

Radio control model / RC Flugmodell

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

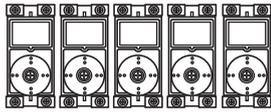
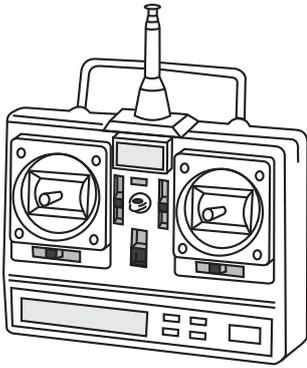
Spannweite	1580mm
Länge	1180mm
Elektroantrieb	870 Watt (PULSAR 60)
Verbrennerantrieb	7.5cc 2T / 8.5cc 4T
Fernsteuerung	5 Kanal / 5 Servos



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 Modellfluggpiloten 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.

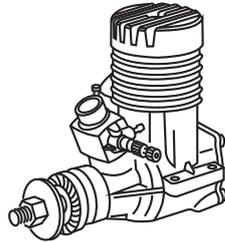
REQUIRED ITEMS / Zum Betrieb wird benötigt



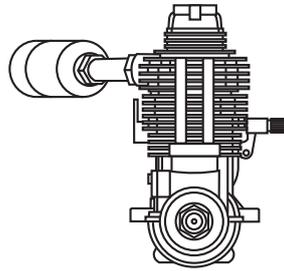
Minimum 5 channel radio for airplane with 5 servos
Aileron servo x 2.
Throttle servo x 1.
Rudder servo x 1.
Elevator servo x 1.



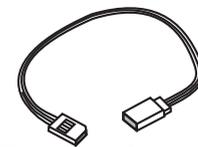
10.5x6 for .40 - 2 cycle engine
11x6 for .46 - 2 cycle engine
12x6 for .60 - 4 cycle engine
12x7 for .70 - 4 cycle engine
13x6 for Quantum 4120/05



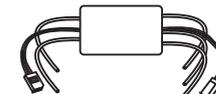
.46 ~ .50 - 2 cycle



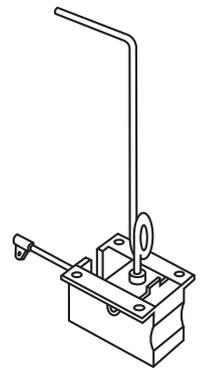
.60 ~ .70 - 4 cycle



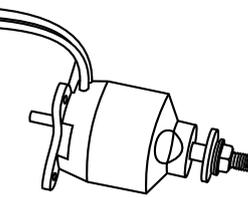
Extension for aileron servo, retract servo.



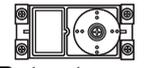
60A Brushless ESC
60A Brushless Regler



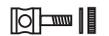
Retract landing gear VQAR08



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



CA



EPOXY A



EPOXY B

Epoxy Glue (5 minute and 30 minute type)

TOLLS REQUIRED / Erforderliches Werkzeug

Hobby knife



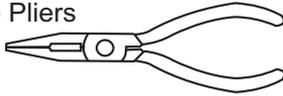
Phillip screw driver



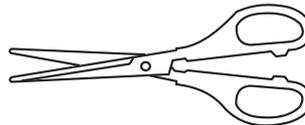
Hex Wrench



Needle nose Pliers



Scissors



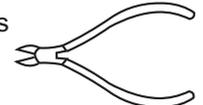
Awl



Sander



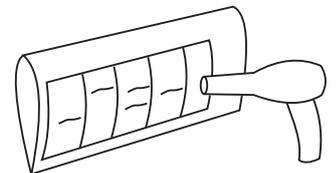
Wire Cutters



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 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



Symbols used throughout this instruction manual, comprise / Selbsterklärende 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.



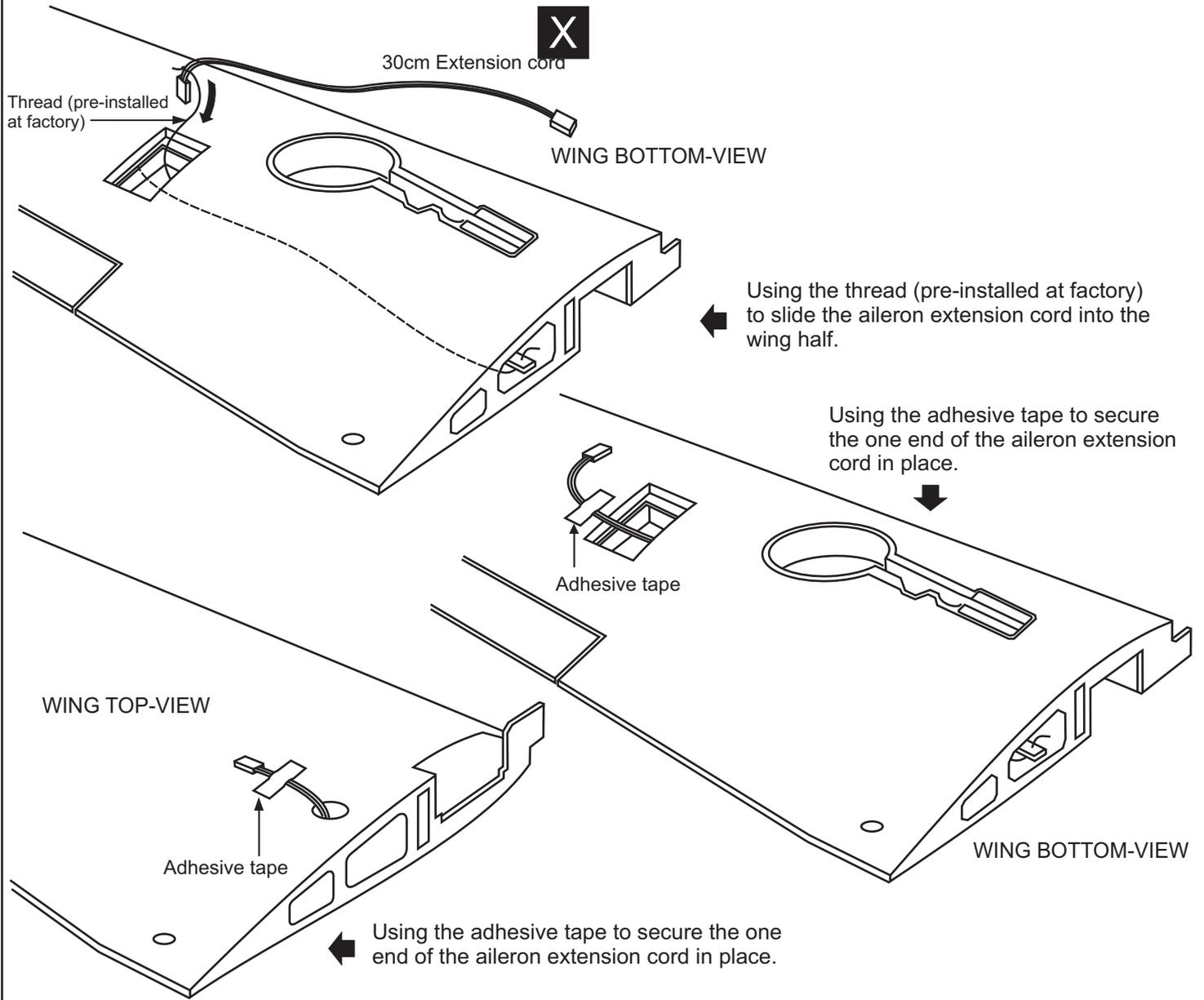
Not included. These parts must be purchased separately

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"	

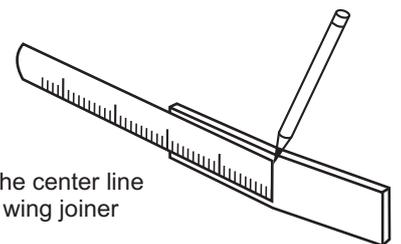
1-Aileron extension cord installation



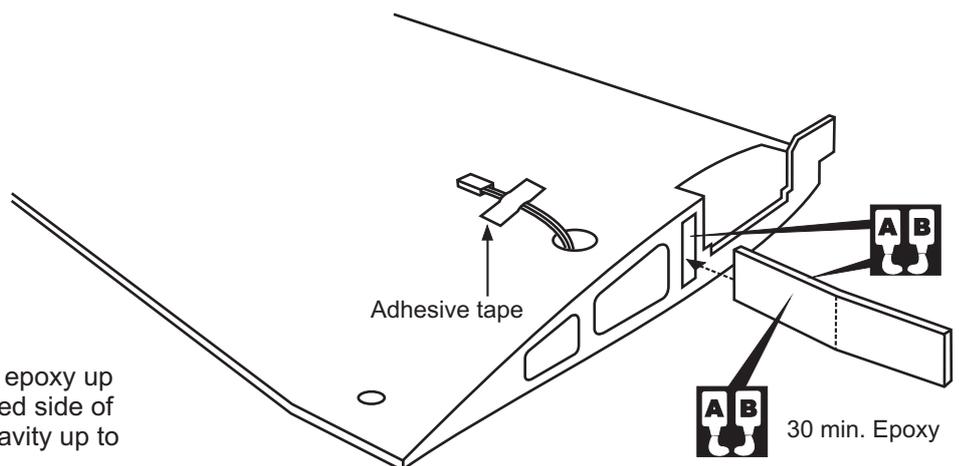
2- Joining the wing

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

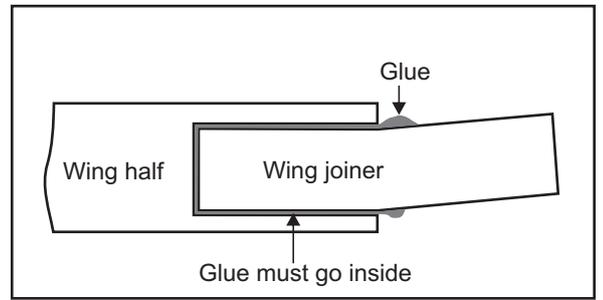
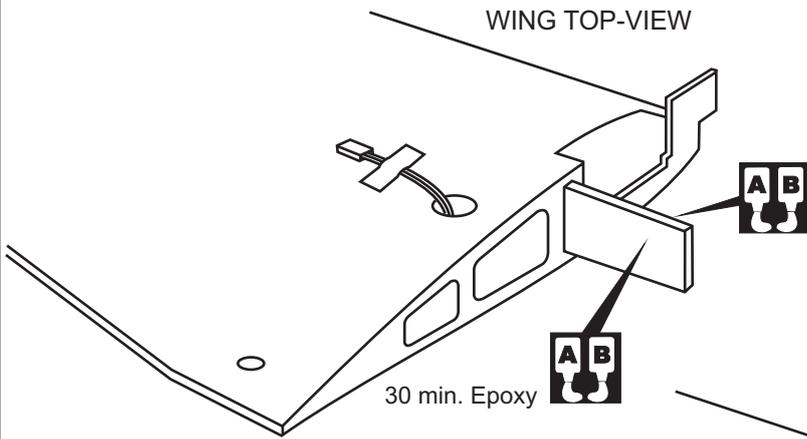


Coat one half of the dihedral brace with epoxy up to the center line. Install the epoxy-coated side of the dihedral brace into the wing joiner cavity up to the center line.



3- Joining the wing

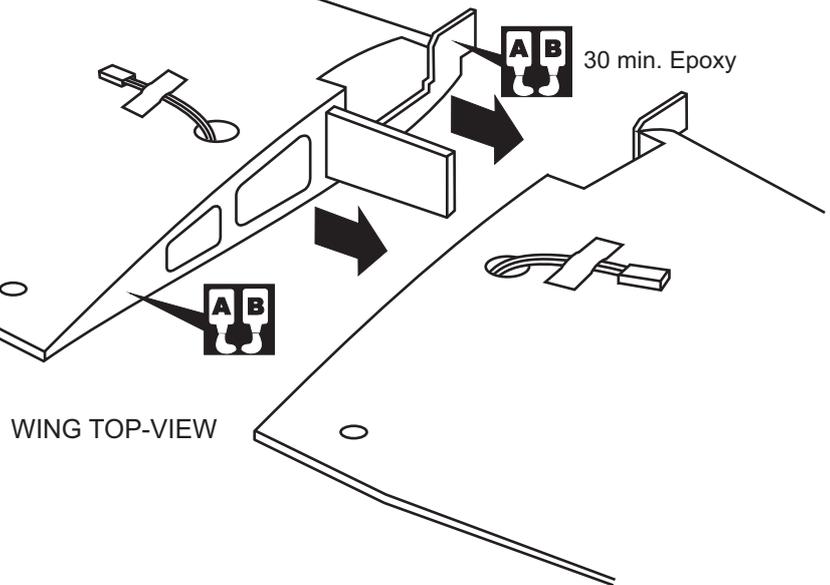
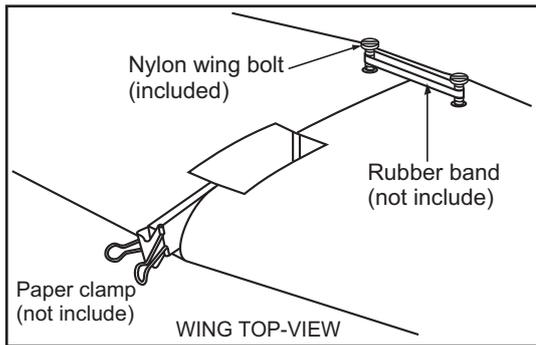
WING TOP-VIEW



! 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.

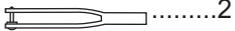


WING TOP-VIEW

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.

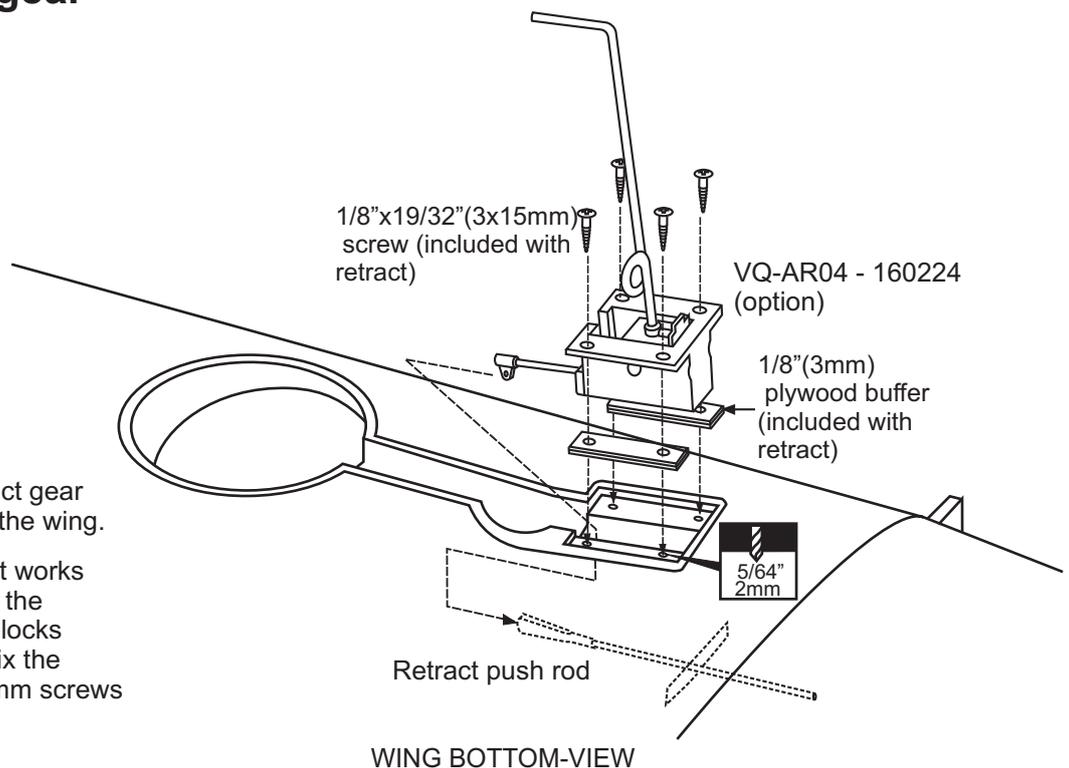
4- Retract landing gear

Steel clevis



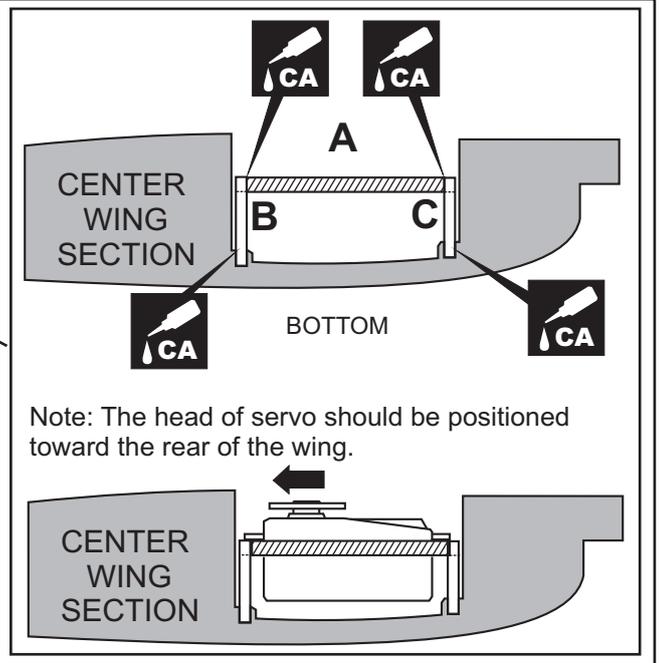
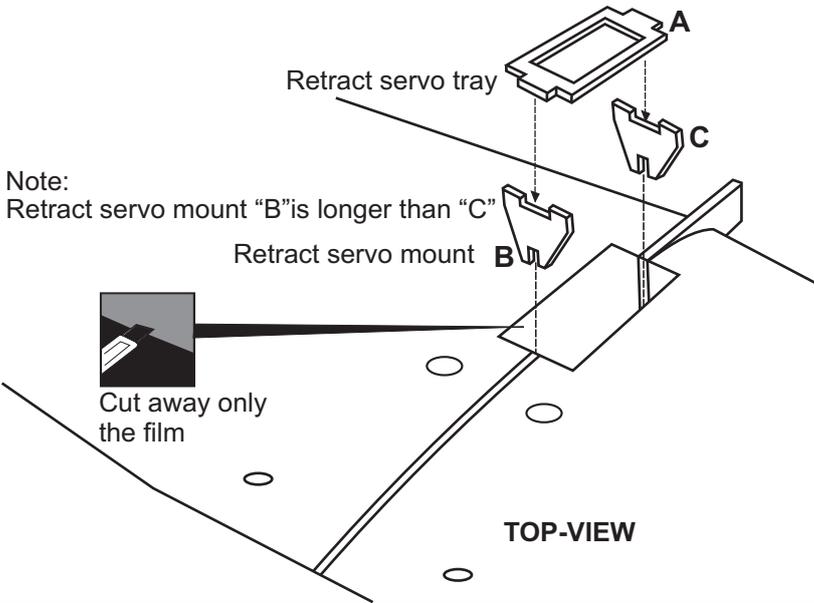
1-Join the push rod to the retract gear arm and trial fit the retract into the wing.

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

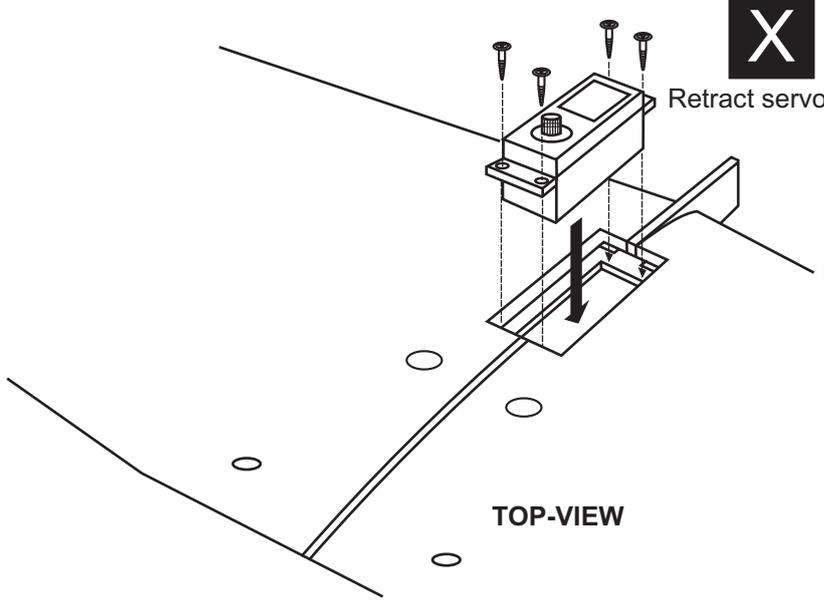


WING BOTTOM-VIEW

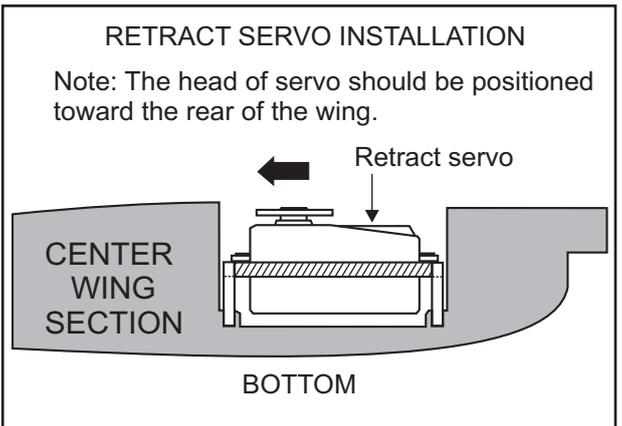
5- Retract servo mount



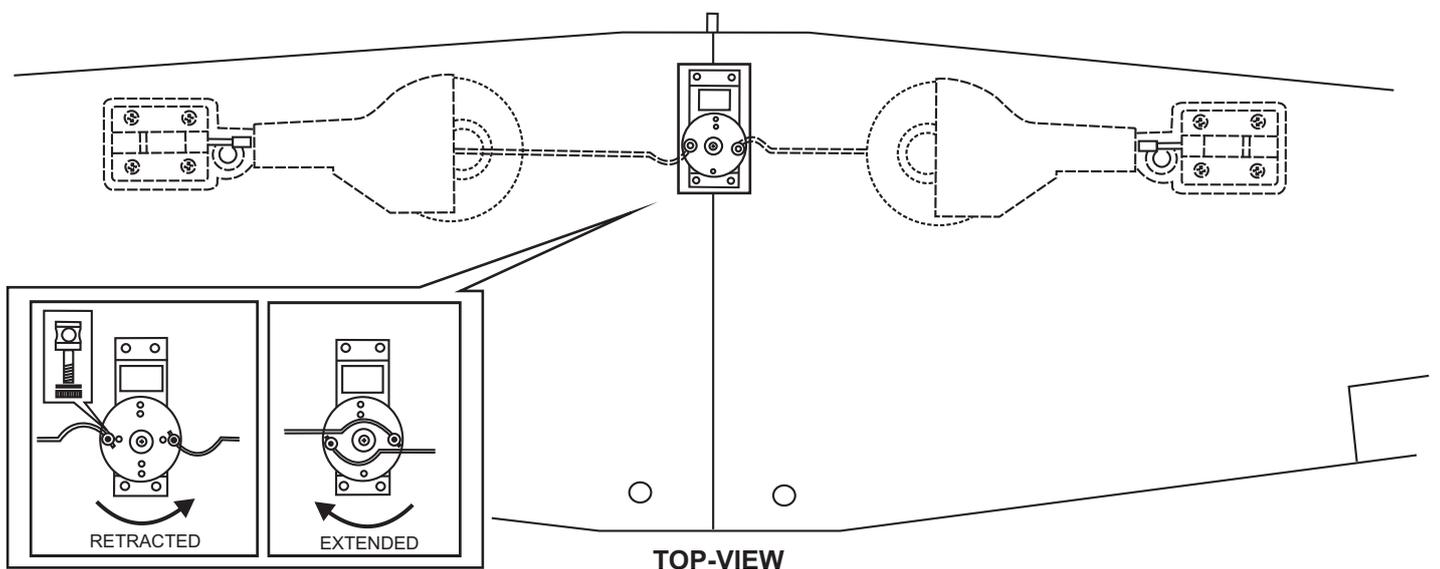
6- Retract servo



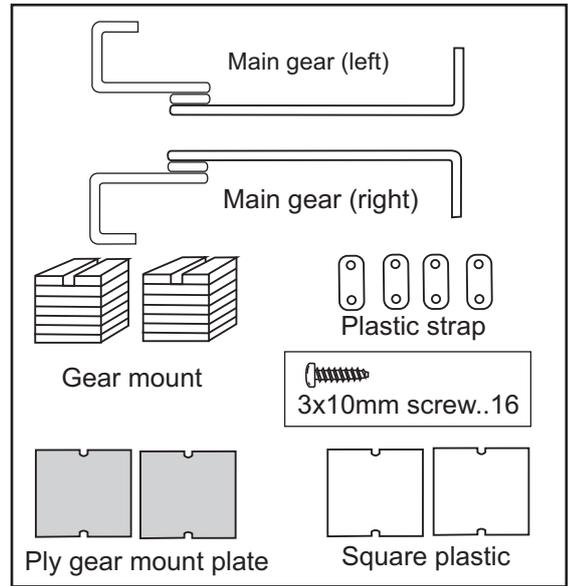
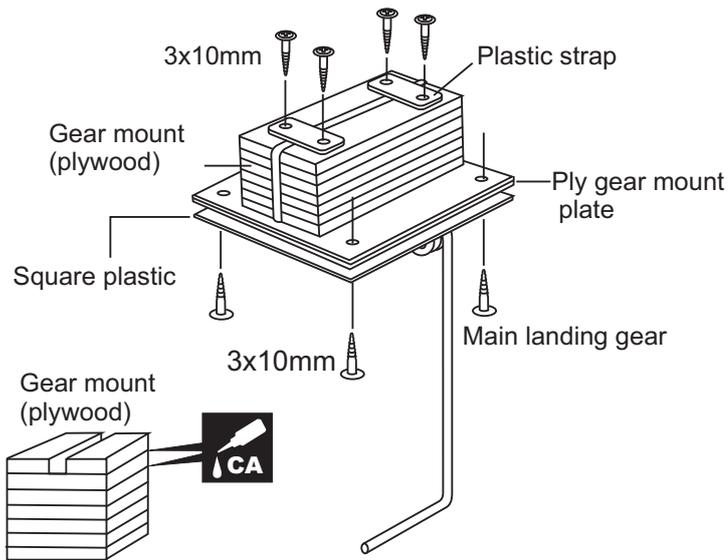
Install the retract servo onto the retract servo mount and secure it in place with four screw (included with radio set).



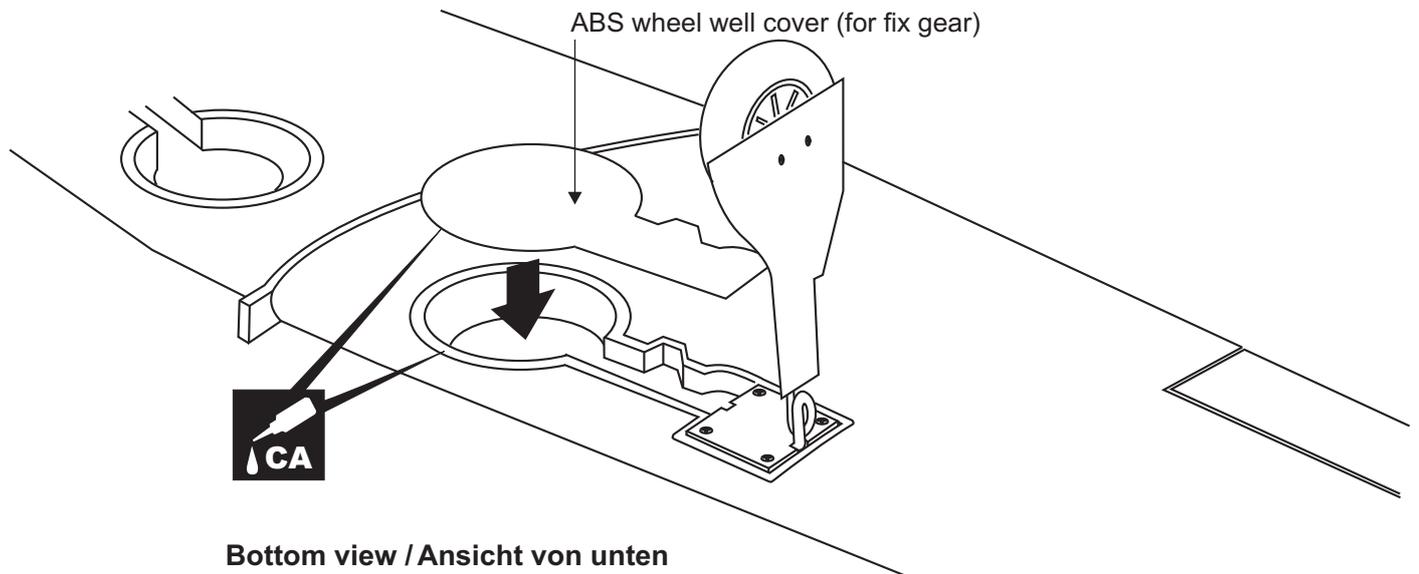
7- Retract linkage



8- Fixed gear



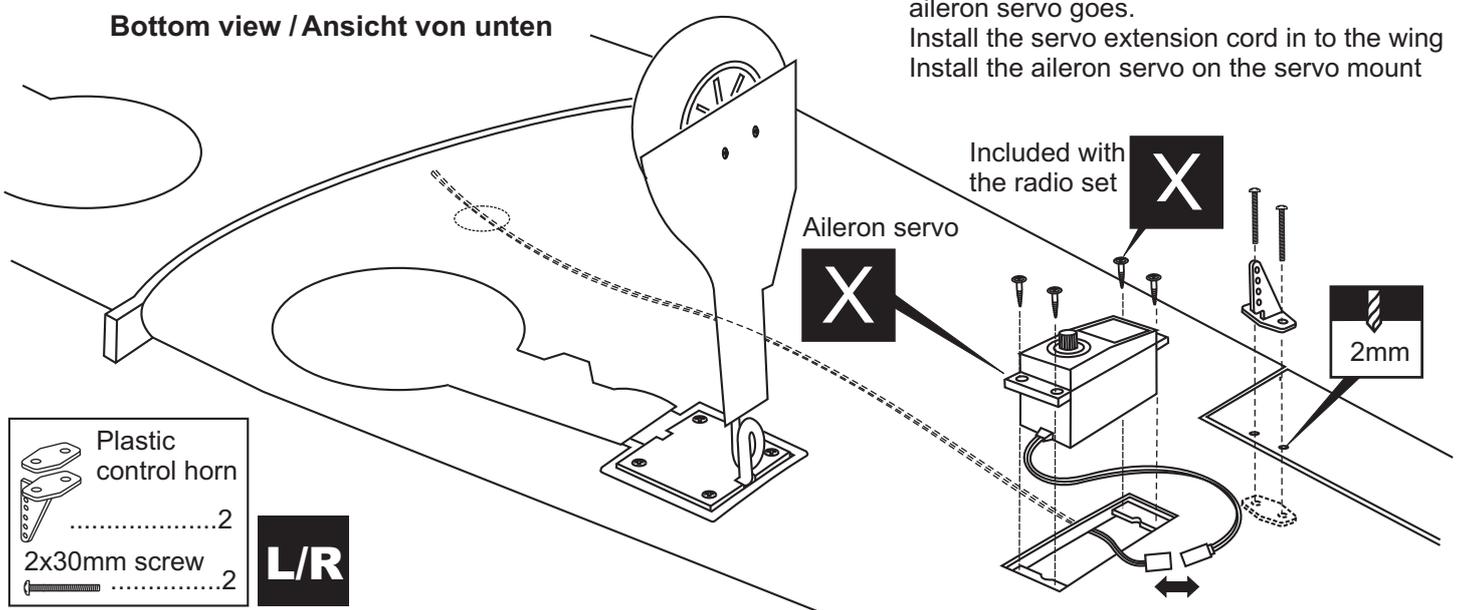
9- Fixed gear



10- Aileron servo

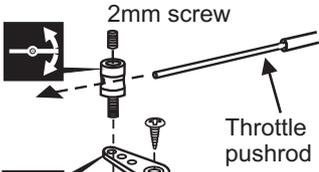
Bottom view / Ansicht von unten

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



Connector

3



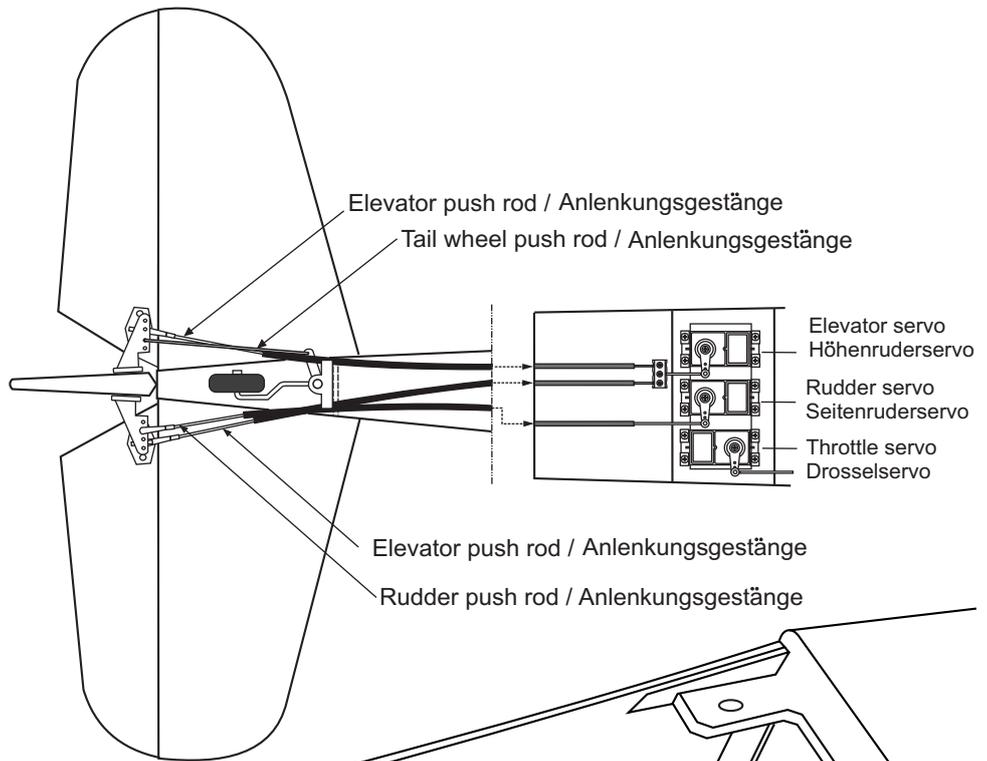
2mm screw

Throttle pushrod

2 mm



Rudder servo / Throttle servo
Seitenruderservo / Drosselservo



Elevator push rod / Anlenkungsgestänge

Tail wheel push rod / Anlenkungsgestänge

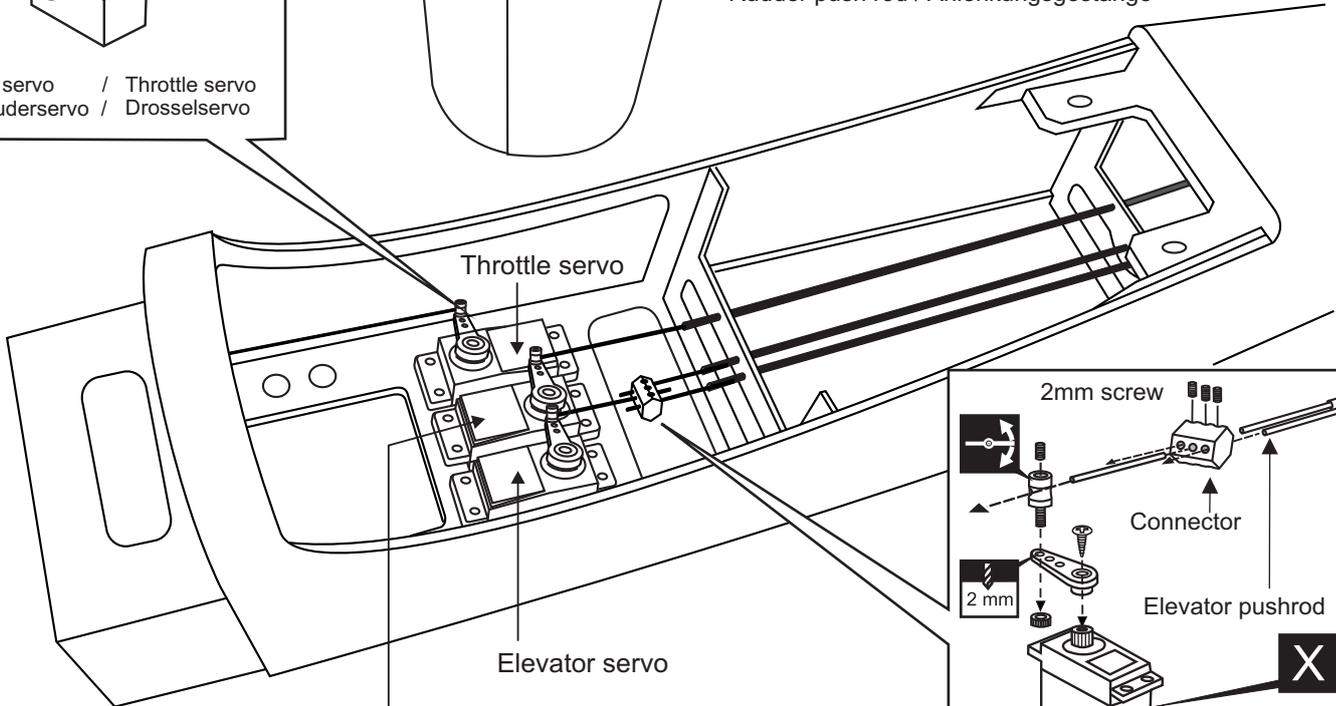
Elevator servo
Höhenruderservo

Rudder servo
Seitenruderservo

Throttle servo
Drosselservo

Elevator push rod / Anlenkungsgestänge

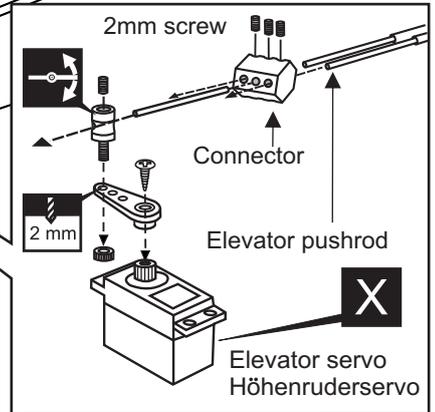
Rudder push rod / Anlenkungsgestänge



Throttle servo

Elevator servo

Rudder servo



2mm screw

Connector

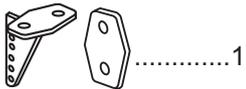
2 mm

Elevator pushrod

Elevator servo
Höhenruderservo

14- Tail wheel

Plastic control horn



.....1

2x10mm screw

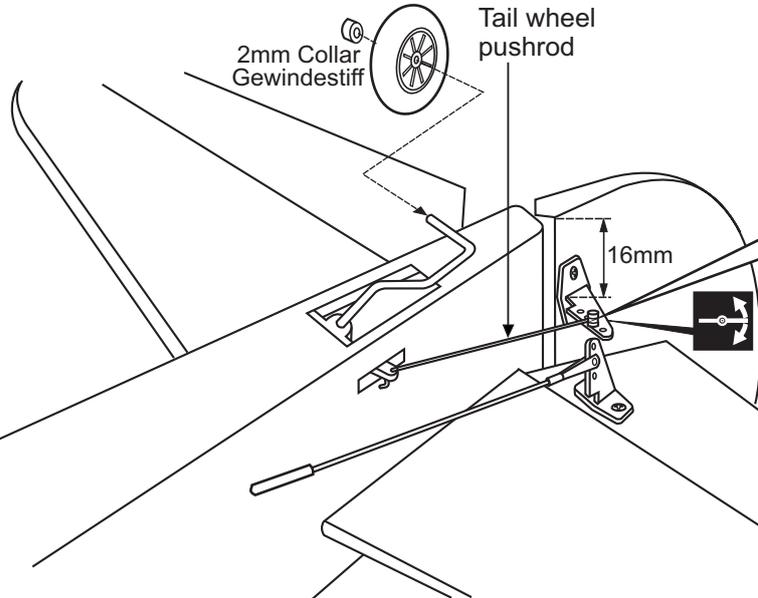
.....2

2mm collar

.....1

2mm Collar
Gewindestiff

Tail wheel
pushrod



16mm

Tail wheel
pushrod

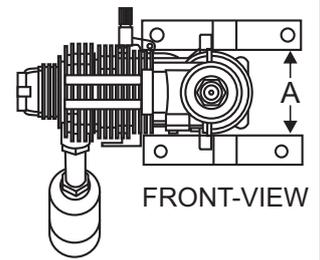
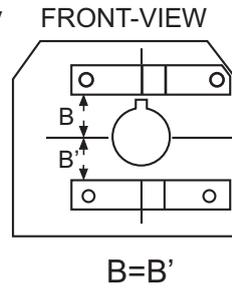
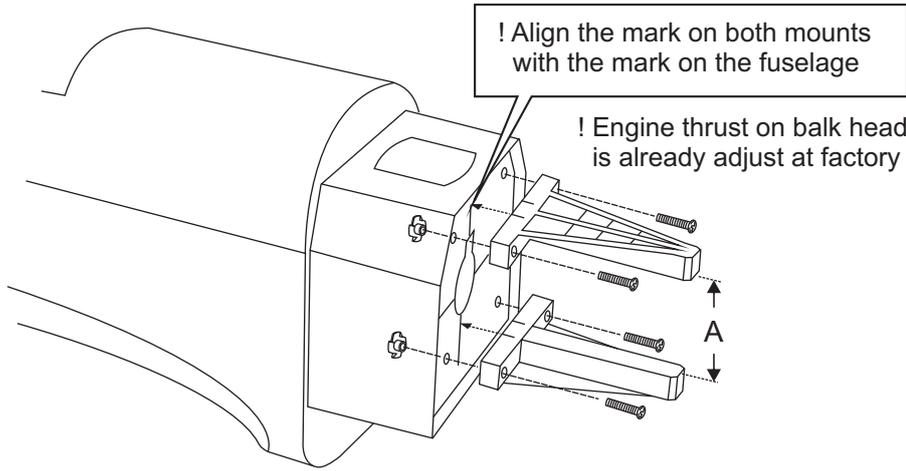
2mm
screw



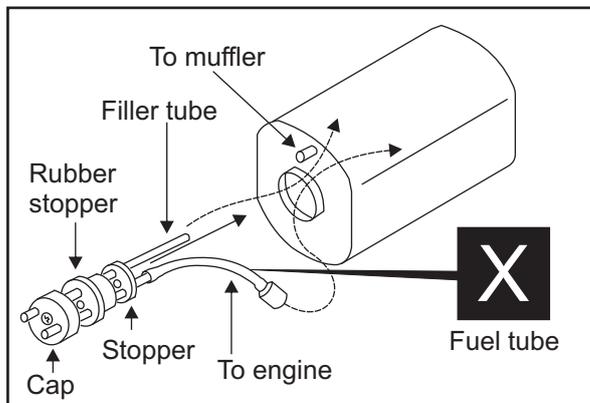
2 mm

15- Engine mount

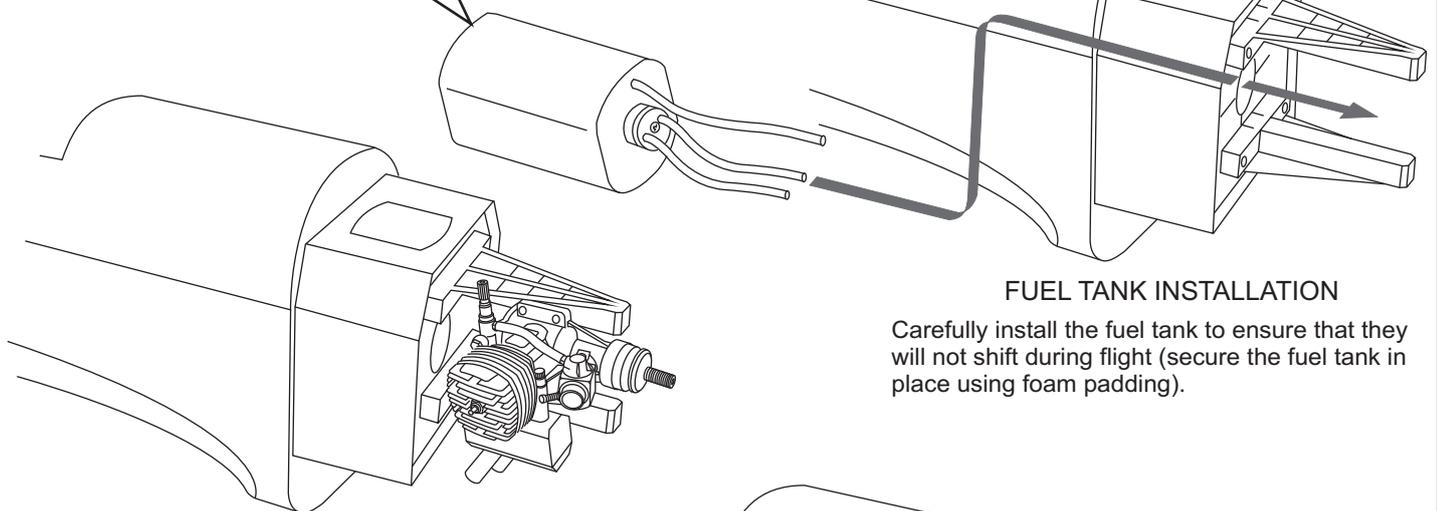
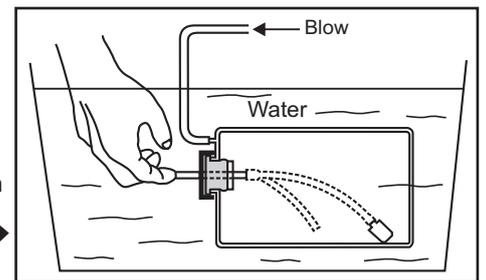
- 4x25mm screw4
- Blind-nut4



16- Fuel tank

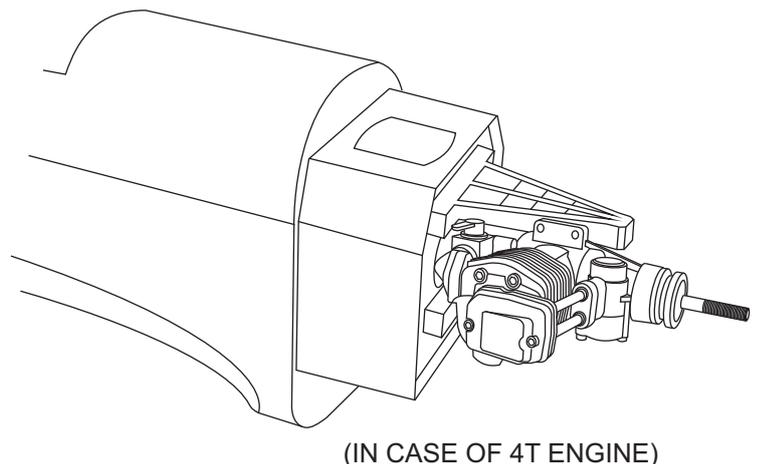
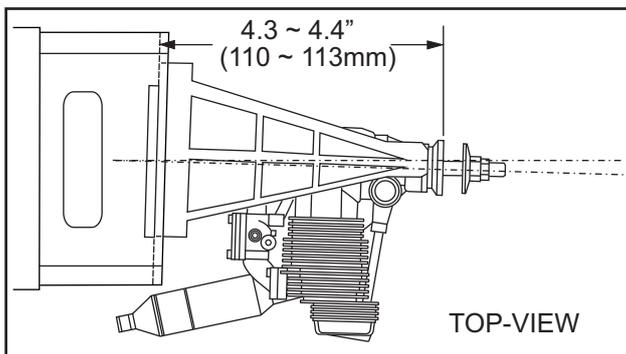


Checking for leaks - block the vents and blow into the feed - if in doubt submersing the tank in a blow of water will show up any problems.

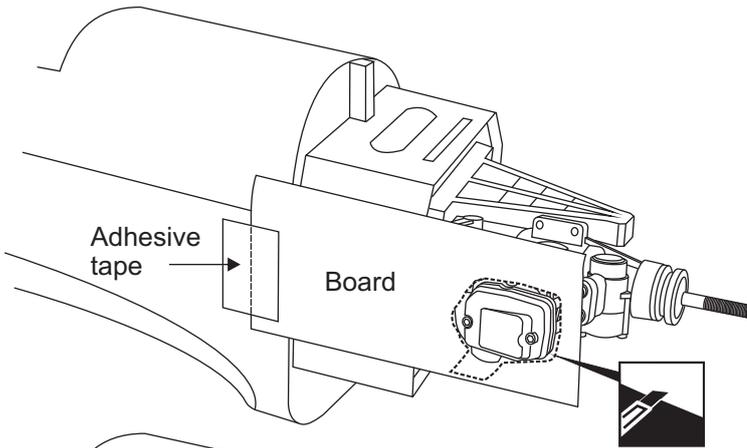
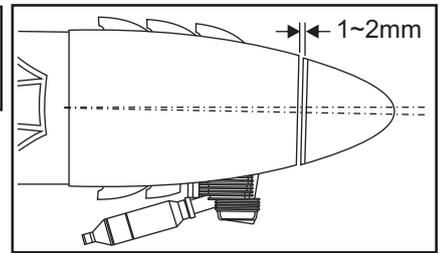


Carefully install the fuel tank to ensure that they will not shift during flight (secure the fuel tank in place using foam padding).

(IN CASE OF 2T ENGINE)



17- Cowling

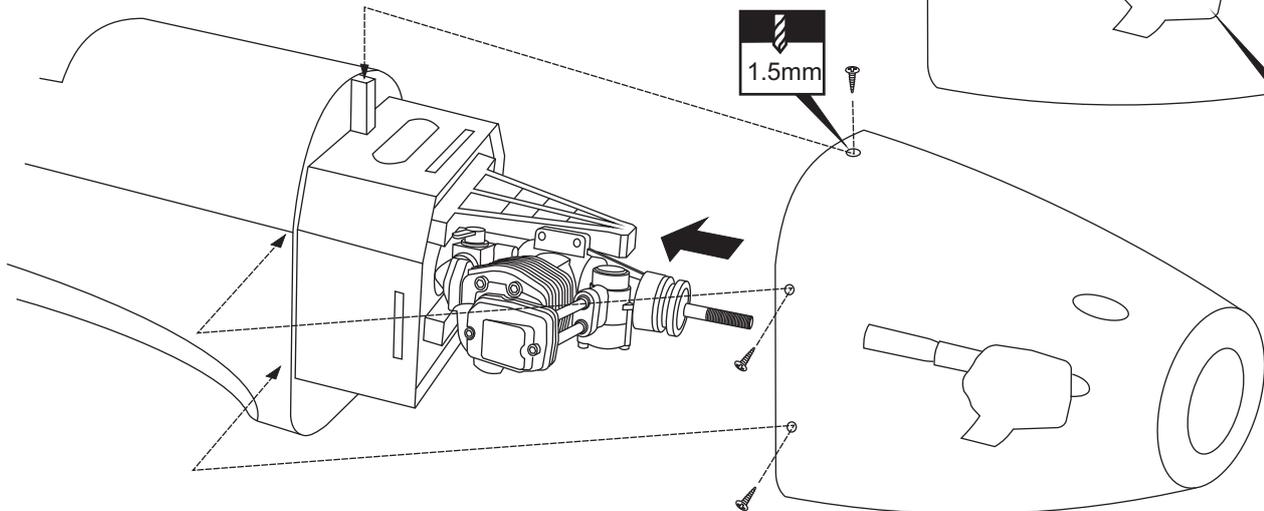
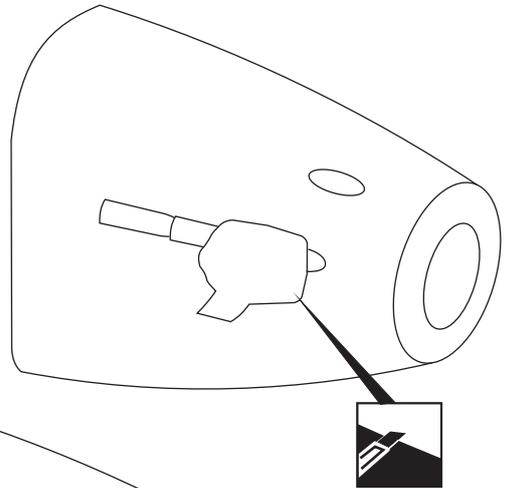
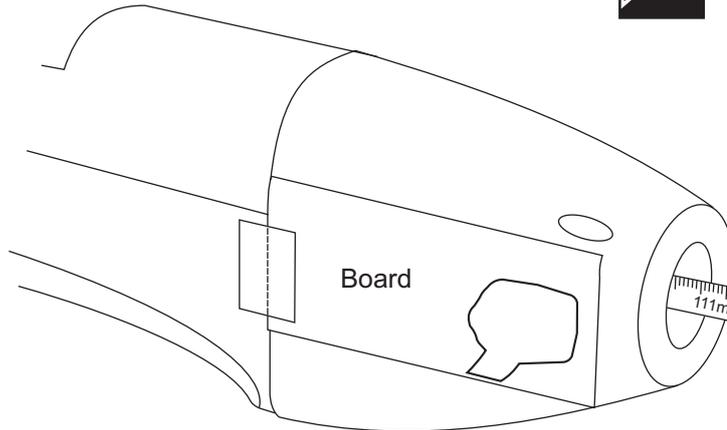


Attach the board or transparent plastic on the side of the fuselage with the adhesive tape as show. Using a pencil or felt tipped pen trace around the engine head where it meet the cowl. Cut the opening the board or transparent plastic for the engine head as marked above.

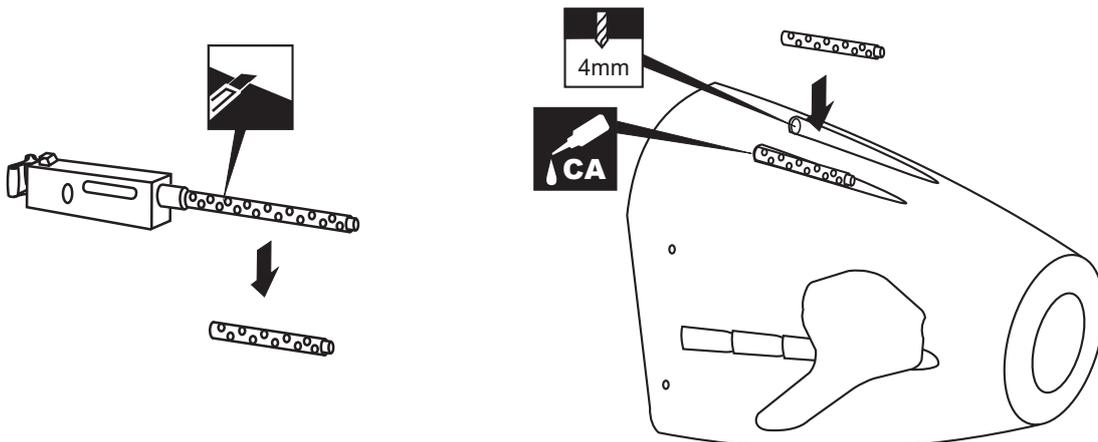
Remove the engine and insert the cowl on to the fuselage so the distance from the fire wall to the front of the cowl is 109 to 111mm .

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.

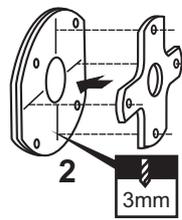
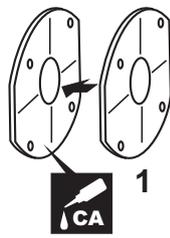
Again. Insert the cowl on to the fuselage and secure it in place with five 2x5mm screws.



18- Machine gun



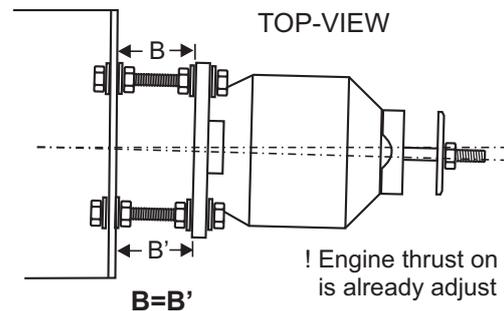
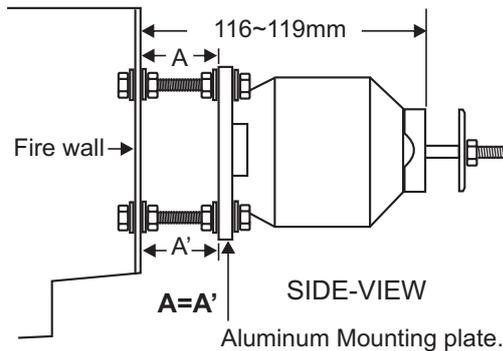
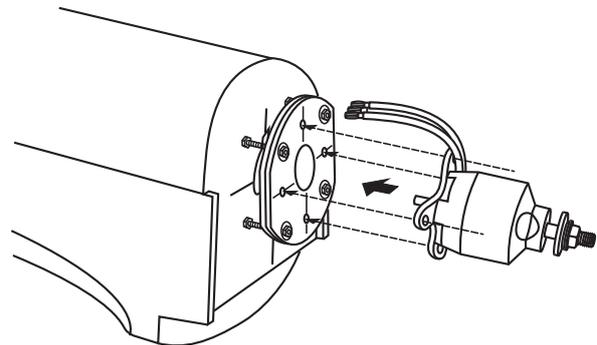
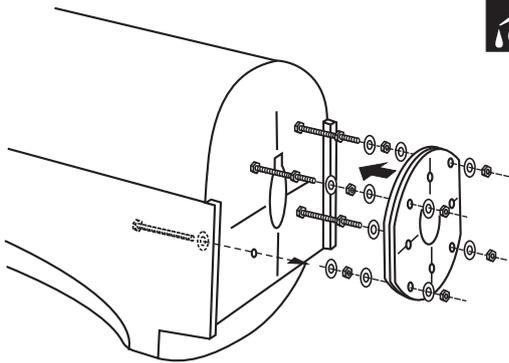
19- Electric Motor



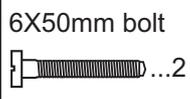
Using an aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (2).

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.

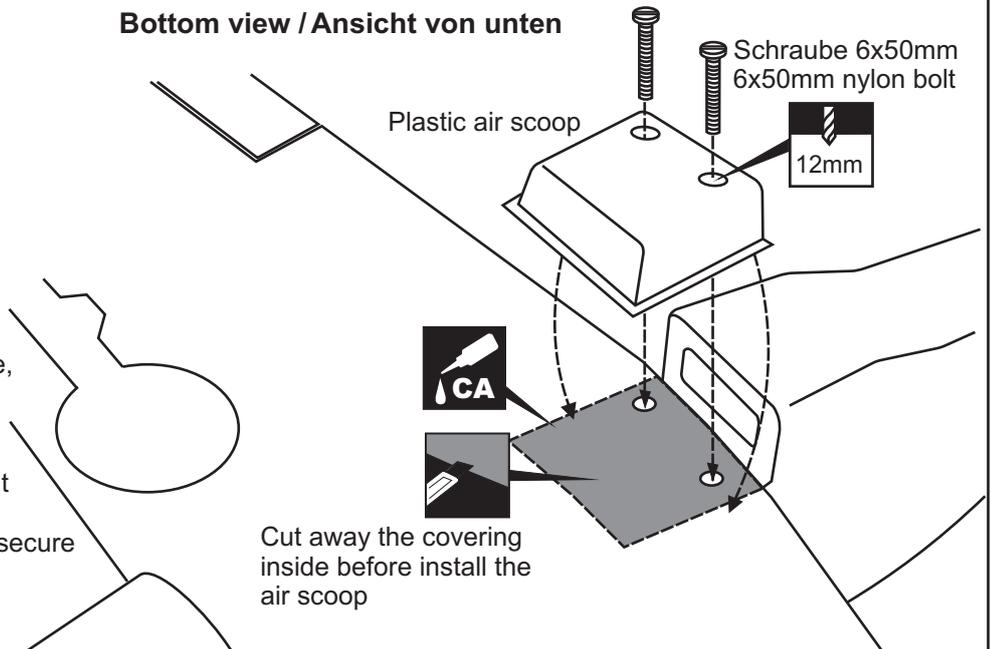


20- Air scoop

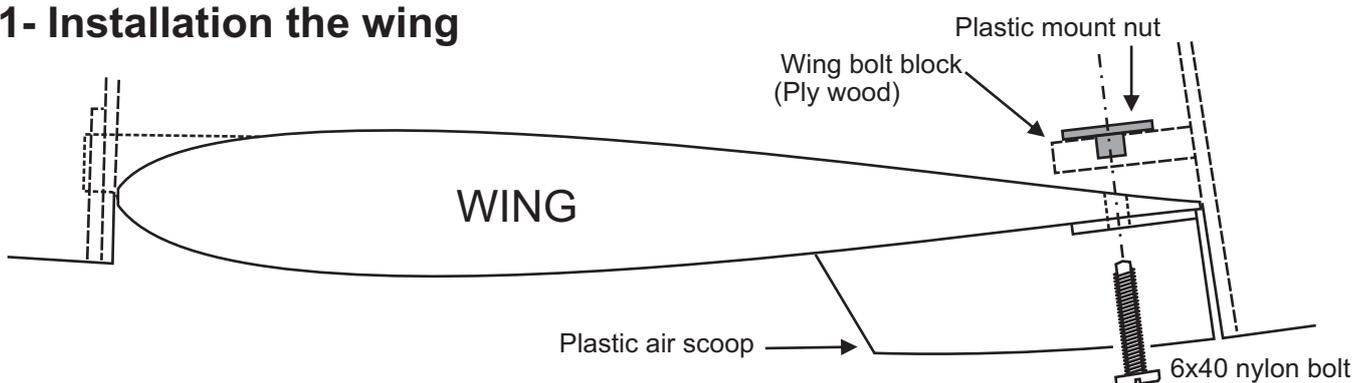


Using the ABS air scoop as a template, trace around the outside edge of the ABS air-scoop and then remove it. Using a sharp hobby knife, cut away the covering inside the lines. Not to cut into the wood. Apply the ABS air scoop in place and secure them with CA glue.

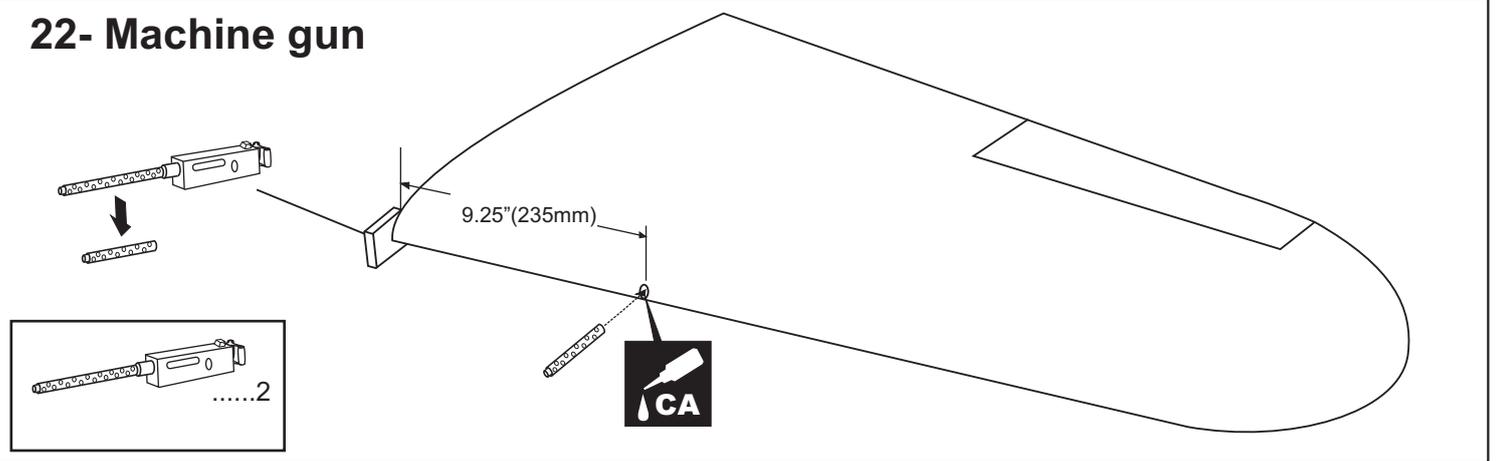
Bottom view / Ansicht von unten



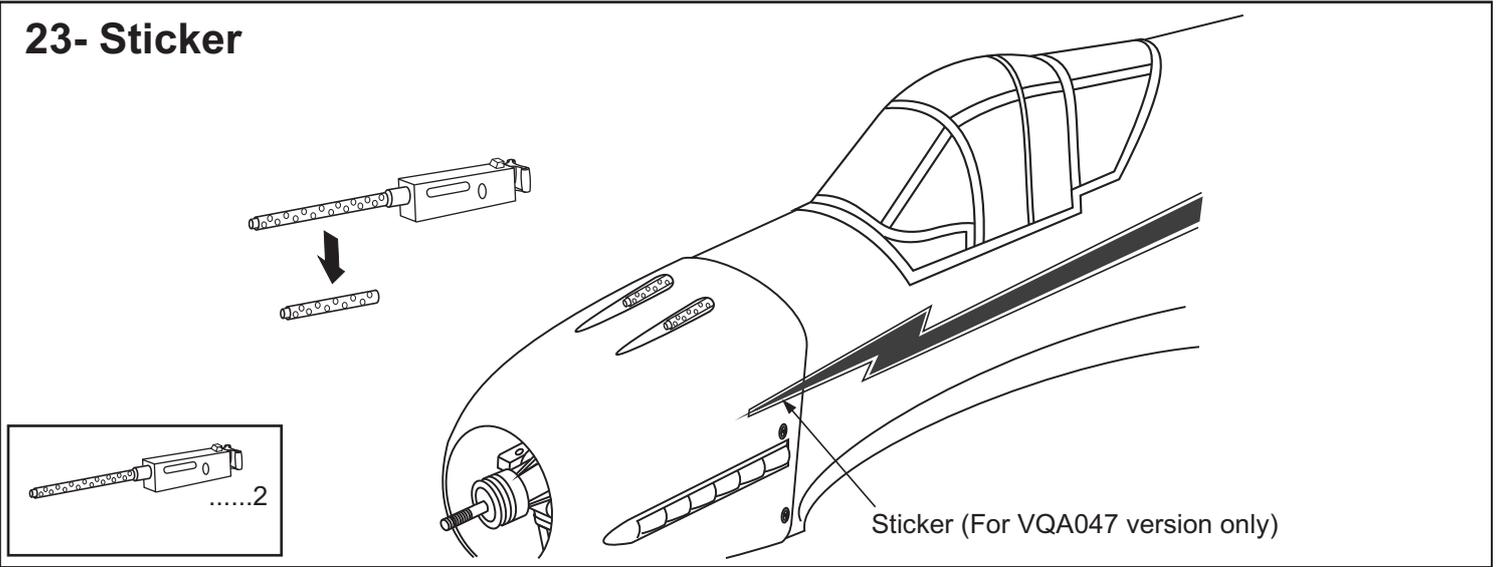
21- Installation the wing



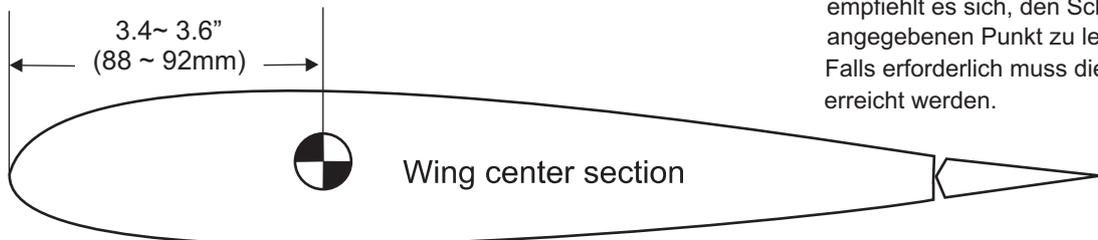
22- Machine gun



23- Sticker

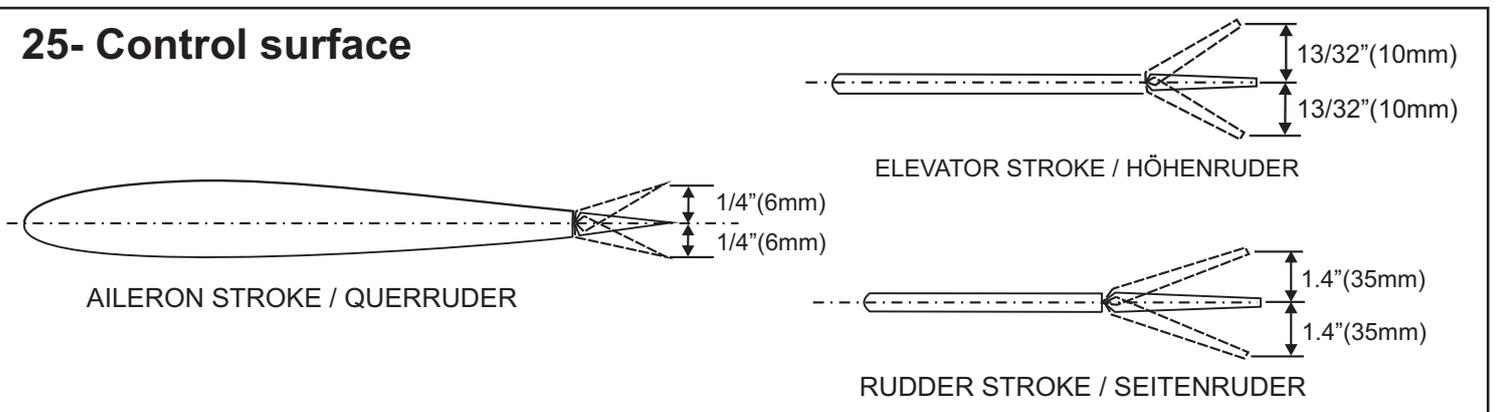


24- Balance



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



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.