60 Class
2-cycle engine

90 Class
4-cycle engine

MESSERSCHMITT ME-108
"Taifun"

BUILDING INSTRUCTIONS / MONTAGEANLEITUNG

VQA053

SPECIFICATIONS

Wingspan	1625mm
Length	1300mm
Flying weight	2900g
Electric Motor	800 Watt (BOOST 60)
Glow Engine	10cc 2T / 15cc 4-T
Radio	6 Channel / 7 Servos

Technische Daten

Spannweite	1625mm
Länge	1300mm
Fluggewicht	2900g
Elektroantrieb	800 Watt (BOOST 60)
Verbrennerantrieb	10cc 2T / 15cc 4T
Fernsteuerung	6 Kanal / 7 Servos

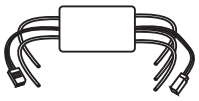
RADIO CONTROL MODEL

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.

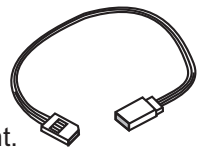
ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein 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 FOR OPERATION (Purchase separately)
BENÖTIGTE KOMPONENTEN FÜR DEN ABFLUG (Nicht enthalten)

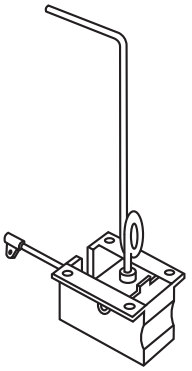
12x6 for .60 - 4 cycle engine
13x7 for .90 - 4 cycle engine
14X8 for Quantum 4120/07
BOOTS 60



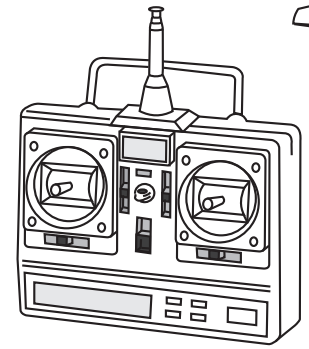
Phoenix-60 Brushless
Motor Control or equivalent.

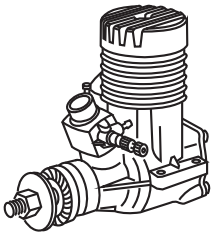


Extension for aileron
servo, retract servo.

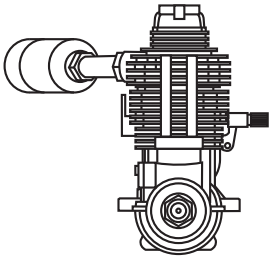


Retract landing
gear VQAR010

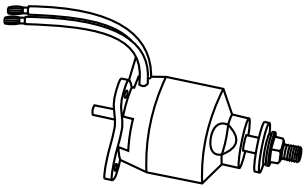




.60 - 2 cycle

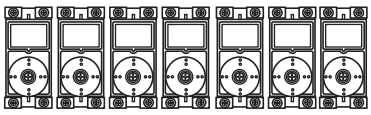


.90 - 4 cycle



Brushless Motor
BOOST 60

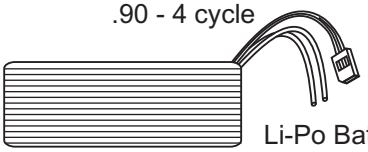
Retract servo
x1



Minimum 6 channel radio
for airplane with 7 servos
.Motor control x1 .Aileron x2
.Elevator x1 .Rudder x1
.Flap x 2

Linkage Stopper x2
(for retract servo)

Silicone tube



Li-Po Battery, 14.8V, 4500mAH (25C)

GLUE (Purchase separately)

Silicon sealer

Cyanoacrylate
Glue
Klebstoff

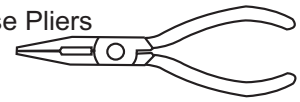
Epoxy Glue (5 minute type)
Epoxy-Klebstoff (5min-Typ)

Epoxy Glue (30 minute type)
Epoxy-Klebstoff (30min-Typ)

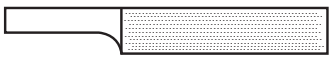
TOLLS REQUIRED (Purchase separately)

Hobby knife

Needle nose Pliers

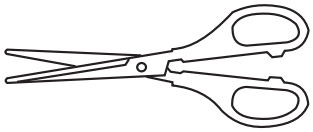


Sander



Phillip screw driver

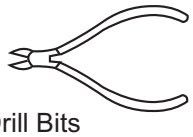
Scissors



Hex Wrench

Awl

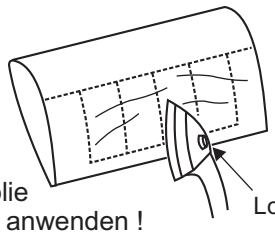
Wire Cutters



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

If exposed to direct sunlight and/or heat, wrinkels 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 Warumluftgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden !



Low setting

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

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

Hier besonders aufpassen

Schraffierte Stellen, Bespannfolie vorsichtig entfernen

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

Epoxy-Klebstoff verwenden

Sekundenkleber auftragen

Linke und rechte Seite wird gleichermaßen zusammengebaut

Nicht enthalten. Teile müssen separat gekauft werden.

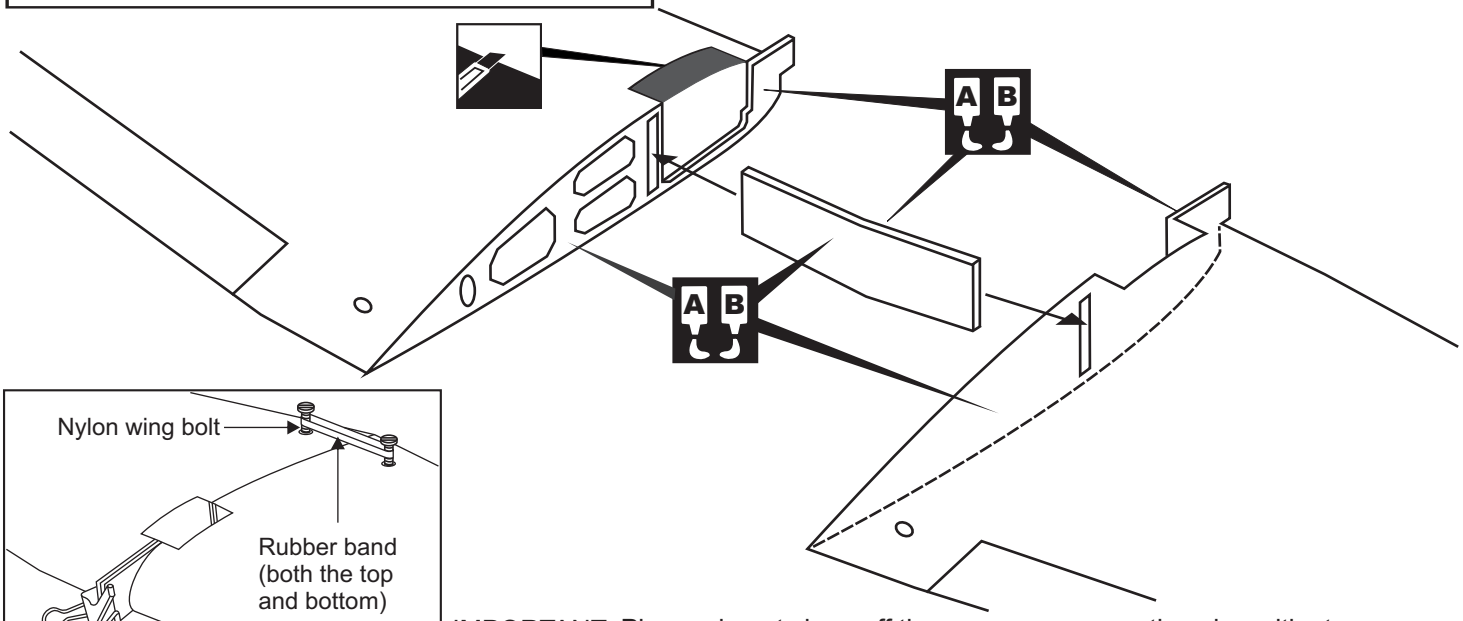
Read through the manual before you begin, so you will have an overall idea of what to do.

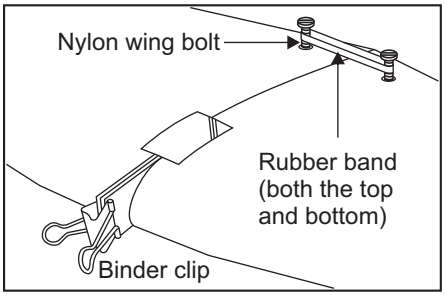
CONVERSION TABLE

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- Joining the wing / Flächenverbindung

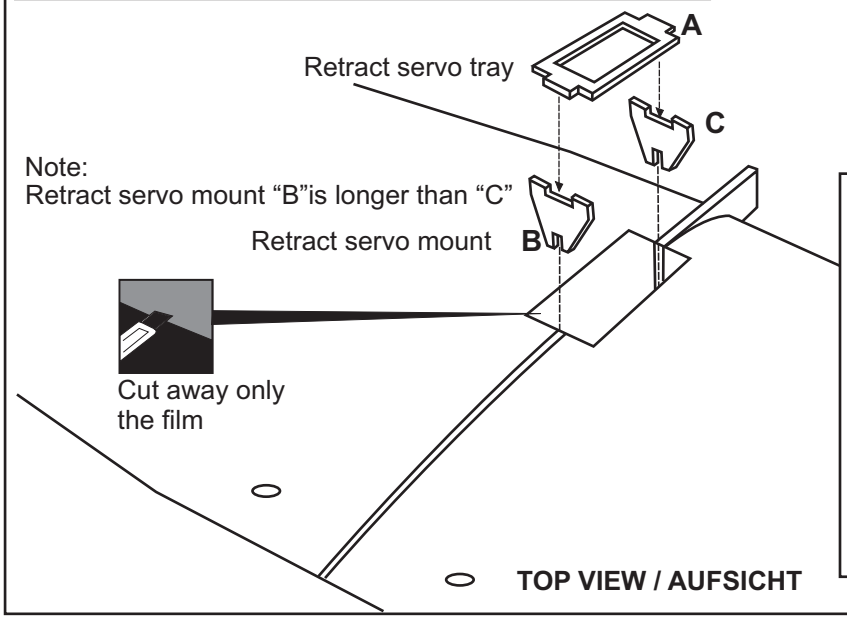
TOP VIEW / AUFSICHT



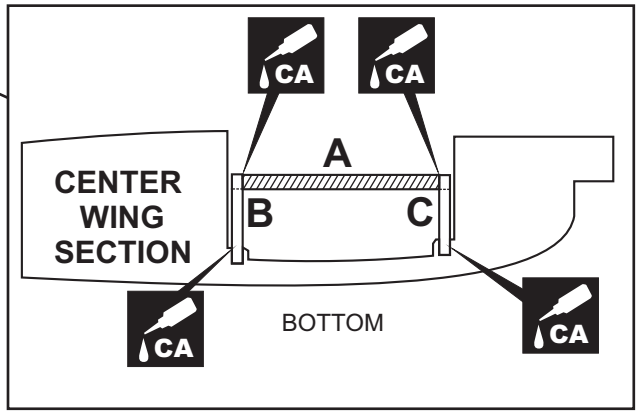


IMPORTANT: Please do not clean off the excess epoxy on the wing with strong solvent or pure alcohol, only use kerosene to keep the colour of your model not fade.

2- Retract Servo mount / Servoaufnahmen

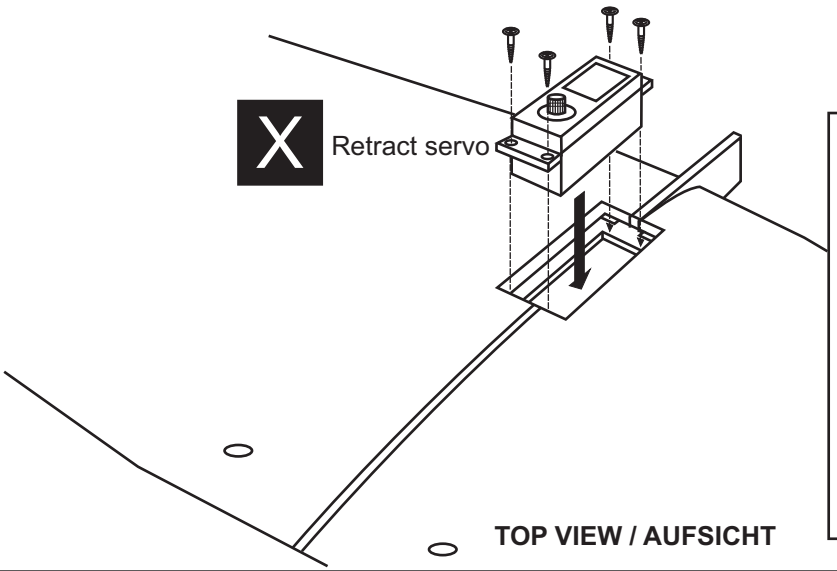


TOP VIEW / AUFSICHT

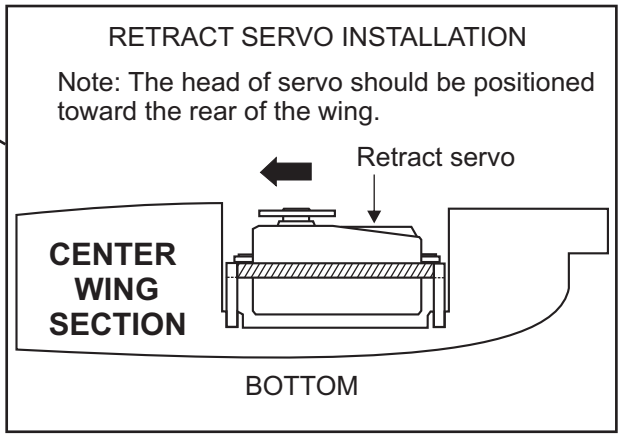


3- Retract servo / Einziehfahrwerk servo

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



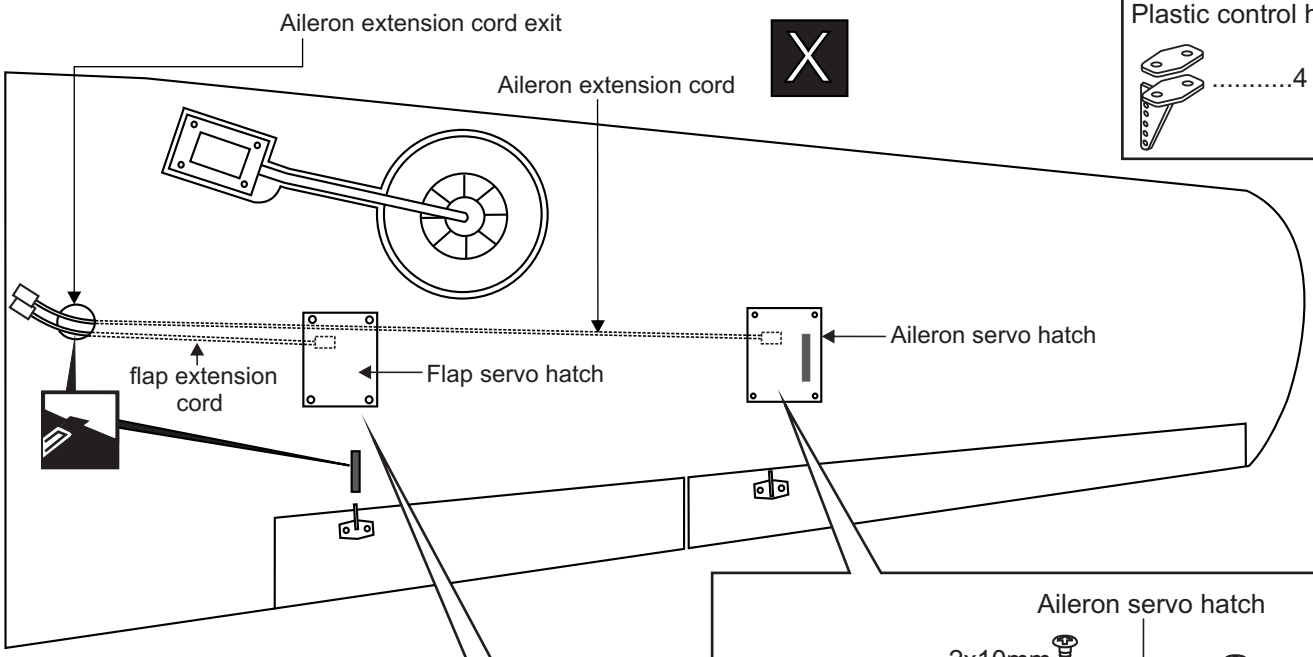
TOP VIEW / AUFSICHT

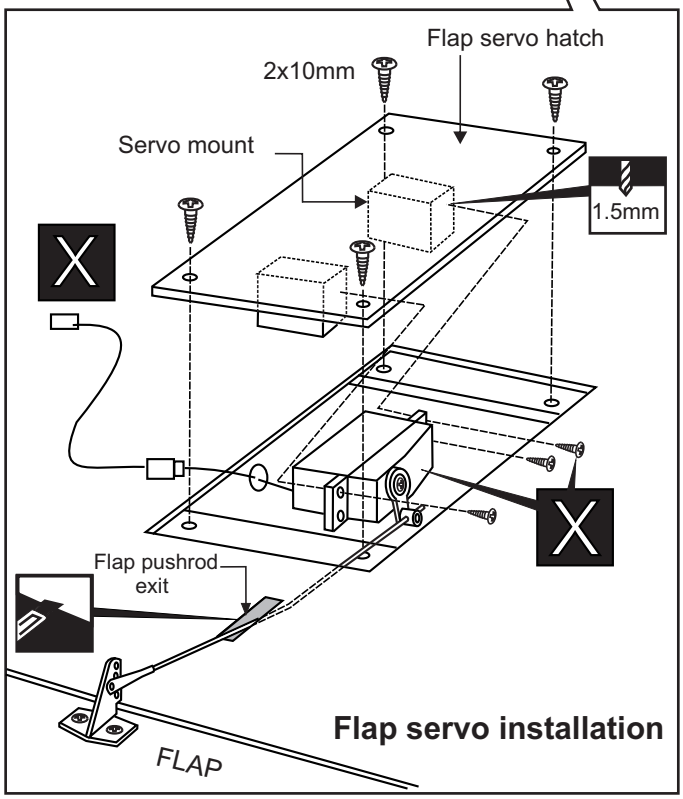


4- Flap, Aileron servo / Flap, querruder servo

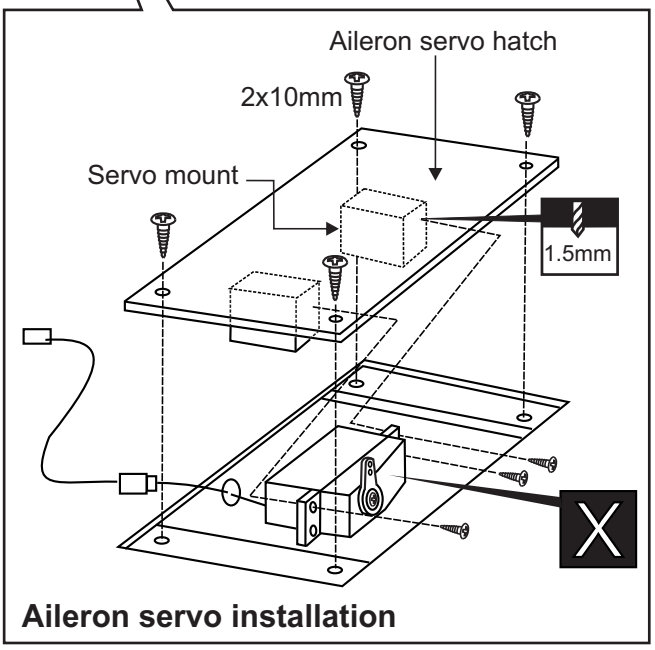
WING - BOTTOM VIEW
UNTERSICHT

Connector 2mm 4
Plastic control horn .....4 set

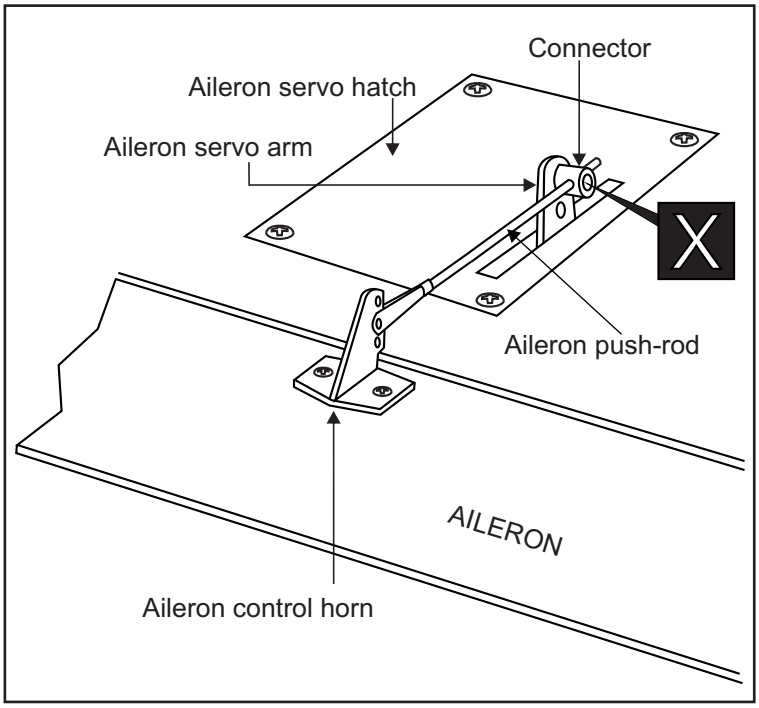




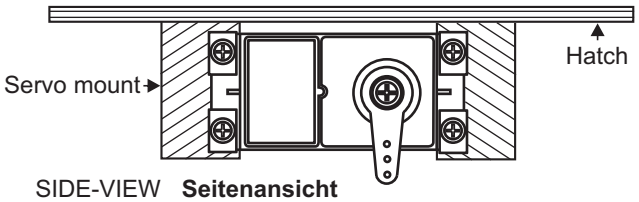
Flap servo installation



Aileron servo installation



Installing the flap servo on to the hatch



Installing the aileron servo on to the hatch

5- Retract landing gear / Einziehfahrwerk

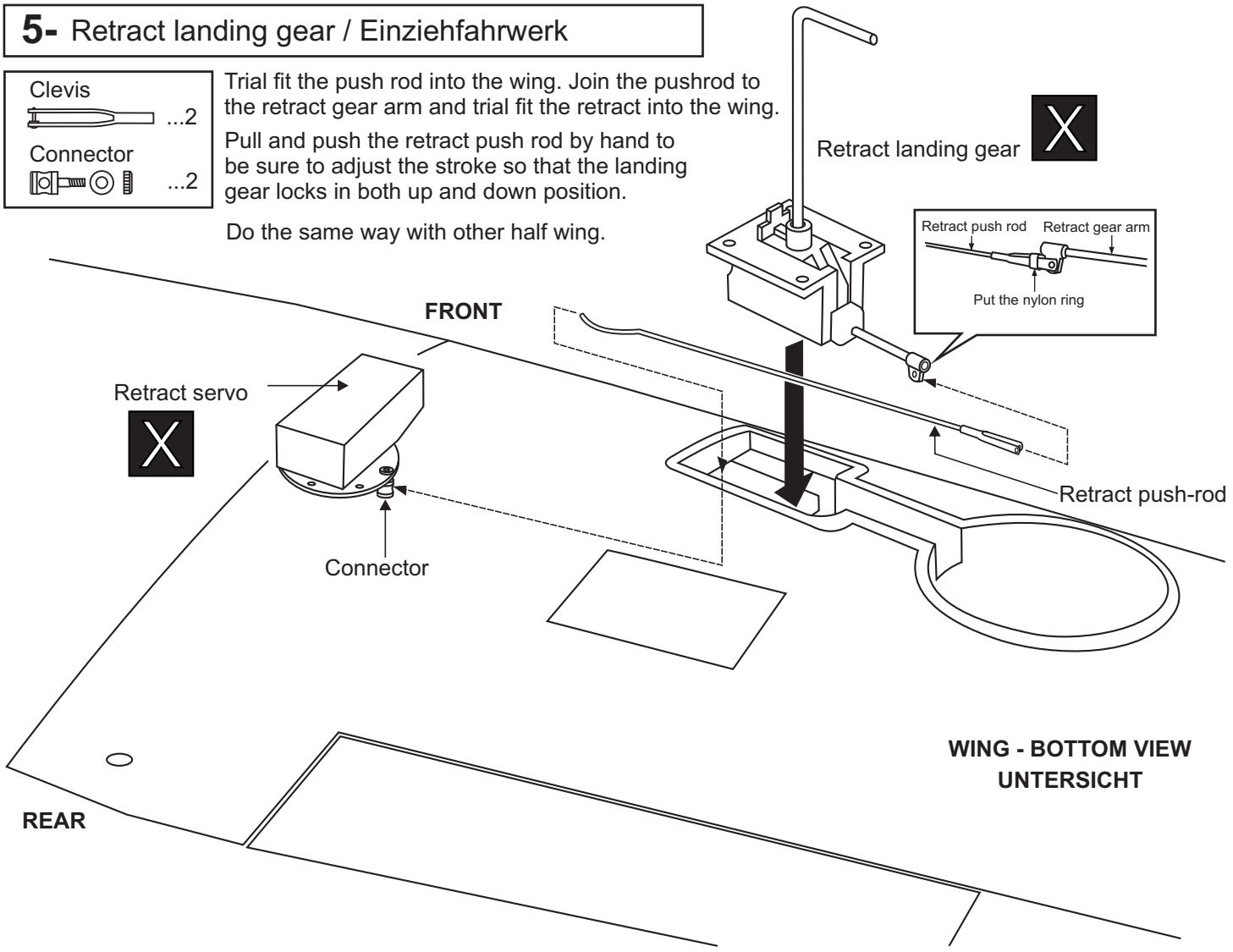
Clevis ...2

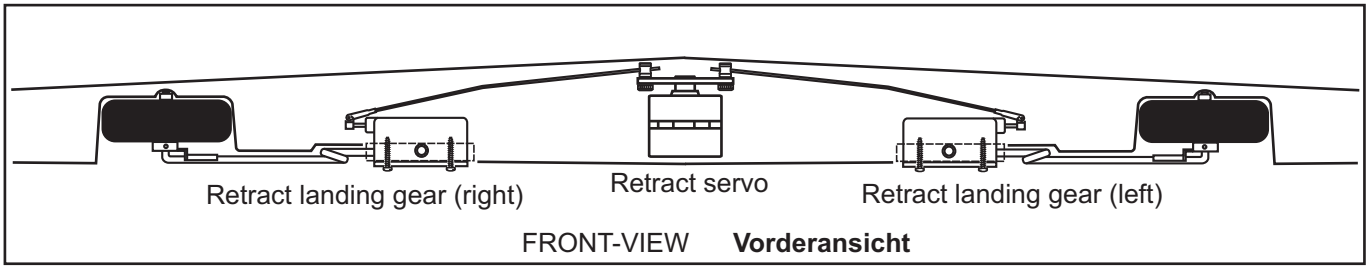
Connector ...2

Trial fit the push rod into the wing. Join the pushrod to the retract gear arm and trial fit the retract into the wing.

Pull and push the retract push rod by hand to be sure to adjust the stroke so that the landing gear locks in both up and down position.

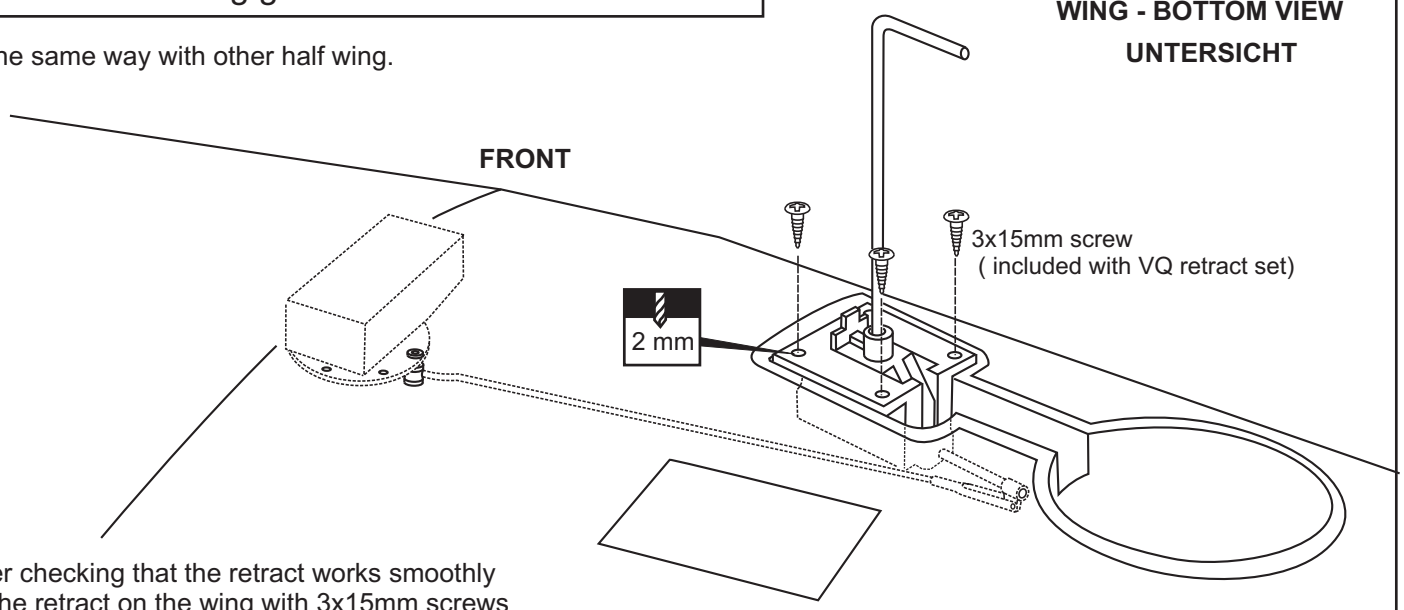
Do the same way with other half wing.





6- Retract landing gear / Einziehfahrwerk

Do the same way with other half wing.

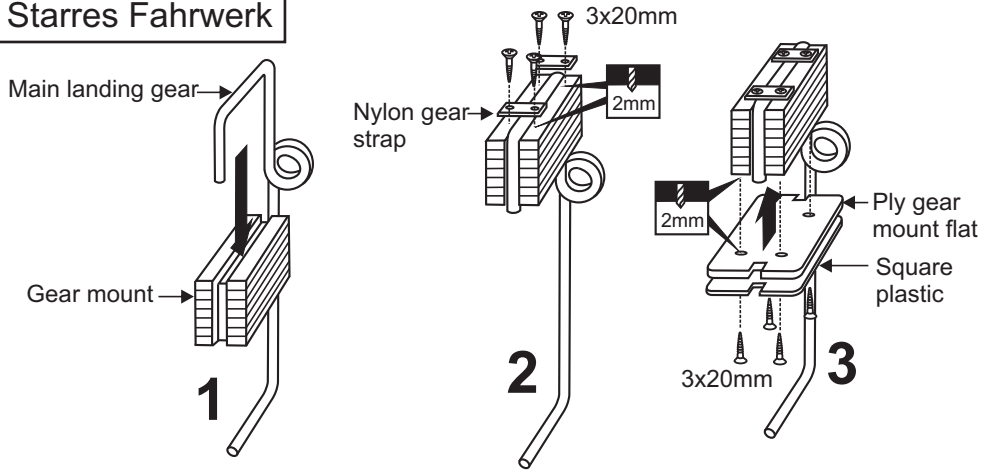


After checking that the retract works smoothly fix the retract on the wing with 3x15mm screws (included with VQ retract set)

Bottom view /Ansicht von unten

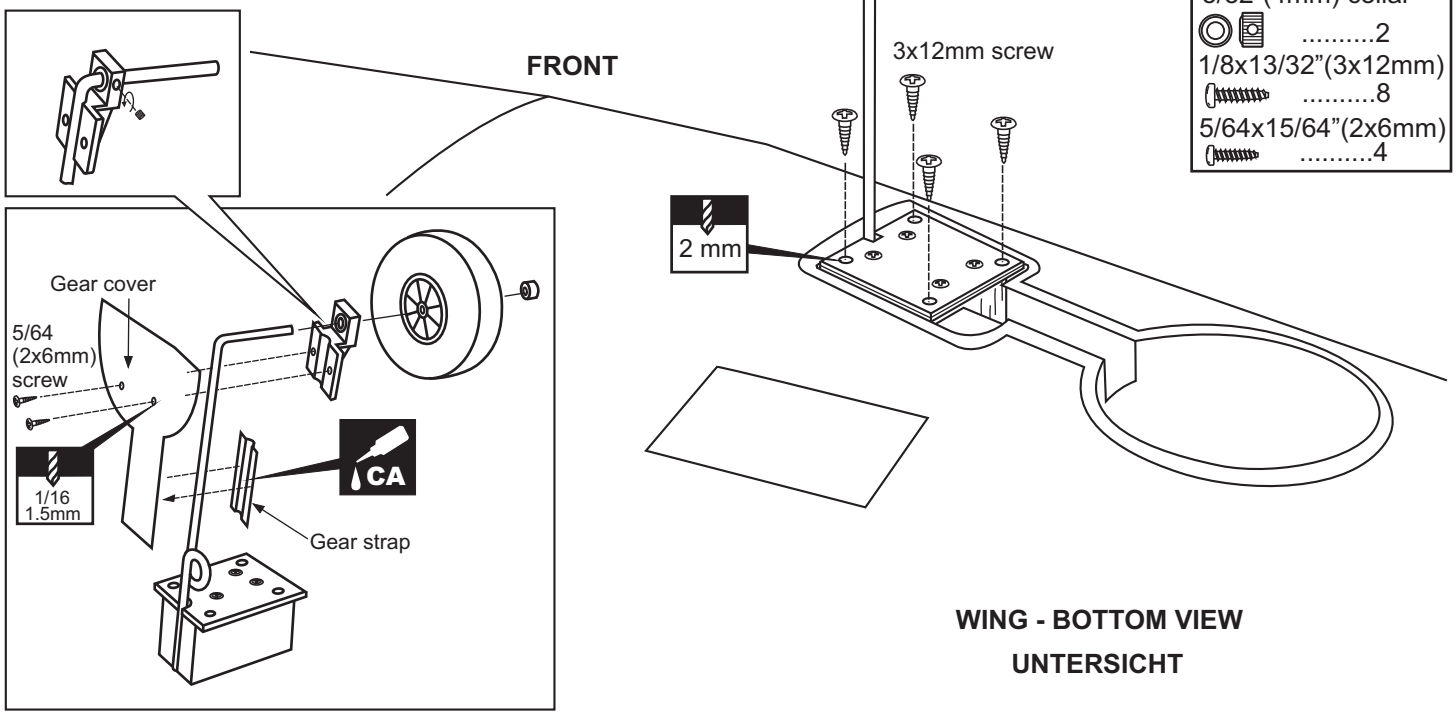
7- Fixed gear / Starres Fahrwerk

3x20mm screw 8
3x20mm screw 16
Nylon gear strap 4



8- Fixed gear / Starres Fahrwerk

Do the same way with other half wing.



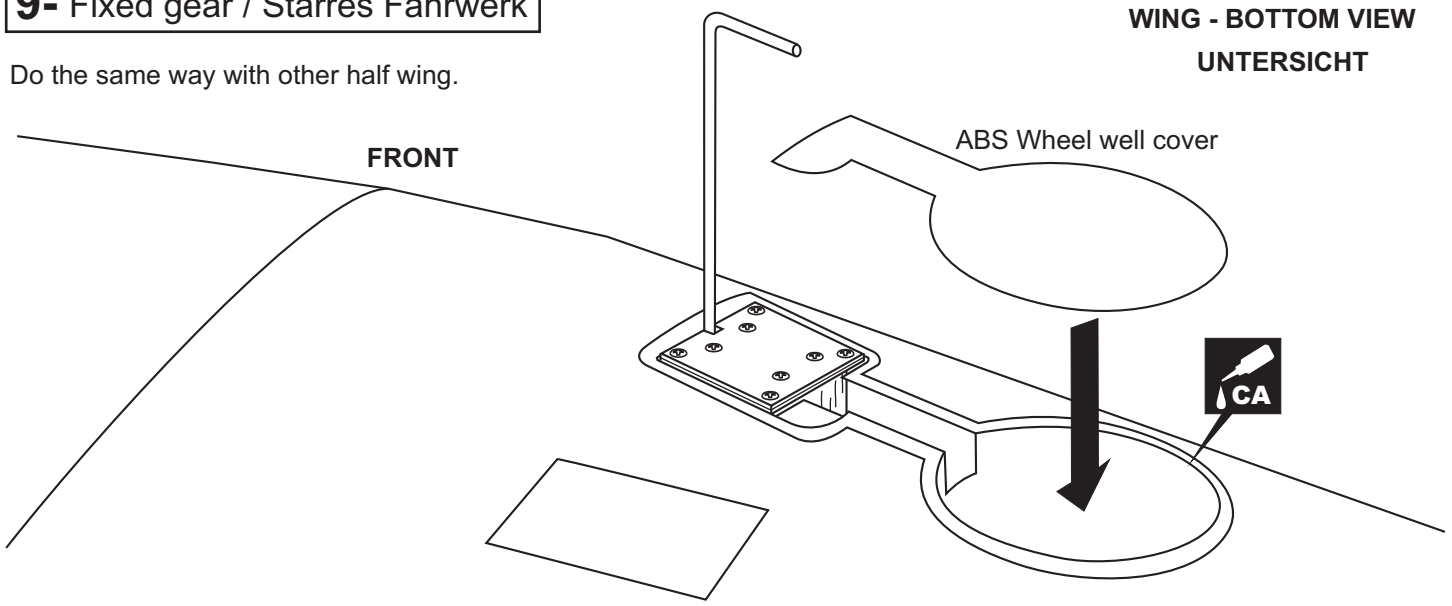
.....2
5/32"(4mm) collar
.....2
1/8x13/32"(3x12mm)
.....8
5/64x15/64"(2x6mm)
.....4

WING - BOTTOM VIEW
UNTERSICHT

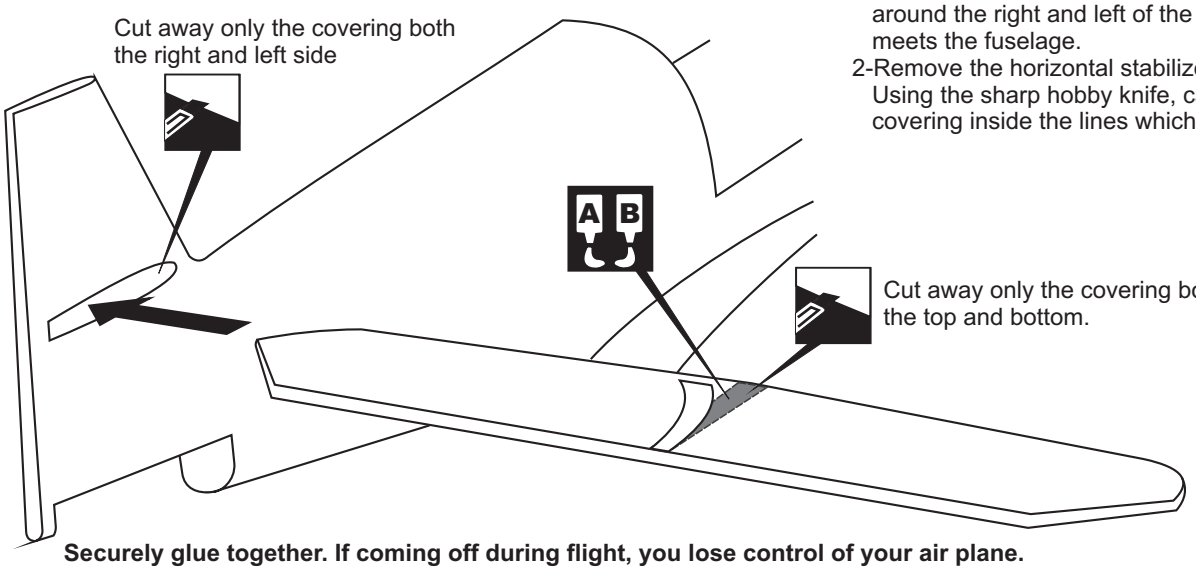
9- Fixed gear / Starres Fahrwerk

Do the same way with other half wing.

WING - BOTTOM VIEW
UNTERSICHT



10- Horizontal Stabilizer / Höhenleitwerk

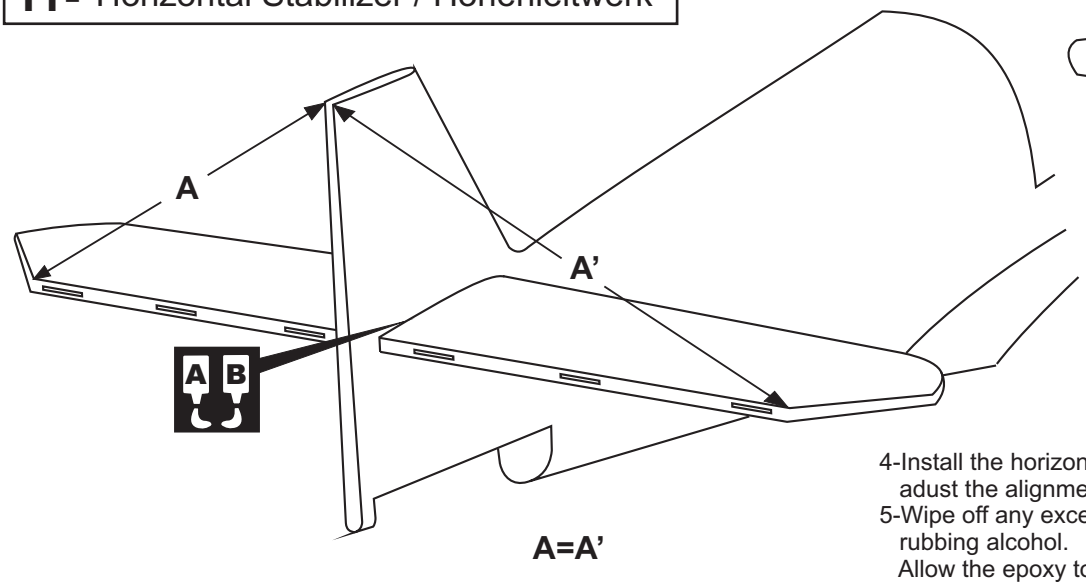


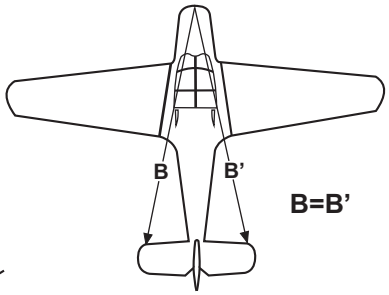
1-Trial fit the horizontal stabilizer in place . Check the alignment of the horizontal stabilizer. When you are satisfied with the alignment, use a pencil to trace around the right and left of the stabilizer where it meets the fuselage.

2-Remove the horizontal stabilizer from the fuselage. Using the sharp hobby knife, carefully cut away the covering inside the lines which were marked above.

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

11- Horizontal Stabilizer / Höhenleitwerk





3-Spread epoxy (30 min.) Onto the right and left and bottom of the horizontal stabilizer along the area where the covering was removed and to the fuselage where the horizontal stabilizer mounts.

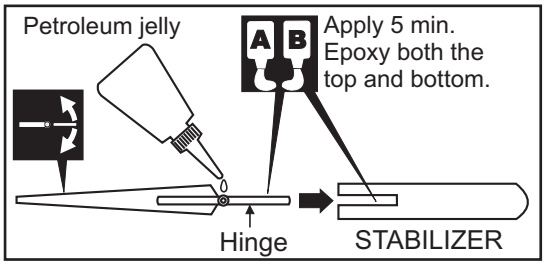
4-Install the horizontal stabilizer into the fuselage and adust the alignment as described in steep 1.

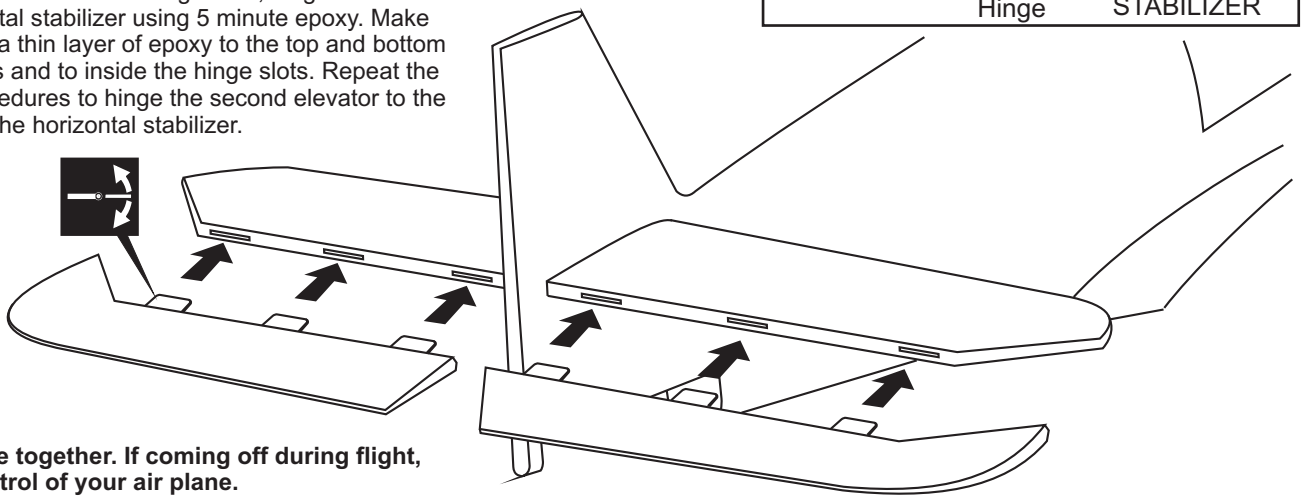
5-Wipe off any excess epoxy using a paper towel and rubbing alcohol.
Allow the epoxy to cure before proceeding to next step.

12- Elevator / Höhenruder

Apply a thin layer of machine oil or petroleum jelly to only the pivot point of the hinges on the elevator, then 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.

When satisfied with the and alignment, hinge the elevator to the horizontal stabilizer using 5 minute epoxy. Make sure to apply a thin layer of epoxy 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.

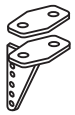




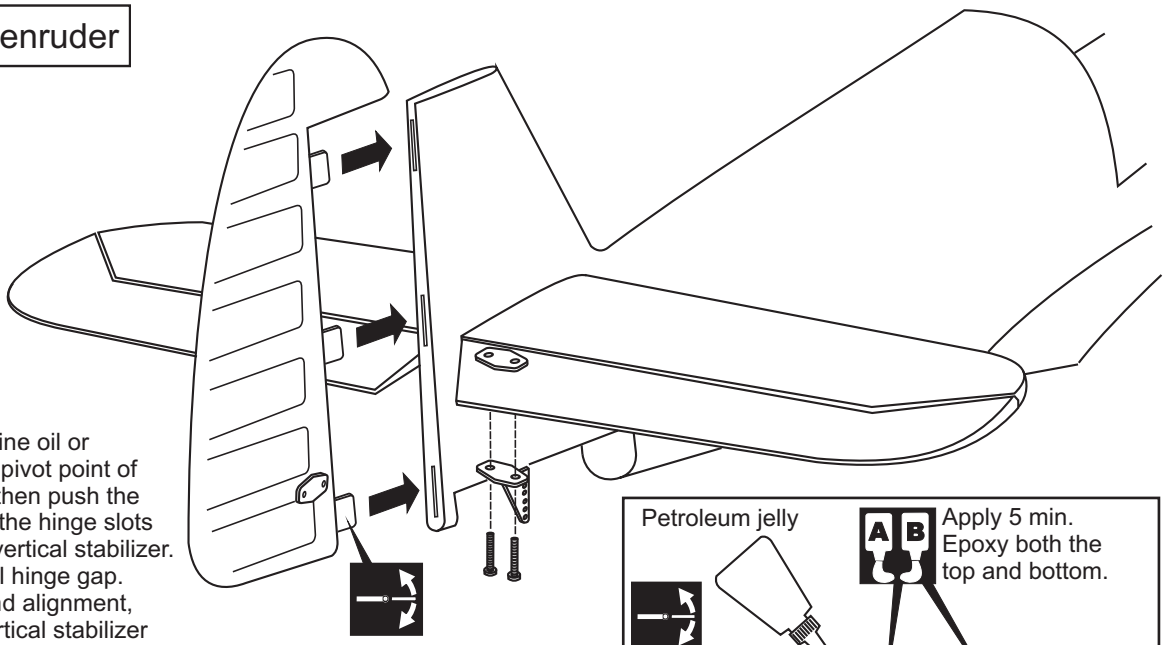
Securely glue together. If coming off during flight, you lose control of your air plane.

13- Rudder / Seitenruder

Plastic control horn

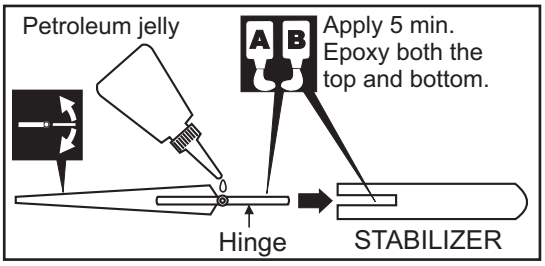


.....3 set



Apply a thin layer of machine oil or petroleum jelly to only the pivot point of the hinges on the rudder, then push the rudder and its hinges into the hinge slots in the trailing edge of the vertical stabilizer. There should be a minimal hinge gap. When satisfied with the and alignment, hinge the rudder to the vertical stabilizer using 5 minute epoxy. Make sure to apply a thin layer of epoxy to the right and left of both hinges and to inside the hinge slots.

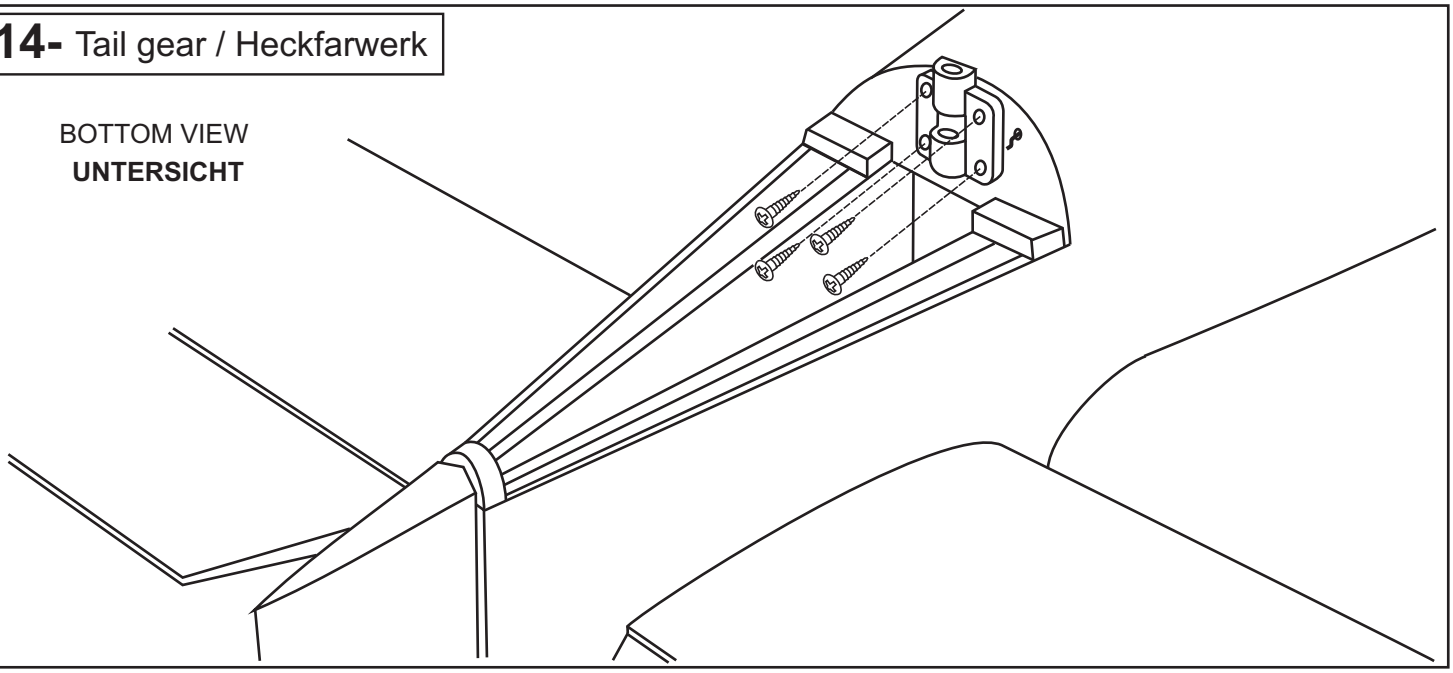
Securely glue together. If coming off during flight, you lose control of your air plane.



14- Tail gear / Heckfarwerk

BOTTOM VIEW

UNTERSICHT



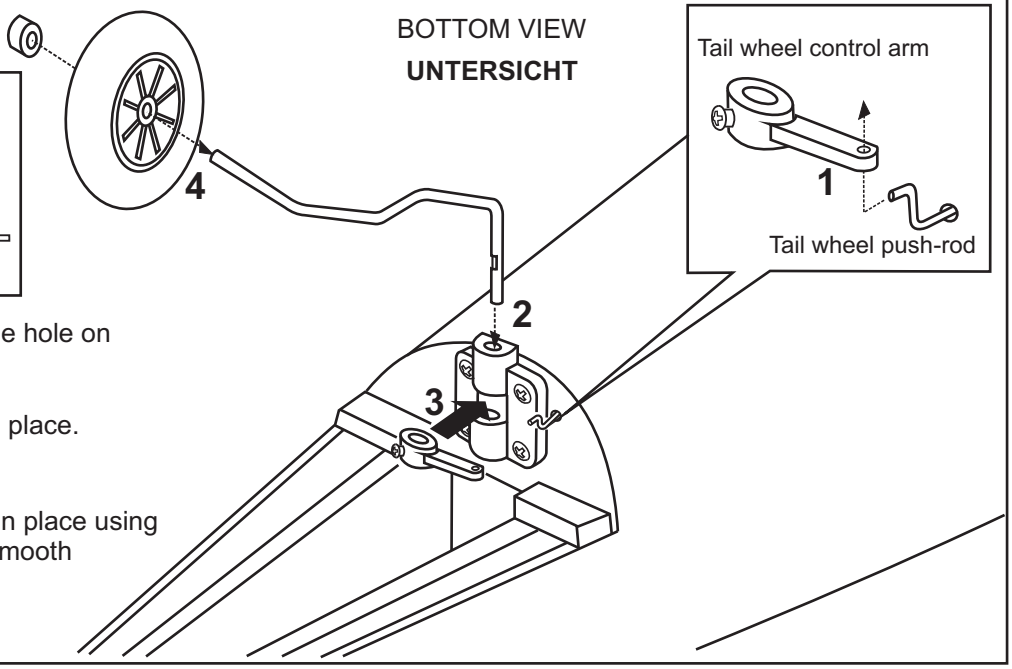
15- Tail gear / Heckfarwerk

2x3mm screw 1

2mm I.D collar 1

Tail wheel control-horn 1

Tail landing gear 1



1- Insert the tail wheel pushrod into the hole on the tail gear control horn (as show).

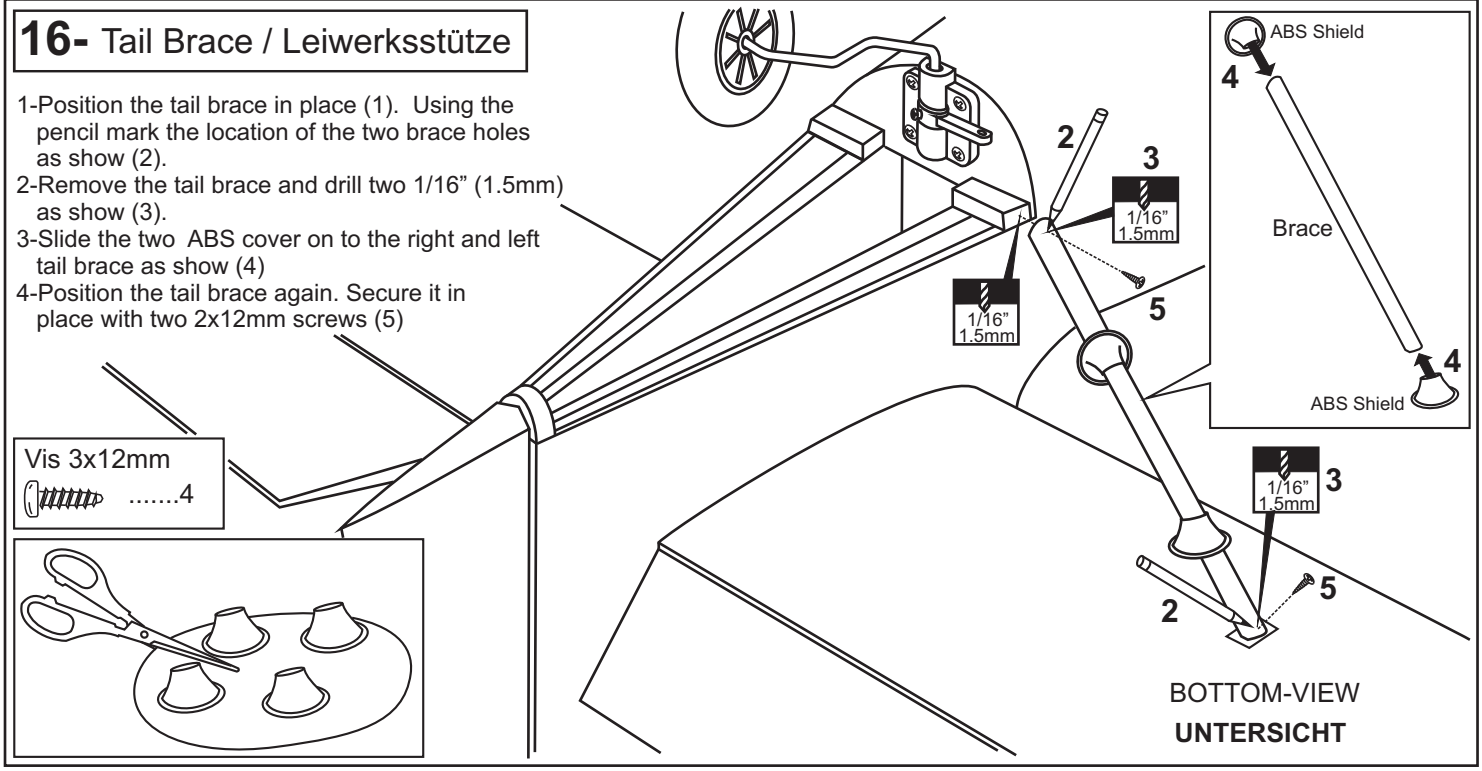
2- Install the tail wheel control horn in place.

3- Instal the tail wheel gear in place.

4- Secure the tail wheel control horn in place using a 5/64”(2mm) screw set, Ensure smooth non-binding movement.

16- Tail Brace / Leiwerksstütze

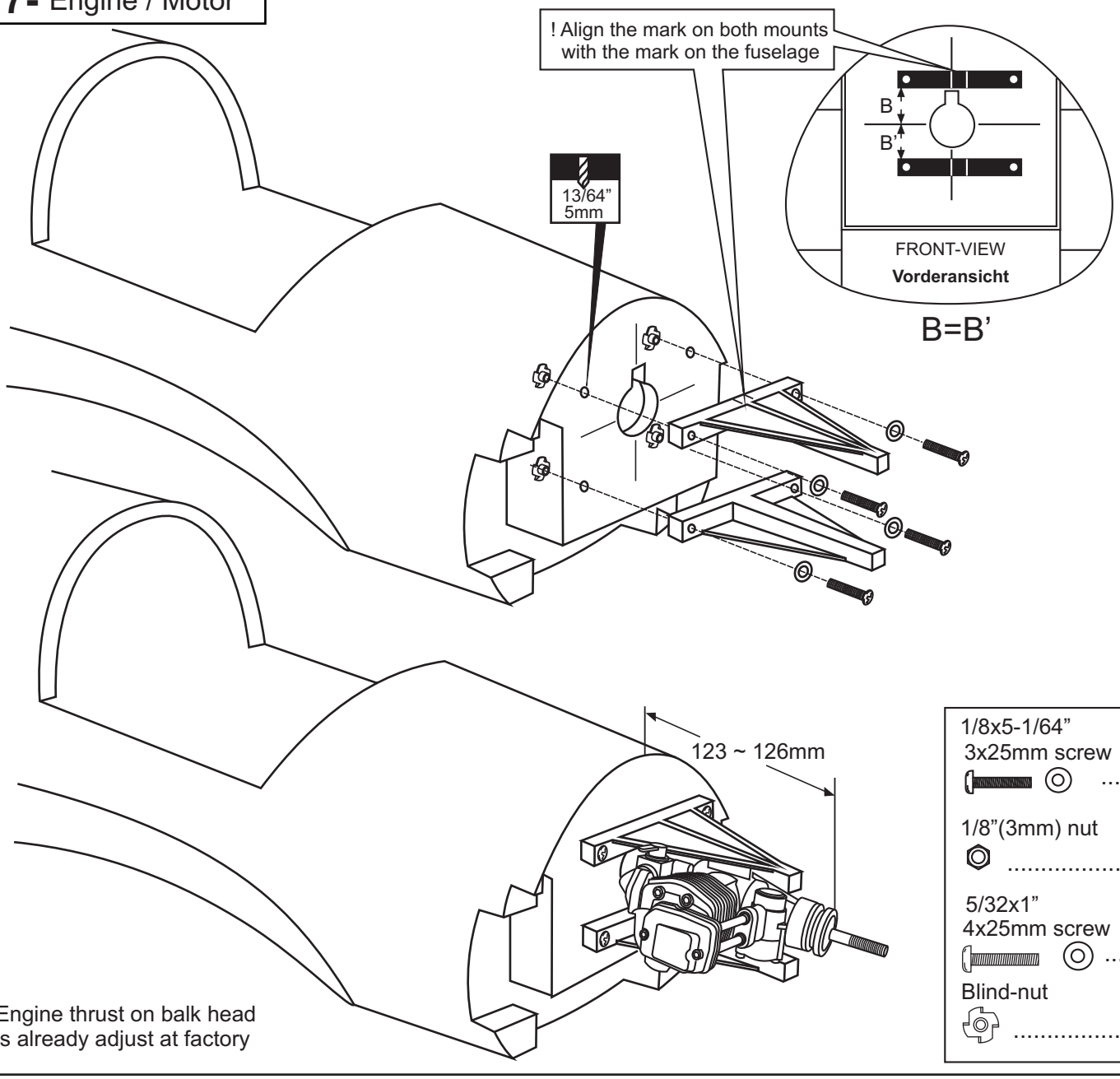
1-Position the tail brace in place (1). Using the pencil mark the location of the two brace holes as show (2).
2-Remove the tail brace and drill two 1/16" (1.5mm) as show (3).
3-Slide the two ABS cover on to the right and left tail brace as show (4)
4-Position the tail brace again. Secure it in place with two 2x12mm screws (5)



Vis 3x12mm 4

BOTTOM-VIEW
UNTERSICHT

17- Engine / Motor



1/8x5-1/64" 3x25mm screw ...4

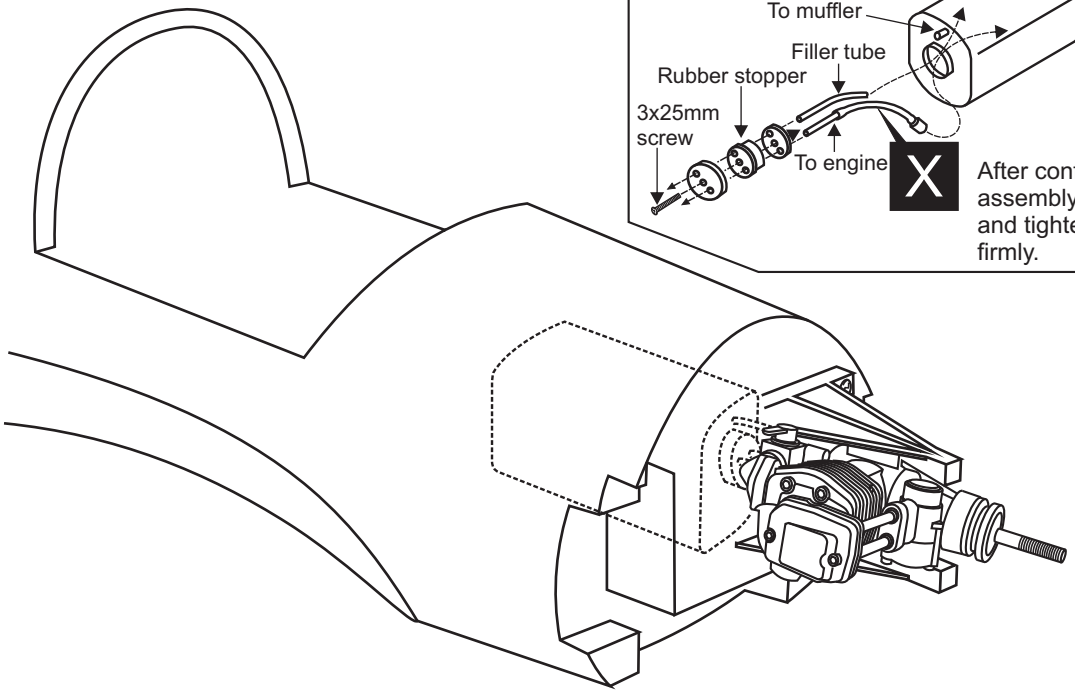
1/8"(3mm) nut 4

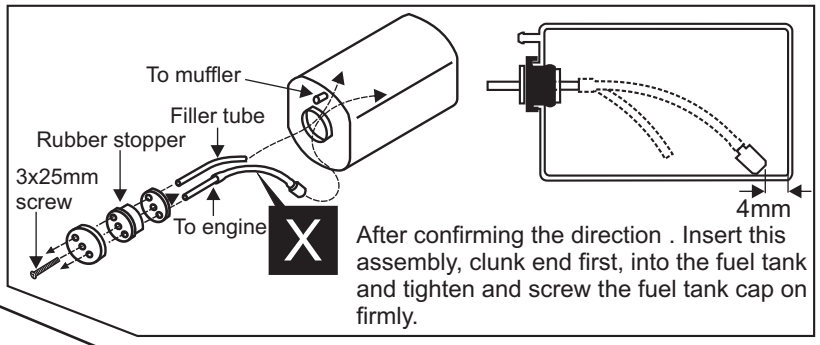
5/32x1" 4x25mm screw ...4

Blind-nut 4

! Engine thrust on balk head is already adjust at factory

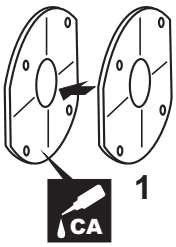
18- Fuel tank / Treibstofftank

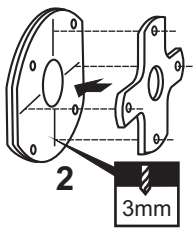




After confirming the direction . Insert this assembly, clunk end first, into the fuel tank and tighten and screw the fuel tank cap on firmly.

19- Brushless Motor

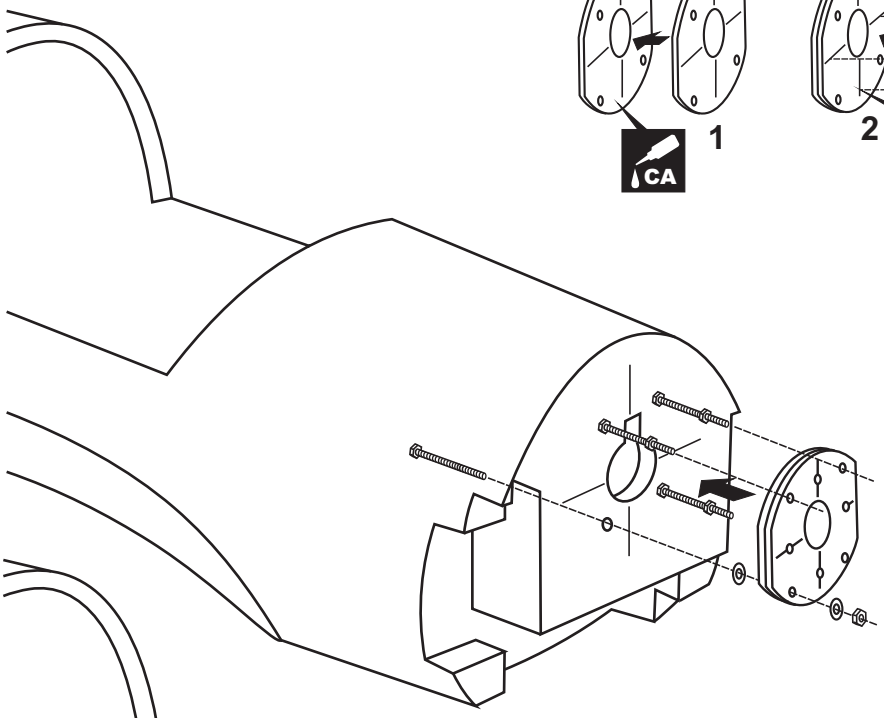


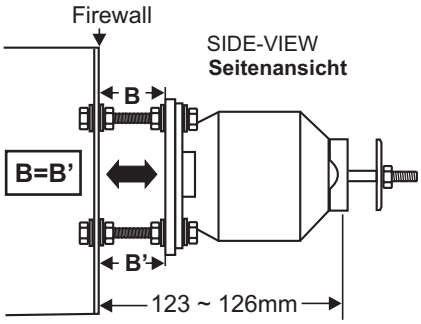


Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (2).

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

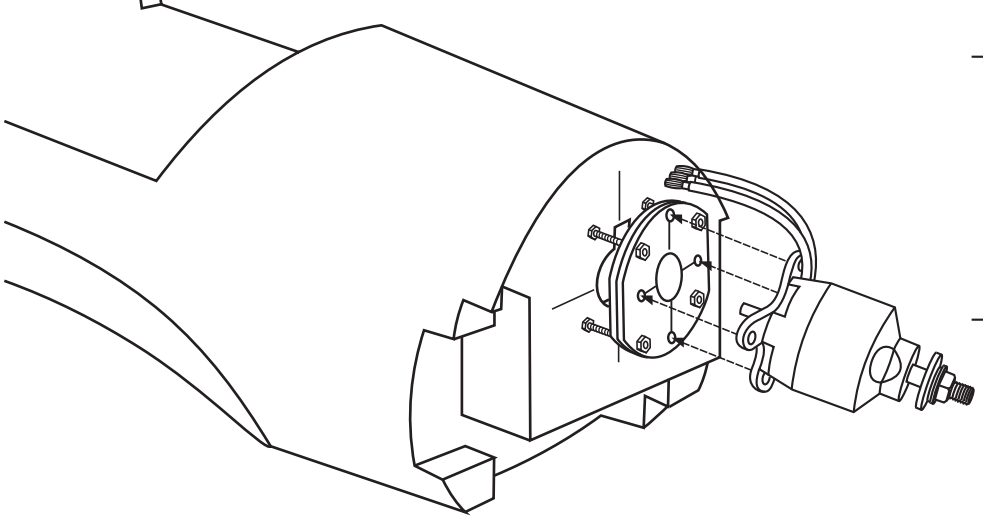
Note: The aluminum motor mounting included with electric motor set.

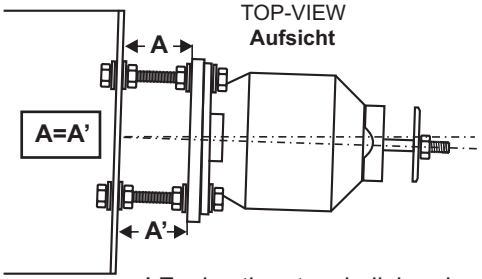




! Engine thrust on balk head is already adjust at factory

Sturz und Zug beachten!

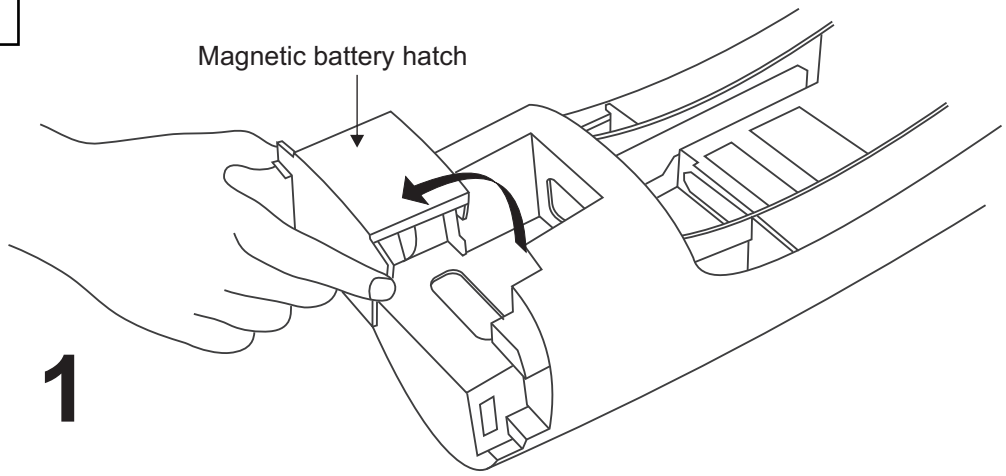




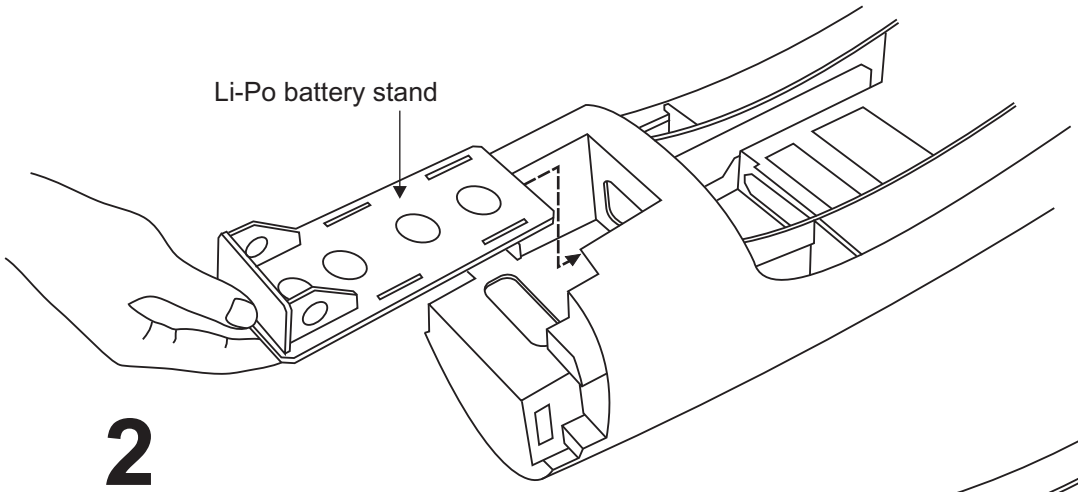
! Engine thrust on balk head is already adjust at factory

Sturz und Zug beachten!

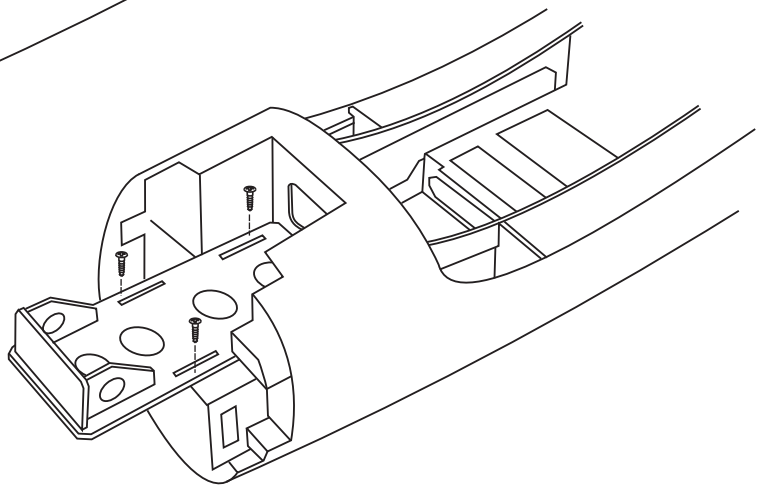
20- Li-Po battery stand



1

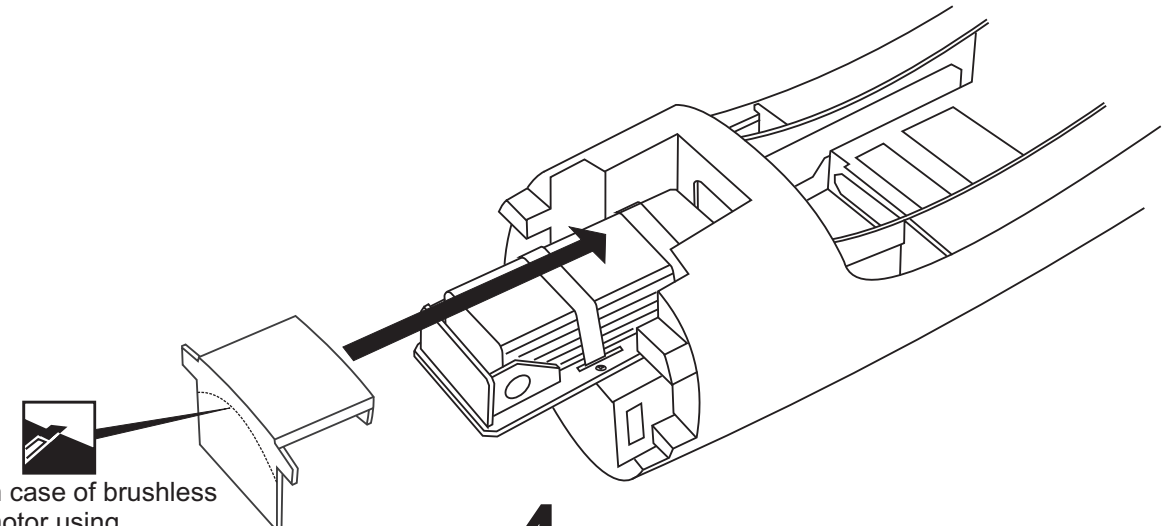


2



Secure the Li-Po battery stand using four 2x10mm screws

3

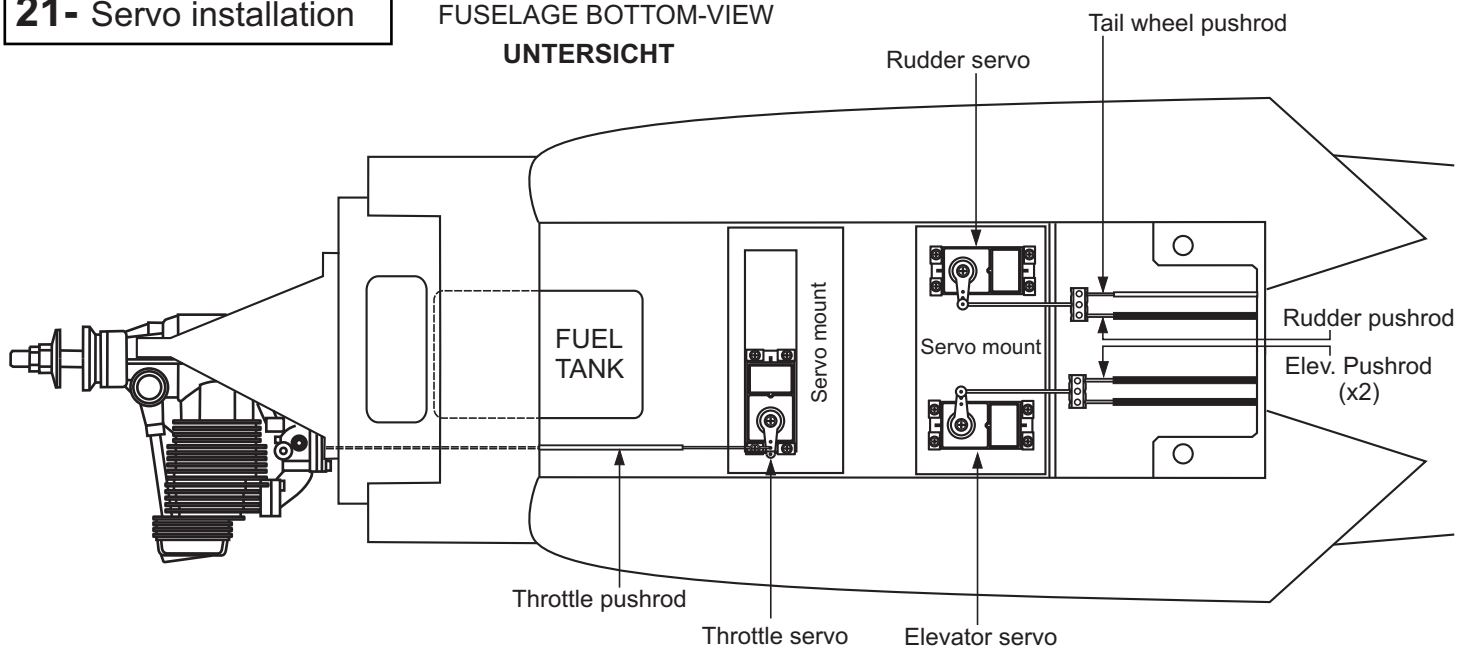


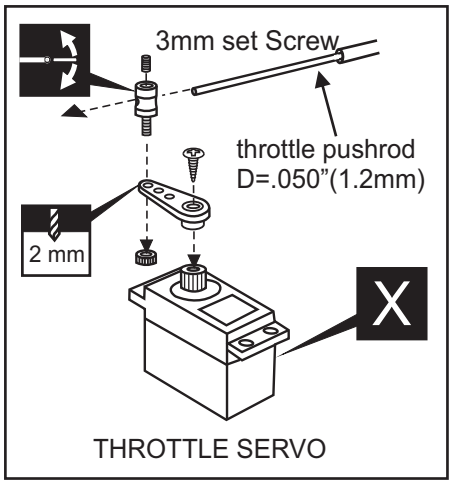
In case of brushless motor using.

4

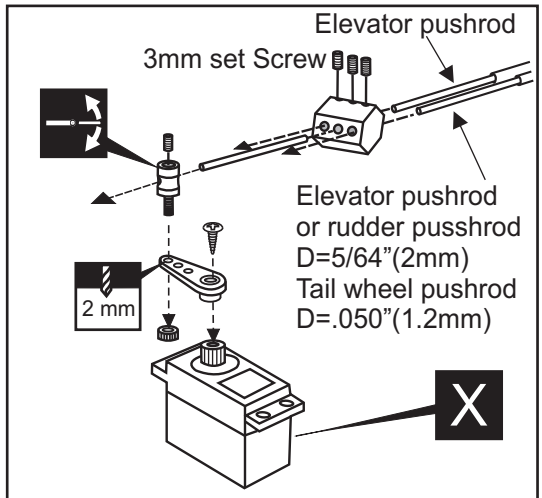
21- Servo installation

FUSELAGE BOTTOM-VIEW
UNTERSICHT





THROTTLE SERVO



ELEVATOR / RUDDER SERVO

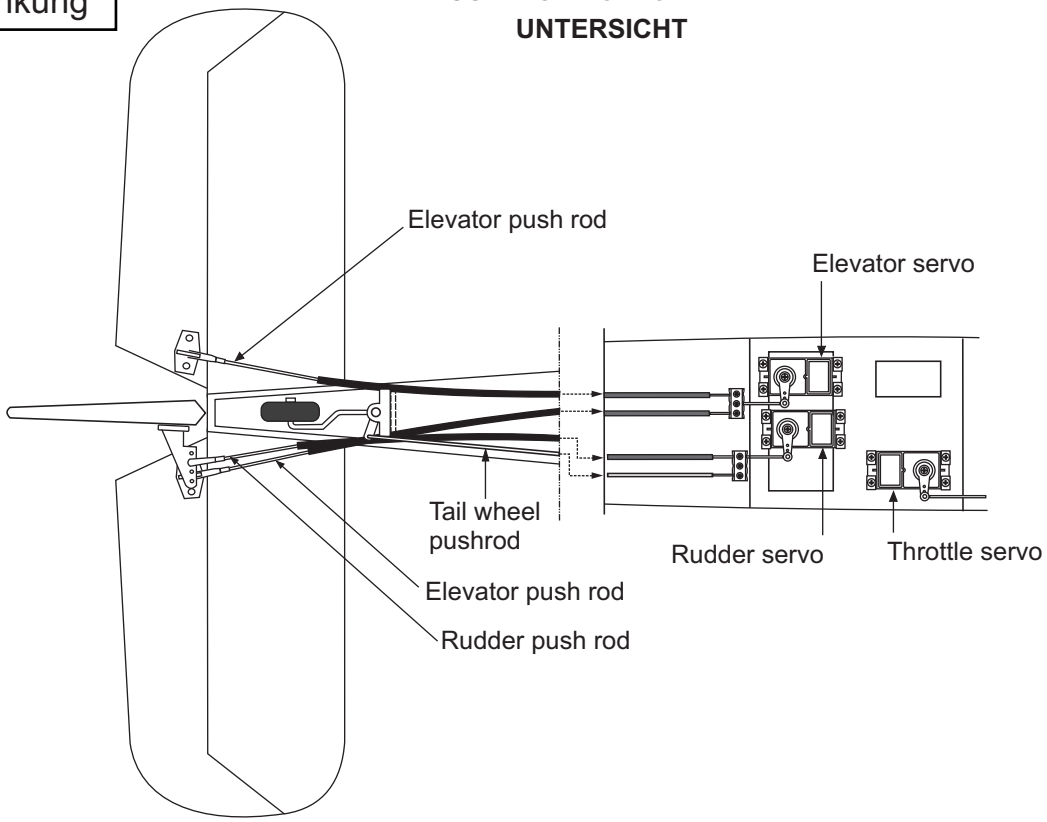
Connector

.....2

2mm.....3

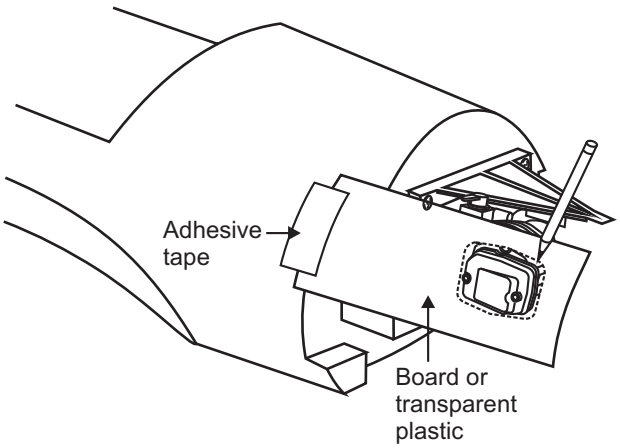
22- Linkages / Alenkung

FUSELAGE BOTTOM-VIEW
UNTERSICHT



23- Cowling / Motorhaube

3/32x25/64” self tapping screw
2.5x10mm
.....5



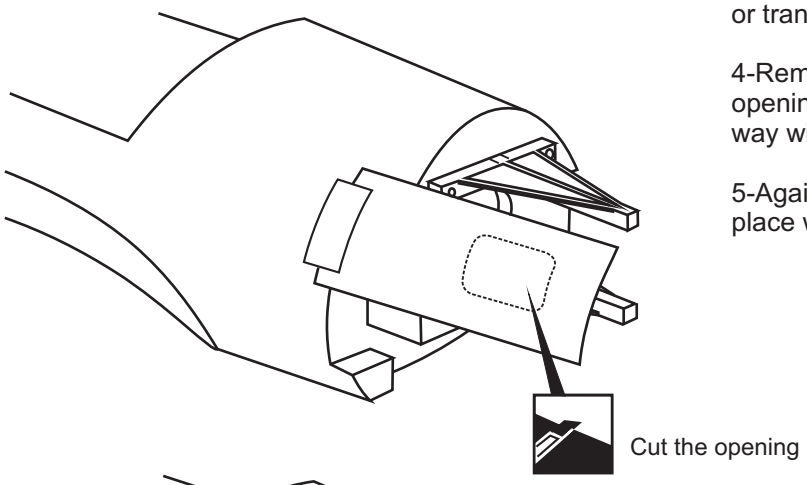
1-Attach the board or transparent plastic on the side of the fuselage with the adhesive tape as show.

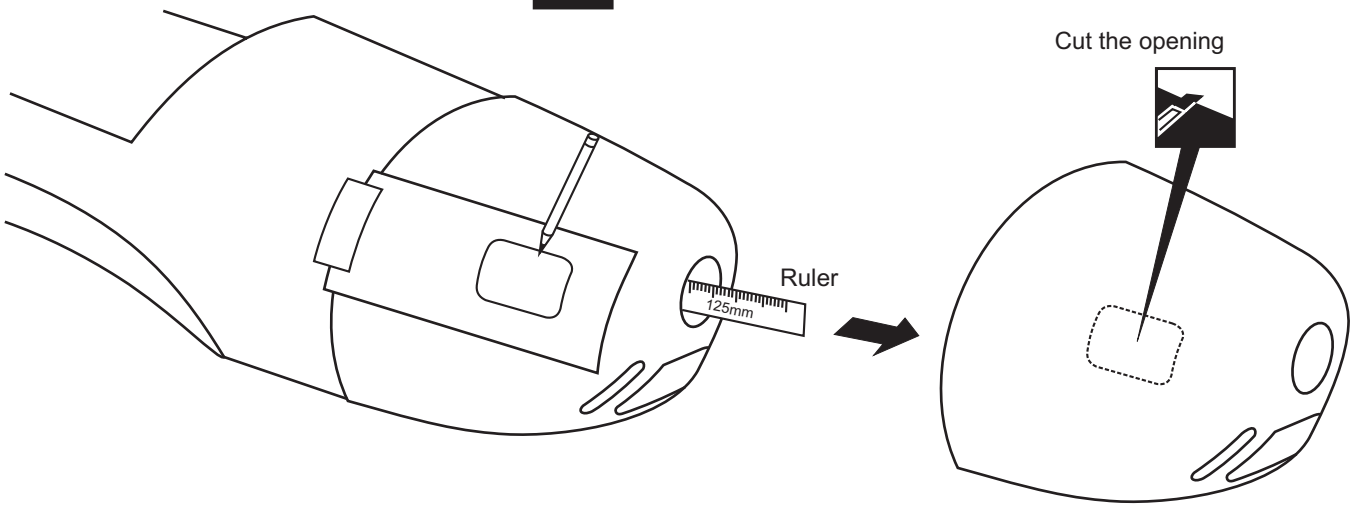
2-Using a pencil or felt tipped pen trace around the engine head where it meet the cowl. Cut the opening the board or transparent plastic for the engine head as marked before.

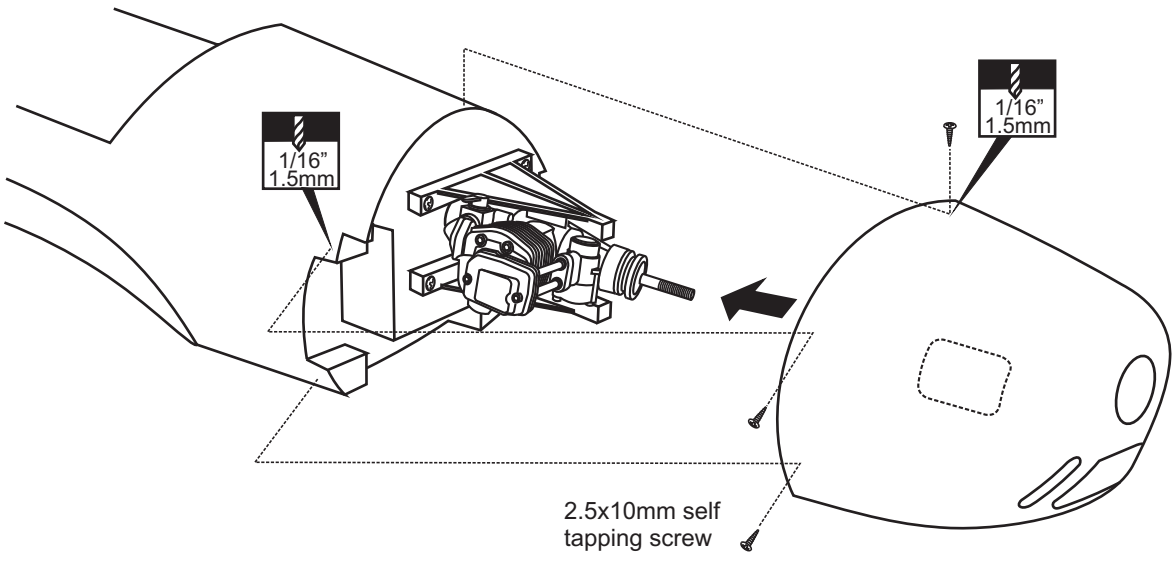
3-Remove the engine and insert the cowl on to the fuselage so the distance from the fire wall to the front of the cowl is 123 ~ 126mm. Trace around inside the hole on the board or transparent plastic with a pencil.

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.

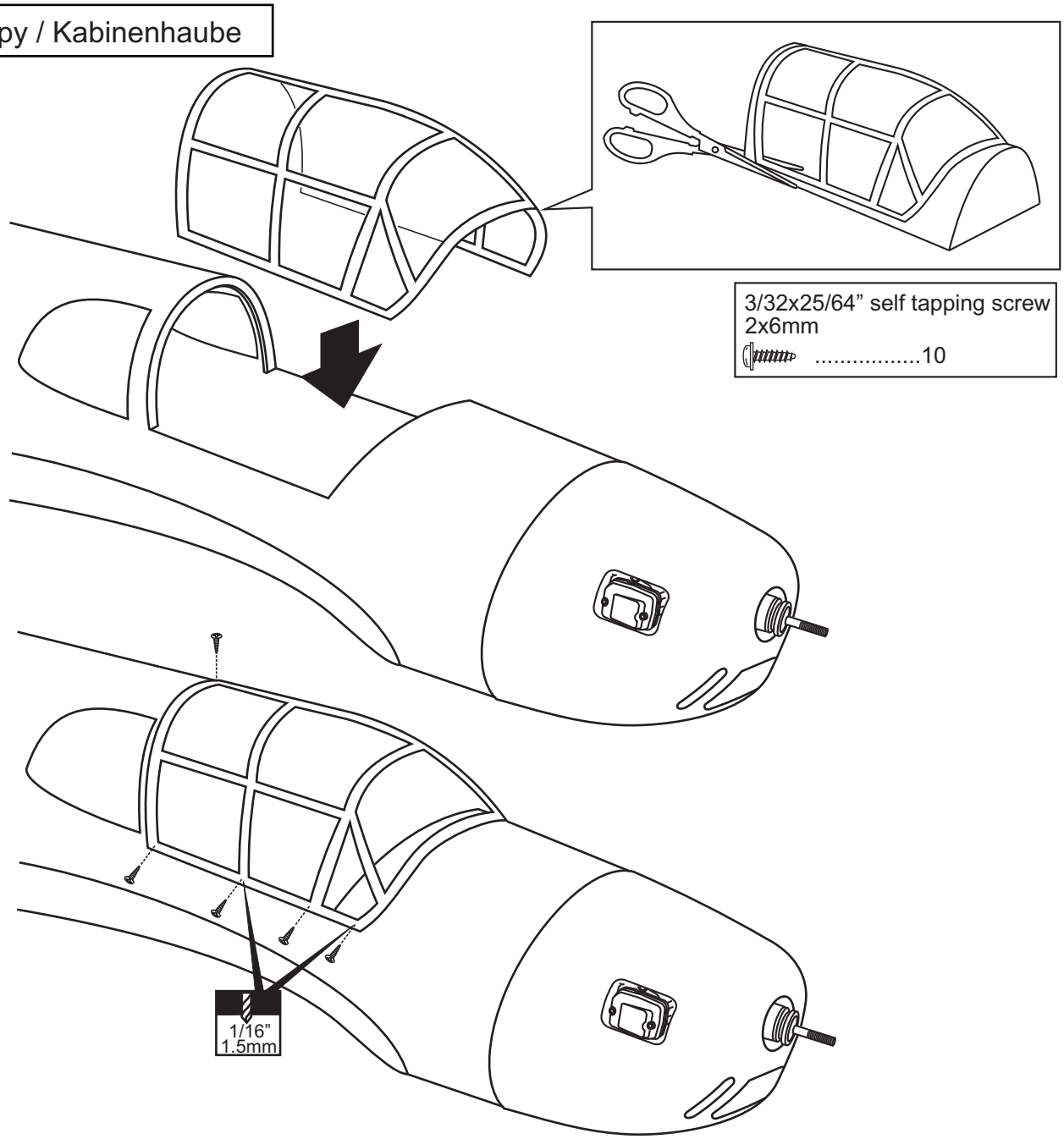
5-Again. Insert the cowl on to the fuselage and secure it in place with five 2.5x10mm self tapping screws.





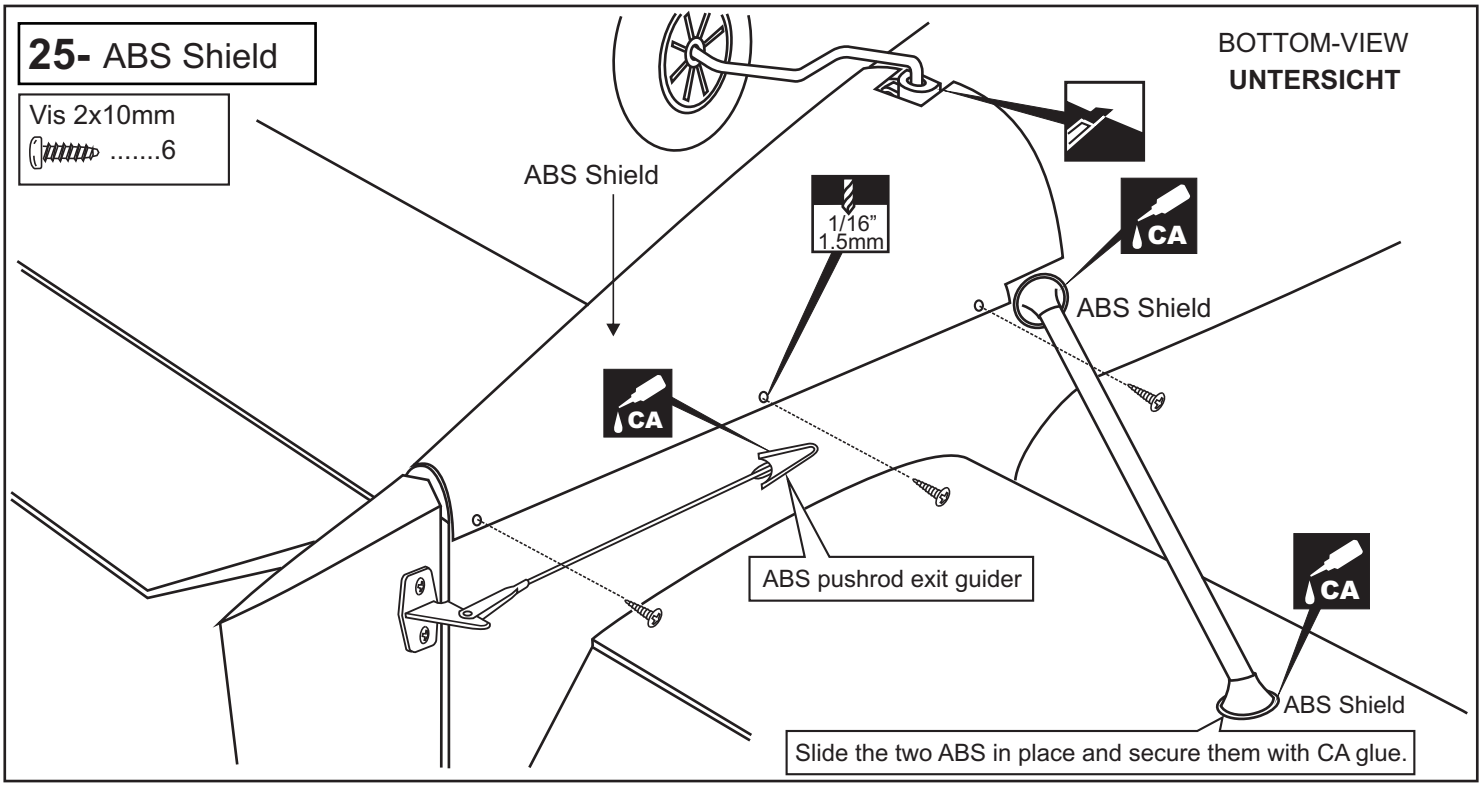


24- Canopy / Kabinenhaube

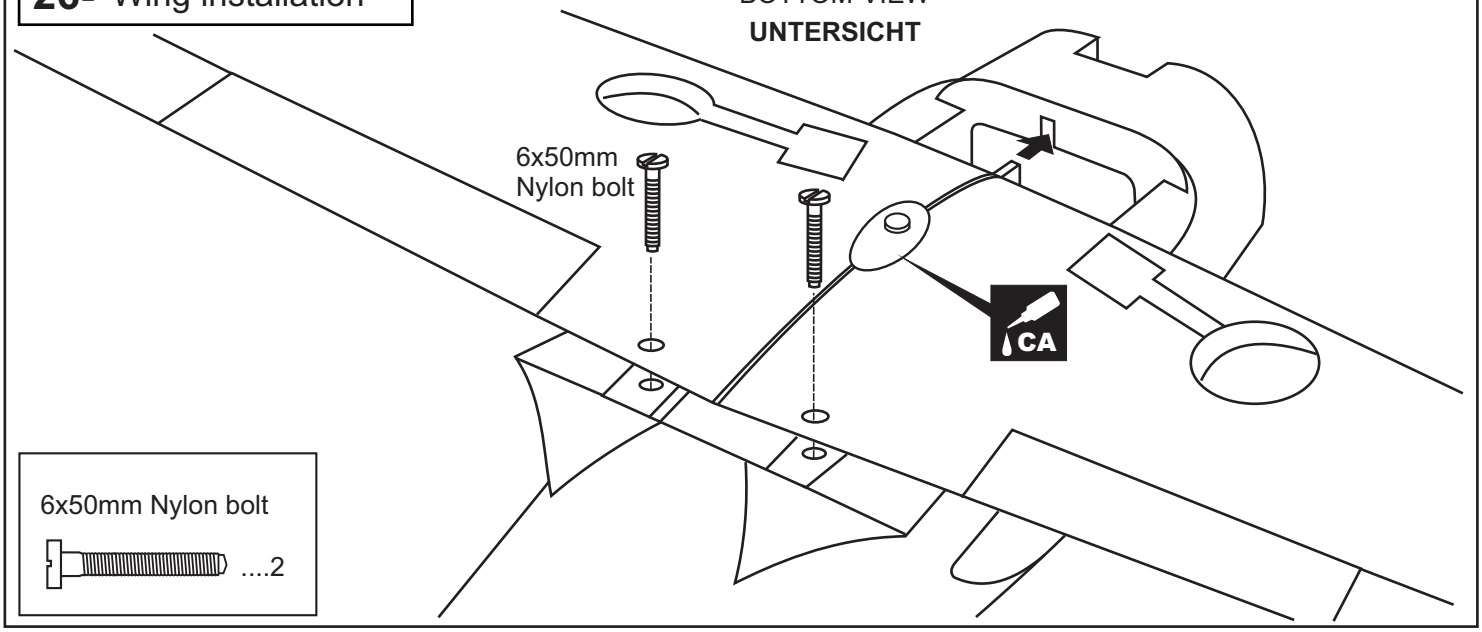


25- ABS Shield

Vis 2x10mm
.....6



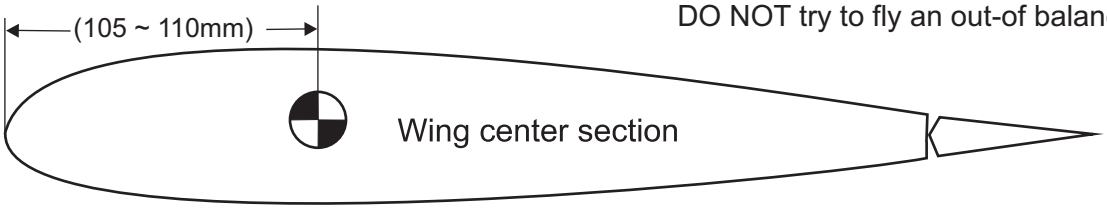
26- Wing installation



27- Balance / Schwerpunkt

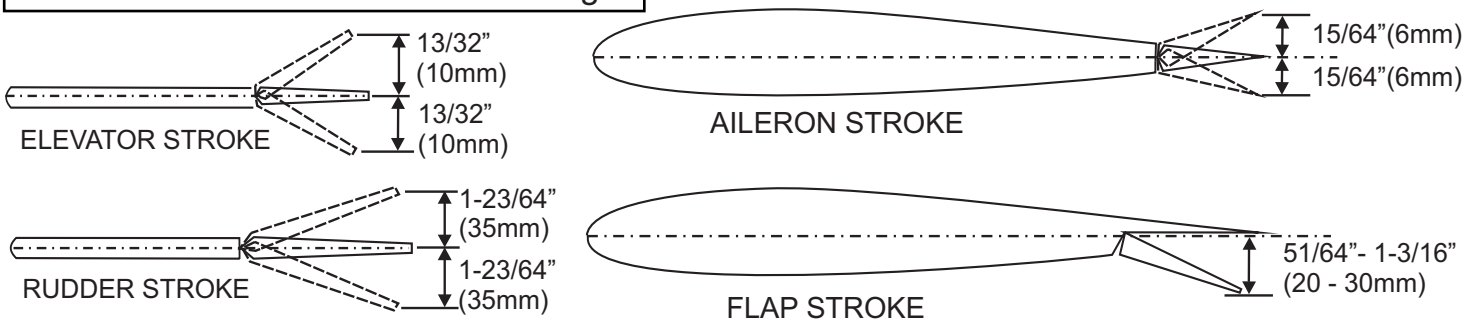
Note: Adjust the location of the battery pack to achieve this C.G location.

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



28- Control surface / Ruderausschläge

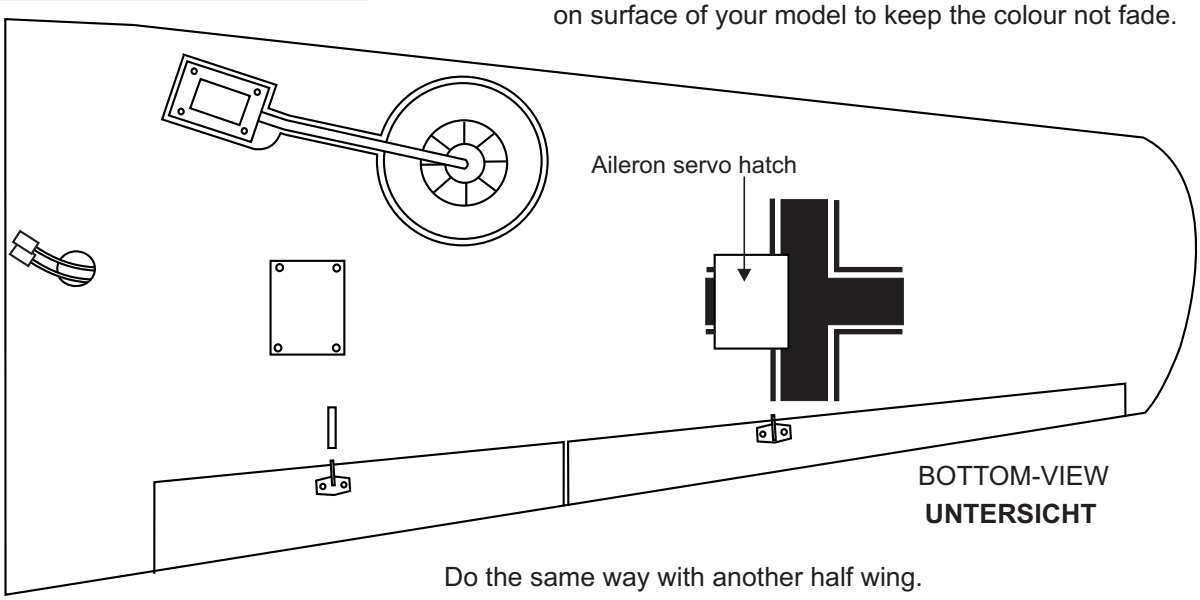
Do not try to fly an out-of balance model!

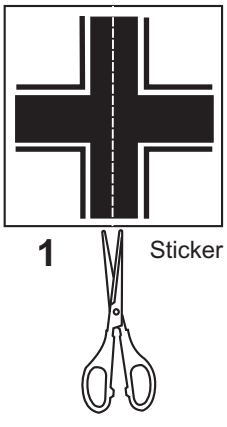


Adjust the travel of the control surfaces to achieve the values stated in the diagrams.
These value will be suitable for average flight requirements. Adjust the values to suit your particular needs.

29- Decor / Aufkleber

IMPORTANT: 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.





Do the same way with another half wing.