Radio control model / RC Flugmodel

KAWASAKI

Ki-61 Hien "Tony"

INSTRUCTION MANUAL / MONTAGEANLEITUNG

SPECIFICATIONS

Wingspan	1580mm
Length	1180mm
Electric Motor	870 Watt (PULSAR 60)
Glow Engine	7.5cc 2T / 8.5cc 4T
Radio	5 Channel / 5 Servos

TECHNISCHE DATEN

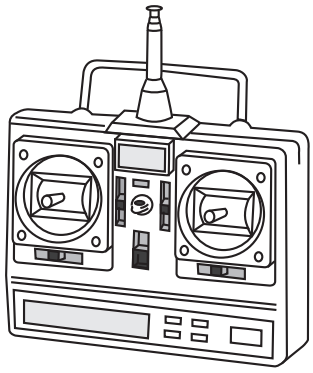
Spannweiter	1580mm
Lange	1180mm
Elektroantrieb	870 Watt (PULSAR 60)
Verbrennerantrieb	7.5cc 2T / 8.5cc 4T
Fernsteuerung	5 Kanal / 5 Servos

RADIO CONTROL MODEL ®

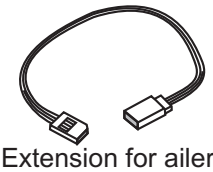
WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if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

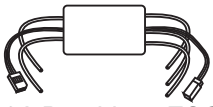
REQUIRED ITEMS / Zum Betrieb wird benötigt



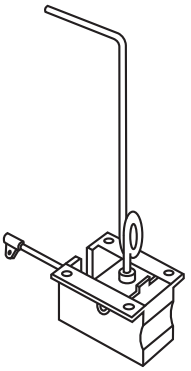
10.5x6 for .40 - 2 cycle engine
11x6 for .46 - 2 cycle engine
12x6 for .60 - 4 cycle engine
12x7 for .70 - 4 cycle engine
13x6 for Quantum 4120/05



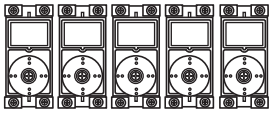
Extension for aileron servo, retract servo.



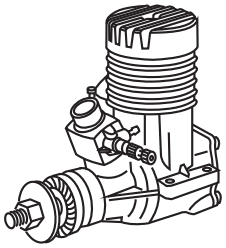
60A Brushless ESC
60A Brushless Regler



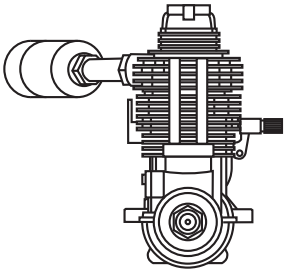
Retract landing gear VQAR08



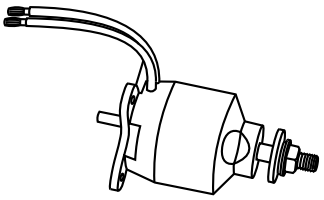
Minimum 5 channel radio for airplane with 5 servos
Aileron servo x 2.
Throttle servo x 1.
Rudder servo x 1.
Elevator servo x 1.



.46 ~ .50 - 2 cycle



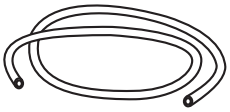
.60 ~.70 - 4 cycle



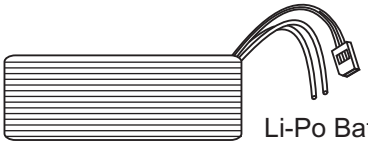
870Watt Brushless Motor (PULSAR 60)

Retract servo x1

Linkage Stopper x2 (for retract servo)



Silicone tube

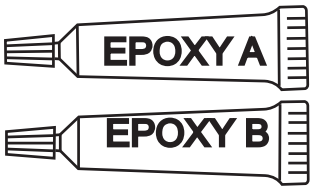


Li-Po Battery, 18.5V, 4500mAh (LEMONRC)

GLUE / Klebstoff

Silicon Glue

Cyanoacrylate Glue

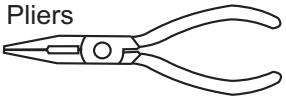


Epoxy Glue (5 minute and 30 minute type)

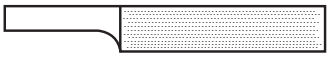
TOLLS REQUIRED / Erforderliches Werkzeug

Hobby knife

Needle nose Pliers

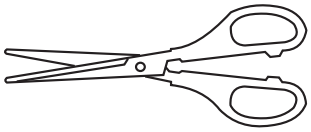


Sander



Phillip screw driver

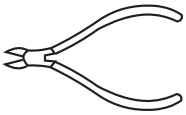
Scissors



Hex Wrench

Awl

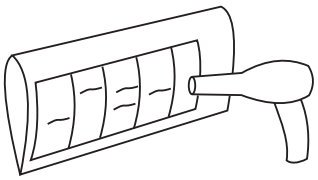
Wire Cutters



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

If exposed to direct sunlight and / or heat, wrinkles can appear. Storing the model in a coll 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 Warumluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden



Symbols used throughout this instruction manual, comprise / Selbsterklarënde Symbole

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.

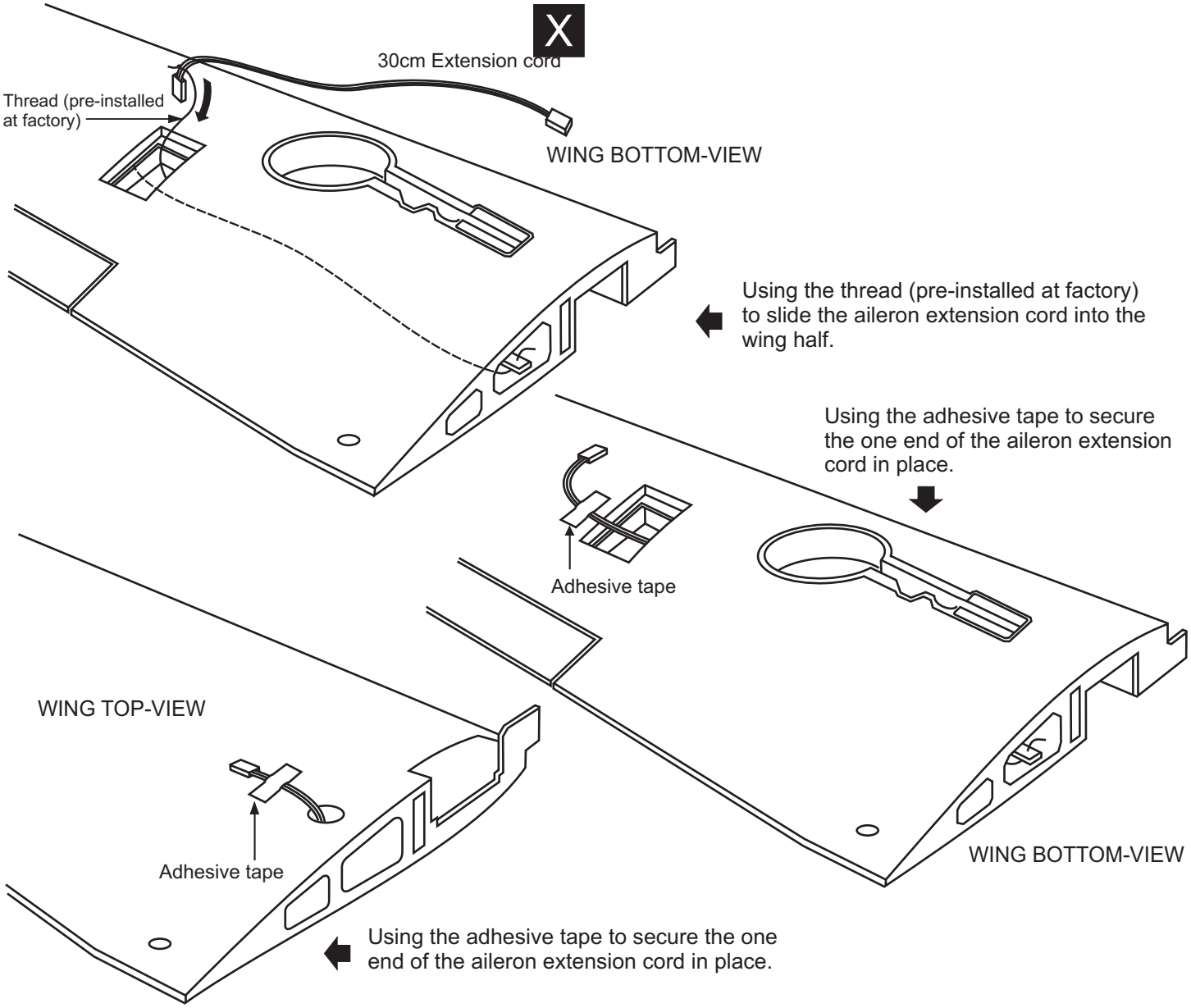
Not included. These parts must be purchased separately

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”	

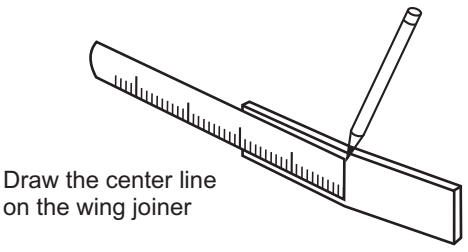
1-Aileron extension cord installation

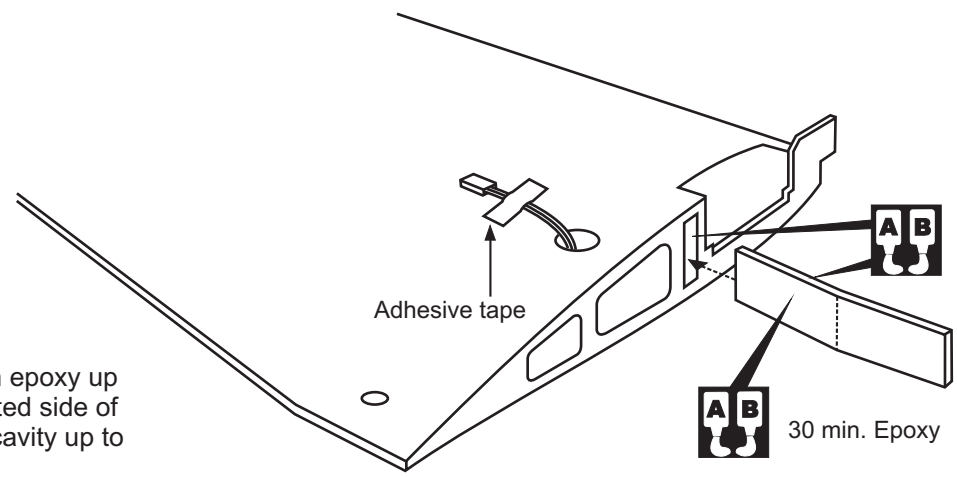


2- Joining the wing

Before gluing:

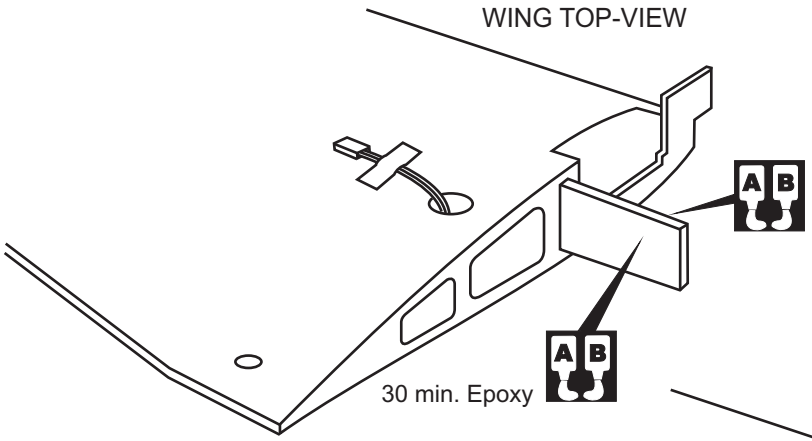
- Draw the center line on the wing joiner.
- Trial fit each part before gluing . Be certain that there are no gaps. If the parts will join, but with a gaps, sand or trim the parts a little at a time until the parts meet exactly with no gaps.
- Check for the correct dihedral angle

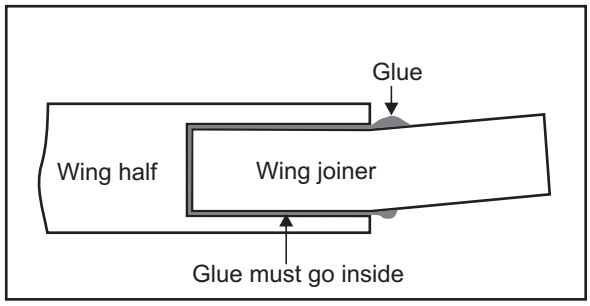

Draw the center line on the wing joiner



Coat one half of the dihedral brace with epoxy up to the center line. Install the epoxy-coated side of the dihedral brace into the wing joiner cavity up to the center line.

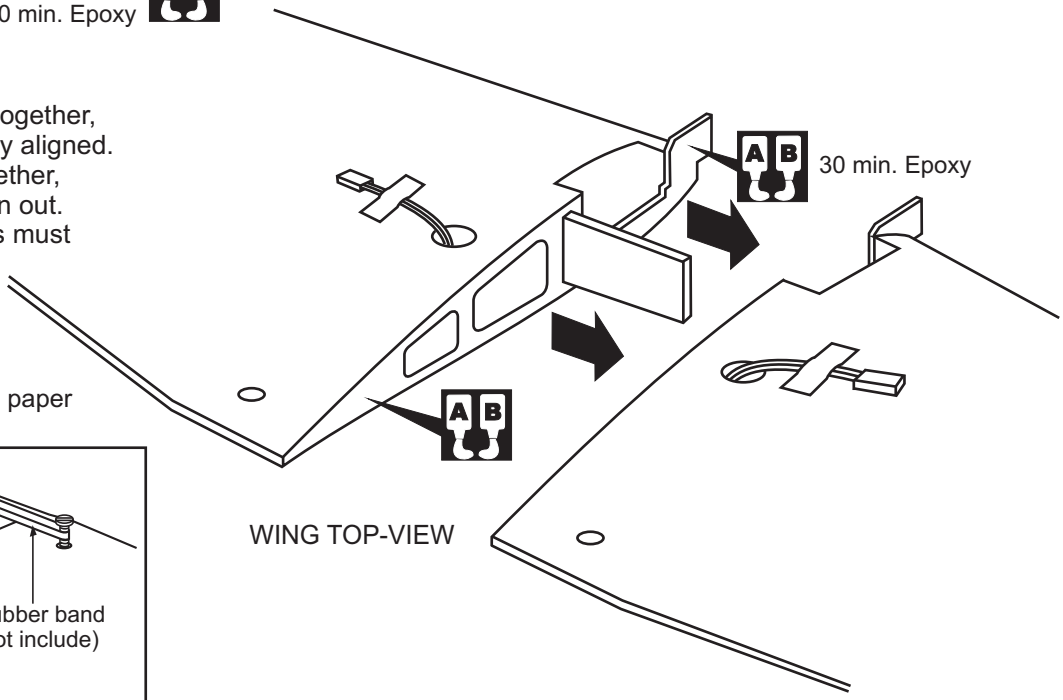
3- Joinning the wing



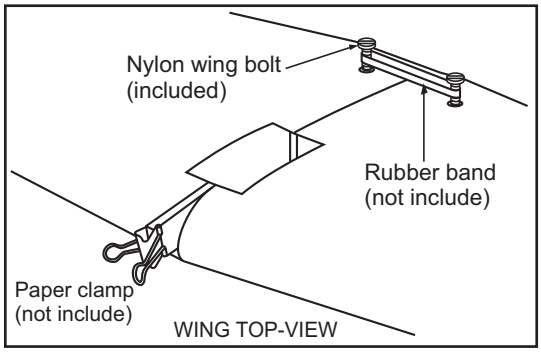


! Make sure to glue securely, If not properly glued, a failure in flight may occur.

Carefully slide the wing halves together, ensuring that they are accurately aligned. Firmly press the two halves together, allowing the excess epoxy to run out. Note: The two wing halves roots must fit together perfectly. Clear off the excess epoxy.



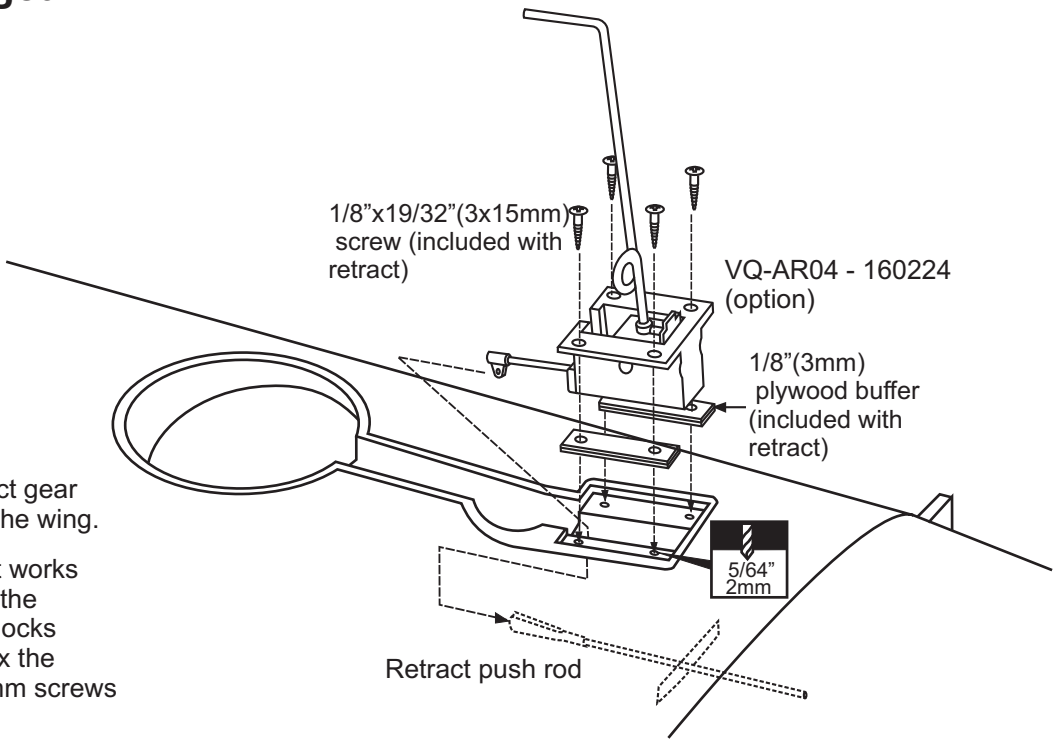
Hold the wing halves together with paper clamp and rubber band.



IMPORTANT: Please do not clean off the excess epoxy on the wing with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.

4- Retract landing gear

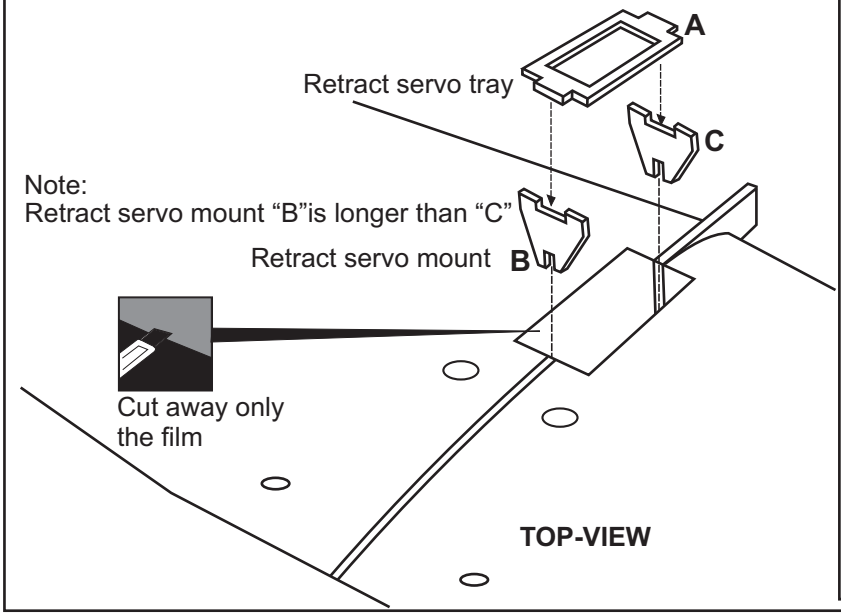
Steel clevis 2

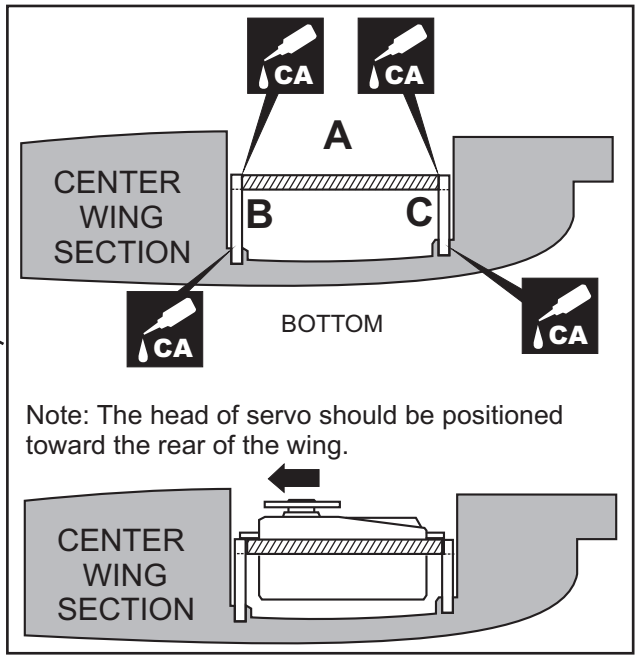


1-Join the push rod to the retract gear arm and trial fit the retract into the wing.

2-After checking that the retract works smoothly and be sure to adjust the stroke so that the landing gear locks in both up and down position, fix the retracts on the wing with 3x15mm screws

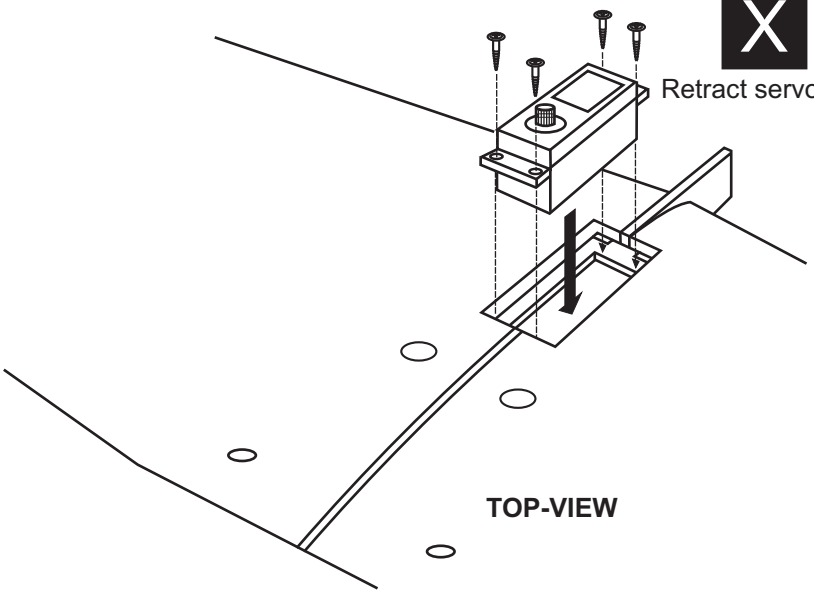
5- Retract servo mount





Note: The head of servo should be positioned toward the rear of the wing.

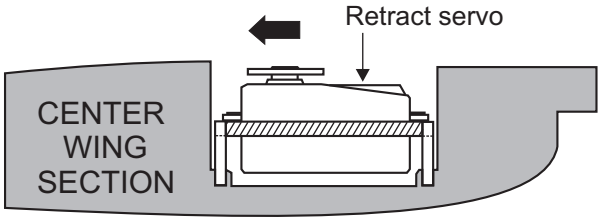
6- Retract servo



Install the retract servo onto the retract servo mount and secure it in place with four screw (included with radio set).

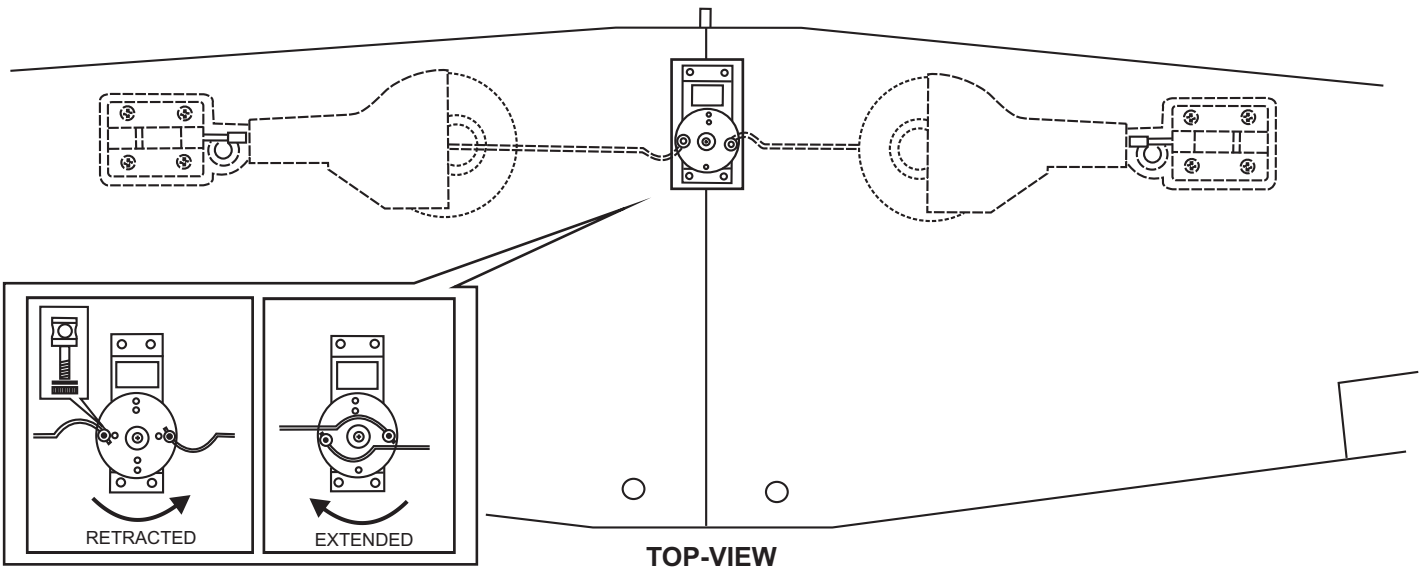
RETRACT SERVO INSTALLATION

Note: The head of servo should be positioned toward the rear of the wing.

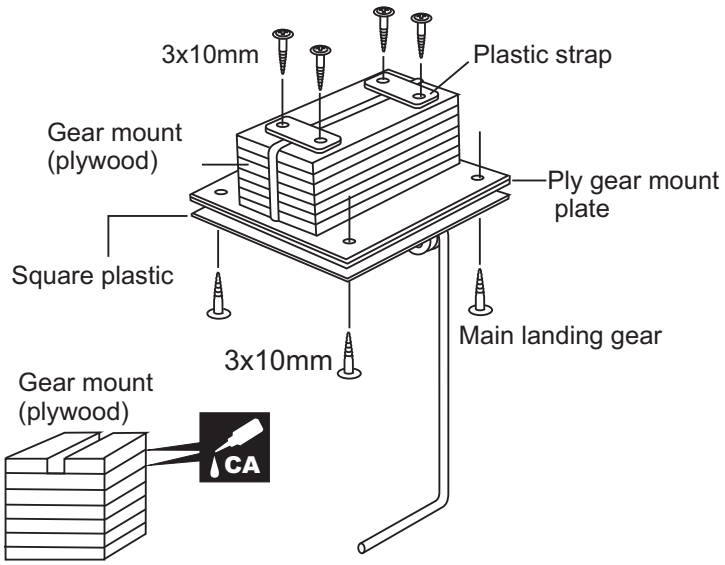


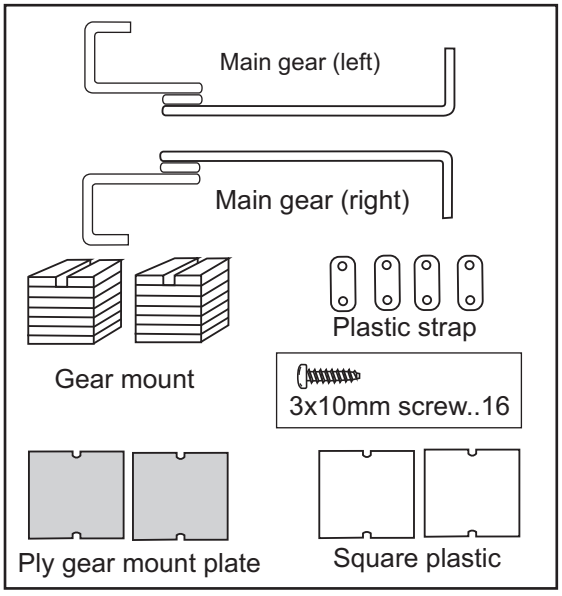
BOTTOM

7- Retract linkage

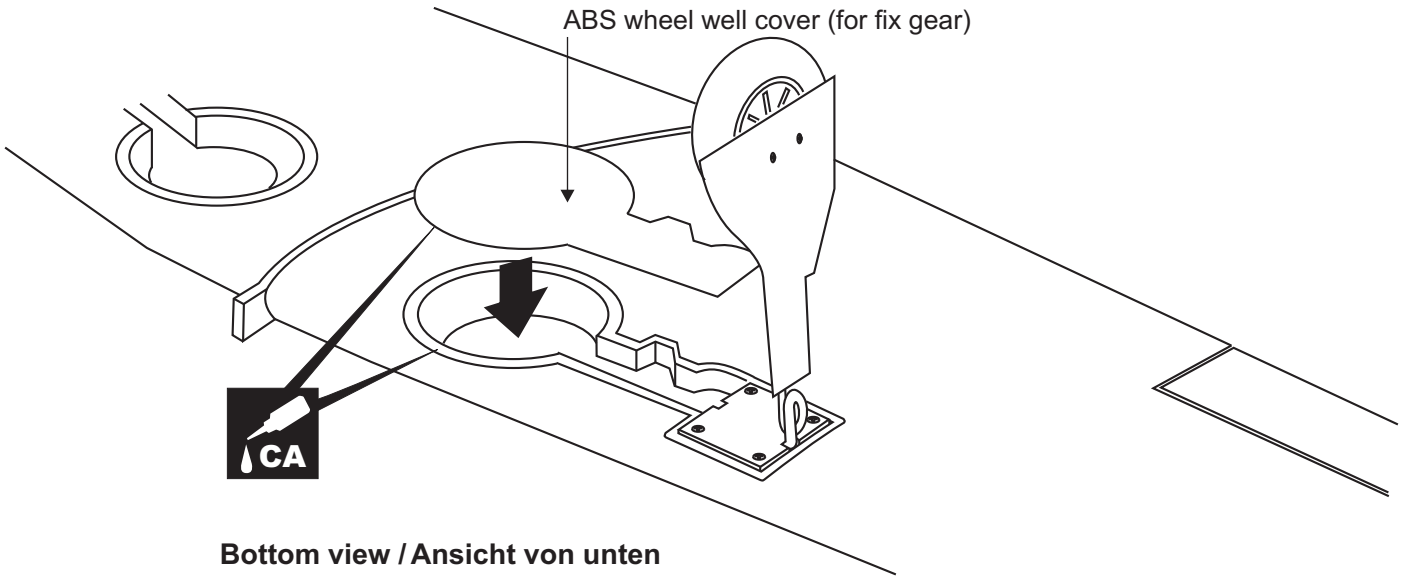


8- Fixed gear





9- Fixed gear

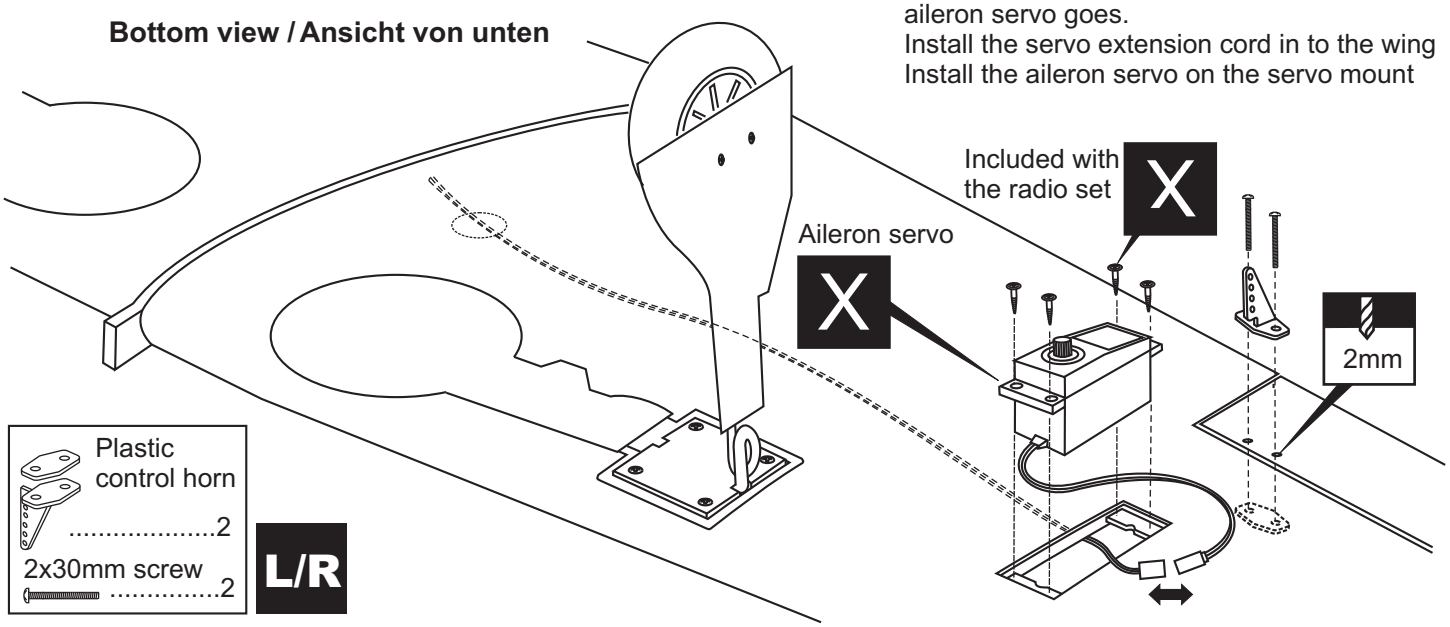


Bottom view / Ansicht von unten

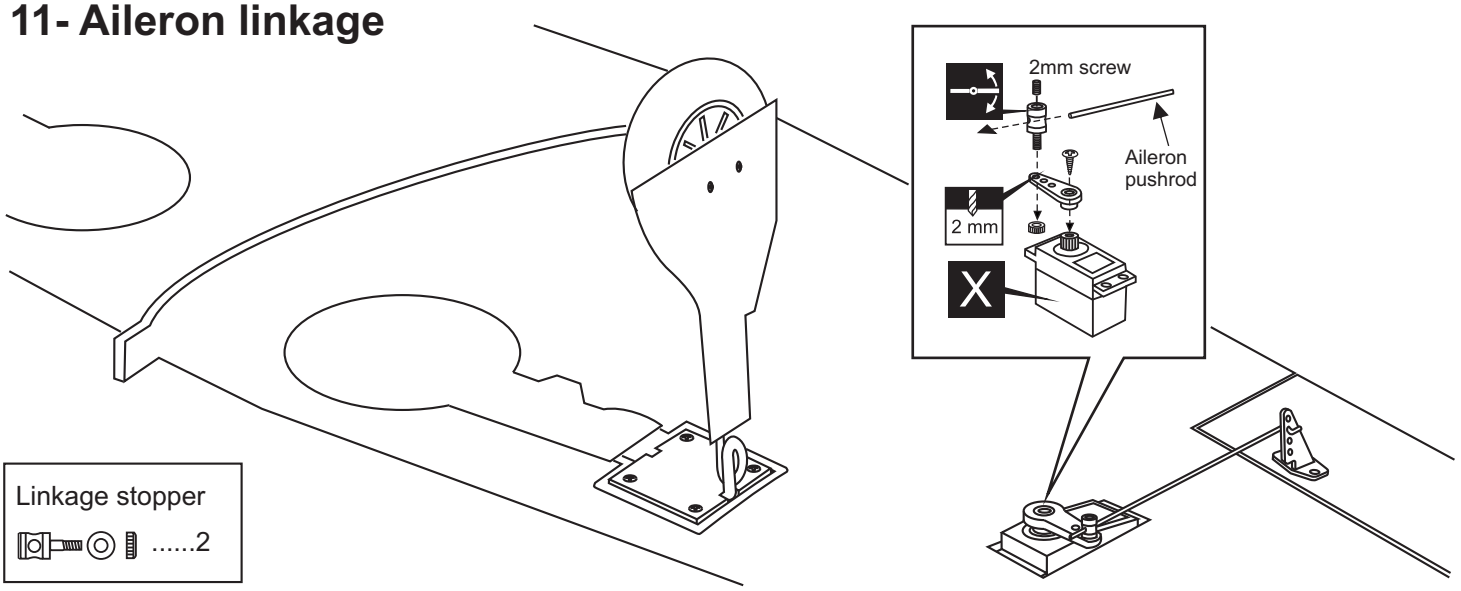
10- Aileron servo

Bottom view / Ansicht von unten

Cut away the film of the wing bottom where the aileron servo goes.
Install the servo extension cord in to the wing
Install the aileron servo on the servo mount



11- Aileron linkage



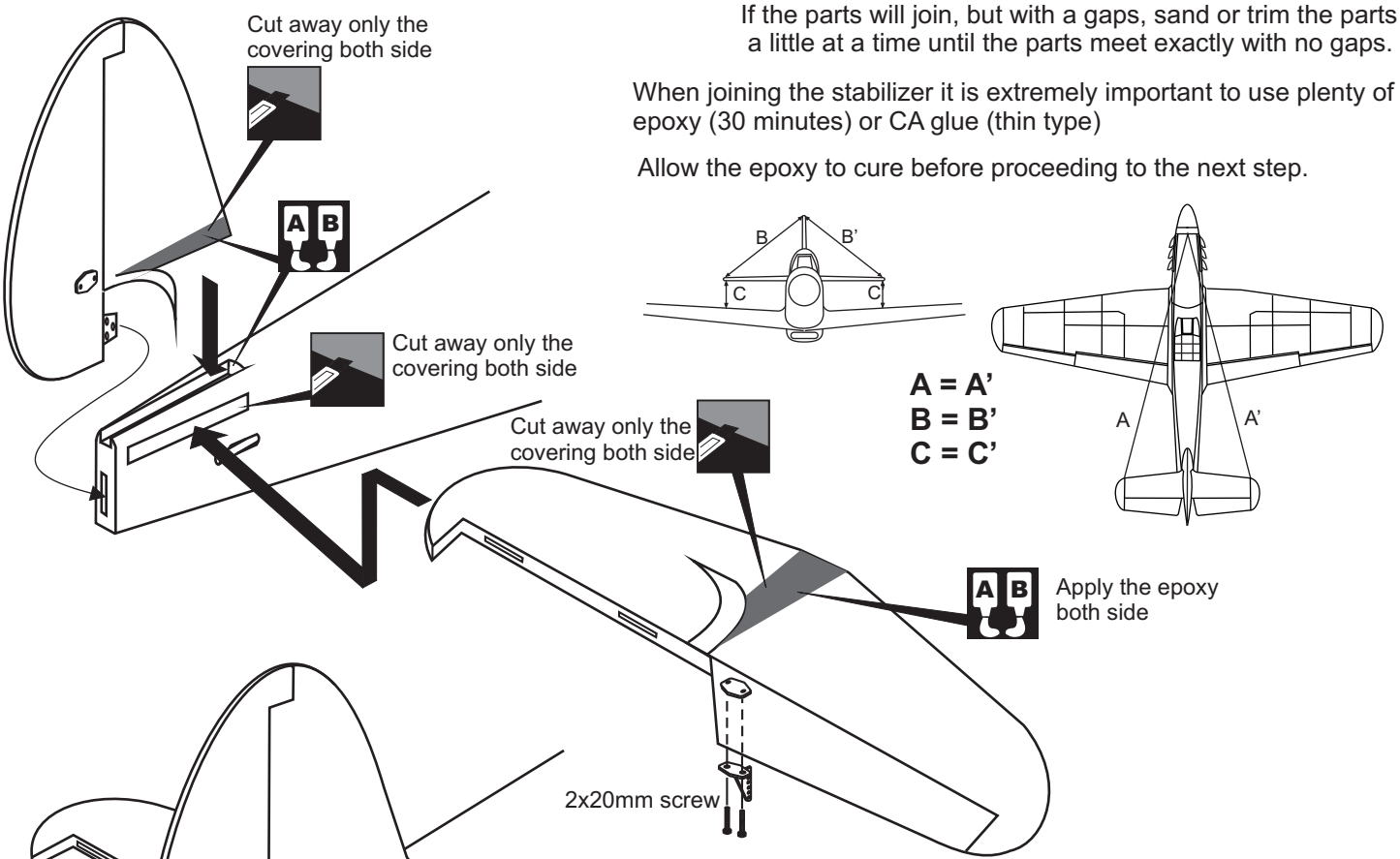
Linkage stopper 2

12- Stabilizer

Trial fit each part before gluing . Be certain that there are no gaps.
If the parts will join, but with a gaps, sand or trim the parts a little at a time until the parts meet exactly with no gaps.

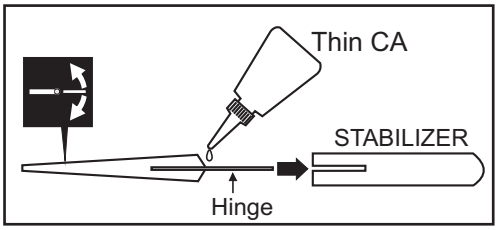
When joining the stabilizer it is extremely important to use plenty of epoxy (30 minutes) or CA glue (thin type)

Allow the epoxy to cure before proceeding to the next step.



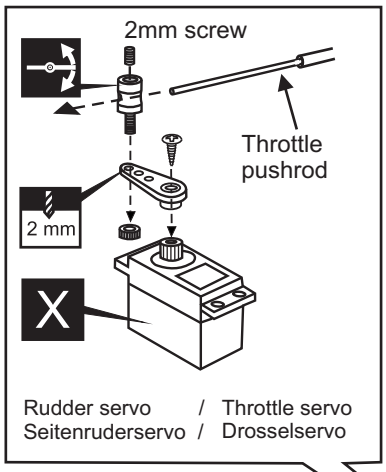
Push the elevator and its hinges into the hinge slots in the trailing edge of the horizontal stabilizer. There should be a minimal hinge gap and the end of the elevator should not rub against the horizontal stabilizer.
When satisfied with the and alignment, hinge the elevator to the horizontal stabilizer using thin CA glue. Make sure to apply a thin layer of CA glue to the top and bottom of both hinges and to inside the hinge slots. Repeat the previous procedures to hinge the second elevator to the other side of the horizontal stabilizer.

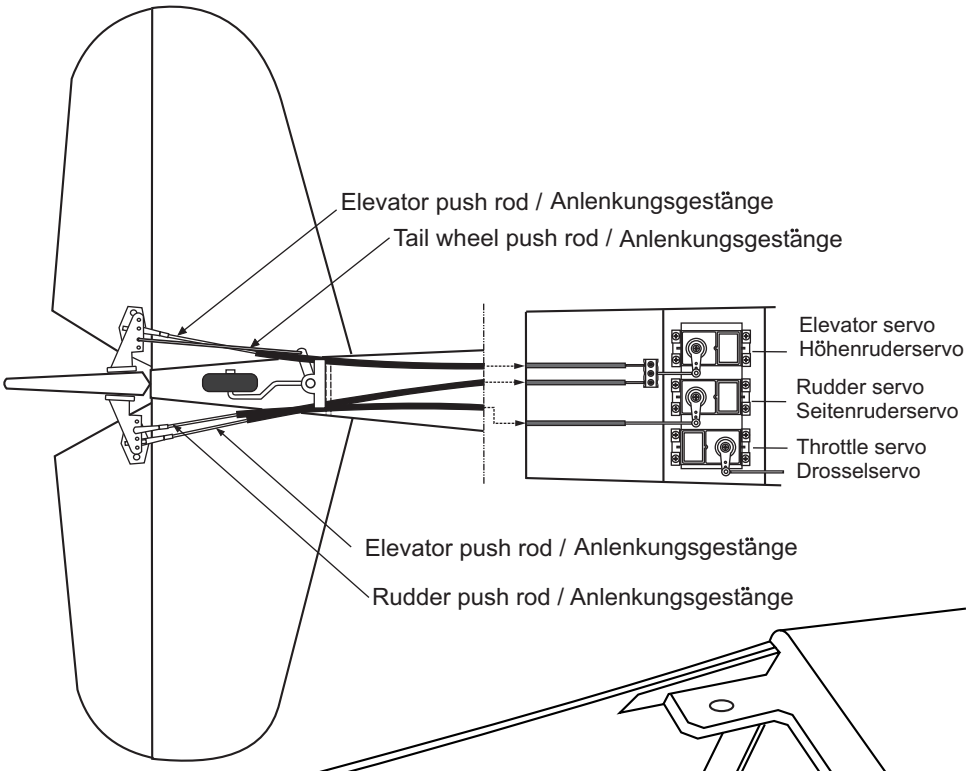
Control horn 3
2x20mm screw 6

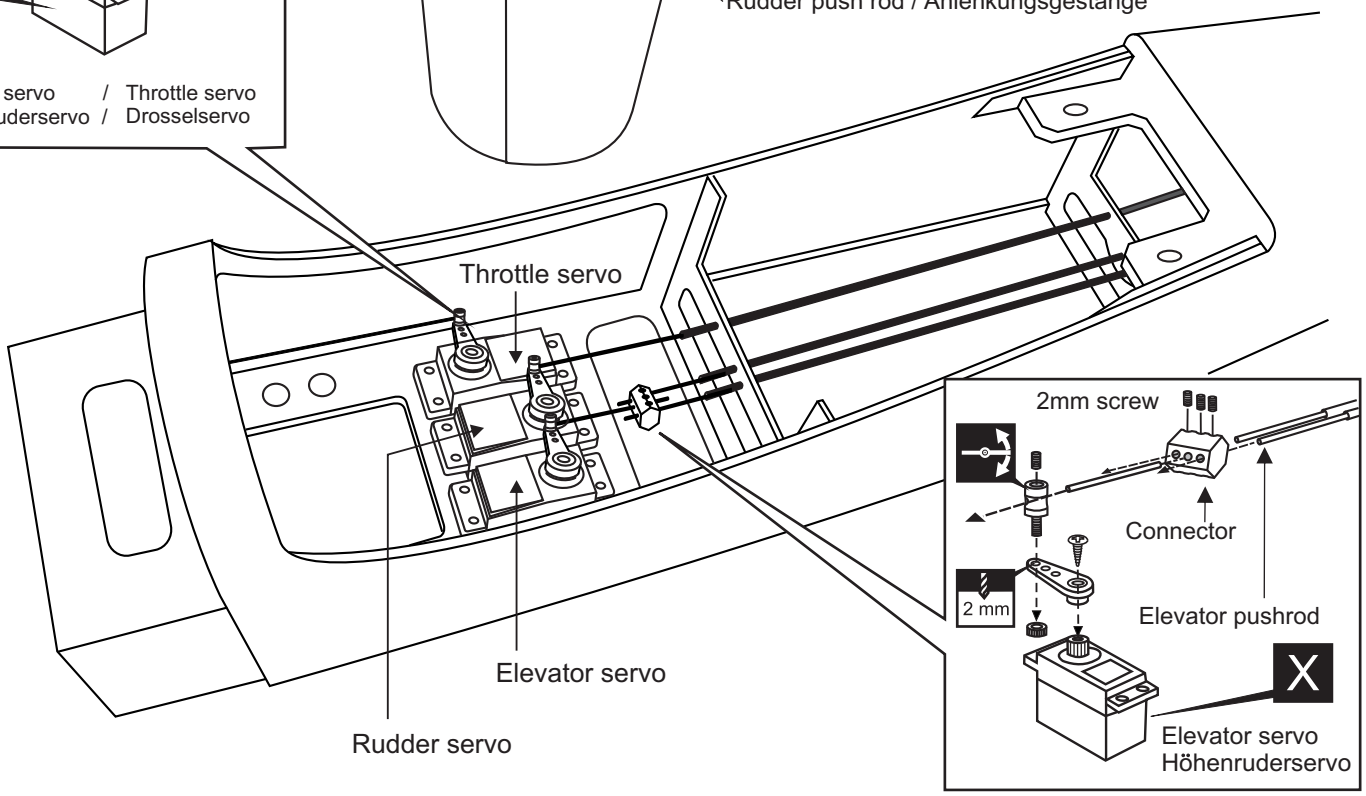


Securely glue together. If coming off during flight, you lose control of your air plane.

Connector 3





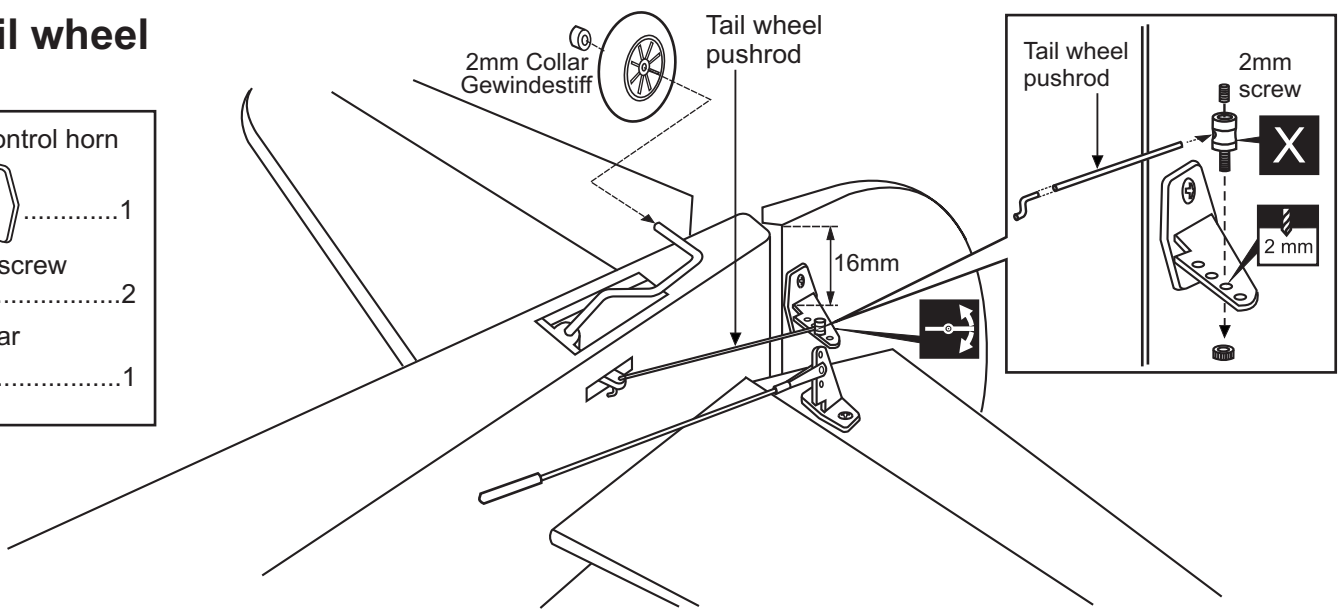


14- Tail wheel

Plastic control horn 1

2x10mm screw 2

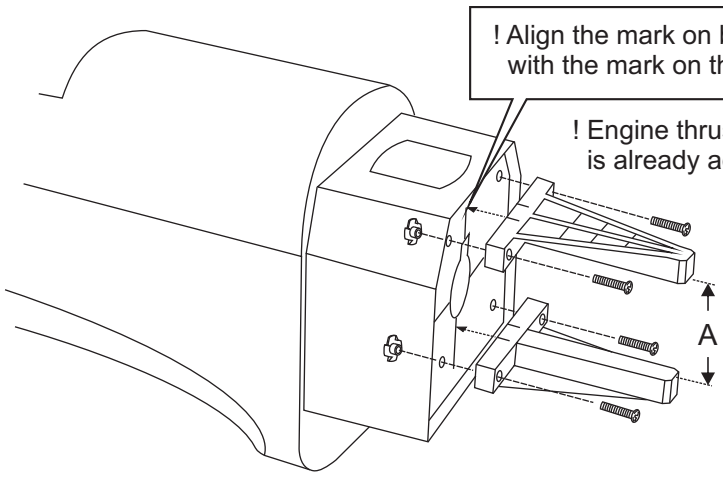
2mm collar 1

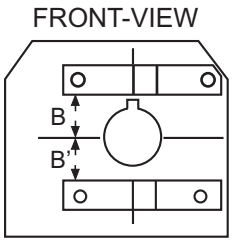


15- Engine mount

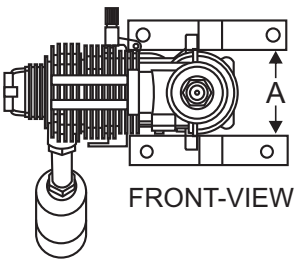
4x25mm screw 4

Blind-nut 4

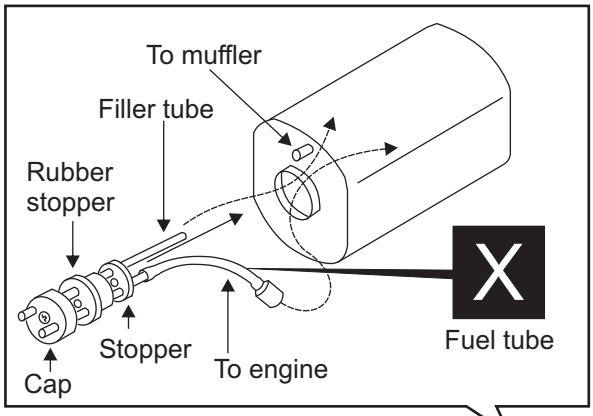




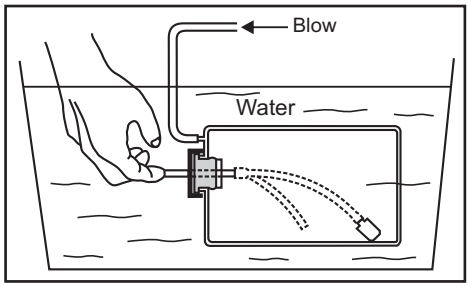
B=B'

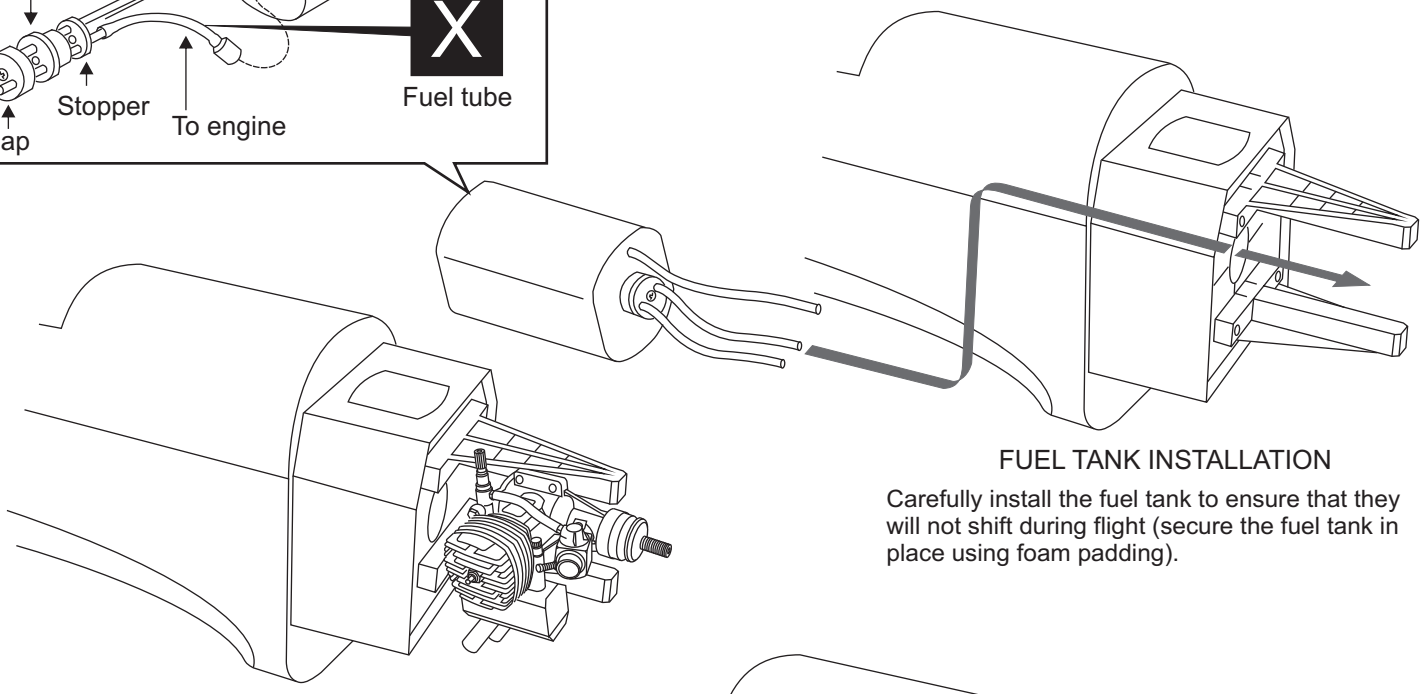


16- Fuel tank



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.

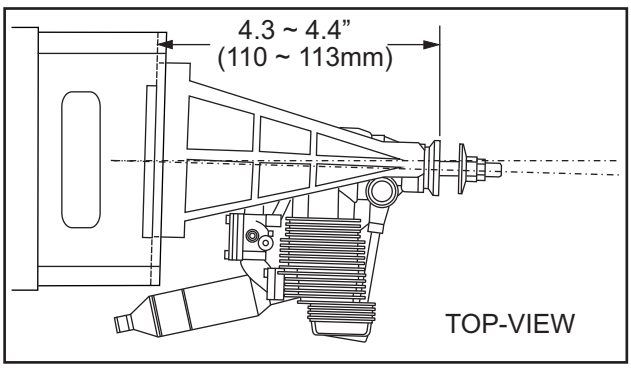


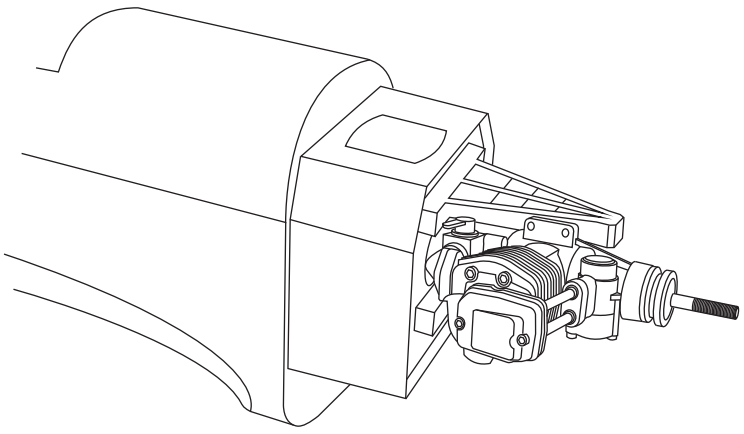


FUEL TANK INSTALLATION

Carefully install the fuel tank to ensure that they will not shift during flight (secure the fuel tank in place using foam padding).

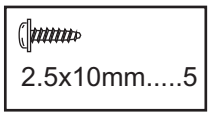
(IN CASE OF 2T ENGINE)

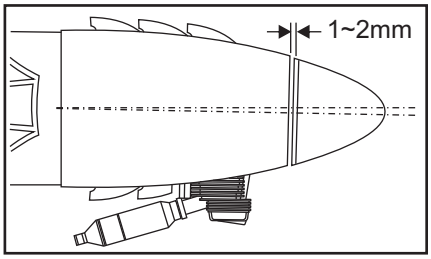




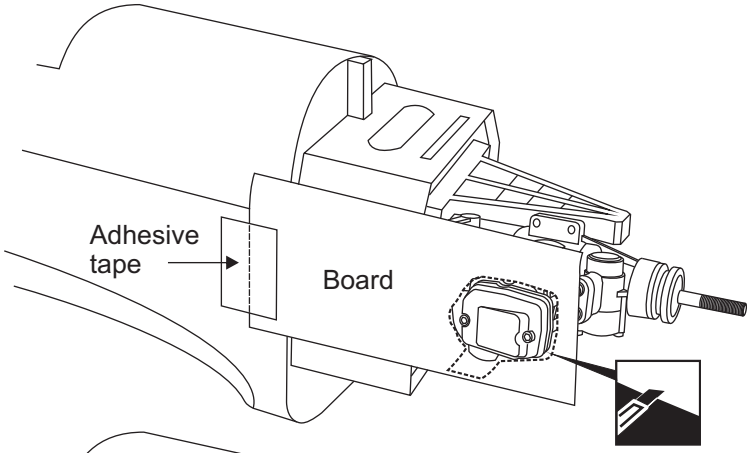
(IN CASE OF 4T ENGINE)

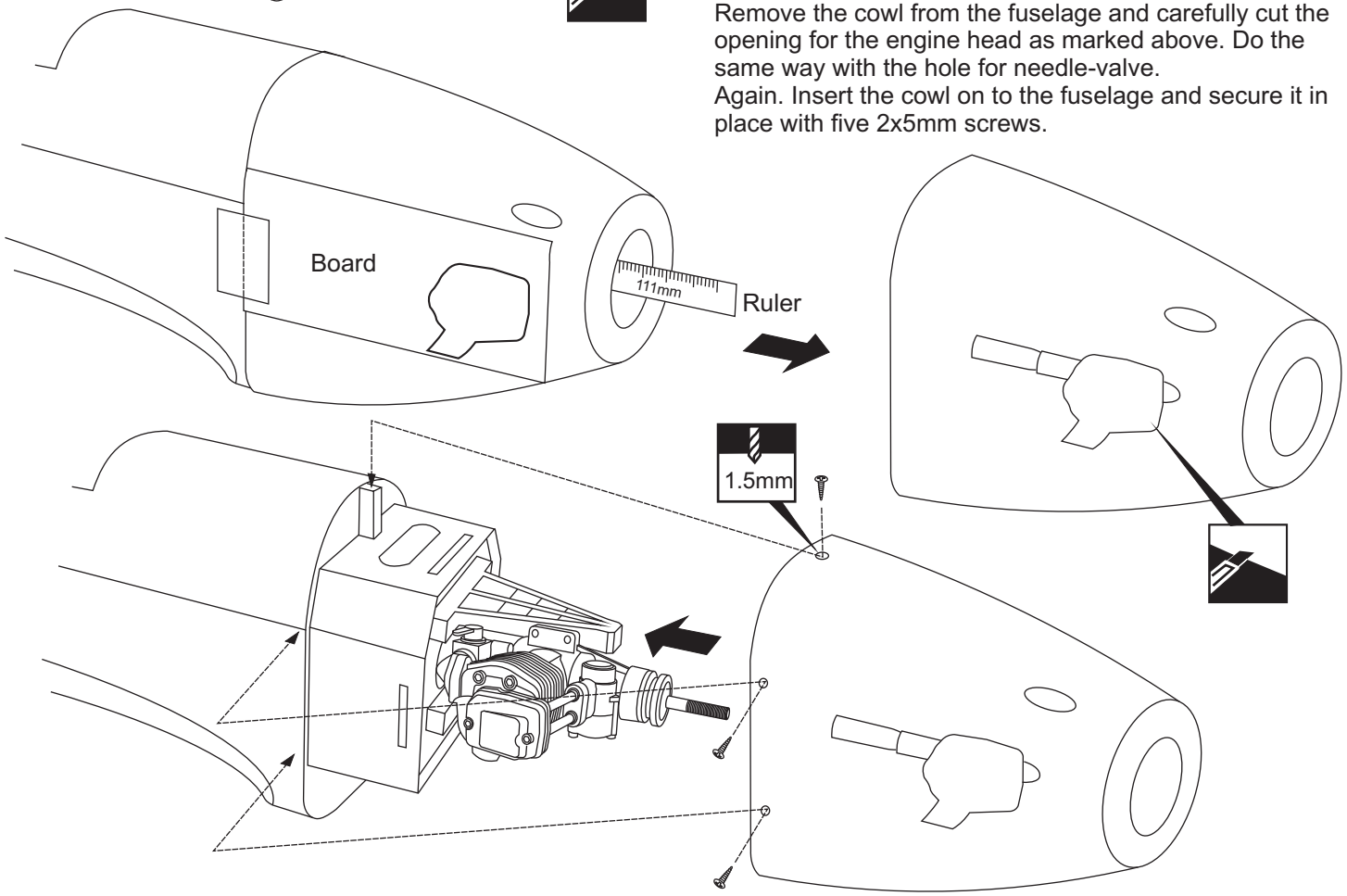
17- Cowling



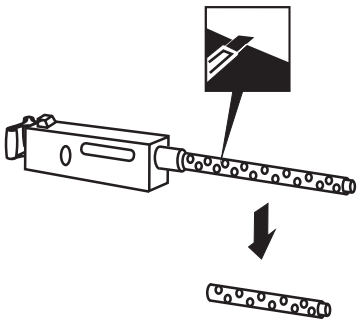


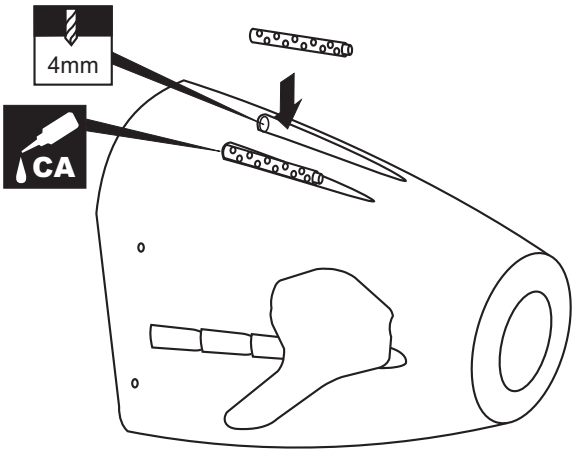
Attach the board or transparent plastic on the side of the fuselage with the adhesive tape as show.
Using a pencil or felt tipped pen trace around the engine head where it meet the cowl. Cut the opening the board or transparent plastic for the engine head as marked above.
Remove the engine and insert the cowl on to the fuselage so the distance from the fire wall to the front of the cowl is 109 to 111mm .
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.
Again. Insert the cowl on to the fuselage and secure it in place with five 2x5mm screws.



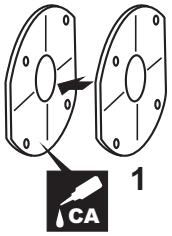


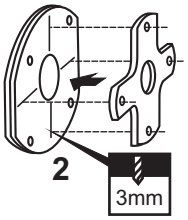
18- Machine gun





19- Electric Motor

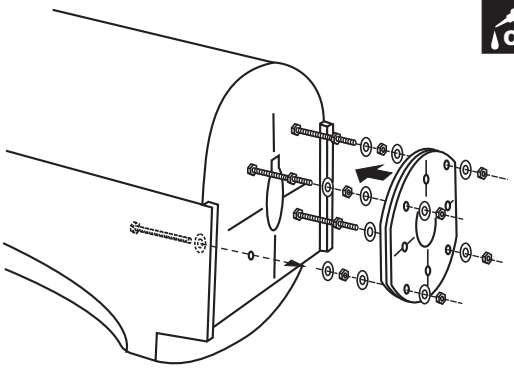


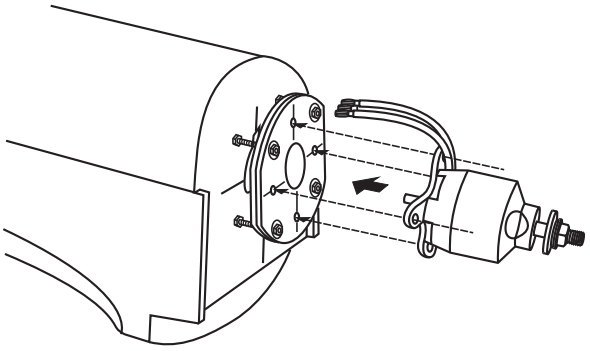


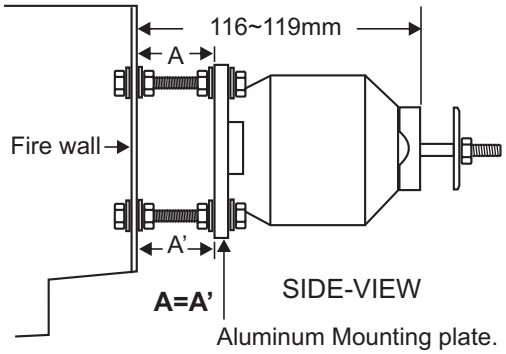
Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (2).

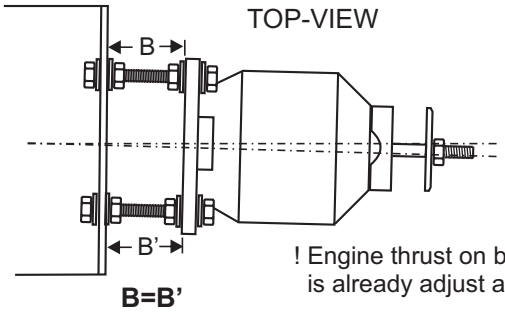
Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked .

Note: The aluminum motor mounting included with electric motor set.







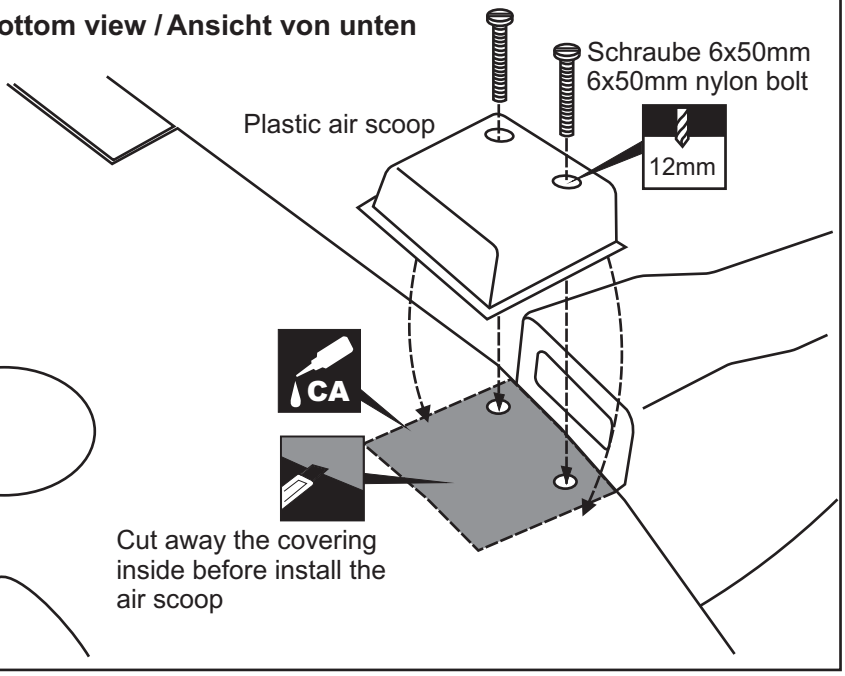


! Engine thrust on balk head is already adjust at factory

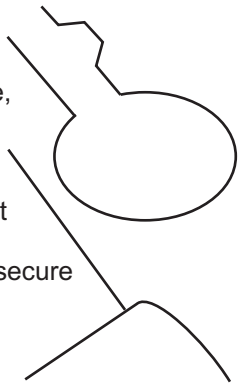
20- Air scoop

6X50mm bolt ...2

Bottom view / Ansicht von unten

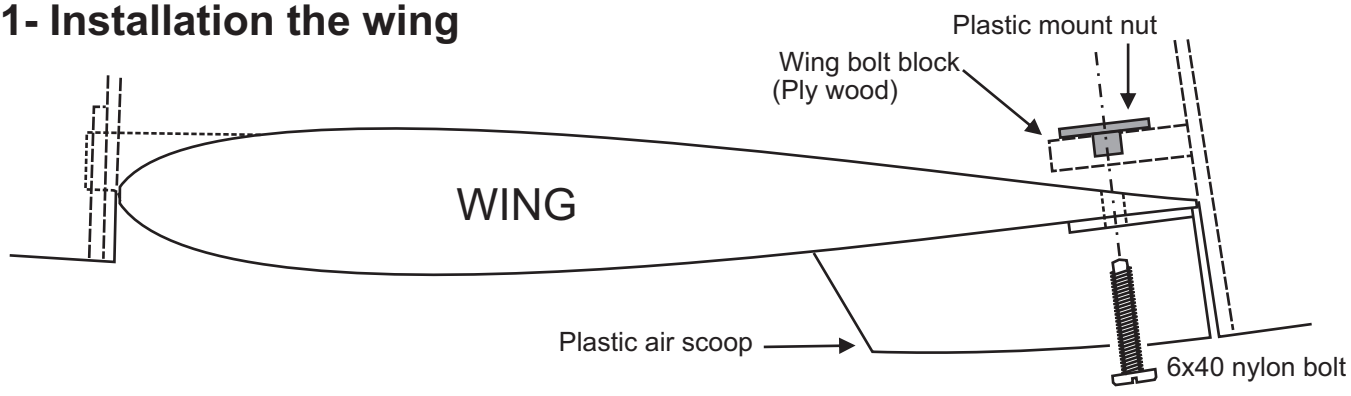


Using the ABS air scoop as a template, trace around the outside edge of the ABS air-scoop and then remove it. Using a sharp hobby knife, cut away the covering inside the lines. Not to cut into the wood.
Apply the ABS air scoop in place and secure them with CA glue.

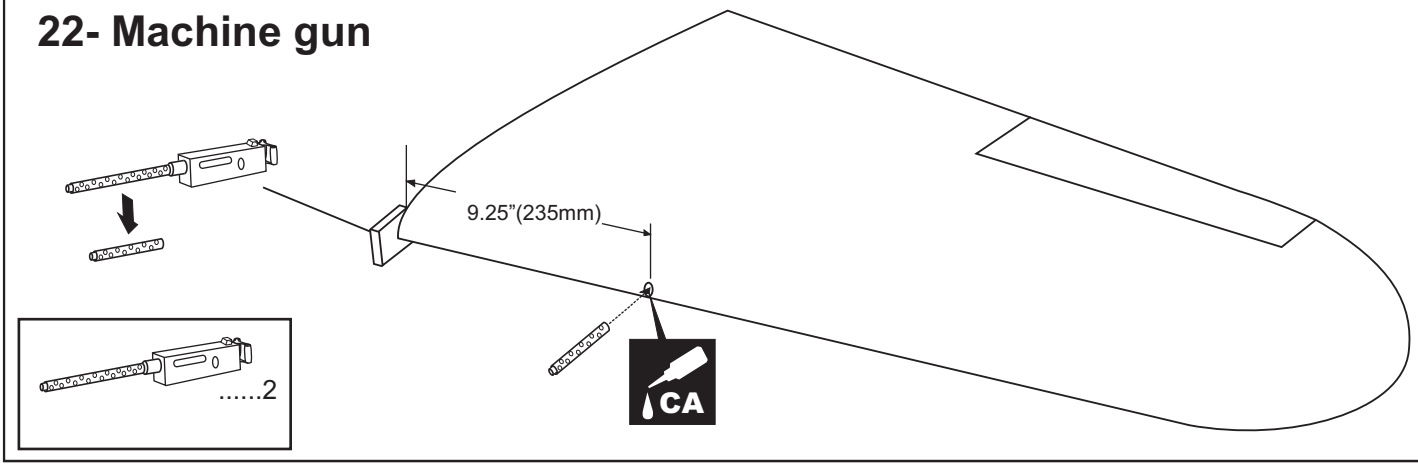


Cut away the covering inside before install the air scoop

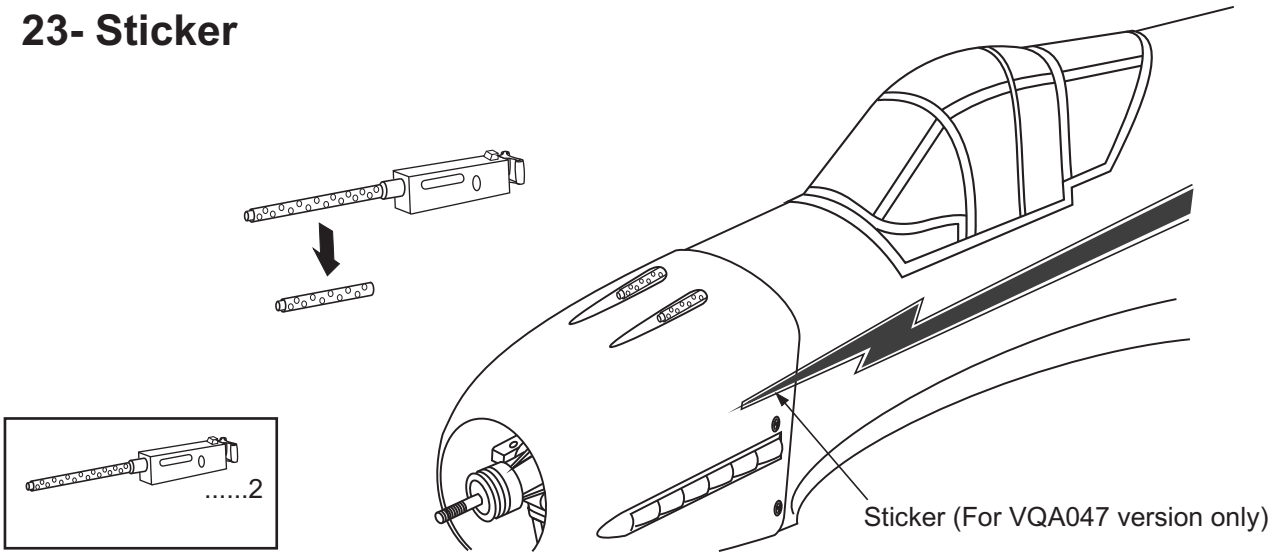
21- Installation the wing



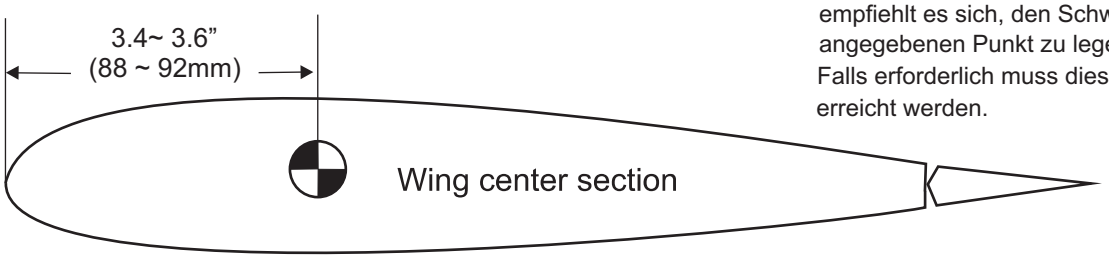
22- Machine gun



23- Sticker

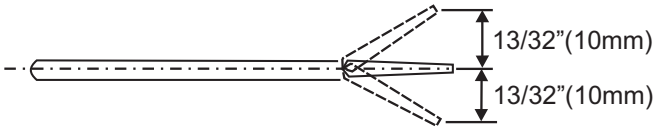


24- Balance

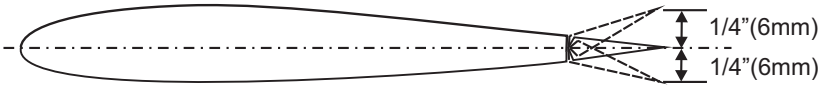


Der Schwerpunkt sollte zwischen 88 mm und 92 mm hinter der Nasenleiste liegen. Für die ersten Flüge empfiehlt es sich, den Schwerpunkt an den vorderen angegebenen Punkt zu legen.
Falls erforderlich muss dies durch Ankleben von Blei erreicht werden.

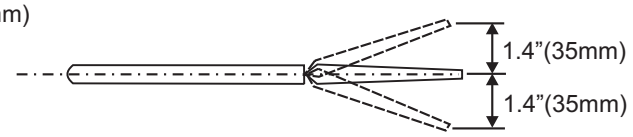
25- Control surface



ELEVATOR STROKE / HÖHENRUDER



AILERON STROKE / QUERRUDER



RUDDER STROKE / SEITENRUDER

BEFORE FLYING CHECK EVERYTHING
Before each flight, inspect the airplane for any loose parts. Check the hinges, make sure the pushrods are still firmly attached, and check the engine mounting bolts. In general, check everything on the plane that might possibly come loose.

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