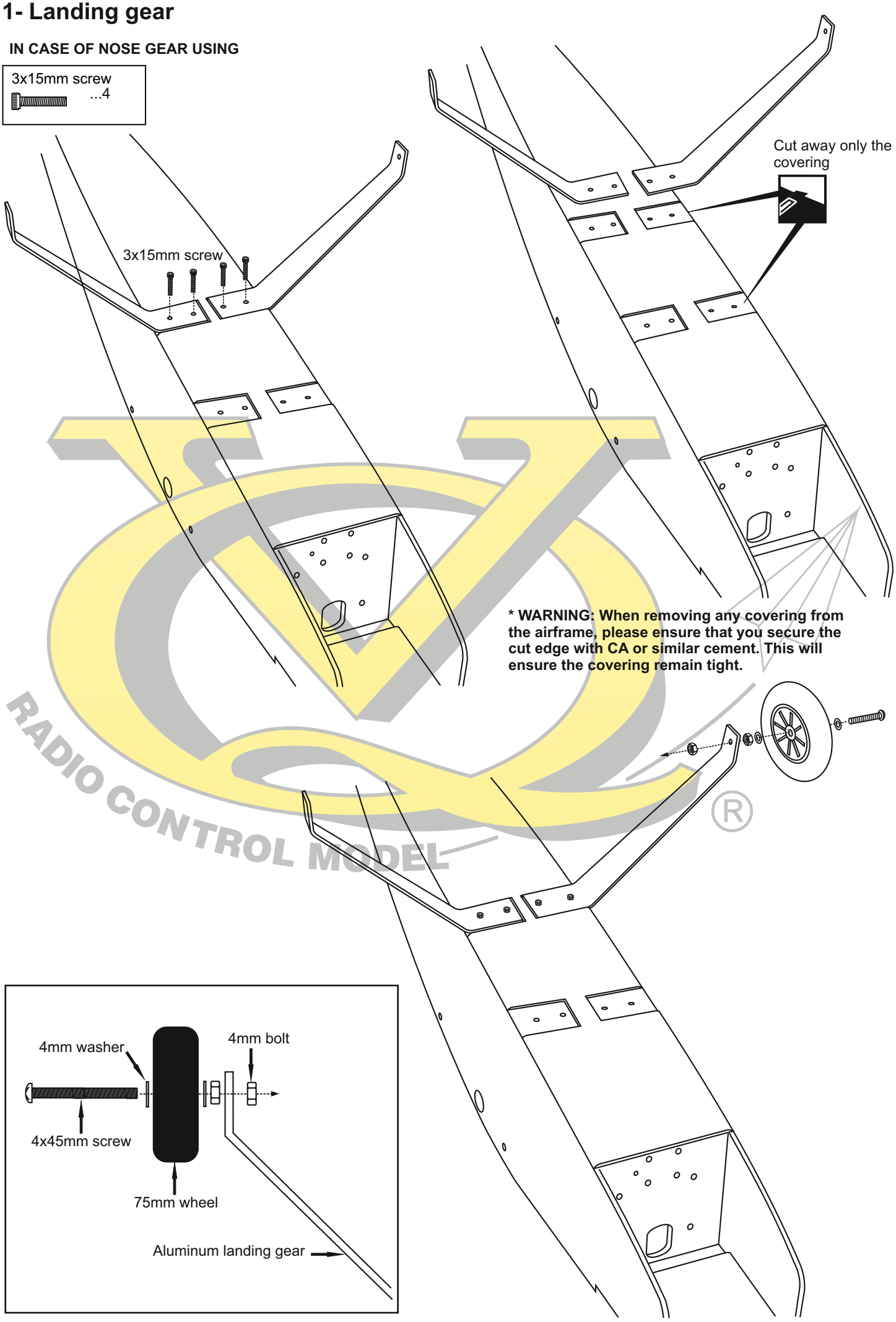
CONVERSION TABLE

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”	

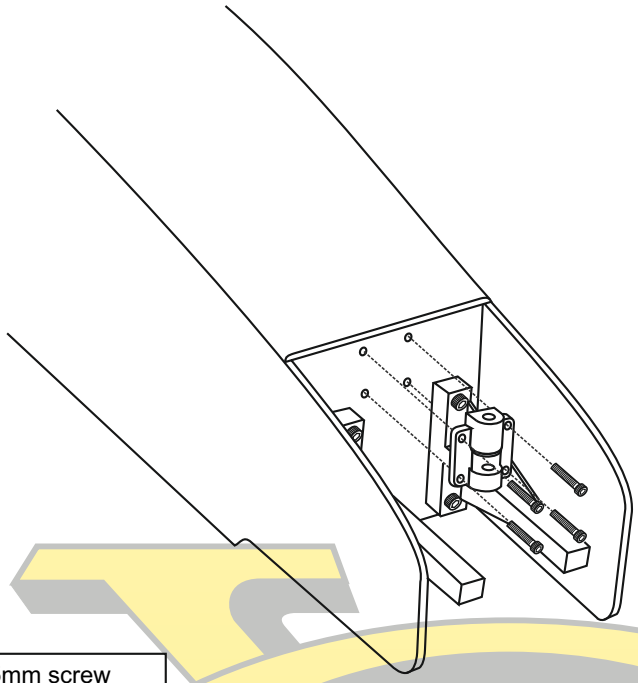
1- Landing gear

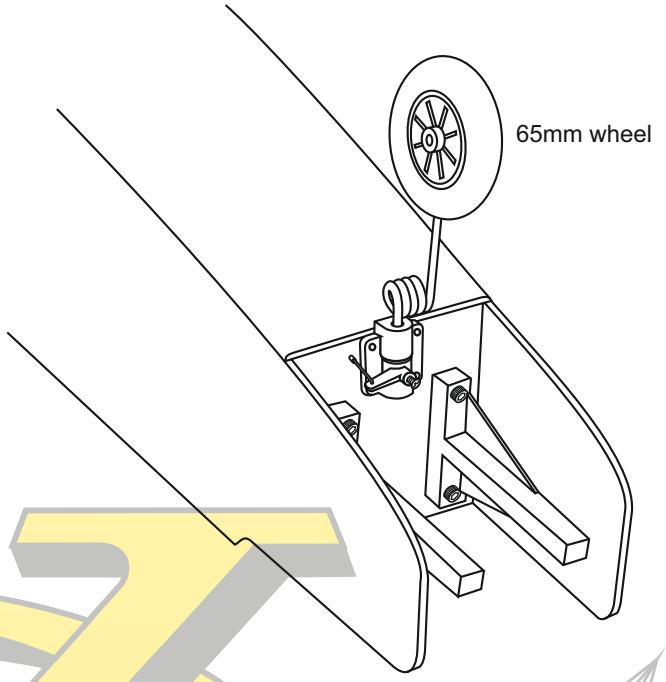
IN CASE OF NOSE GEAR USING

3x15mm screw ...4



2- Nose gear





3x15mm screw ...4

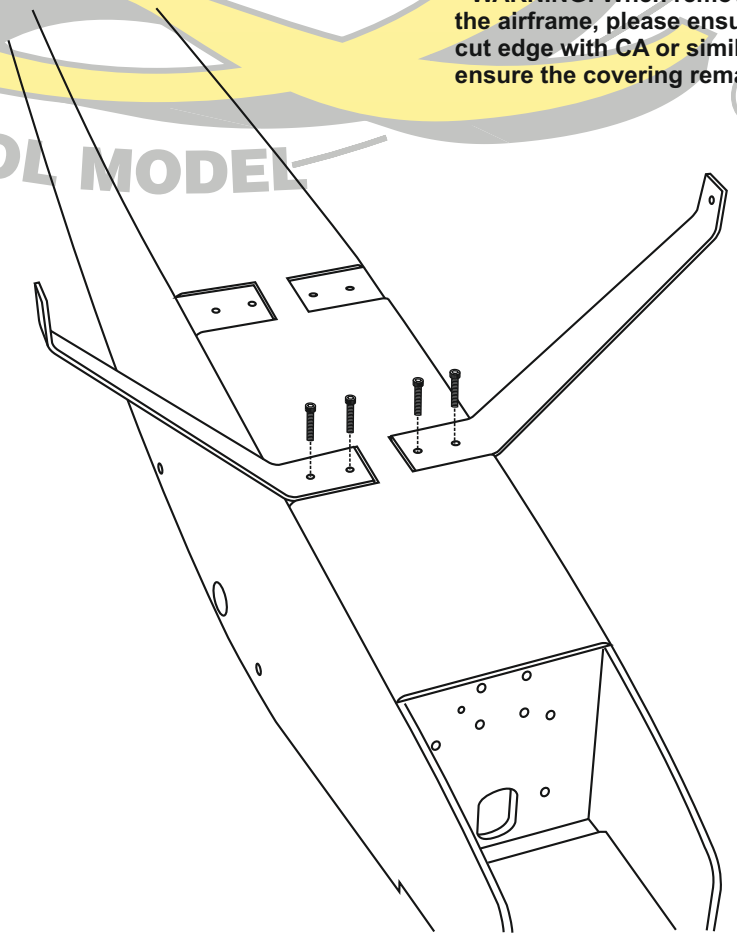
1-Securely attach the nose gear mount to the fire-wall using the four 3x15mm screws
2-Insert the white plastic tube into the fuselage, through the firewall.
3-Insert the Z-bend of the nose gear control push-rod into the hole on the nose gear control horn.
4-Insert the pus-hrod into the plastic tube
5-Position the nose gear control horn on the center of the nose gear mount.
6-With the screw hole facing forward, slide the straight end of the nose gear on to the nose gear mount.
7-When satisfied with the fit and alignment, secure the nose gear control horn in place with 1/8x13/32”(3x10mm) set screw.

3- Landing gear

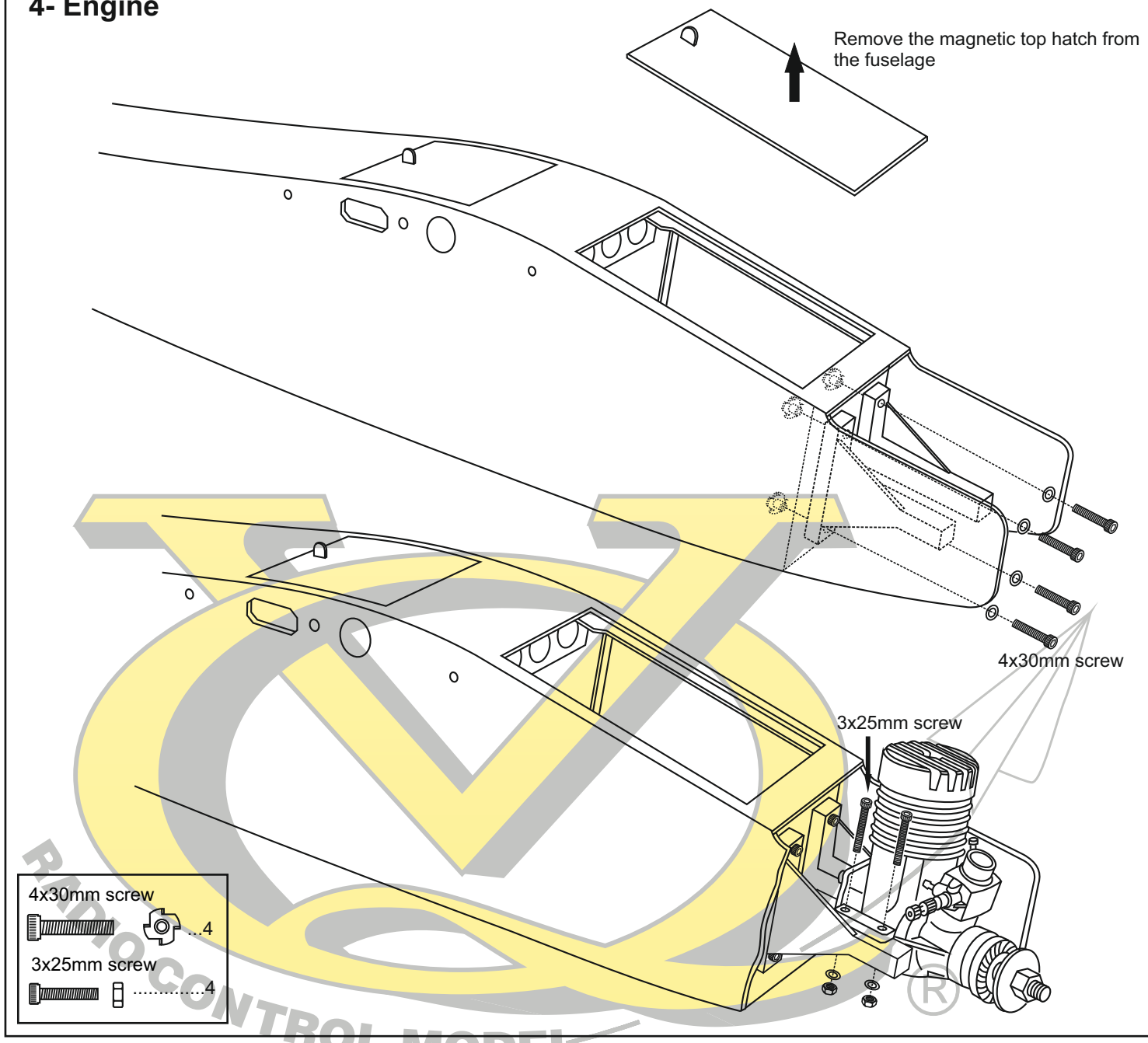
IN CASE OF TAIL GEAR USING

3x15mm screw ...4

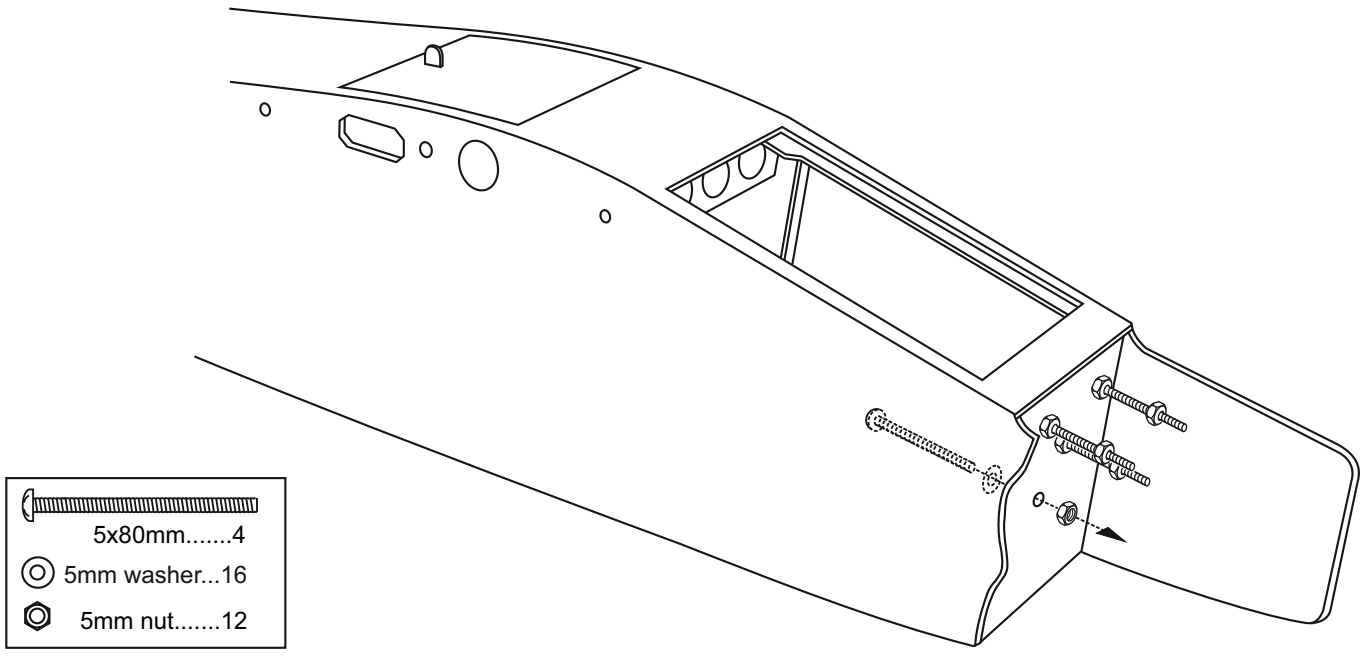
*** WARNING: When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remain tight.**



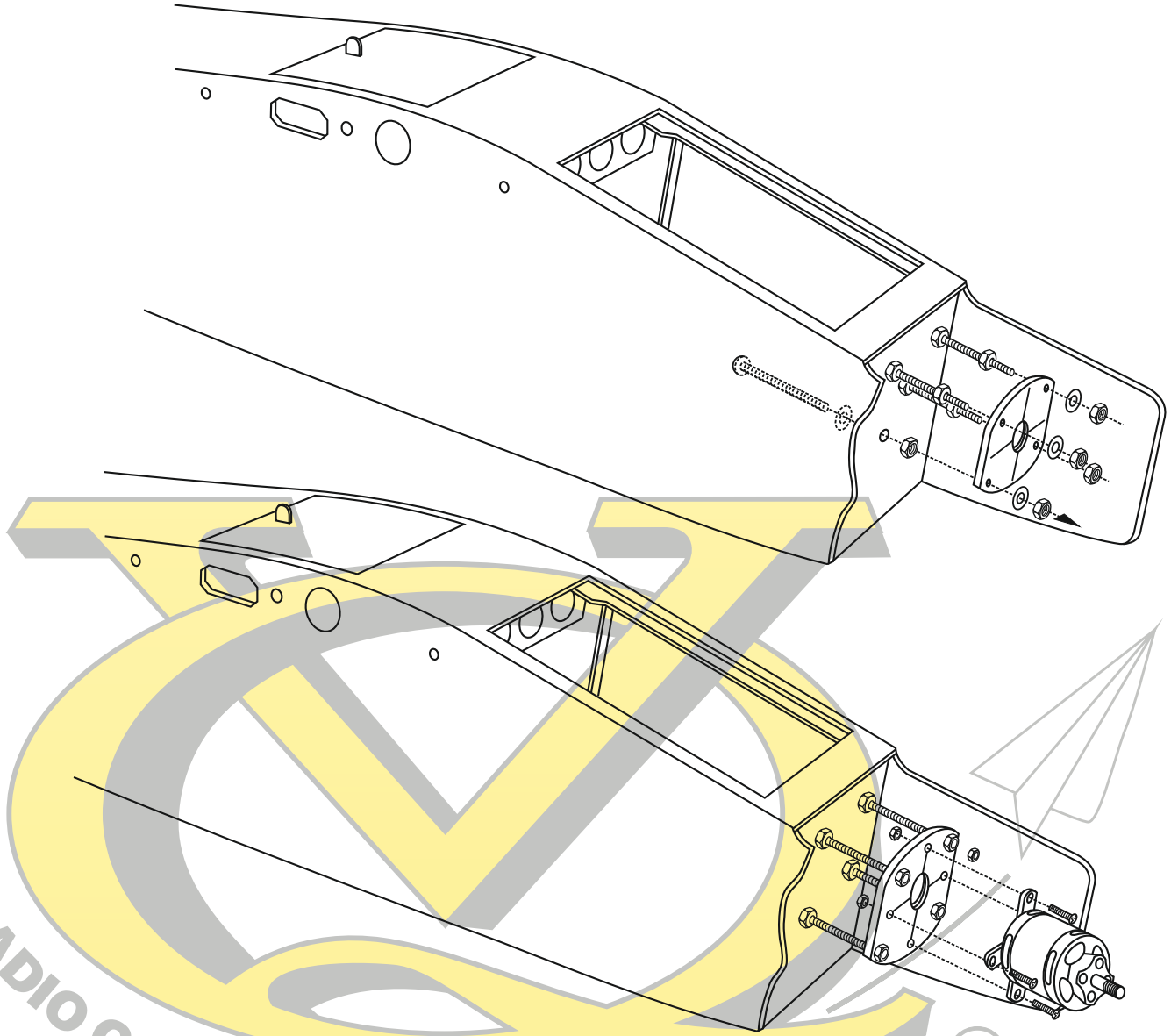
4- Engine



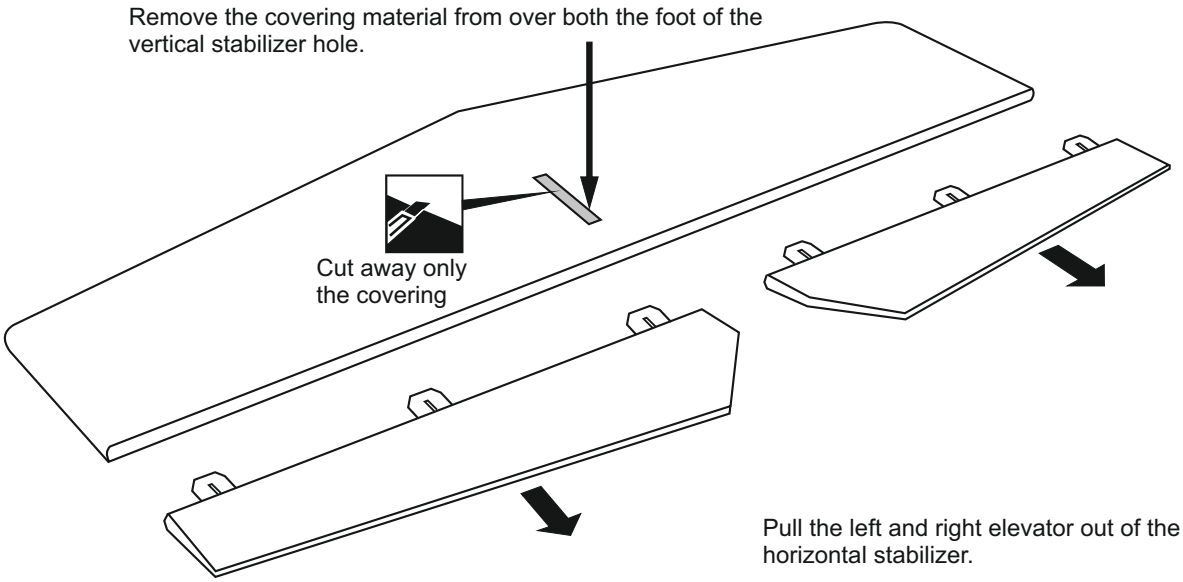
5- Electric Motor



6- Electric Motor

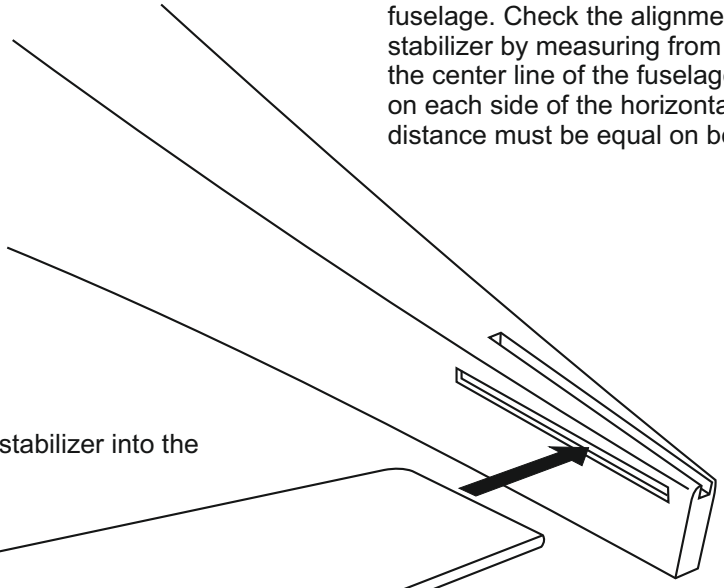


7- Horizontal stabilizer

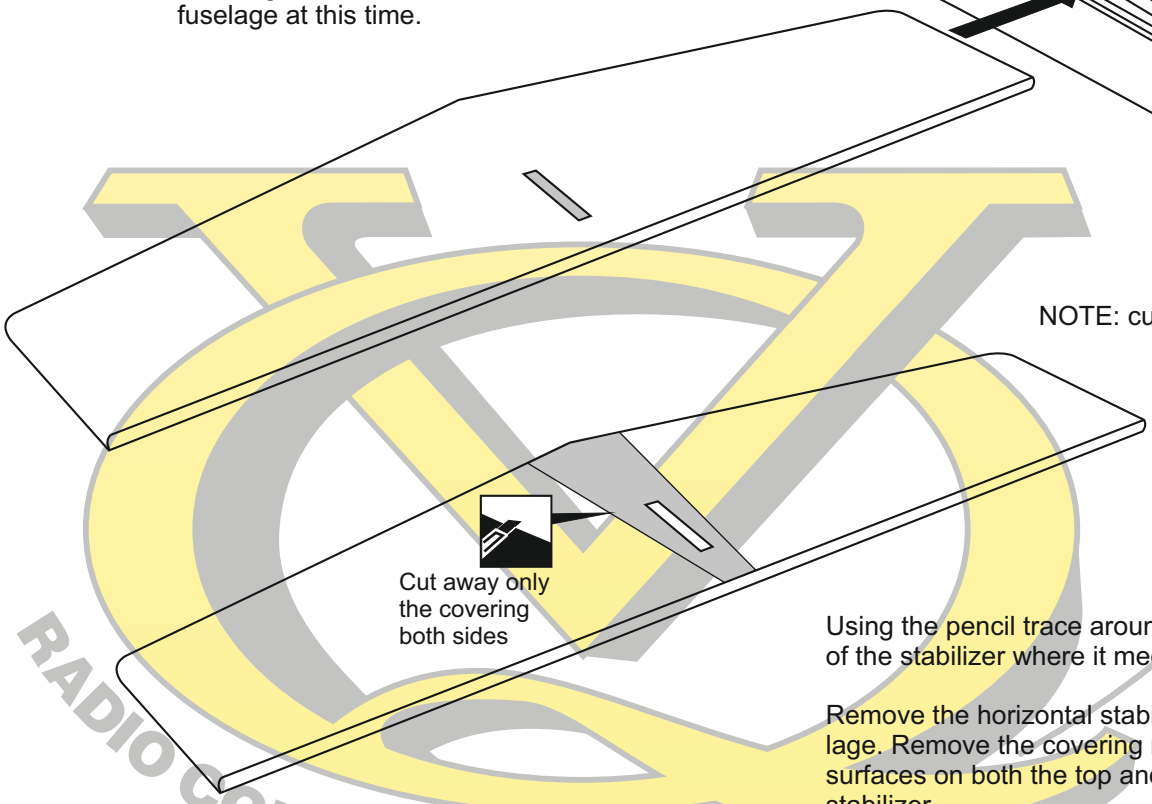


8- Horizontal stabilizer

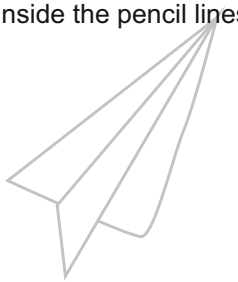
Trial fit the horizontal stabilizer in place on the fuselage. Check the alignment of the horizontal stabilizer by measuring from a fixed point along the center line of the fuselage to the leading edge on each side of the horizontal stabilizer. The distance must be equal on both sides.



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



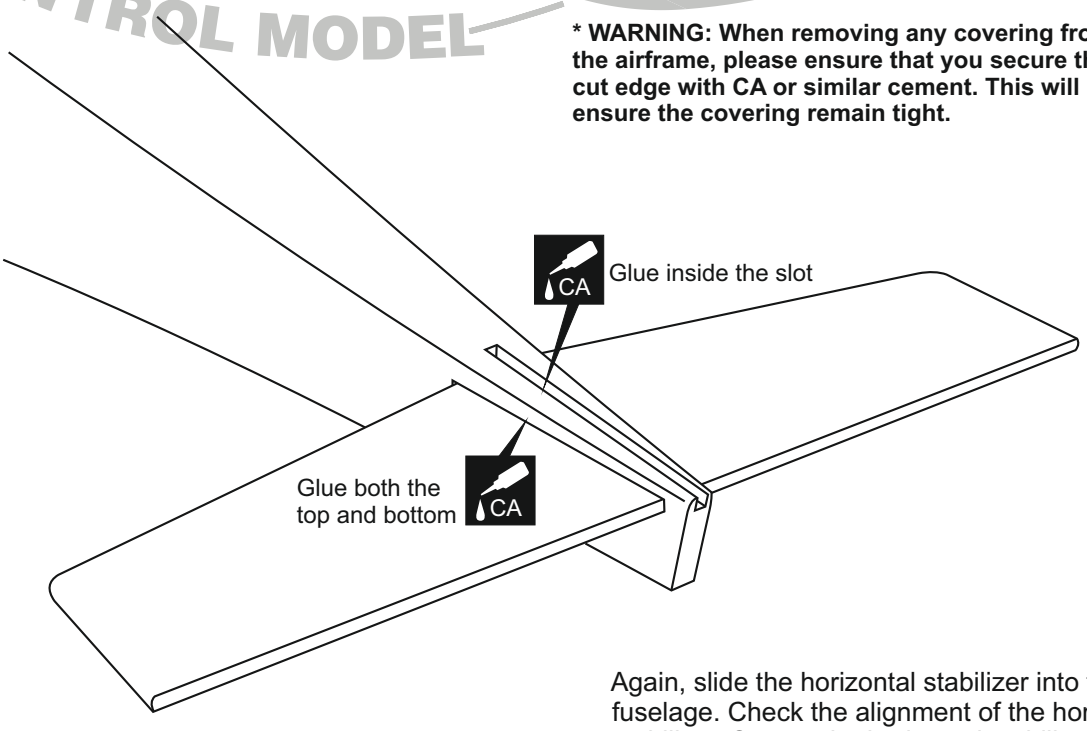
NOTE: cut inside the pencil lines.



Using the pencil trace around the top and bottom of the stabilizer where it meets the fuselage.

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.

*** 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.**

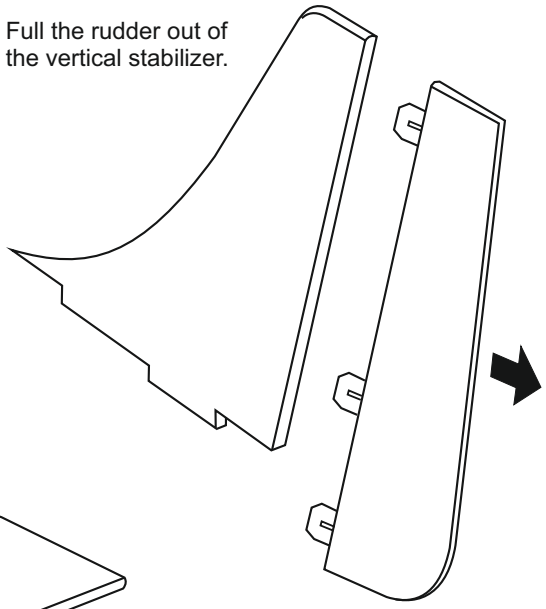


Again, slide the horizontal stabilizer into the fuselage. Check the alignment of the horizontal stabilizer. Secure the horizontal stabilizer in place using the **thin CA glue**.

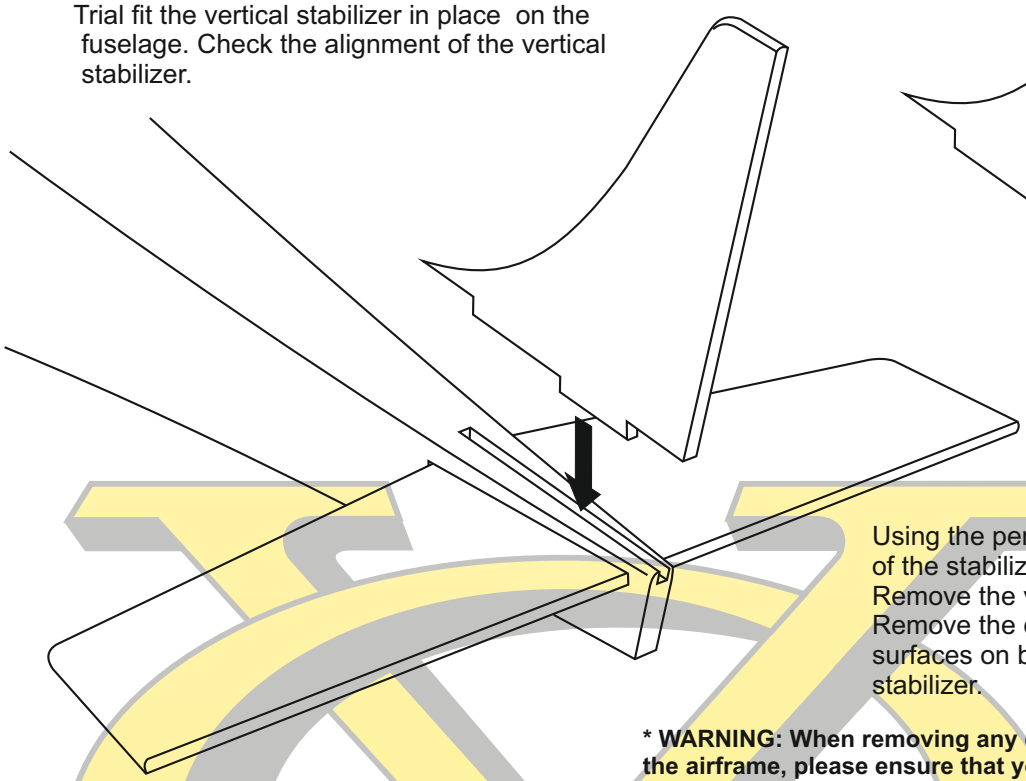
Securely glue together. If coming off during flight, you lose control of your air plane.

9- Vertical stabilizer

Full the rudder out of the vertical stabilizer.

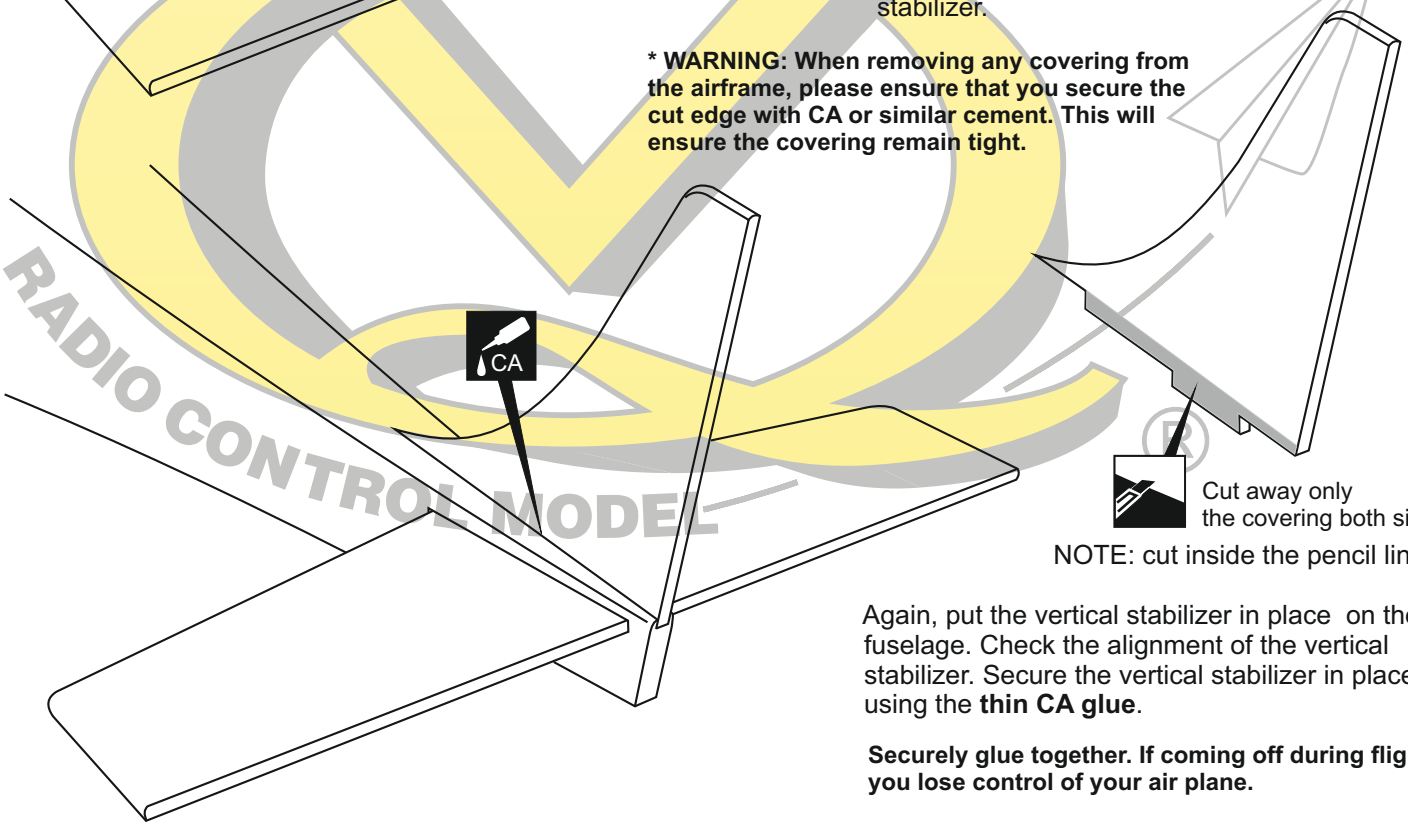


Trial fit the vertical stabilizer in place on the fuselage. Check the alignment of the vertical stabilizer.



Using the pencil trace around the right and left of the stabilizer where it meets the fuselage. 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.

*** 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.**



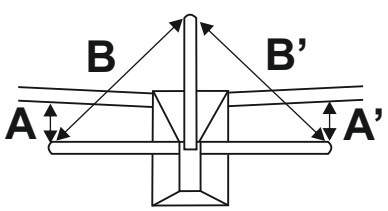
Cut away only the covering both sides

NOTE: cut inside the pencil lines.

Again, put the vertical stabilizer in place on the fuselage. Check the alignment of the vertical stabilizer. Secure the vertical stabilizer in place using the **thin CA glue**.

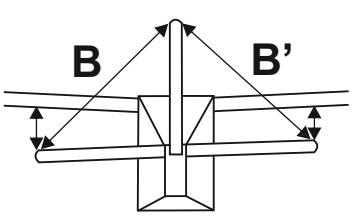
Securely glue together. If coming off during flight, you lose control of your air plane.

Attach the Vertical Stabilizer and the Horizontal Stabilizer



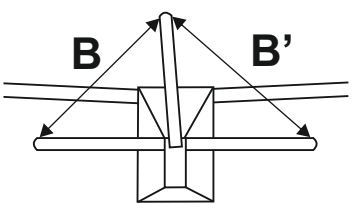
Correct

A=A' B=B'



Incorrect

A≠A' B≠B'

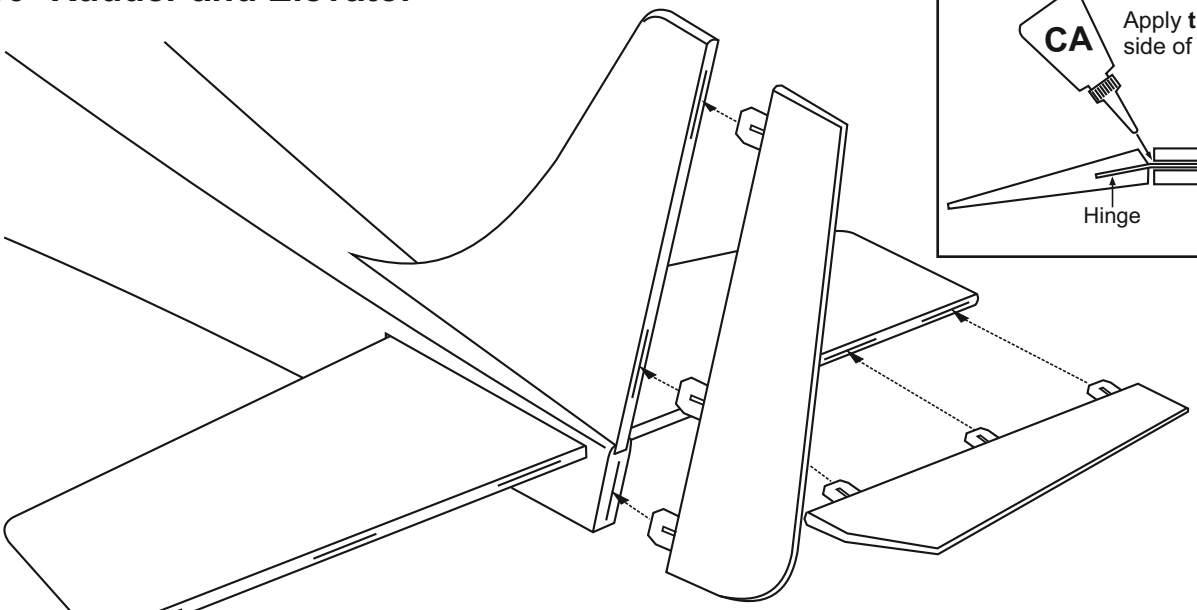


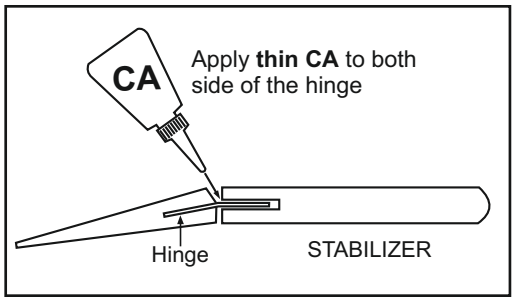
Incorrect

B=B'

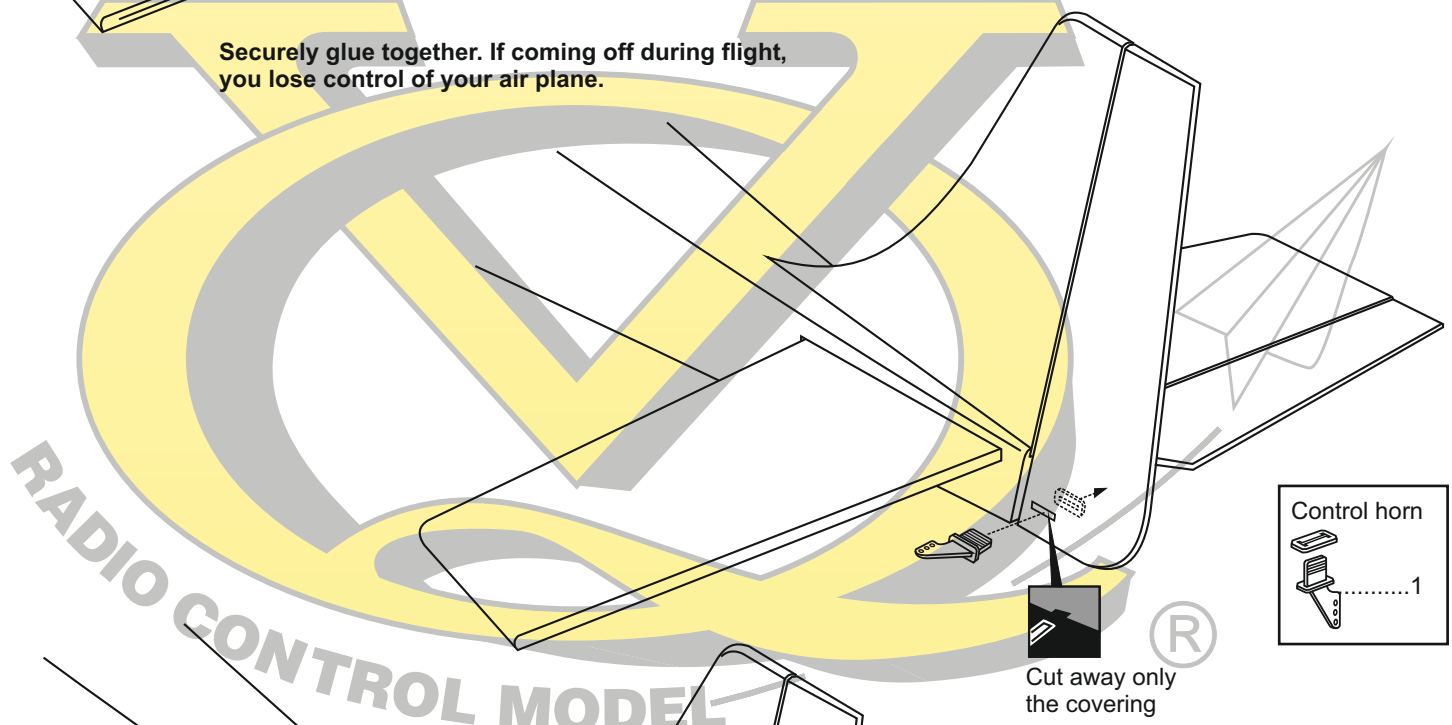
Check the alignment of the horizontal stabilizer by measuring from a fixed point along the center line of the fuselage to the leading edge on each side of the horizontal stabilizer. The distance must be equal on both sides. If not, adjust the stabilizer until the measurements are the same.

10- Rudder and Elevator

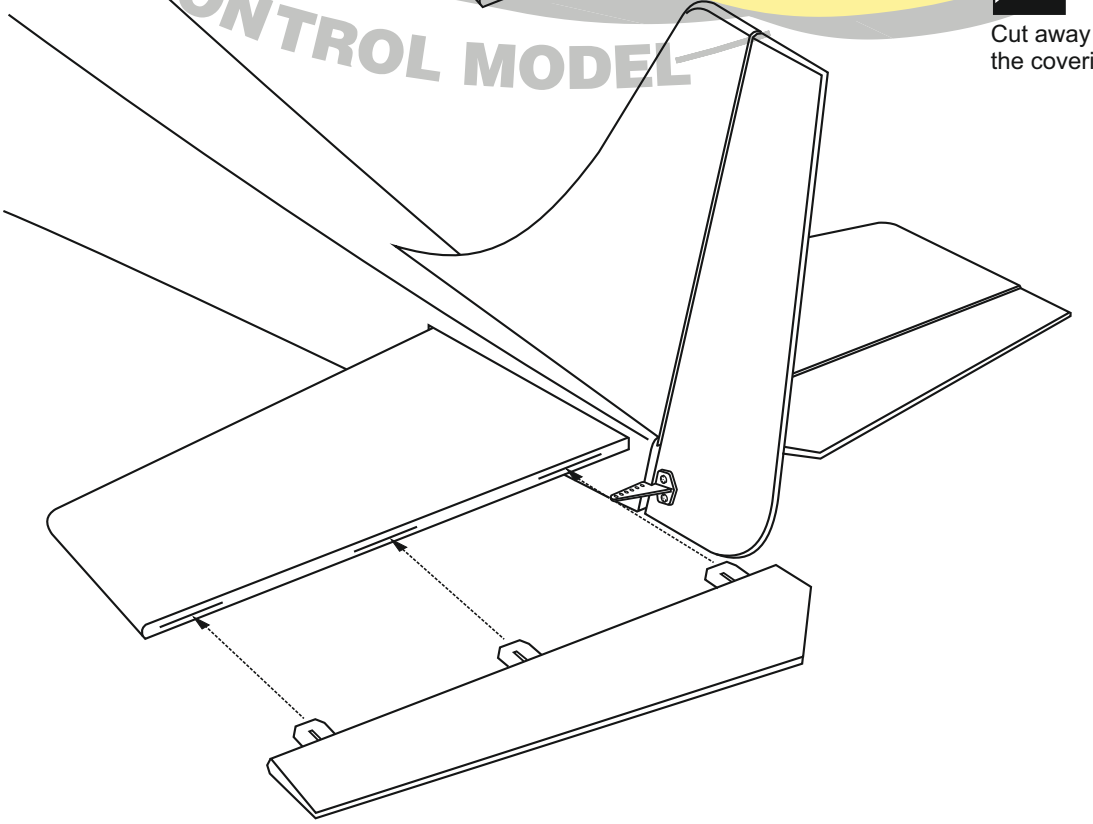




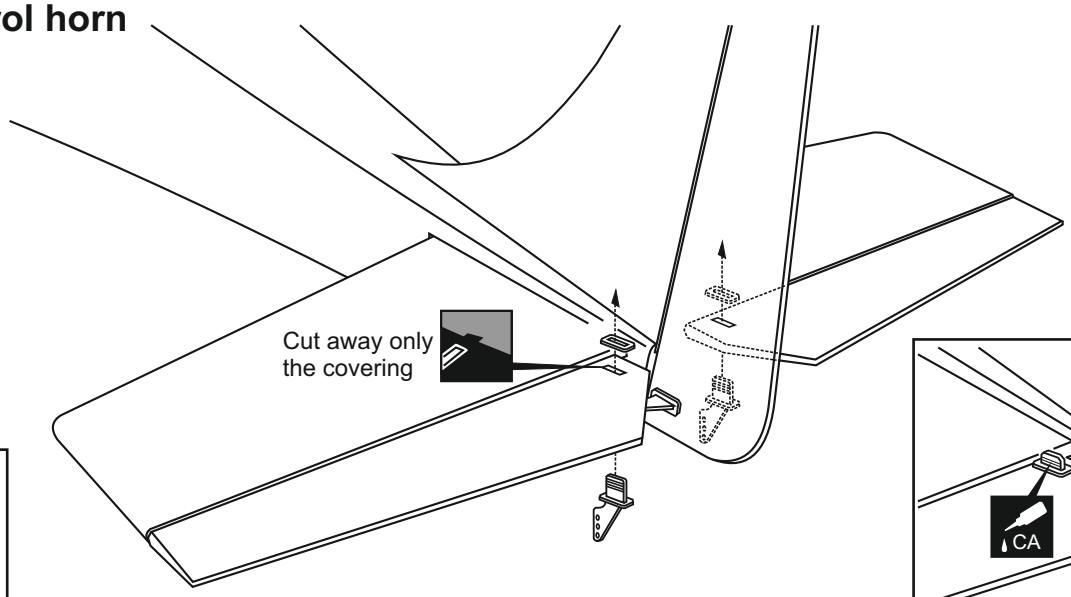
Securely glue together. If coming off during flight, you lose control of your air plane.



Cut away only the covering

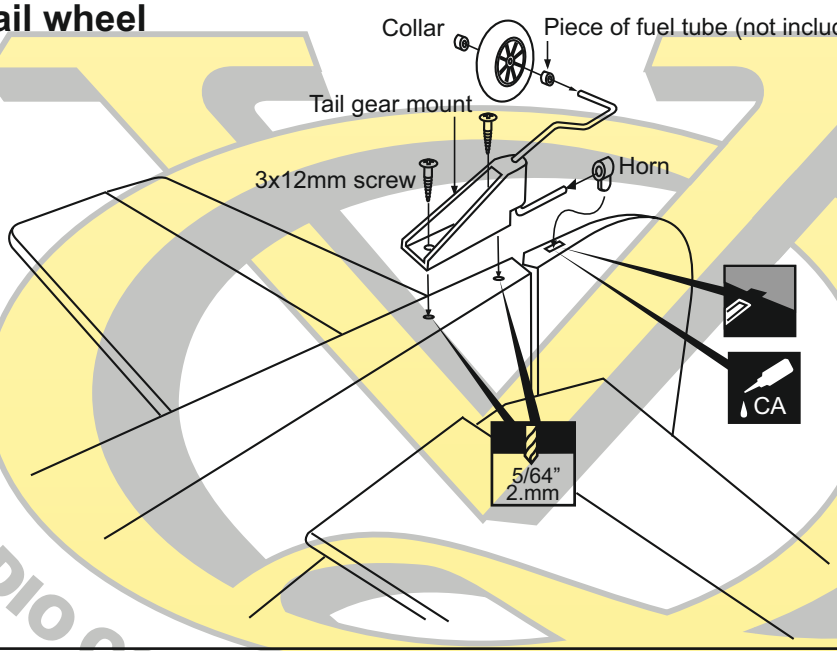


11- Control horn

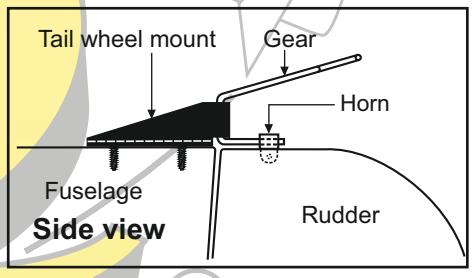


Control horn
.....2

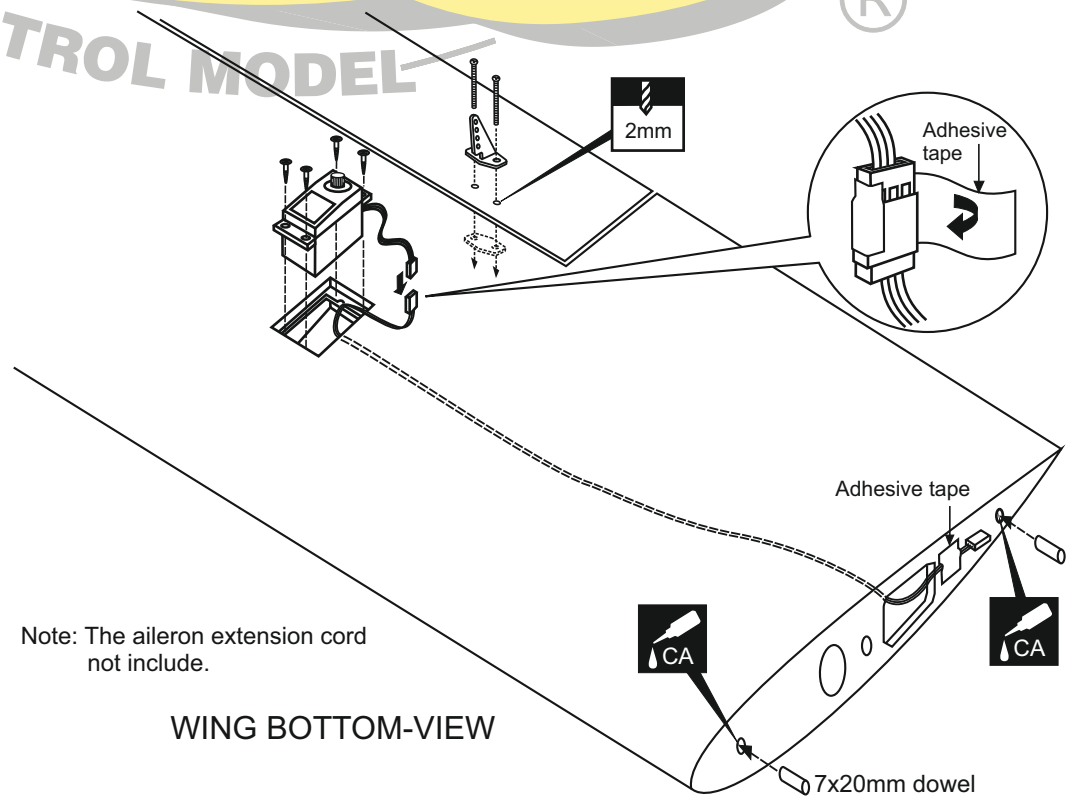
12- Tail wheel



Horn 1
2.2mm collar.....1
Vis 3x12mm.....2
Tail wheel.....1
Tail gear mount
.....1



13- Wing



.....2
2x175mm throttle rod
.....2
Control horn
.....2
2x30mm screw
.....4
7x20mm dowel
.....4

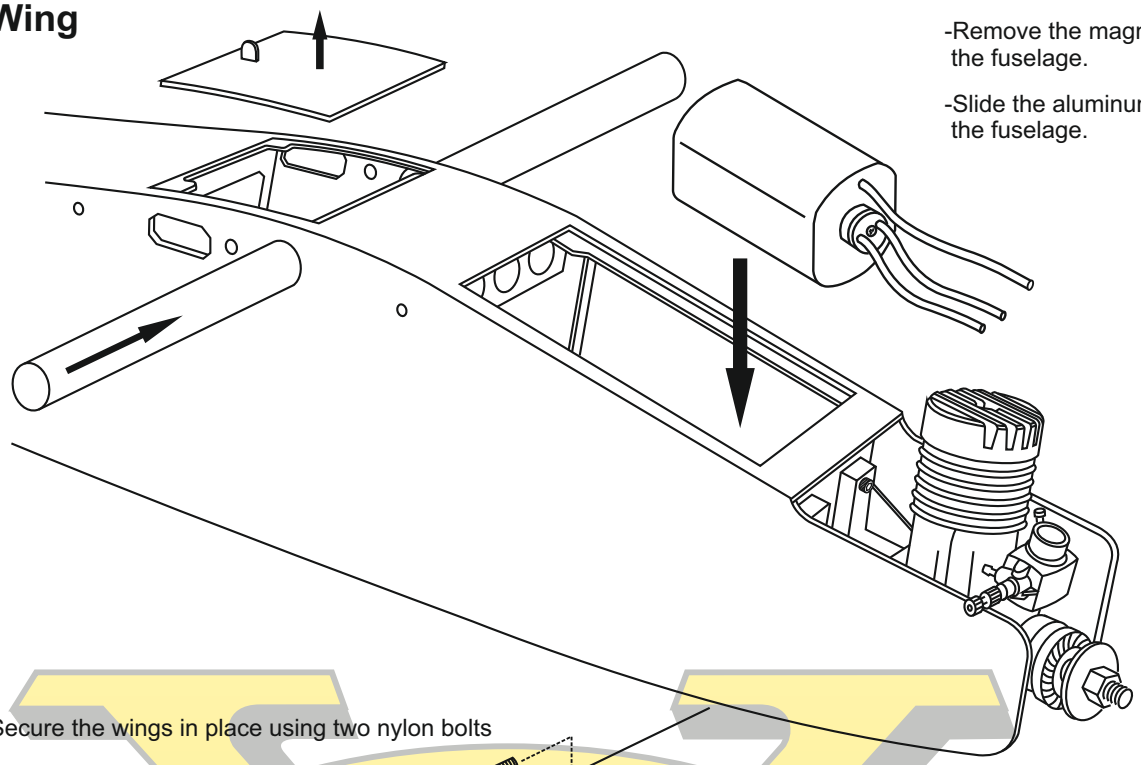
Note: The aileron extension cord
not include.

WING BOTTOM-VIEW

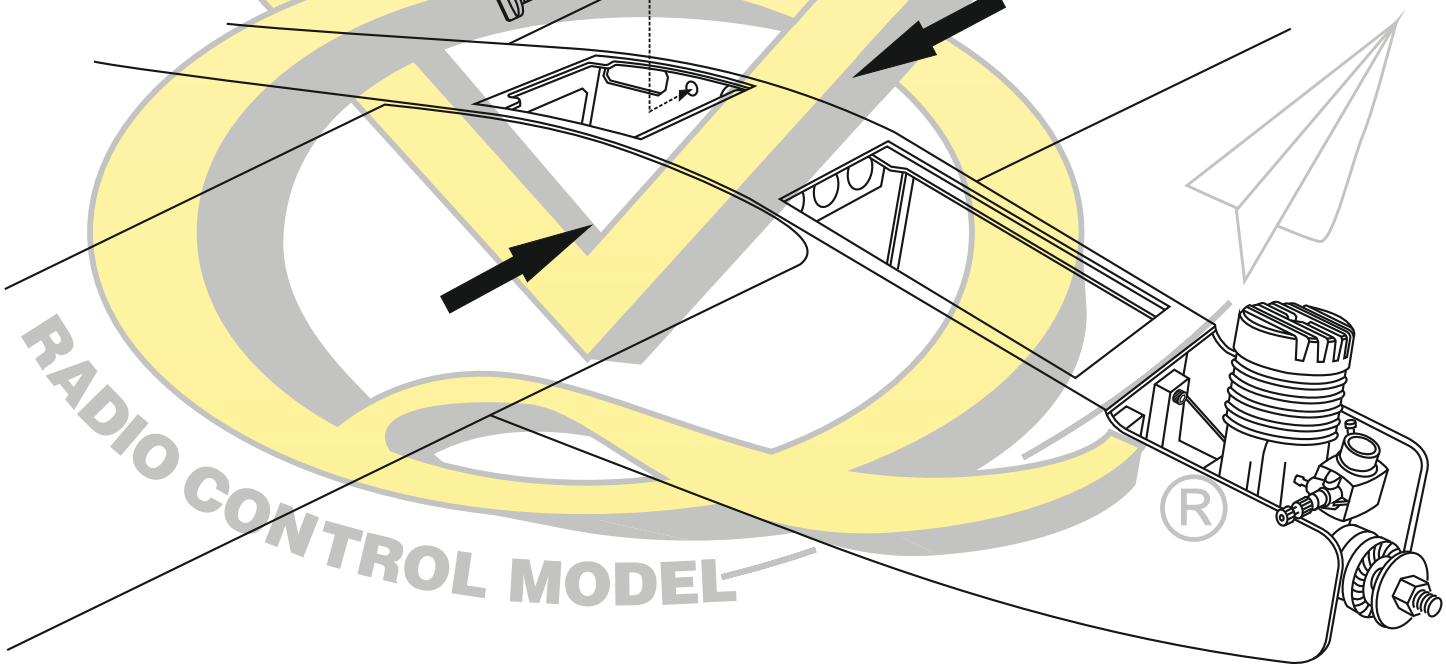
14- Wing

-Remove the magnetic wing hatch from the fuselage.

-Slide the aluminum tube throughout the fuselage.

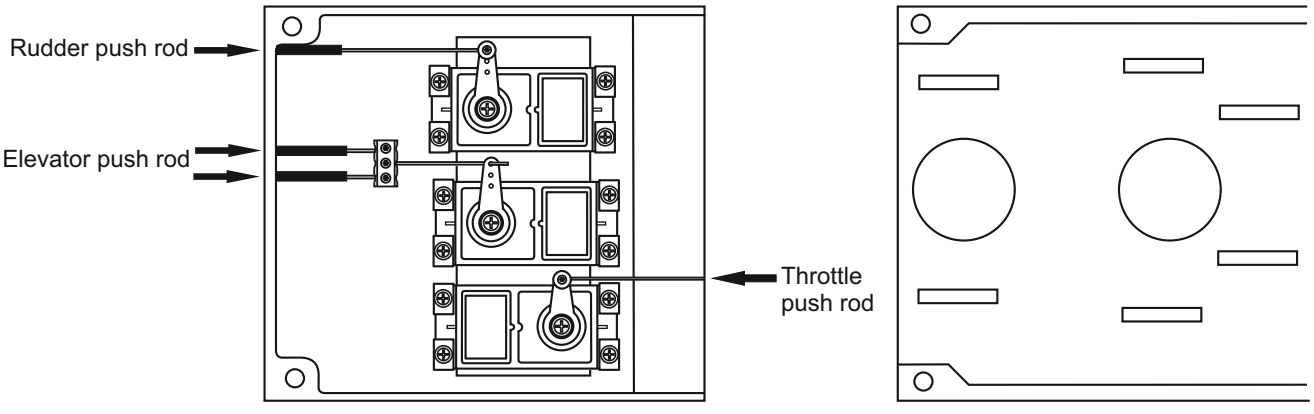


-Secure the wings in place using two nylon bolts



15- Servo

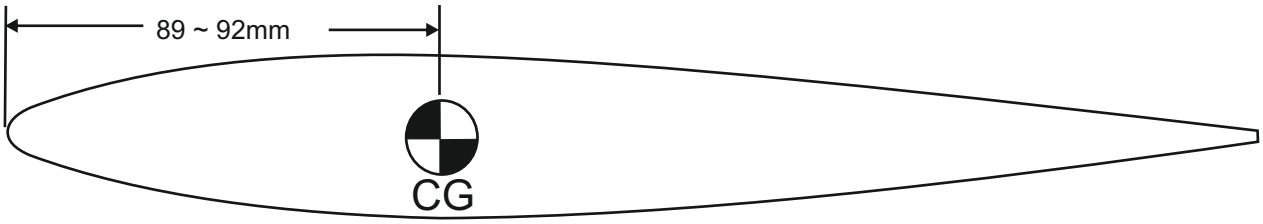
FUSELAGE - TOP VIEW



.....1	2x900mm (Rudder and elevator push rod)	3
.....2	1.2x550mm rod (Throttle push rod)	

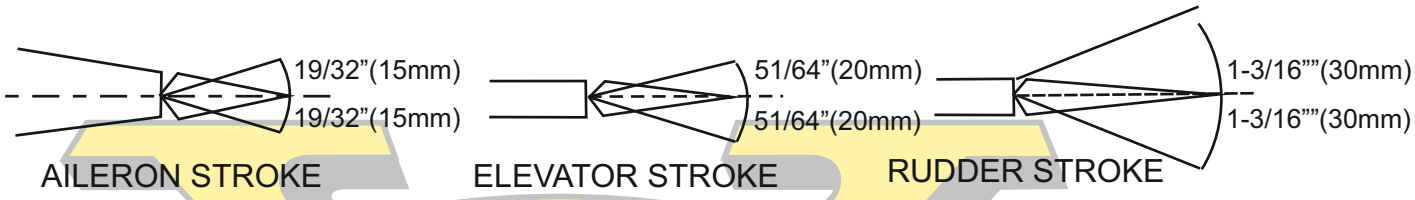
16- Balance

The recommended C.G (Center of Gravity) location for the Monaro is 89 ~ 92mm
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 achieve.



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.

17- Control surface



WARNING: Please do not clean your model with pure alcohol or strong solvent, only use liquid soap with water or use glass cleaner to clean on surface of your model to keep the colour not fade.