

Radio control model / Flugmodell

BEECHCRAFT BONANZA

VQ No: VQA136GE - VQA136US



ALL Balsa, Plywood construction and almost ready to fly

Instruction manual / Montageanleitung

SPECIFICATIONS

Wingspan:.....1580mm (62.2in)
Length:.....1190mm (46.8 in)
Electric Motor:.....See next page
Glow Engine:.....46 2-T / 70 4-T
RTF Weight: 3.2Kg / 7.05lbs (Will vary with
Equipment Used).
Radio:.....6 Channel / 7-8 Servos
Function: Ailerons-Elevator-Rudder-Throttle
Flaps-Optional Retractable Landing Gear.

TECHNISCHE DATEN

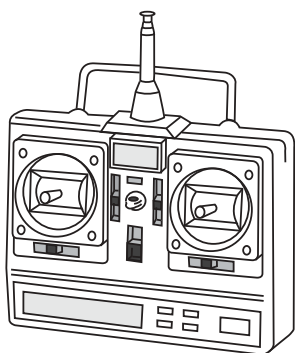
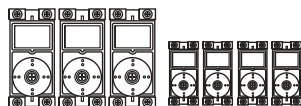
Spannweite:.....1580mm
Länge:.....1190mm
Elektroantrieb.....(siehe nächste Seite)
Verbrennerantrieb:.....7.45cc - 11.5cc
Fluggewicht:.....3.2Kg
Fernsteuerung.....6 Kanal / 7-8 Servos



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 inexperienced.

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) More info: www.pichler-modellbau.de

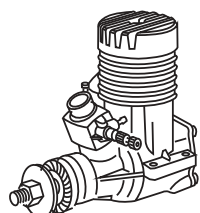


Minimum 6 channel radio
for airplane with 5 (4 for EP) standard servos
and two servo mini.

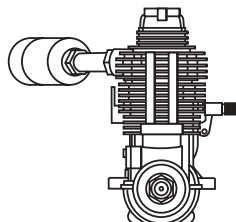
.Motor control x1(for GP) .Elevator x1
.Rudder x1. Aileron x2mini servo. Flapx2 mini servo



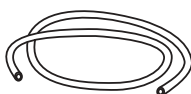
10.5x6 for .40 - 2 cycle engine
11x6 for .46 - 2 cycle engine
12x6 for .60 - 4 cycle engine
12x7 for .70 - 4 cycle engine
13x7 for electric motor



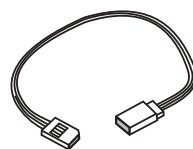
.46 ~ .50 - 2 cycle



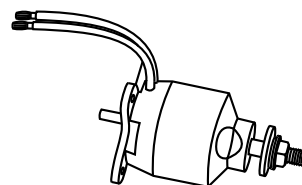
.60 ~ .70 - 4 cycle



Silicone tube



Extension for aileron
servo, retract servo
and Rx battery pack.



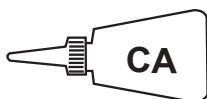
Antrieb Tuning (Kraftvoller Kunstflug):

BOOST 60 Brushless Combo Set, Best.Nr. C3174
LiPO Akku RED POWER 4250-5S, Best.Nr. C4547
Luftschraube 13*8, Best.Nr. C2846

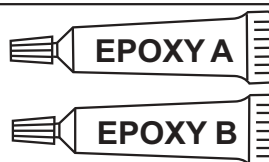
GLUE (Purchase separately)



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 

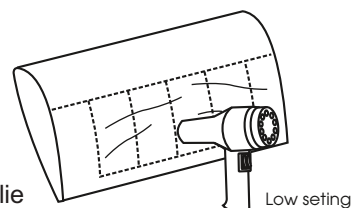
Awl 

Wire Cutters 

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

If exposed to direct sunlight and/or heat, wrinkles can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with low temperature. You can fix the corners by using a hot iron.

Bei Sonneneinstrahlung und/oder Wärme kann die Folie erschlaffen bzw. Falten entstehen. Verwenden Sie ein Warmluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden !



Low setting

Symbols used throughout this instruction manual, comprise:



Drill holes using the stated
size of drill
(in this case 1.5 mm $\varnothing$)



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



Löcher bohren mit dem ange-
gebenen 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
zusammgebaut



Nicht enthalten. Teile müssen
separat gekauft werden.

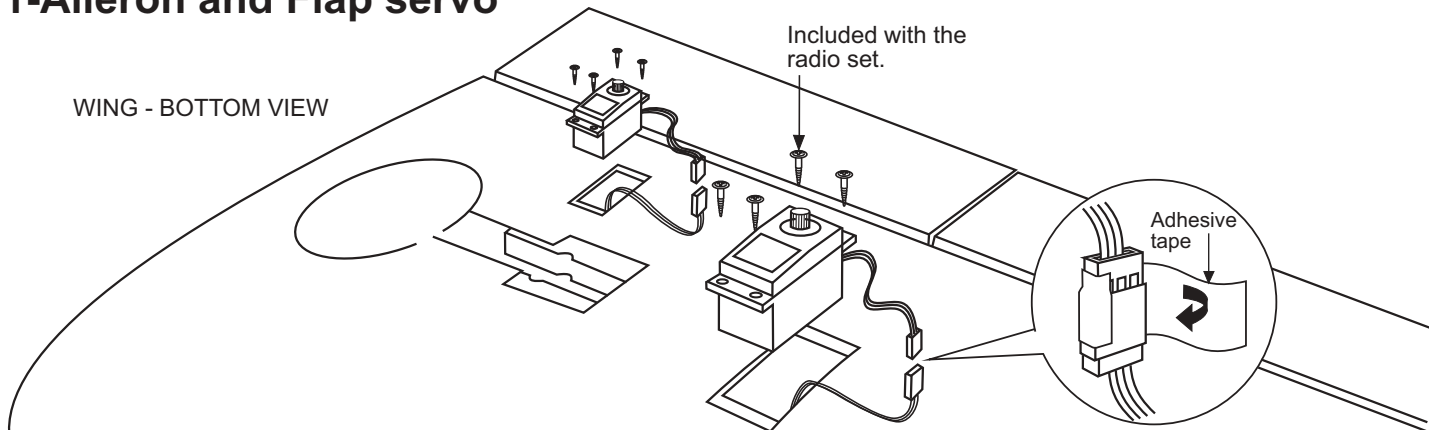
Read through the manual before you begin, so you will have an overall idea of what to do.

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-Aileron and Flap servo

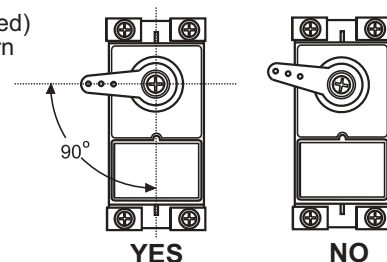
WING - BOTTOM VIEW



- 1-Cut away the covering of the wing bottom where the aileron servo goes.
- 2-Connect the aileron servo cord to the aileron extension cord.
- 3-Install the aileron servo on the servo mount.

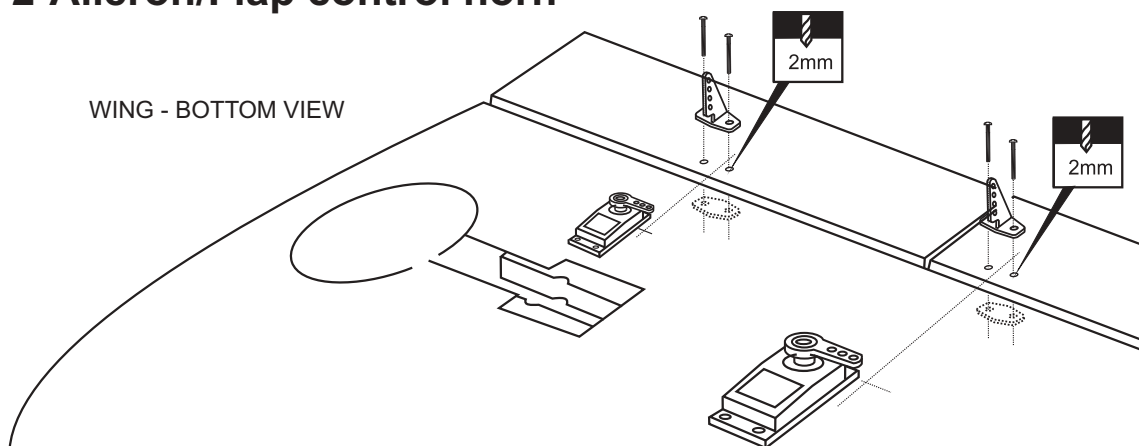
Do the same way with second wing half.

-Switch on the radio (trims centered) then mount the ailerons servo horn in neutral position.
-The servo horn should be perpendicular to the servo

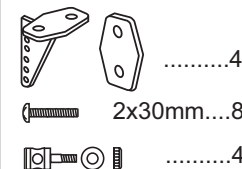


2-Aileron/Flap control horn

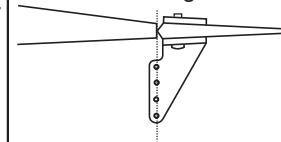
WING - BOTTOM VIEW



Plastic control horn



Control horn Alignment

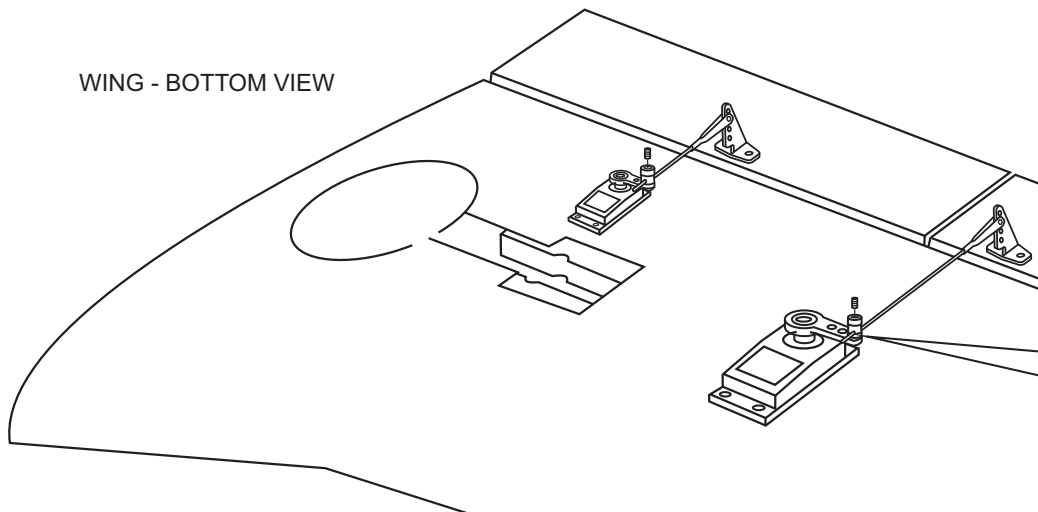


- 1-Depending on the position of the linkage, determine the location of aileron control horn. The horn holes must be perfectly aligned with the axis of articulation.
- 2-Mark the position of the "foot" of the horn on the aileron. Then, with the drill, make the 2 holes.
- 3-Install the aileron control horn as shown.

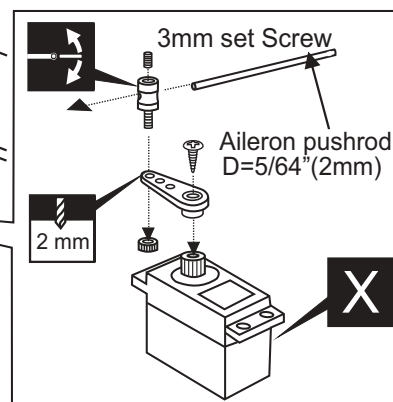
Do the same way with second wing half.

3-Aileron/Flap linkages

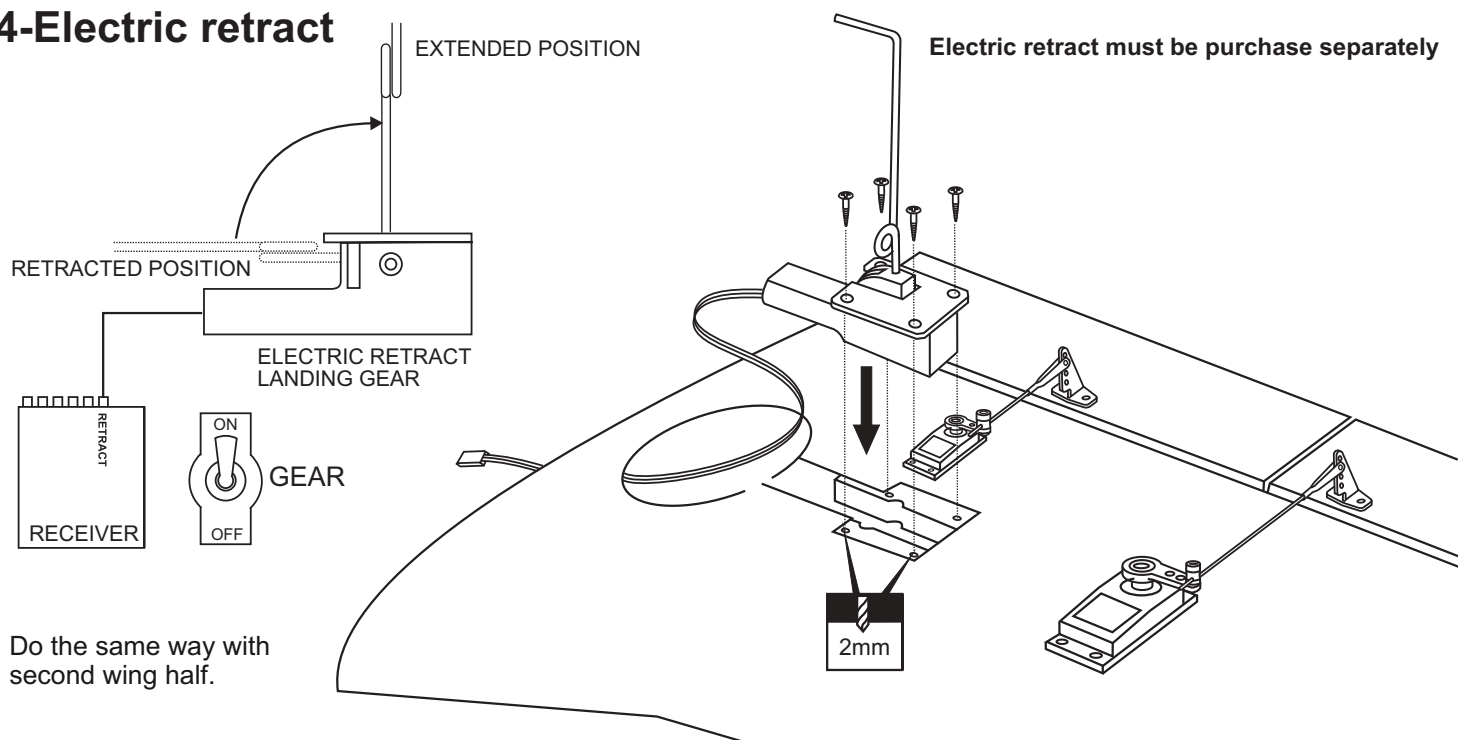
WING - BOTTOM VIEW



Do the same way with second wing half.

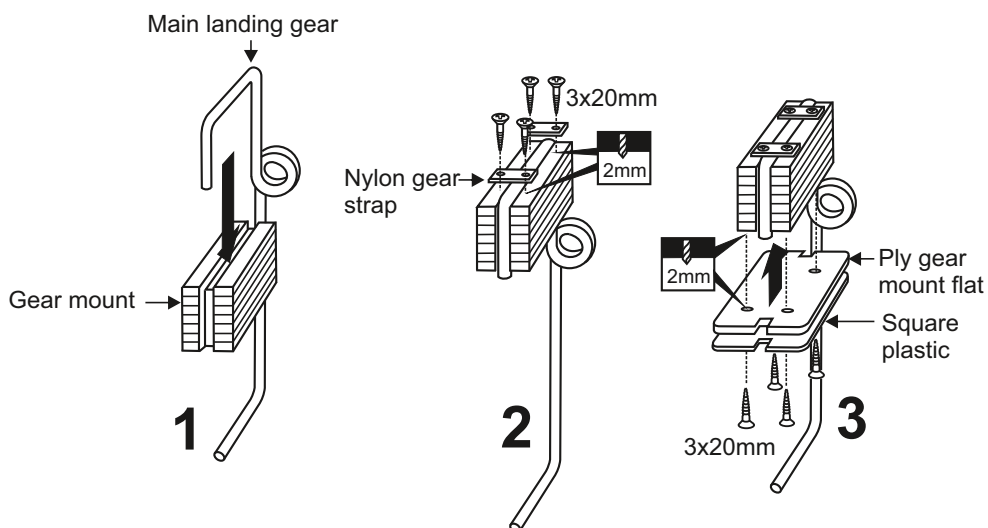


4-Electric retract

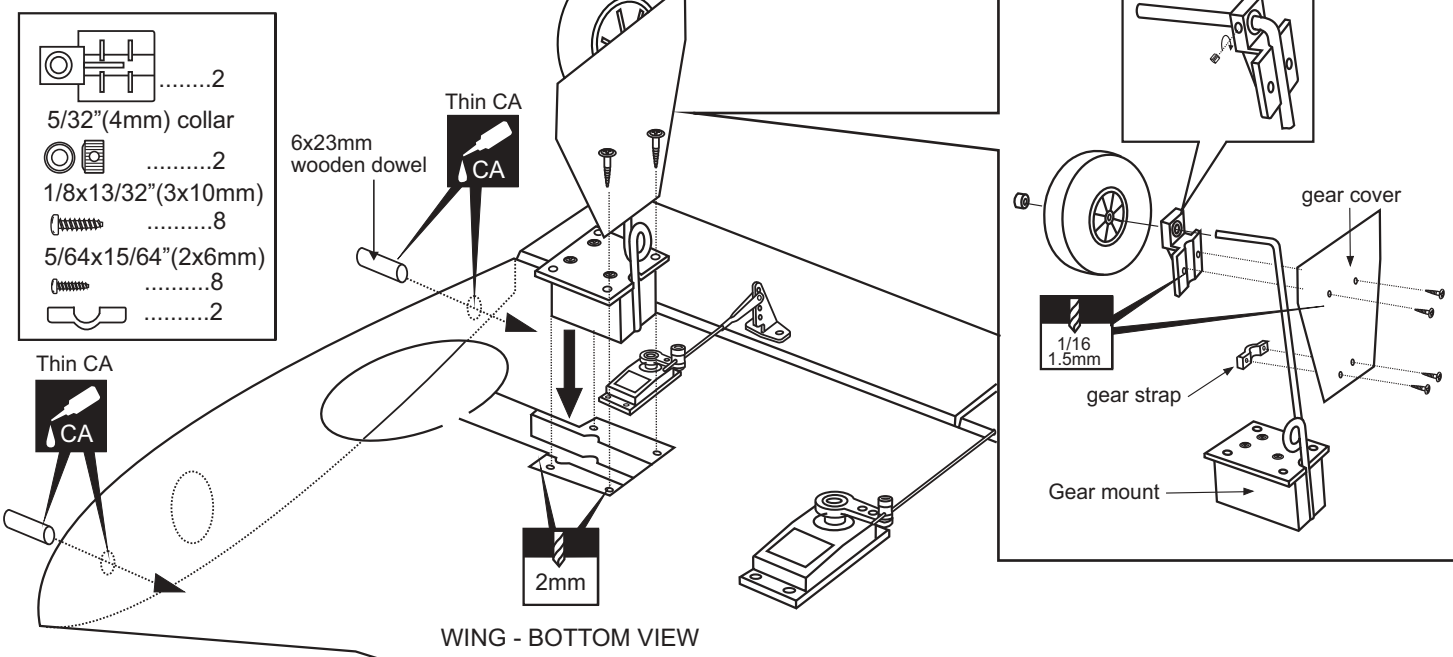


5-Fixed gear

- 3x12mm screw8
- 3x20mm screw16
- Nylon gear strap4
- Square plastic x 2
- Gear mount x 2
- Ply gear mount plate x 2

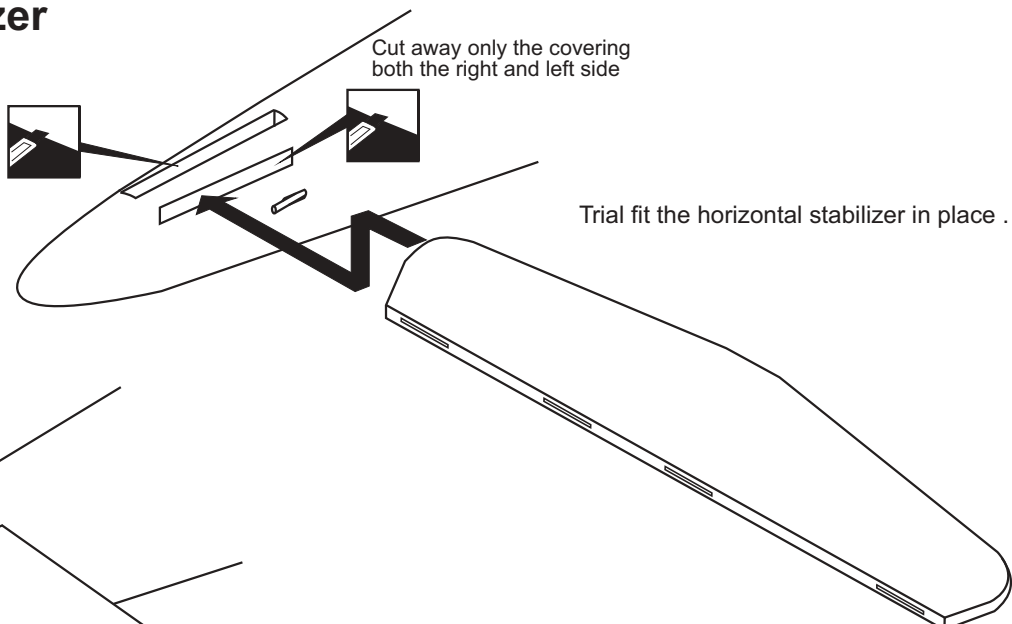


6-Fixed gear installation

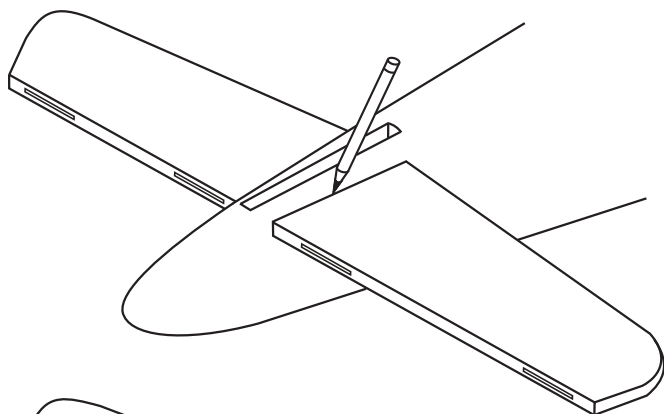


7-Horizontal Stabilizer

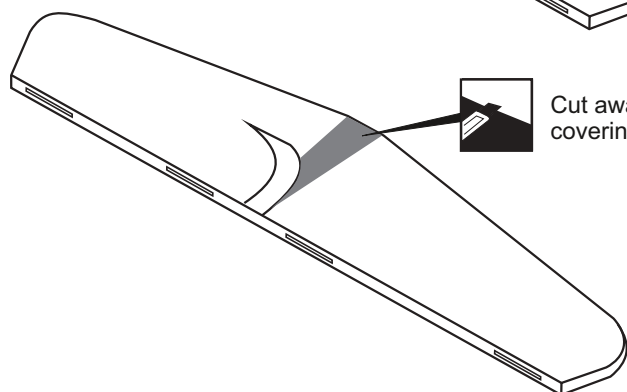
Cut away only the covering
both the right and left side



Trial fit the horizontal stabilizer in place .

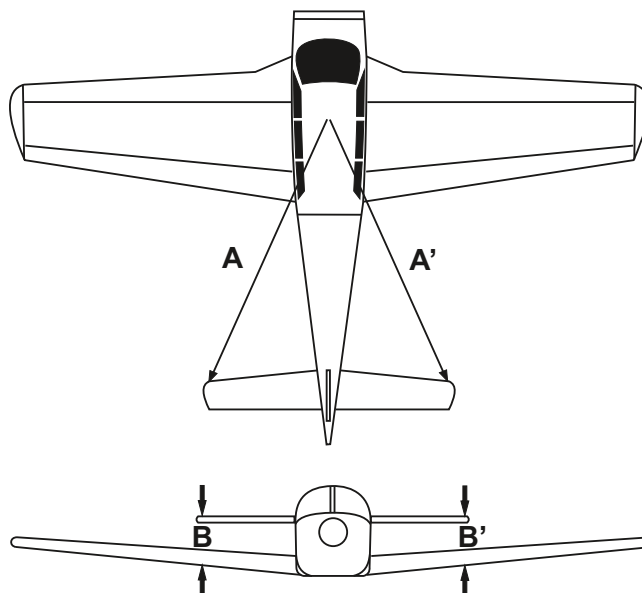


Check the alignment of the horizontal stabilizer. When you are satisfied with the alignment, use a pencil to trace around the top and bottom of the stabilizer where it meets the fuselage.



Cut away only the
covering both sides.

Remove the horizontal stabilizer from the vertical stabilizer. Using a straight edge and a sharp hobby knife, carefully cut away the covering **inside the lines** which were marked above. Be cautious **not to cut into the wood**-this will weaken the structure.



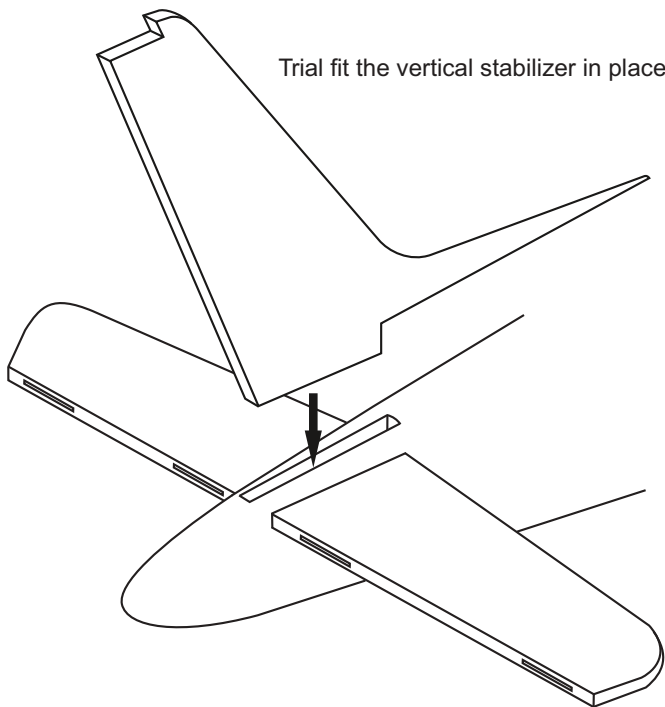
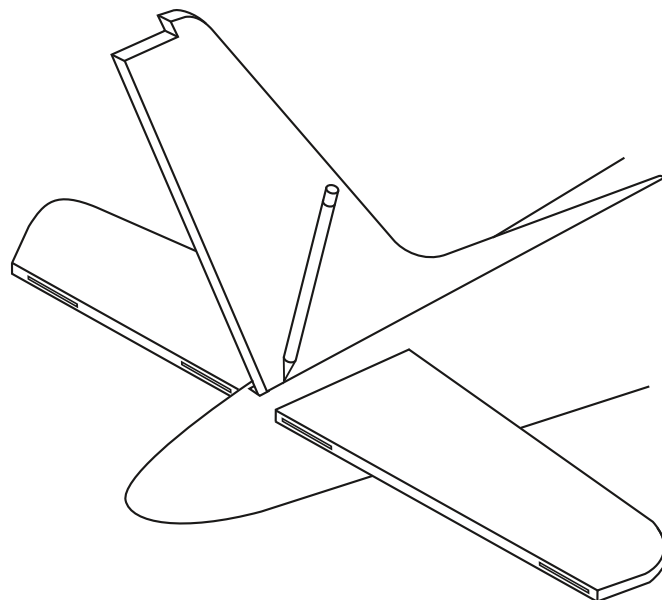
$A=A'$ $B=B'$

Again, slide the horizontal stabilizer into the slot on the fuselage. Check the alignment of the horizontal stabilizer. When you are satisfied with the alignment, glue the both sides of the horizontal stabilizer where it meets the fuselage.

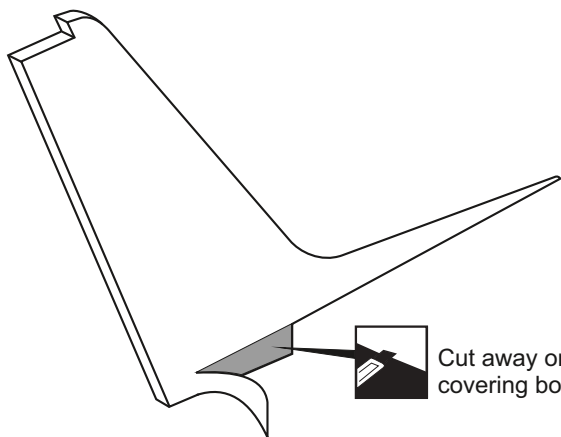
! Securely glue together. If coming off during fly, you lose control of your air plane.

8- Vertical Stabilizer

Trial fit the vertical stabilizer in place .

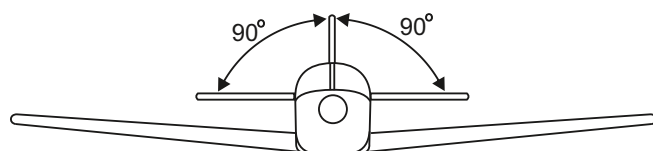
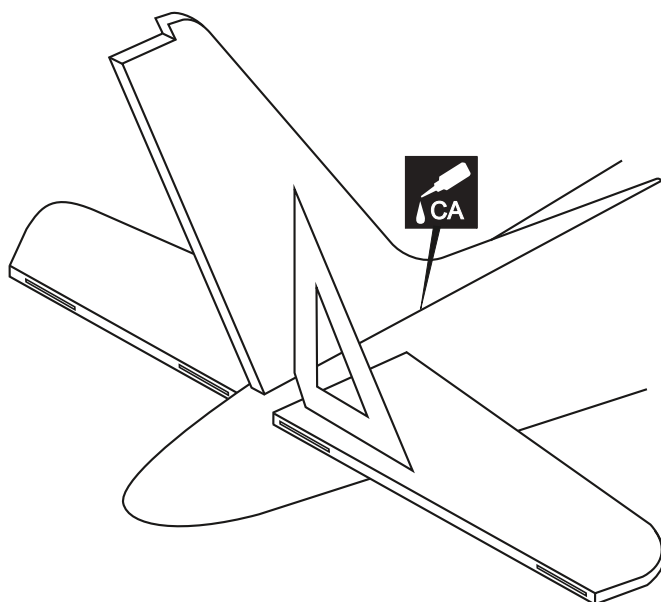


Check the alignment of the vertical stabilizer. When you are satisfied with the alignment, use a pencil to trace around the left and right of the vertical stabilizer where it meets the fuselage.



Cut away only the covering both sides.

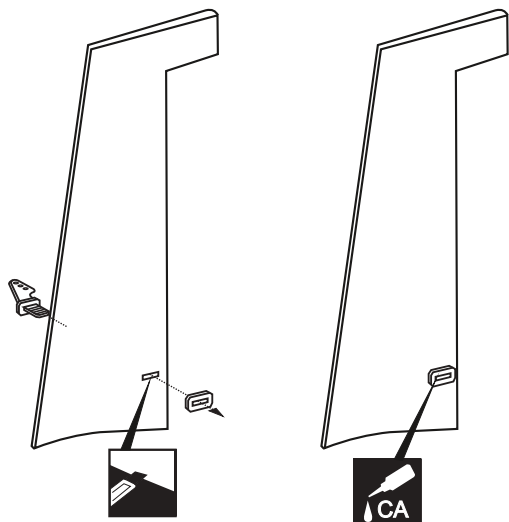
Remove the vertical stabilizer from the fuselage. Using a sharp hobby knife, carefully cut away the covering **below the lines** which were drawn in the previous step. **Do not cut into the woods** as this will affect the structural integrity of the stabilizer.



Again, insert the vertical stabilizer into the fuselage.

With the perpendicular, check the alignment of the vertical stabilizer and the horizontal stabilizer. When you are satisfied with the alignment, secure the vertical stabilizer in place using thin CA glue.

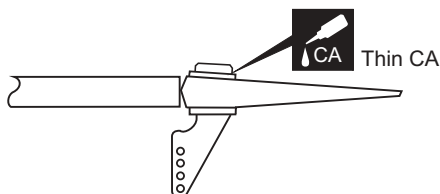
! Securely glue together. If coming off during fly, you lose control of your air plane.



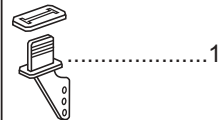
Cut away only the covering



Note: the rectangular hole for the control horn installation is pre-cut at factory.

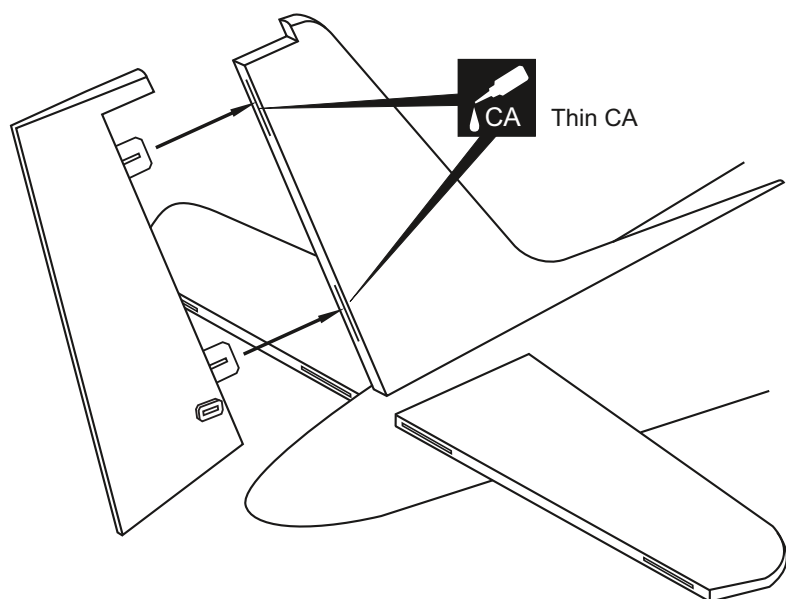
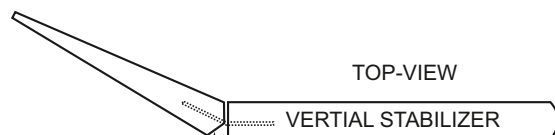


Plastic control horn

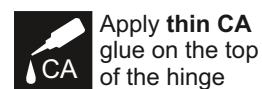


1

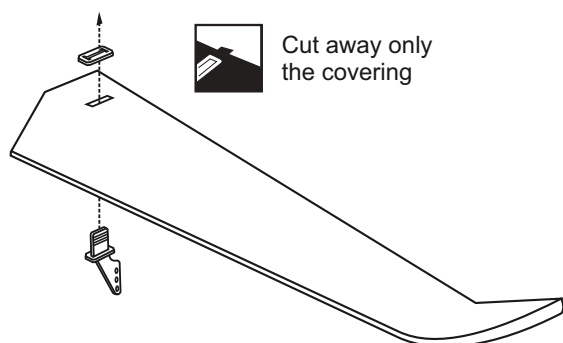
9- Rudder



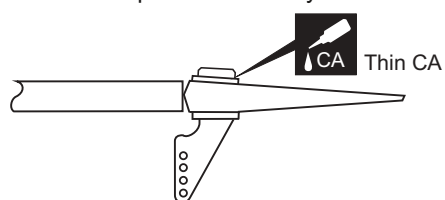
Apply a thin layer of petroleum jelly



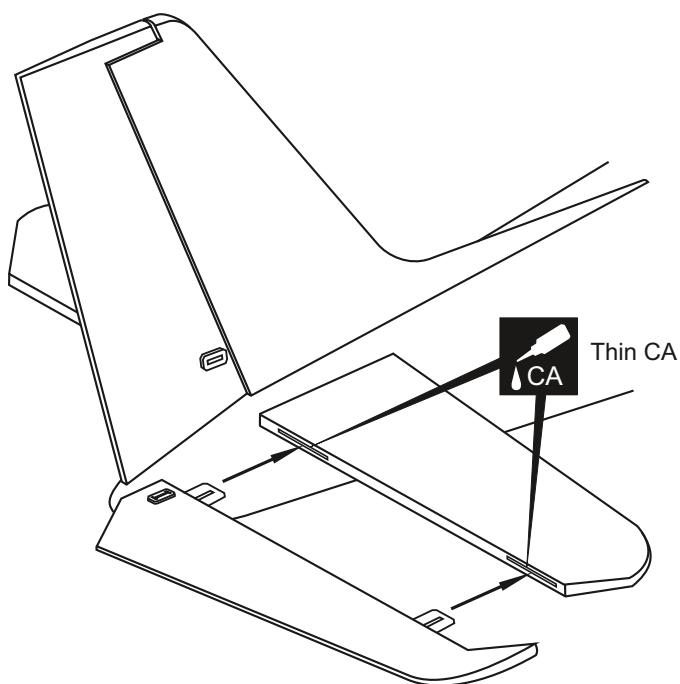
! Securely glue together. If coming off during fly, you lose control of your air plane.



Note: the rectangular hole for the control horn installation is pre-cut at factory.

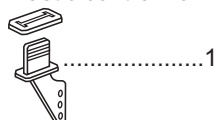


! Securely glue together. If coming off during fly, you lose control of your air plane.

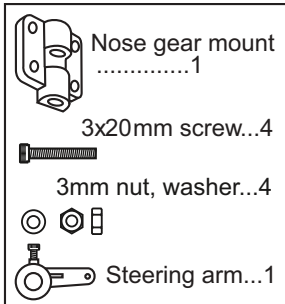
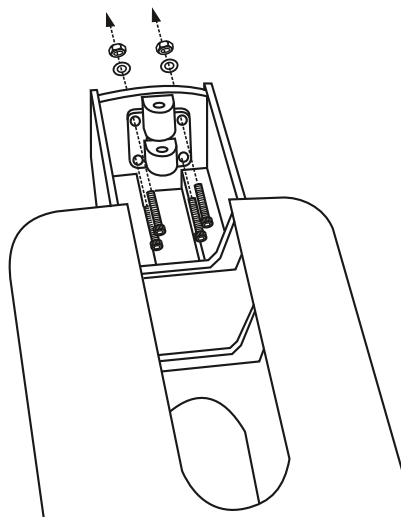
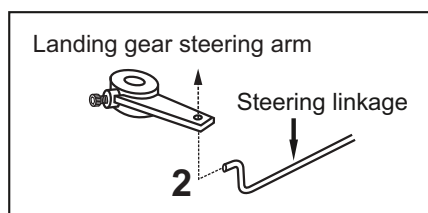
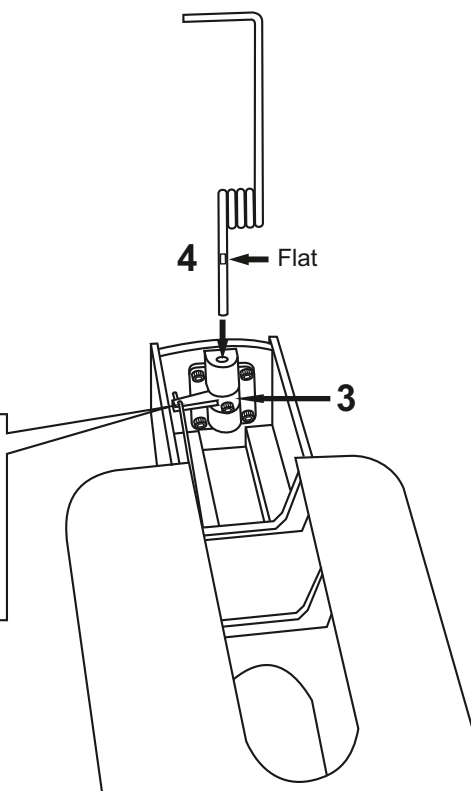
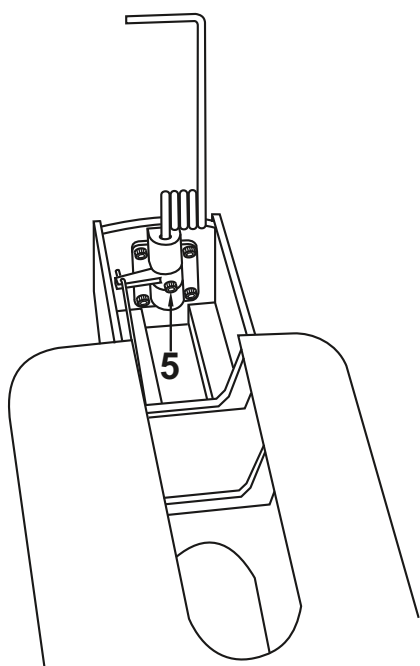


Repeat the previous procedures to hinge the second elevator to the other side of the horizontal stabilizer.

Plastic control horn

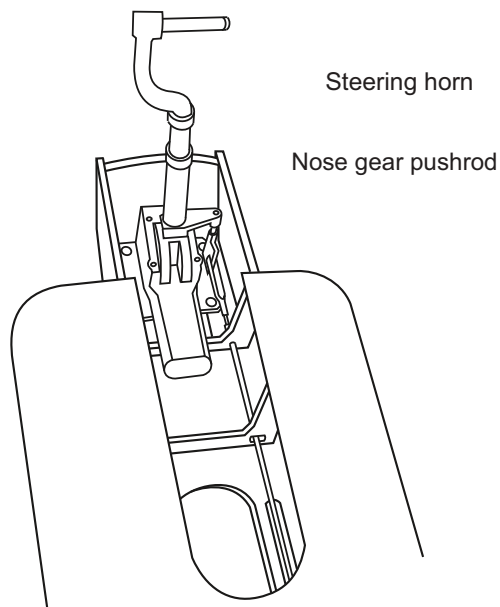
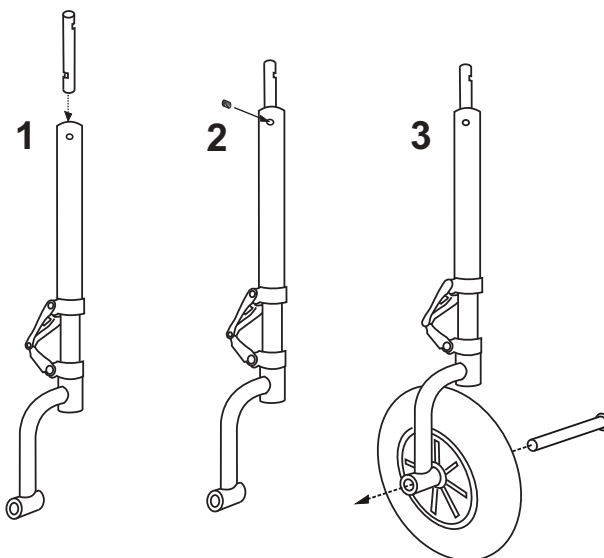


10-Nose gear



- 1- Route the steering linkage into the fuselage and through the fire-wall.
- 2- Insert "Z" bend of steering linkage inside the hole of front landing gear Steering arm.
- 3- Position the steering arm inside the front landing gear mount already Attached to the firewall.
- 4- Slide in the front gear leg with the flat to back through the bearing and steering arm.
- 5- Screw steering arm on the leg.

IN CASE OF ELECTRIC RETRACT LANDING GEAR USING
 (Electric retract landing gear and Struts must purchase separately)

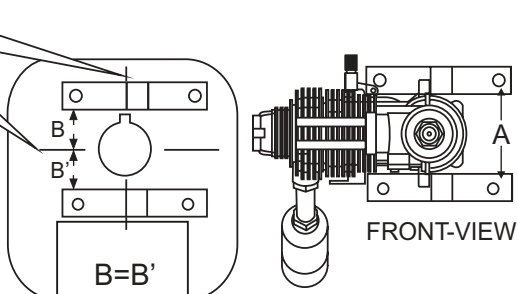


11-Engine mount / Engine

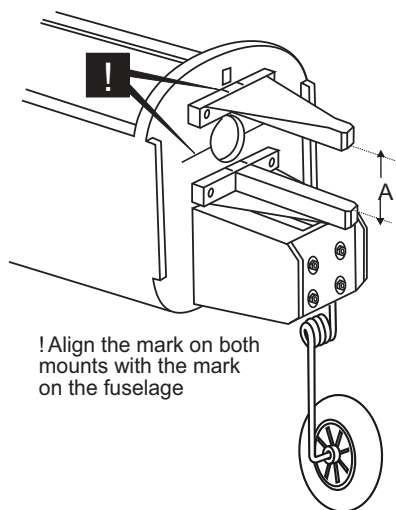
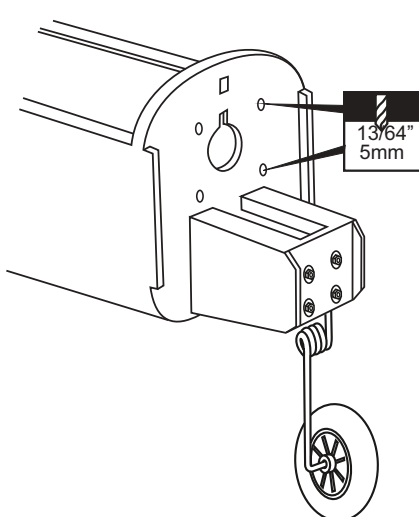
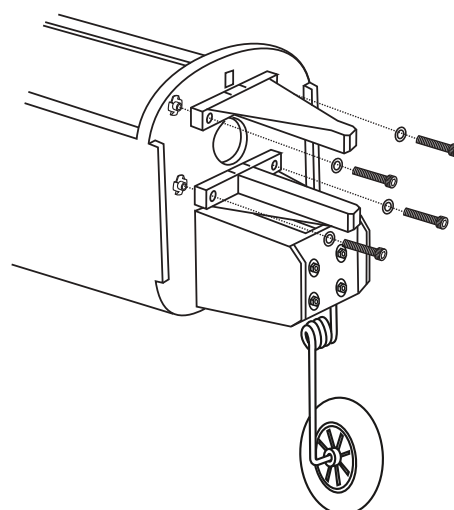
5/32x1"	1/8x5-1/64"
4x25mm screw	3x20mm screw
 ...4	 ...4
Blind-nut	1/8" (3mm) nut
4	4

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled.

Remove the engine mount and drill a 13/64" (5mm) hole through the fire-wall at each of the four marks marked.



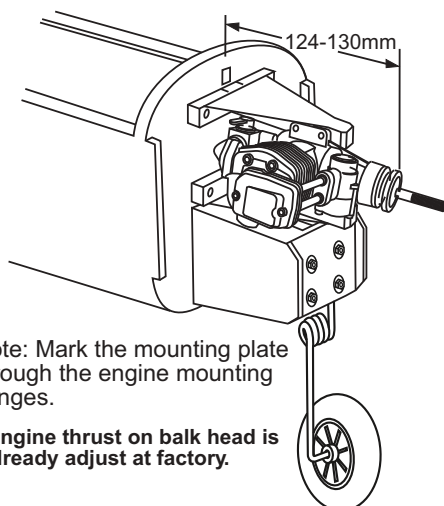
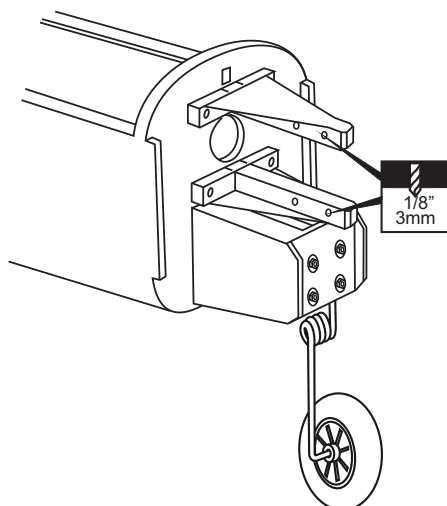
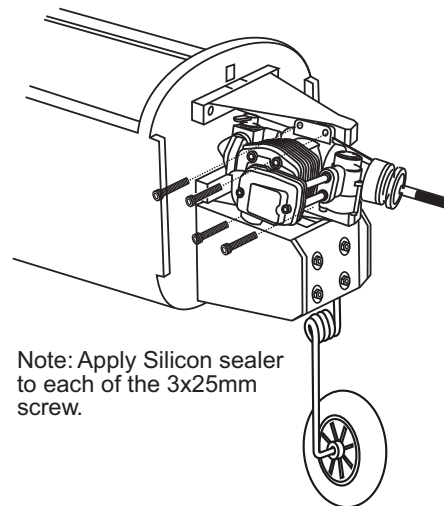
Reposition the engine mounts on to the fire-wall. Attach the four blind-nut to the fire-wall as show. Secure them with four 4x25mm screw.



Position the engine on to the engine mounts so the distance from the prop hub to the fire-wall from 124 to 130mm. Mark the engine mounting plate where the four holes are to be drilled.

Remove the engine and drill a 1/8" (3mm) holes through the beam at each of the four marks made above.

Reposition the engine on the engine mount beams, aligning it with the holes. Secure the engine to the engine mount using four 3x25mm screws.

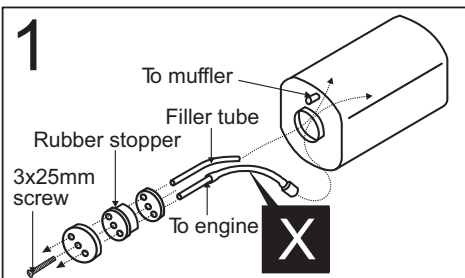
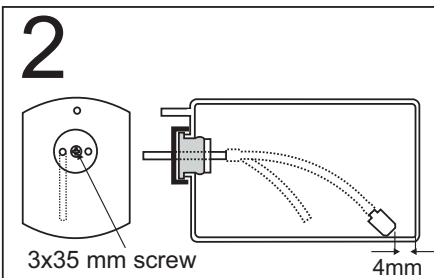


Note: Mark the mounting plate through the engine mounting flanges.

! Engine thrust on balk head is already adjust at factory.

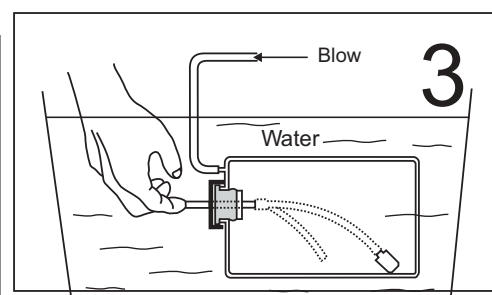
Note: Apply Silicon sealer to each of the 3x25mm screw.

12-Fuel tank (in case of glow engine using)



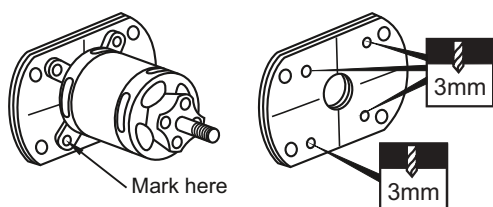
After confirming the direction . Insert this assembly, clunk end first, into the fuel tank and tighten and screw the fuel tank cap on firmly.

Ensure that the fuel tank clunk does not touch the rear of the fuel tank.



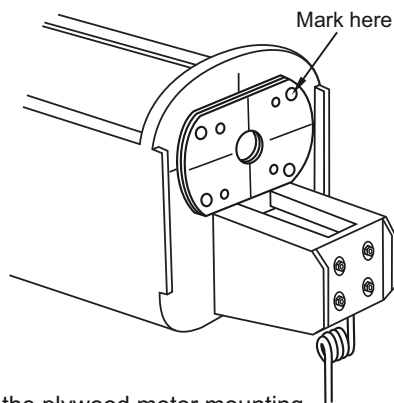
Checking for leaks - block the vents and blow into the feed - if in doubt submersing the tank in a blow of water will show up any problems.

13-Electric Motor

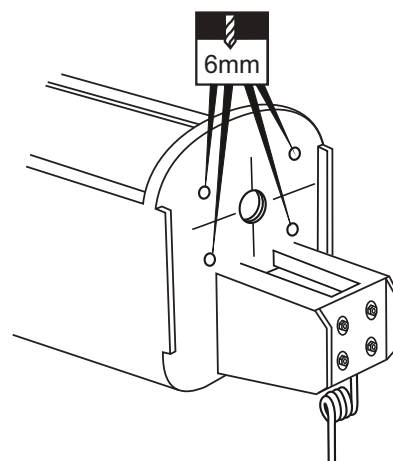


Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled .

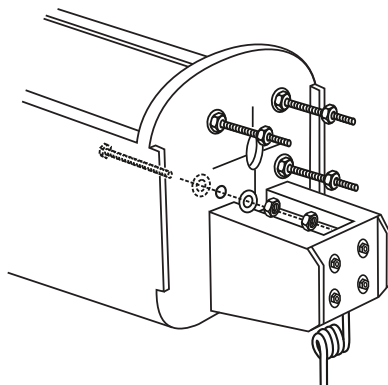
Remove the motor and drill a 3mm (1/8") hole at each of the four marks marked.



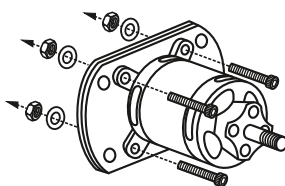
Apply the plywood motor mounting onto the fire-wall. Align the marks on the motor mounting with the marks on the fire-wall. Mark the fire-wall where the four holes are to be drilled.



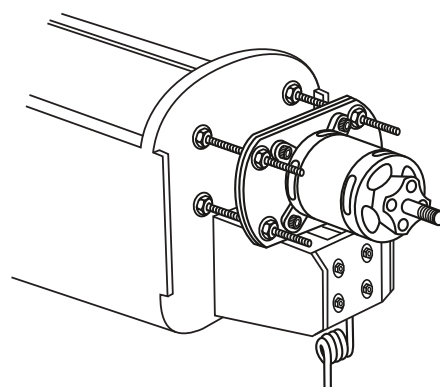
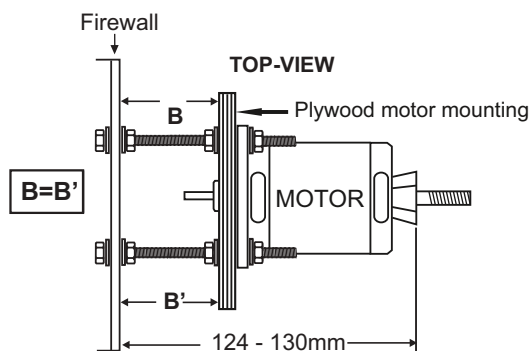
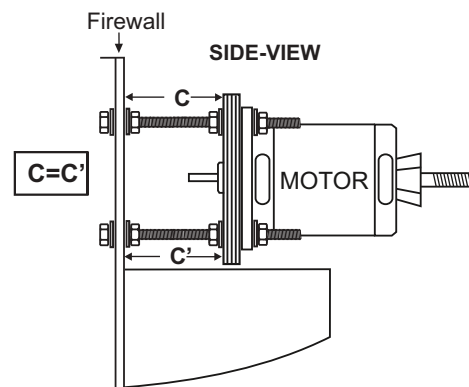
Remove the motor mounting and drill a 5mm hole at each of the four marks marked.



Attach the four 6x100mm bolts, washers and nuts to the fire-wall as shown.



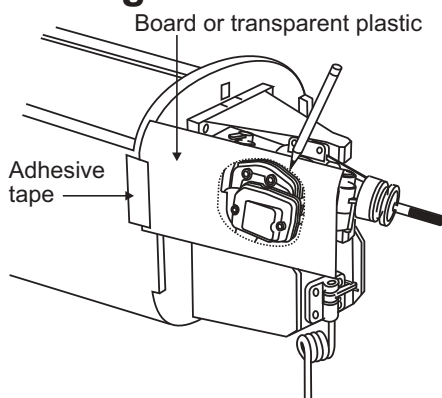
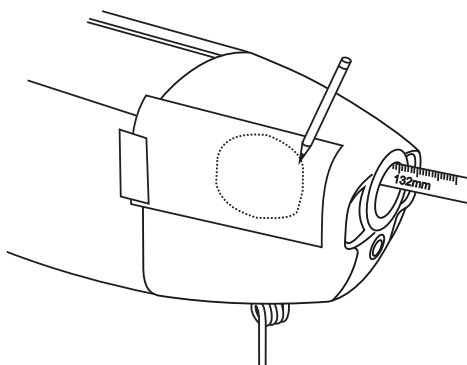
Attach the motor to the motor mounting and secure it in place using the four 3x20mm bolts and nuts.



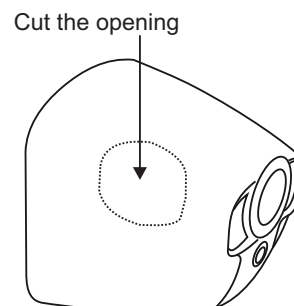
! Engine thrust on balk head is already adjust at factory

- 6x100mm bolt....4
- 6mm nut.....12
- 6mm washer...16

14-Cowling



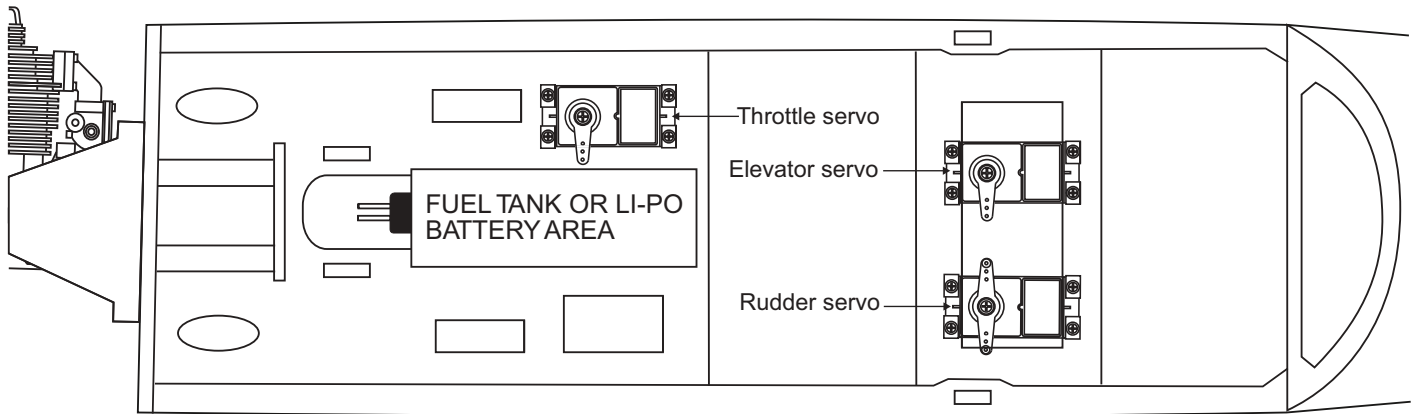
- 2.5x10mm screw3



- 1-Attach the board or transparent plastic on the side of the fuselage with the adhesive tape as show.
- 2-Using a pencil or felt tipped pen trace around the engine head where it meet the cowl. Cut the opening the board or transparent plastic for the engine head as marked before.
- 3-Remove the engine and insert the cowl on to the fuselage so the distance from the fire wall to the front of the cowl from 124 to 130mm. Trace around inside the hole on the board or transparent plastic with a pencil.
- 4-Remove the cowl from the fuselage and carefully cut the opening for the engine head as marked above. Do the same way with the hole for needle-valve.
- 5-Again. Insert the cowl on to the fuselage and secure it in place with five 2.5x10mm self tapping screws.

15- Servo

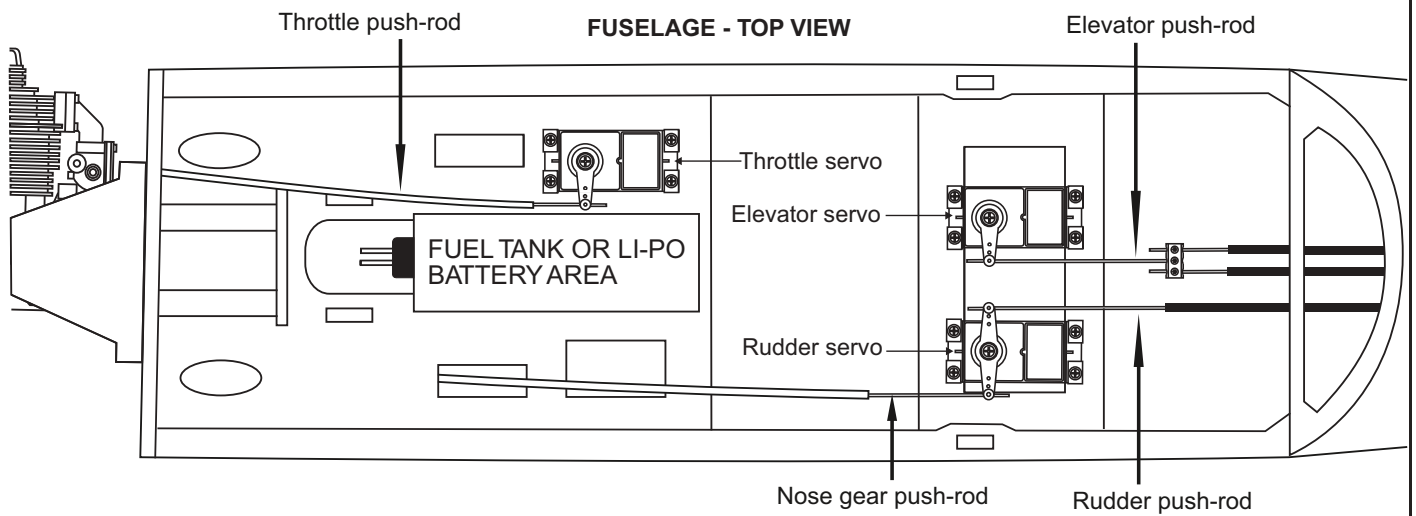
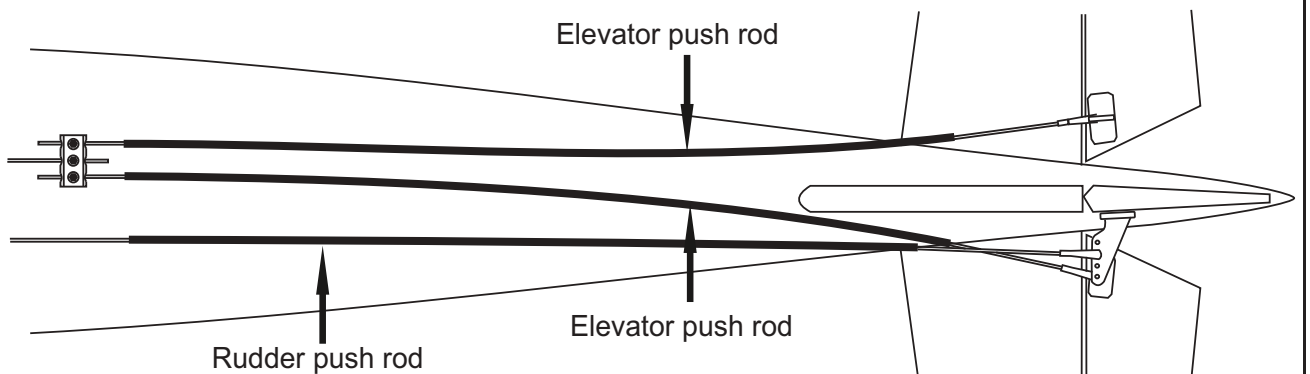
FUSELAGE - TOP VIEW



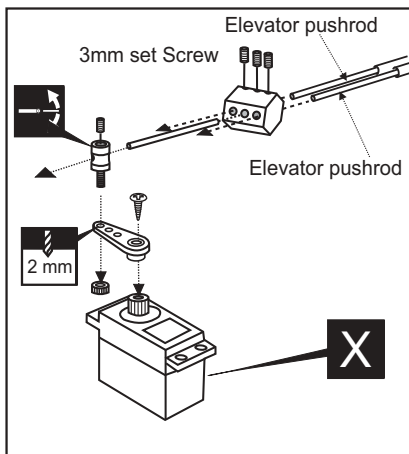
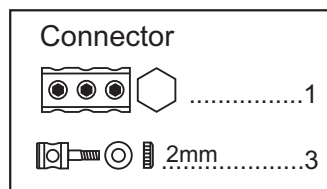
Shift the location of the fuel tank, battery pack, or Li-po battery as needed to obtain the specified CG.

16-Linkages

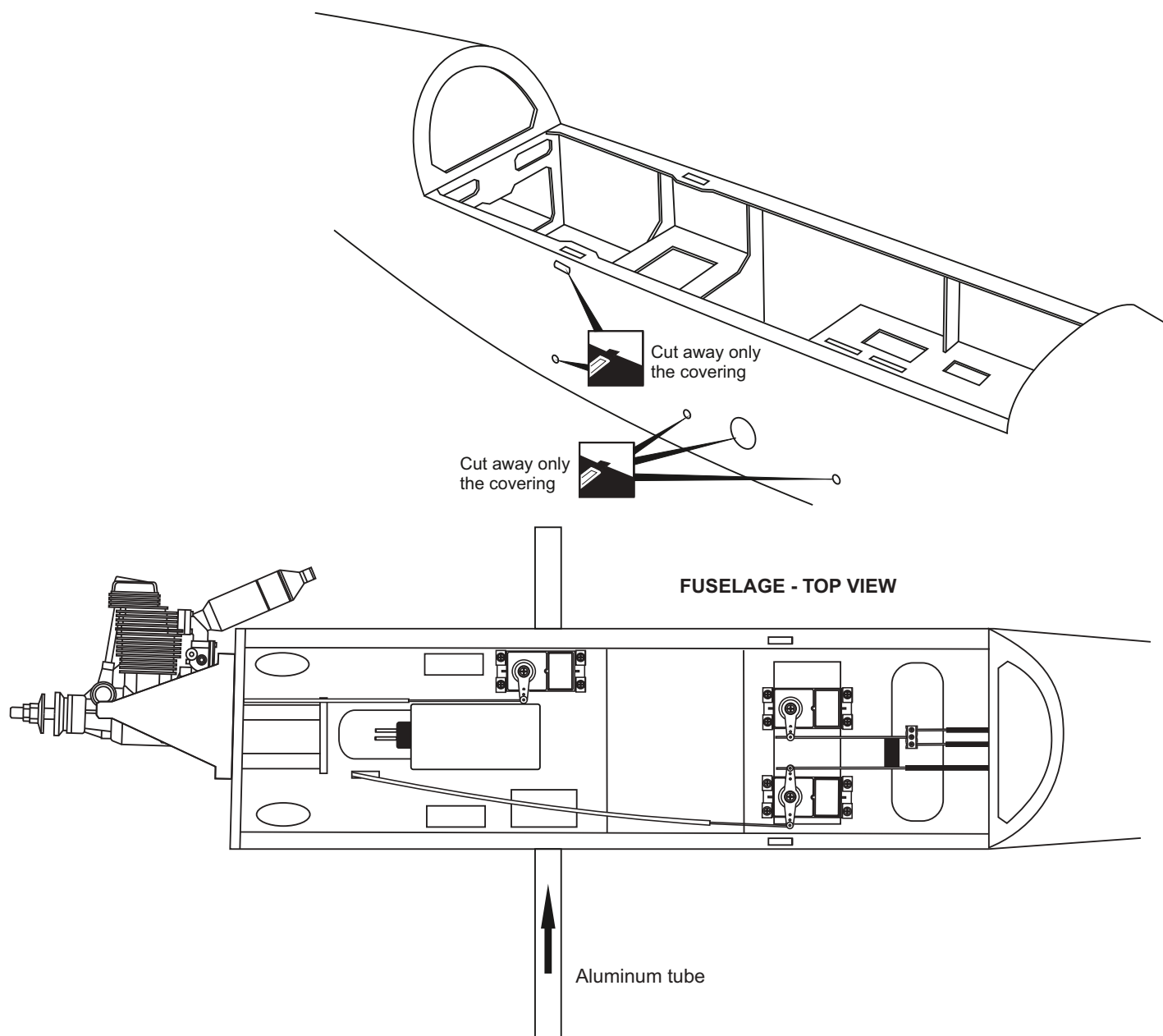
FUSELAGE - TOP VIEW



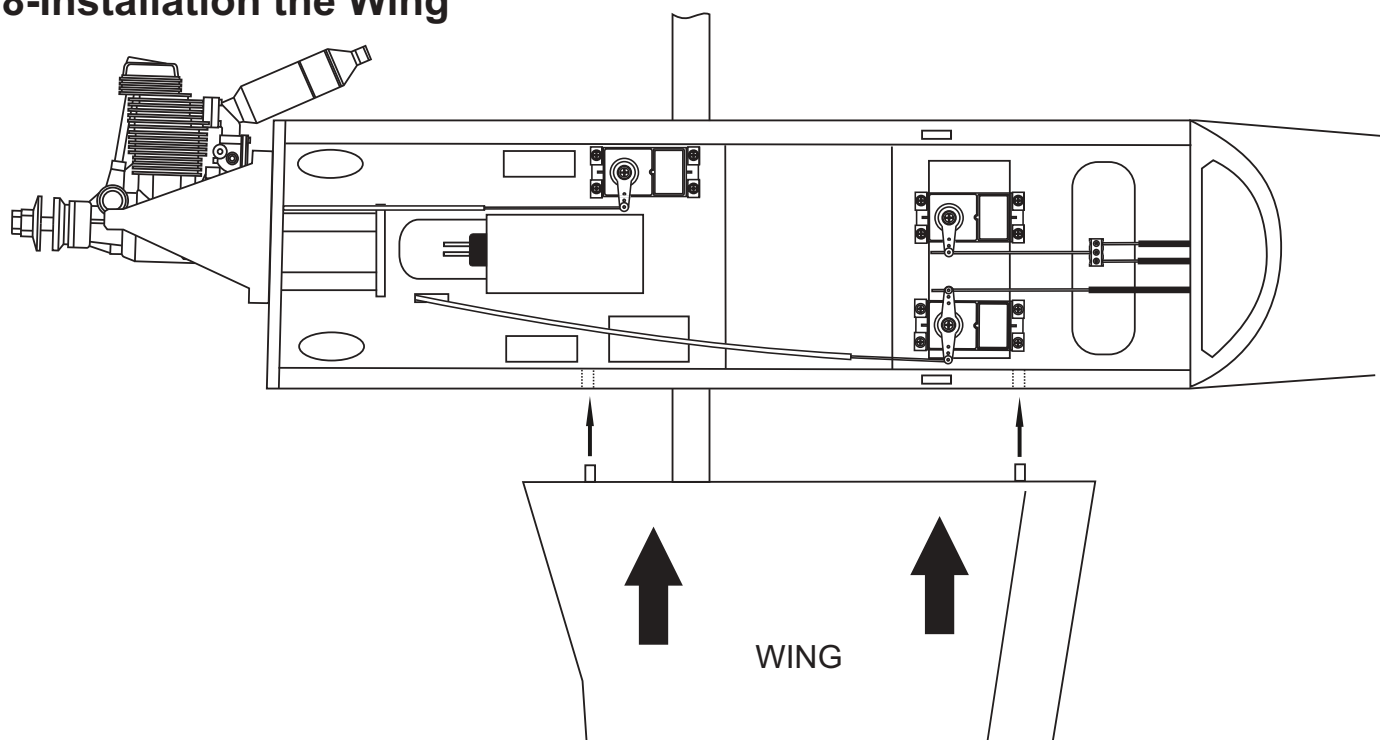
FUSELAGE - TOP VIEW



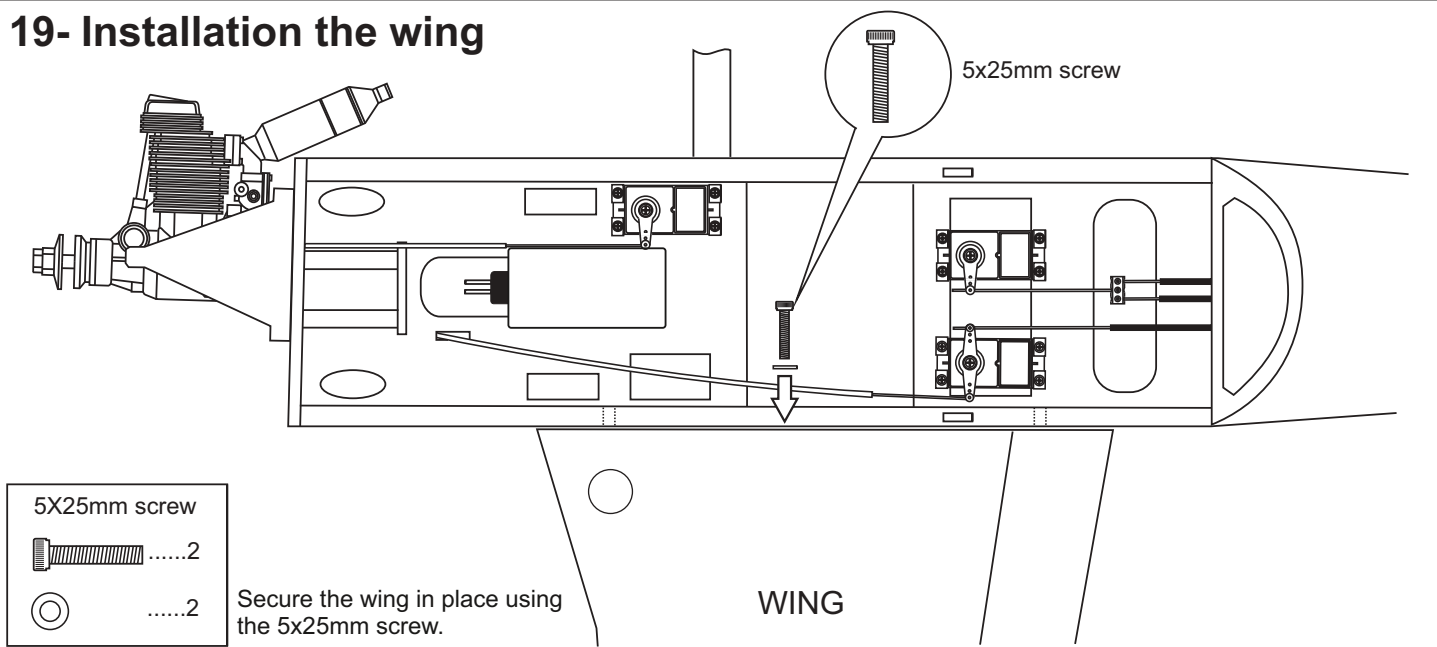
17-Installation the Wing



18-Installation the Wing



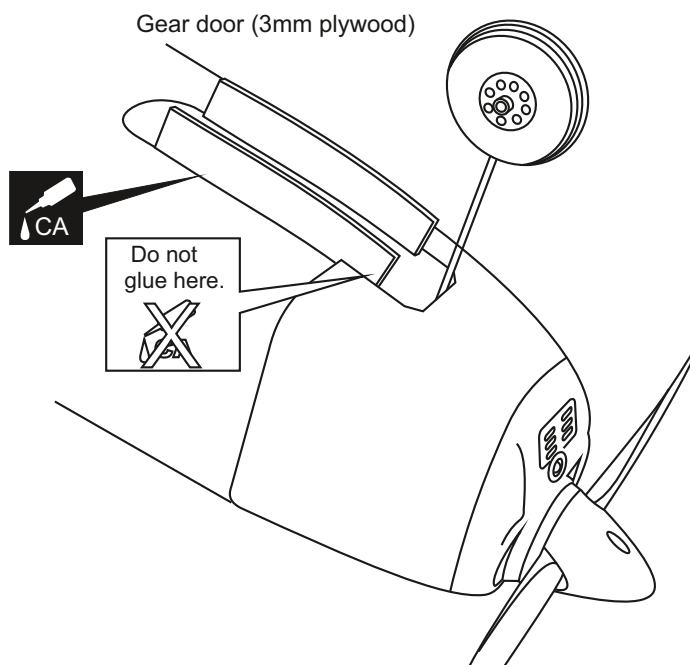
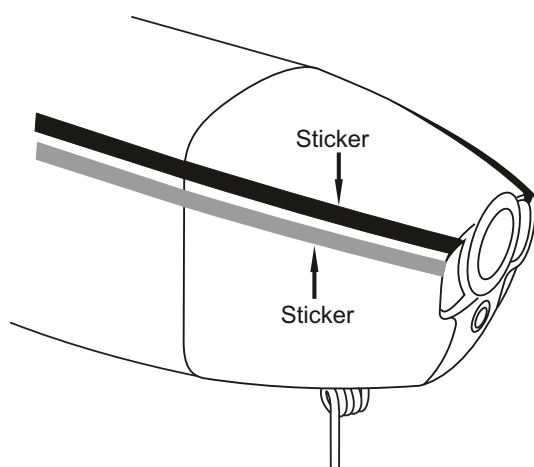
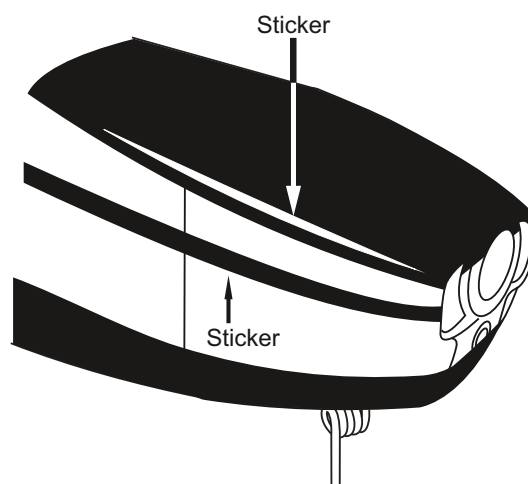
19- Installation the wing



20- Decor

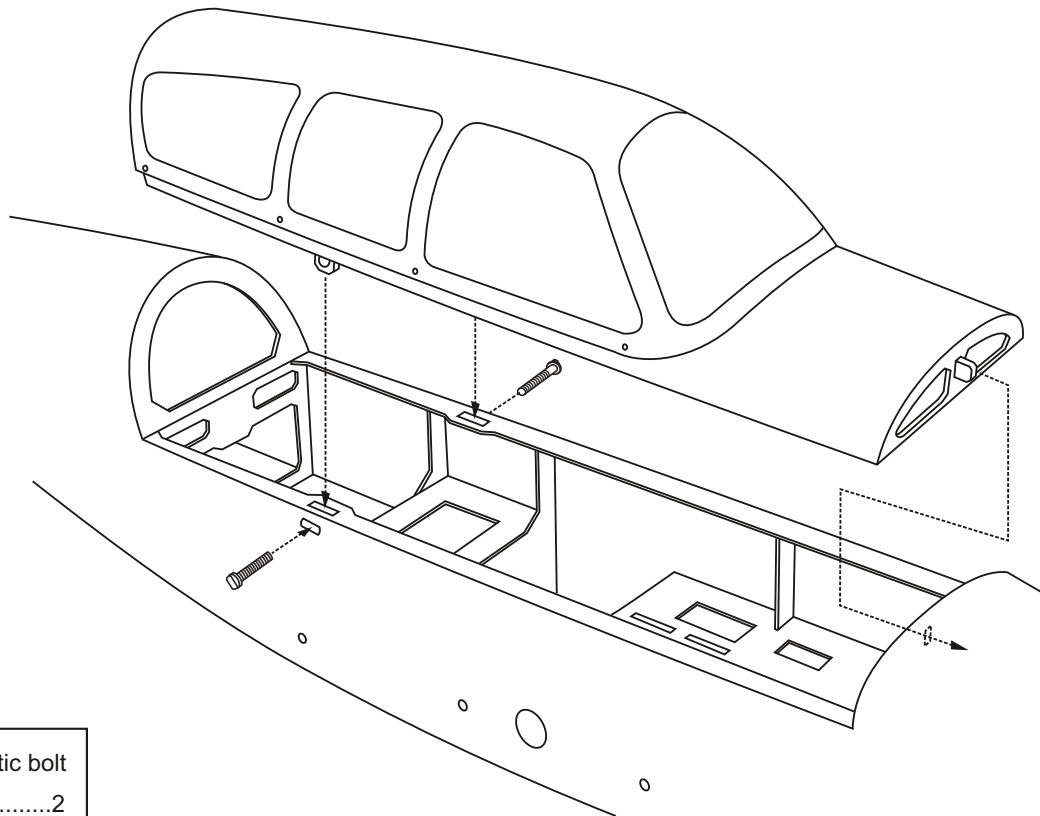
Nose Gear door installation

Note: Glue the Right and Left gear door on to the fuselage only. Do not glue them to the cowl if you want to remove the cowl out of the fuselage.



Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once. Peel off one corner of the backing and cut off with scissors. Arrange sticker on model and when satisfied adhere the corner without backing. Carefully peel back the rest of the backing while at the same time adhering the rest of the sticker. Try not to make air bubbles, if there are some, carefully puncture sticker (center of bubble) but not model surface with the tip of the knife or sharp pin and squeeze out the air. At curves stretch sticker and apply a little heat so that no creases occur. Cut off the excess that is produced.

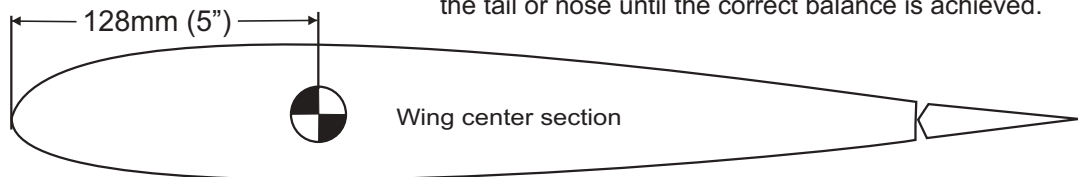
21- Canopy



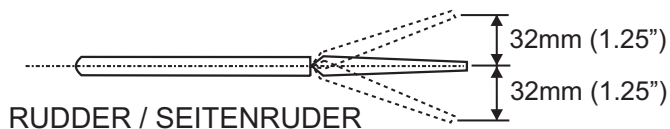
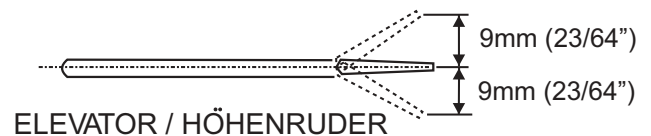
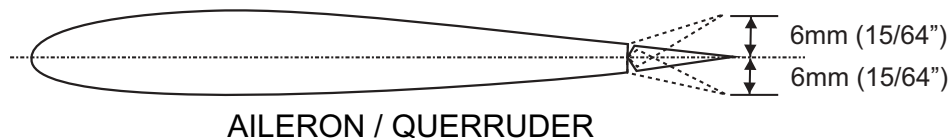
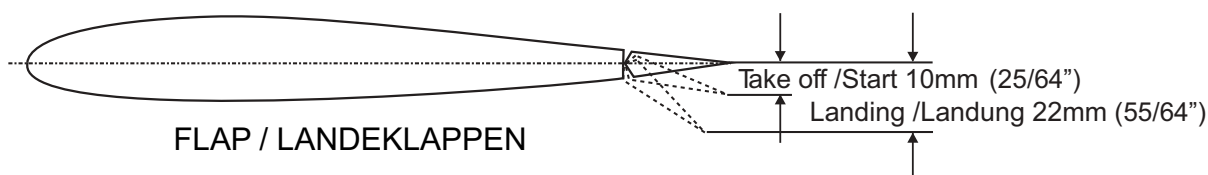
22- Balance

DO NOT try to fly an out-of-balance model !

Note: If necessary, move the battery pack or add weight to either the tail or nose until the correct balance is achieved.



23- Control Surface



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