

60 Class

2-cycle engine

90 Class

4-cycle engine

Or Electric equivalent

CESSNA 188 AGWAGON

SEMI SCALE MODEL

INSTRUCTION MANUAL MONTAGEANLEITUNG



SPECIFICATIONS

Wingspan	1920mm
Length	1300mm
Electric Motor	1000 Watt (BOOST 90)
Glow Engine	.60 2-T / .90 4-T
Radio	6 Channel / 8 Servos

TECHNISCHE DATEN

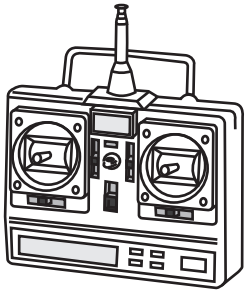
Spannweite	1920mm
Länge	1300mm
Elektroantrieb	1000 Watt (BOOST 90)
Verbrennerantrieb	10cc 2-T / 15cc 4-T
Fernsteuerung	6 Kanal / 8 Servos



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 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.

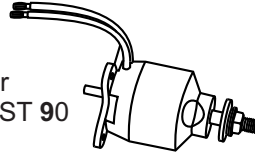
REQUIRED FOR OPERATION (Purchase separately) BENÖTIGTE KOMPONENTEN (Nicht im Lieferumfang enthalten)



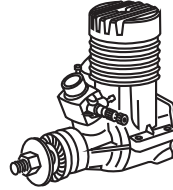
Minimum 6 channel radio
for airplane
Minimum 6 Kanal
Fernsteuerung



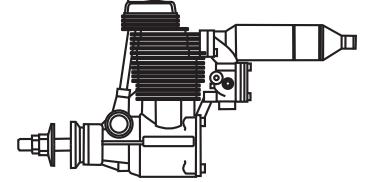
70mm Spinner



Brushless Motor
PICHLER BOOST 90
Brushless ESC
Brushless Regler



Battery / Flugakku **LEMONRC 5300-22.2V** .60 cu.in. (7.5cc)



Extension cord
Servoverlängerungskabel

.90 cu.in (8.5cc)



Cyanoacrylate Glue
Sekundenkleber

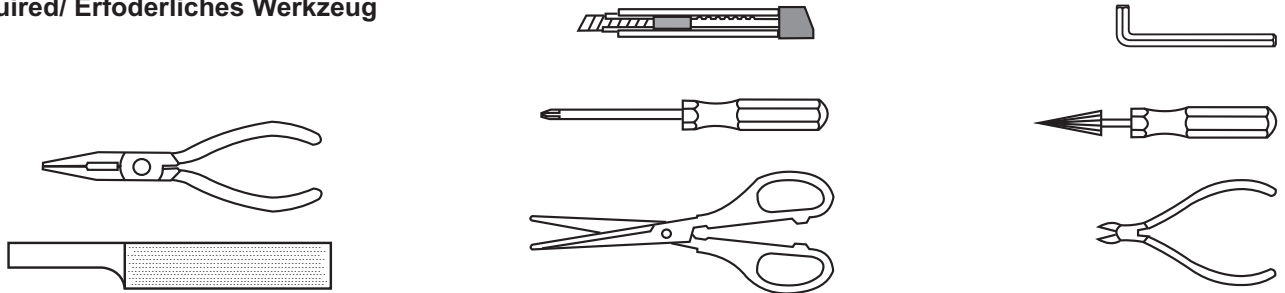


Silicon Glue
Silikonkleber



Epoxy Glue (30 minutes type)
Epoxy-Klebstoff (30min)

Tool Required/ Erforderliches Werkzeug



The pre-covered film on ARF kit may wrinkle due to variations of temperature.
Store model in a cool and dry place for awhile.
Then, starting with low heat, you may carefully use a hair dryer to smooth out wrinkles.

Die Bespannung des Modells kann durch Temperatureinflüsse erschlaffen oder Falten werfen z.B. bei zu starker Sonneneinstrahlung oder Hitze.
Stellen Sie das Modell zunächst an einen kühlen Platz für eine bestimmte Zeit. Danach können Sie versuchen die restlichen Falten vorsichtig mit einem Haartrockner zu behandeln.



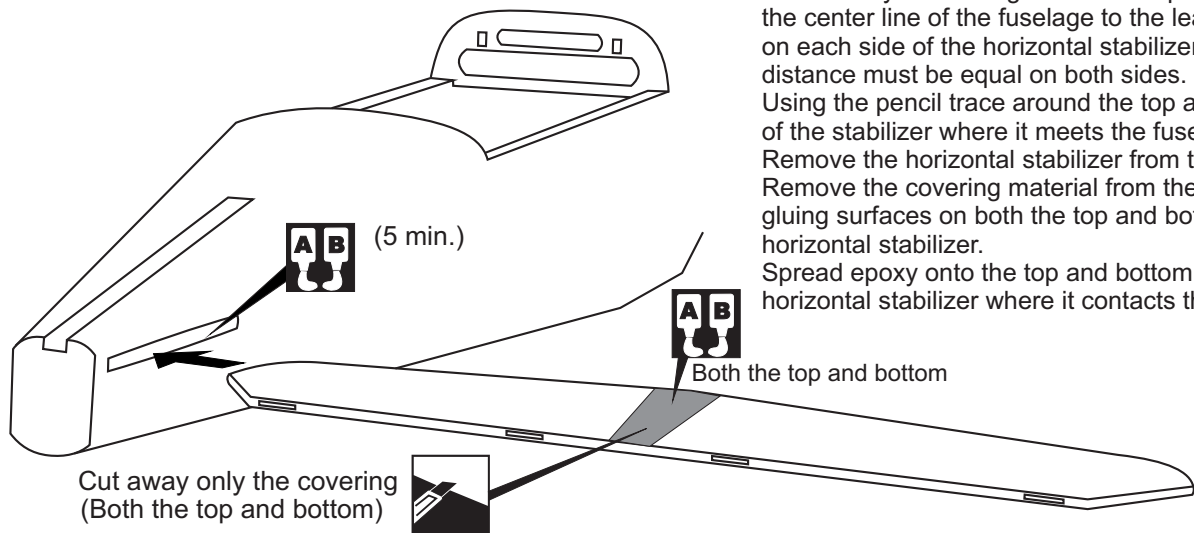
1.5mm Drill holes using the stated size of drill (in this case 1.5 mm Ø)	Take particular care here	Hatched-in areas: remove covering film carefully	Check during assembly that these parts move freely, without binding
Use epoxy glue	Apply cyano glue	Assemble left and right sides the same way.	Not included. These parts must be purchased separately

1.5mm 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 zusammgebaut	Nicht enthalten. Teile müssen separat gekauft werden.

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"	

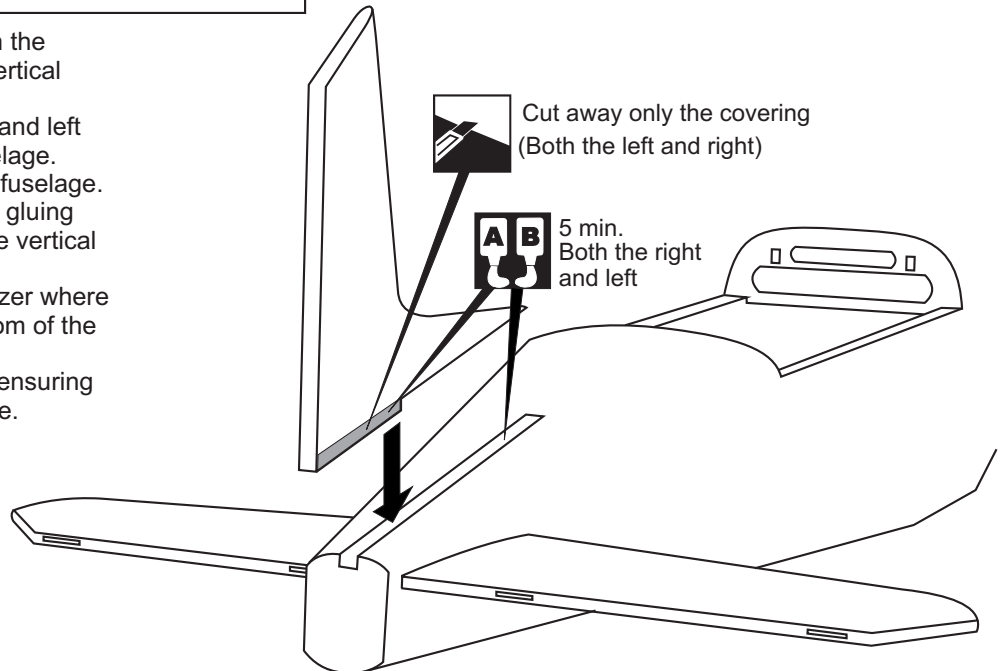
1- Horizontal Stabilizer / Höhenruder



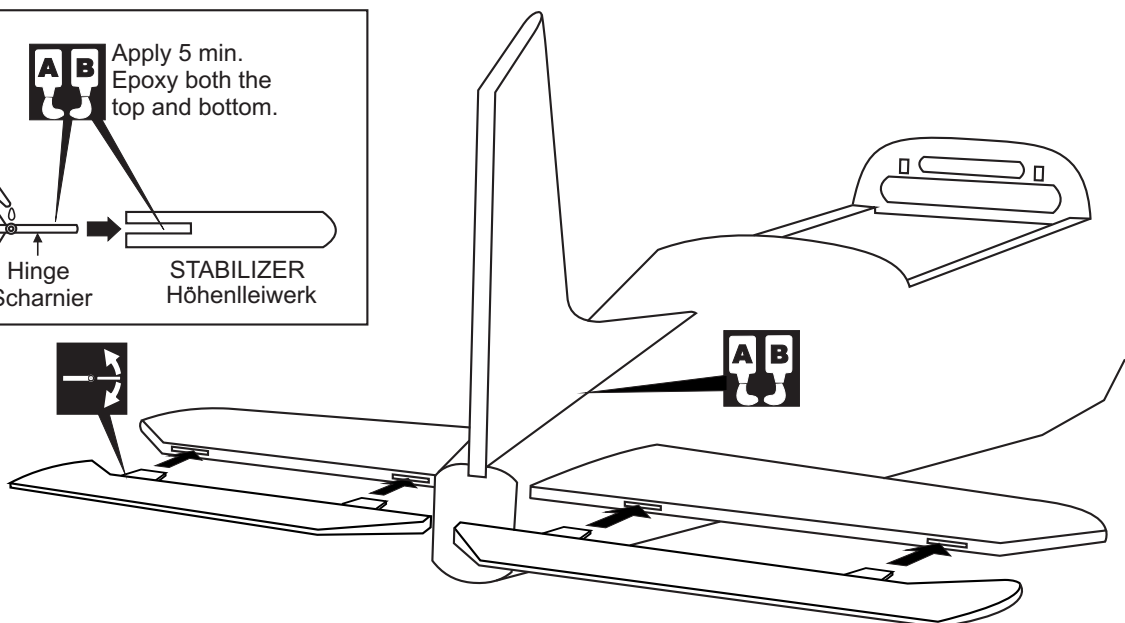
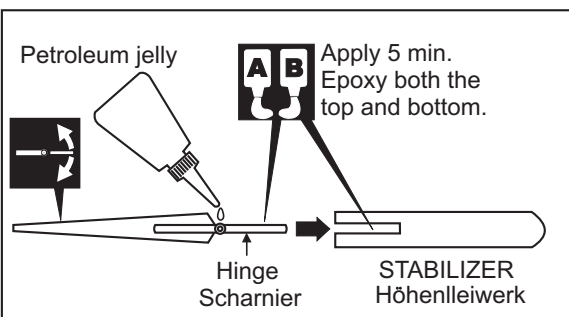
Trial fit the horizontal stabilizer in place on the fuselage. Check the alignment of the horizontal stabilizer by measuring from a fixed point along the center line of the fuselage to the leading edge on each side of the horizontal stabilizer. The distance must be equal on both sides. Using the pencil trace around the top and bottom of the stabilizer where it meets the fuselage. Remove the horizontal stabilizer from the fuselage. Remove the covering material from the gluing surfaces on both the top and bottom of the horizontal stabilizer. Spread epoxy onto the top and bottom of the horizontal stabilizer where it contacts the fuselage.

2- Vertical Stabilizer / Höhenleitwerk

Trial fit the vertical stabilizer in place on the fuselage. Check the alignment of the vertical stabilizer. Using the pencil trace around the right and left of the stabilizer where it meets the fuselage. Remove the vertical stabilizer from the fuselage. Remove the covering material from the gluing surfaces on both the right and left of the vertical stabilizer. Spread the epoxy on the vertical stabilizer where it contacts the fuselage and to the bottom of the stabilizer. Insert the vertical fin into the fuselage, ensuring that it is seated properly on the fuselage.




3- Elevator / Höhenruder



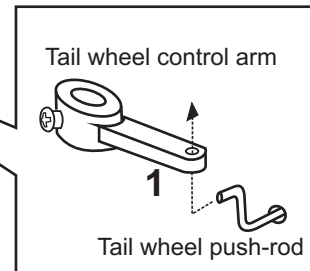
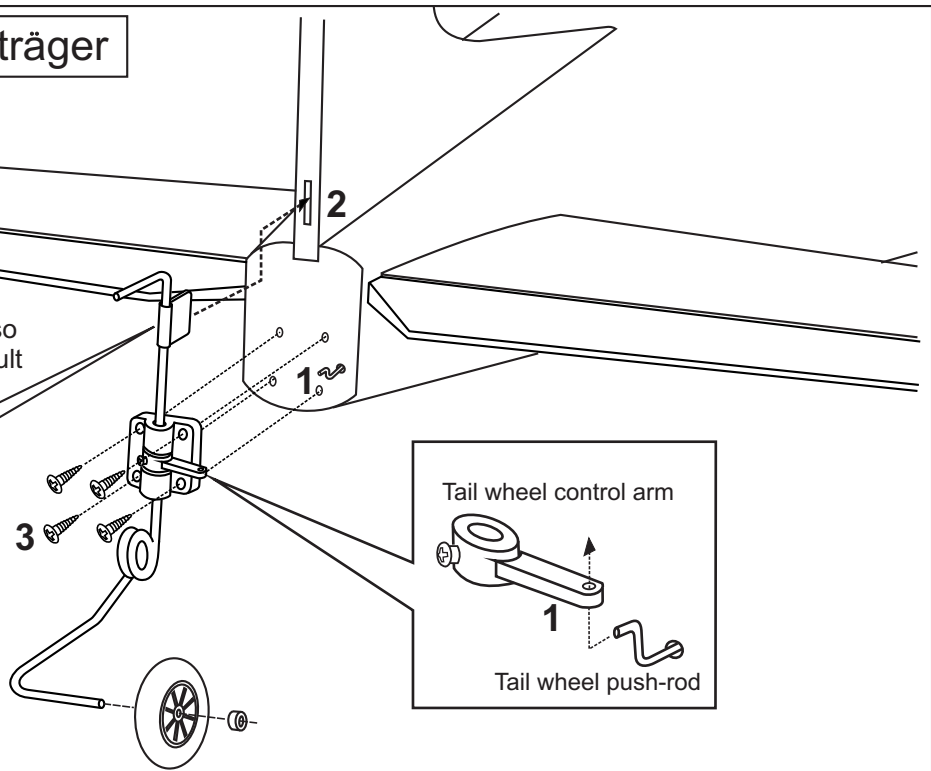
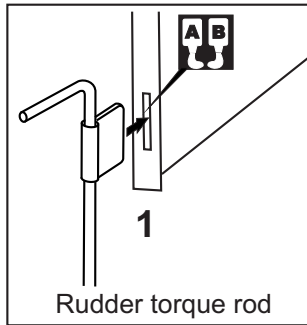
4- Tail wheel leg / Spornradträger

3x12mm screw

.....4

Test-fit the rudder torque rod into the slot.

NOTE: You may need to open up the slots so that the torque rod bearing are not too difficult to push in



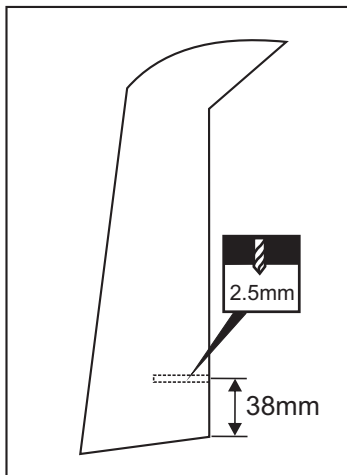
1- Insert the tail wheel pushrod into the hole on the tail wheel control arm (as show).

2- Re-install the rudder torque rod and tail wheel mount in place.

3- Secure the tail wheel mount in place using four 3x12mm screws.

Secure the tail wheel control horn in place using a 1/8"(3mm) screw set, Ensure smooth non-binding movement.

5- Rudder / Höhenleiwerk



Drill a 3/32"(2.5mm) diameter hole in torque rod mounting slot, marking sure that you drill the hole perpendicular to the leading edge of the rudder.

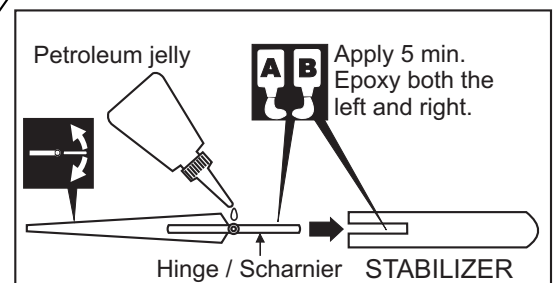
Position each hole 38mm (+/- 1mm) out from the edge of the rudder.

Test-fit the torque rod into the rudder.

When satisfied with the fit and alignment, remove the torque rod.

Apply a thin layer of petroleum jelly to only the pivot point of the torque rod bearing

Hinge the rudder to the vertical stabilizer, using 5 minute epoxy. Make sure to apply a thin layer of epoxy to the left and right of both hinges and to the inside the torque rod mounting slot and to the end of the torque rod itself.



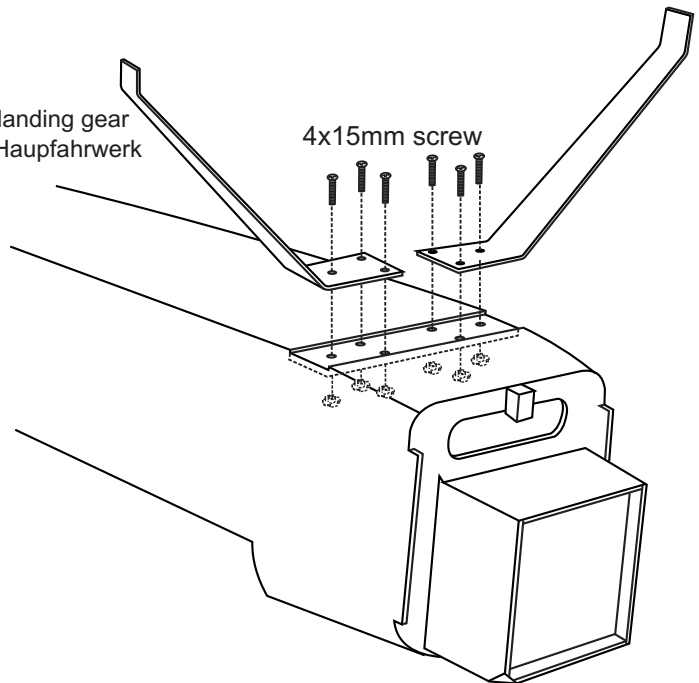
6- Main landing gear / Fahrwerk

4X15mm screw



Aluminum landing gear
Aluminum Hauptfahrwerk

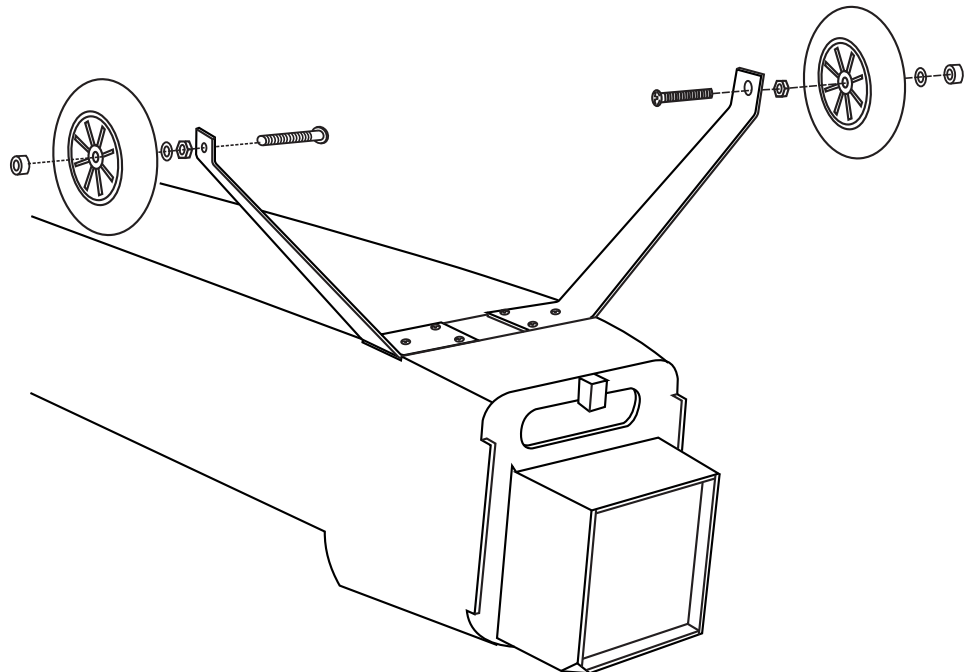
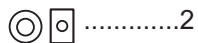
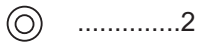
4x15mm screw



Note: All holes on the fuselage and blind-nuts are pre-installed at factory.

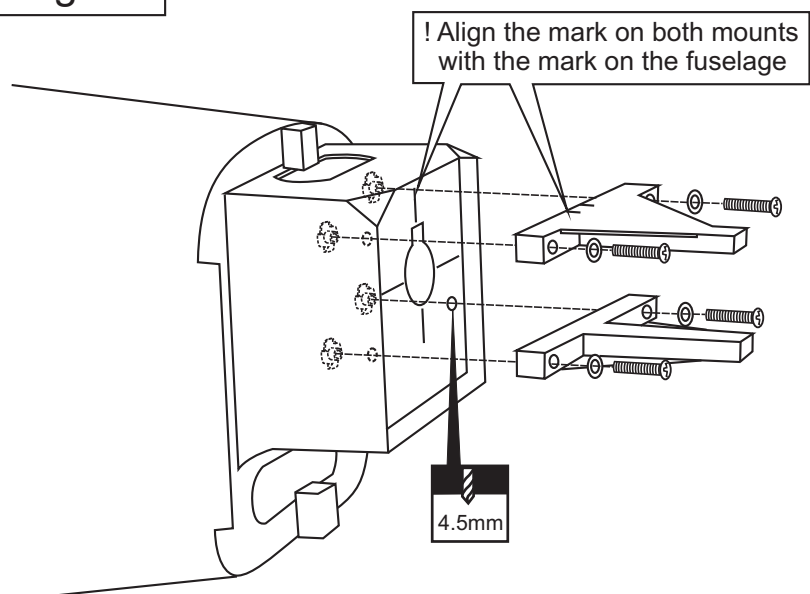
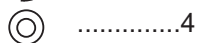
7- Wheel / Radl

4X30mm screw

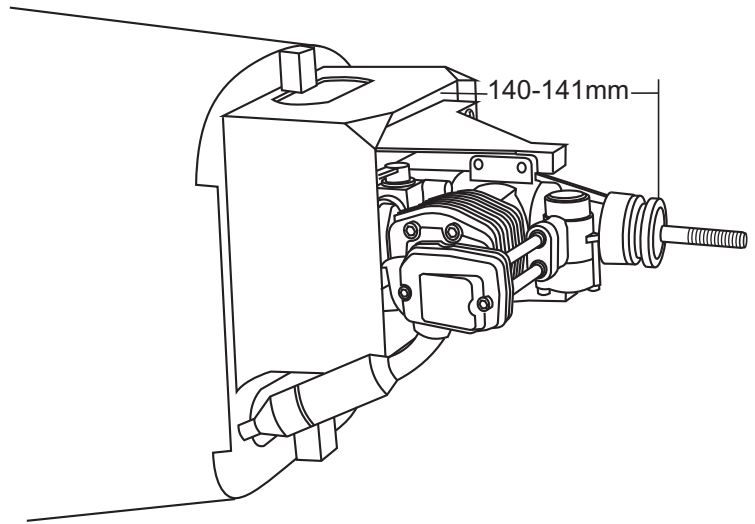
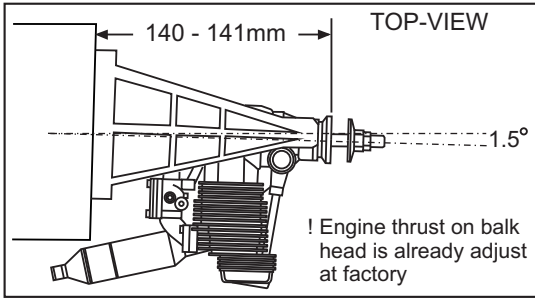


8- Engine mount / Motorträger

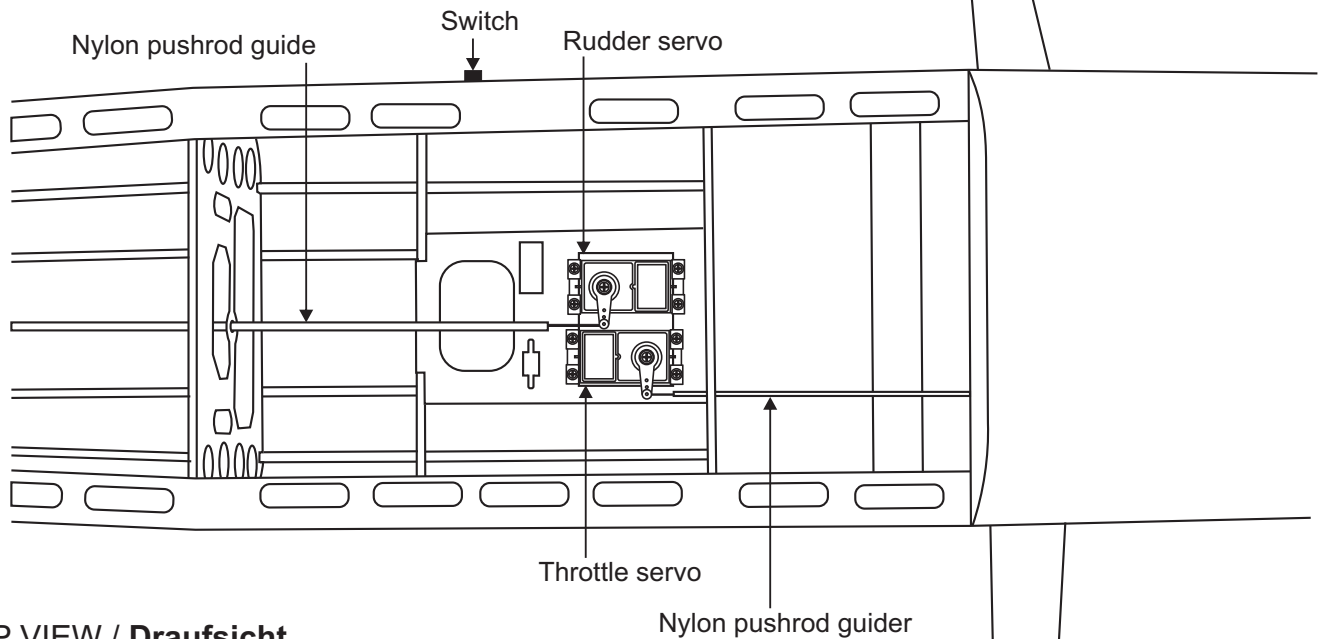
4X25mm screw



9- Engine / Motor

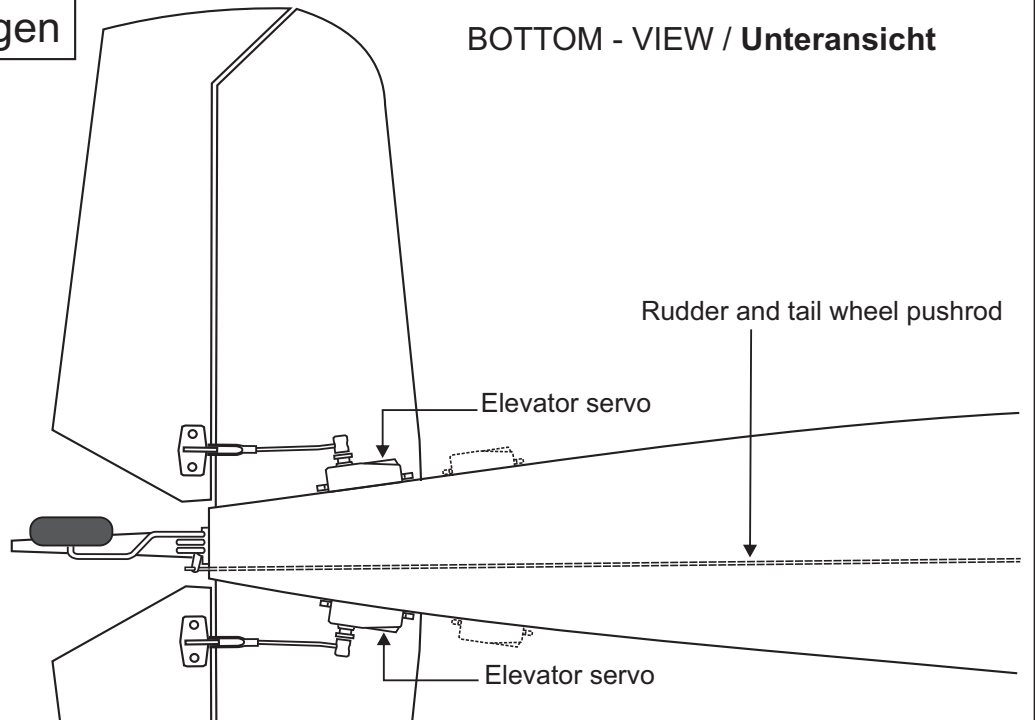
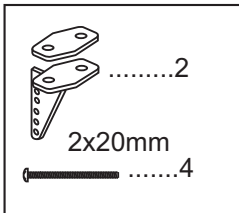


10- Servo installation



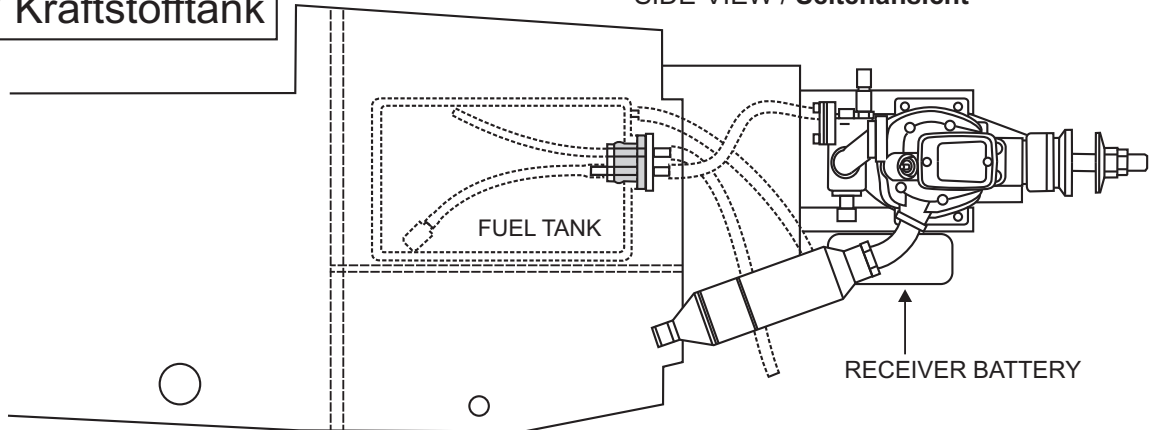
TOP VIEW / **Draufsicht**

11- Linkage / Alenkungen



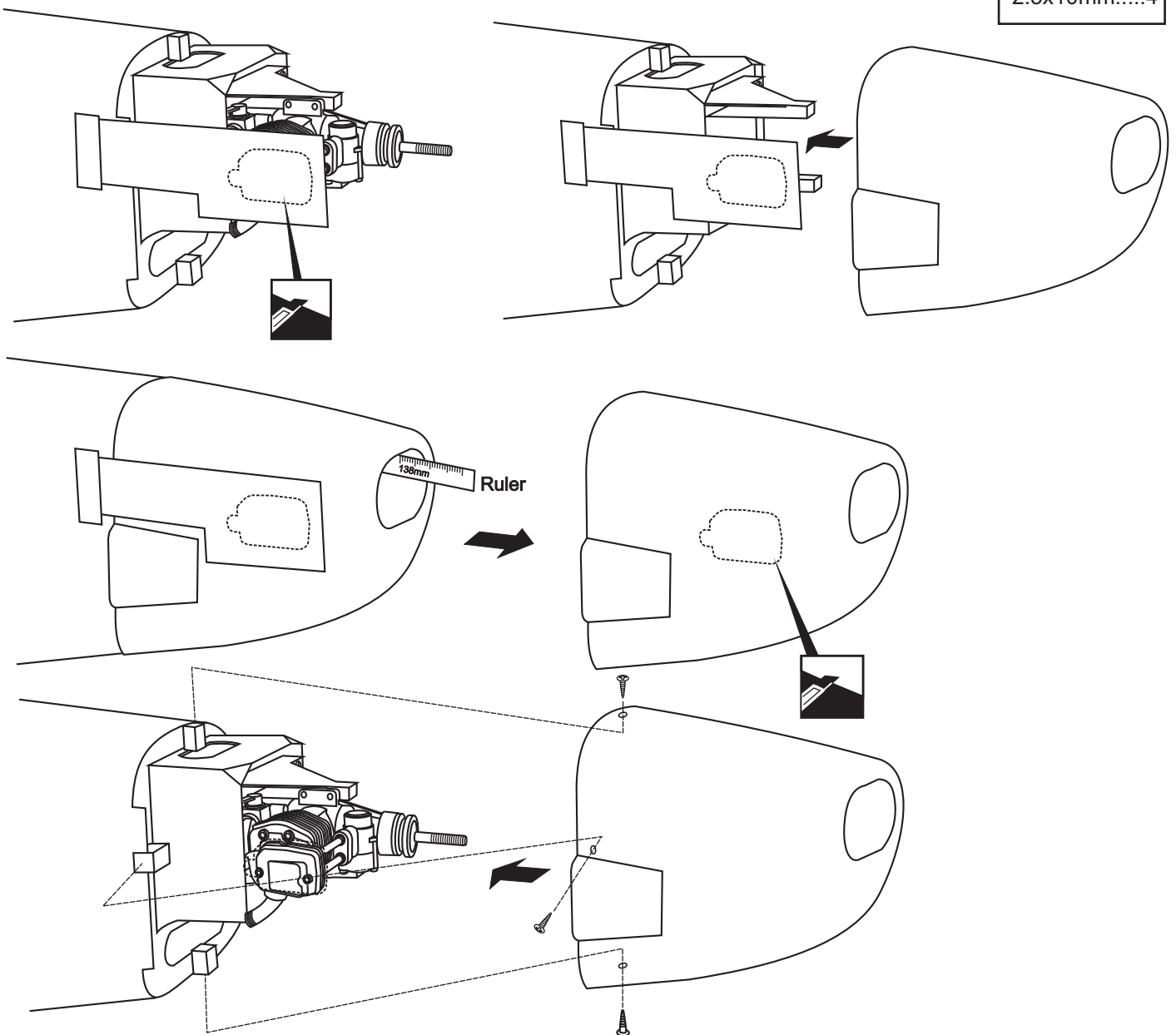
12- Fuel tank / Kraftstofftank

SIDE-VIEW / Seitenansicht



13- Cowling / Motorhaube

 2.5x10mm.....4



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 138 to 139mm.

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 and silencer.

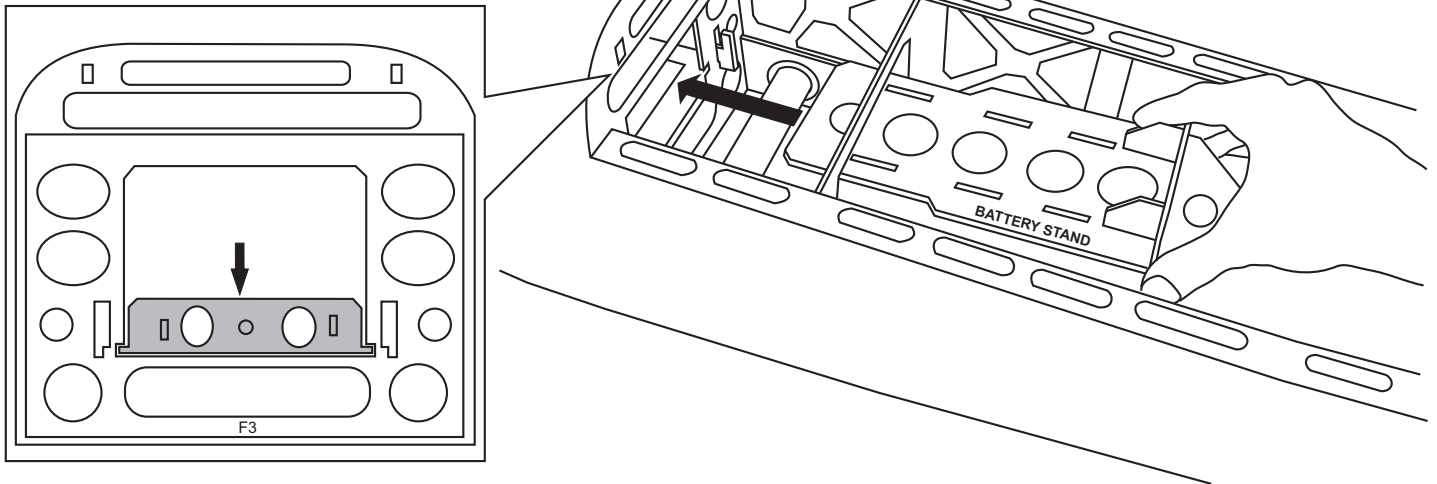
Again. Insert the cowl on to the fuselage and secure it in place with five 2x5mm screws.

14- Li-po battery / Li-po akku

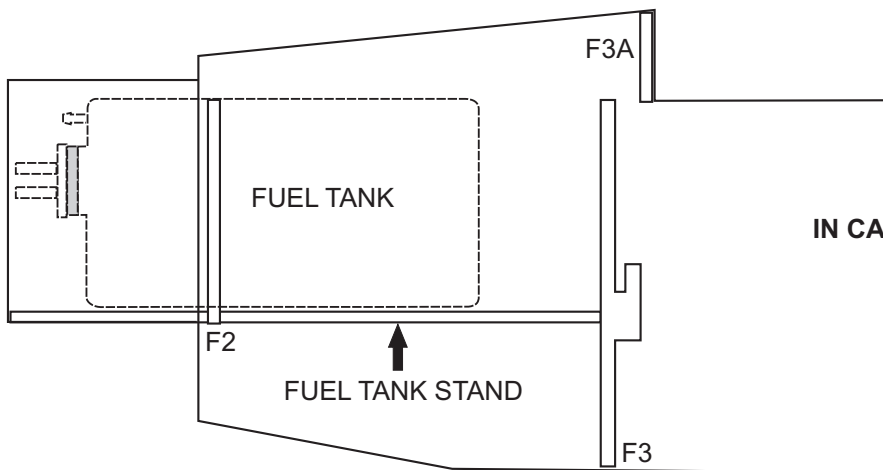
IN CASE OF LI-PO BATTERY USING

Slide the battery stand throughout the slots on the bottom of F3

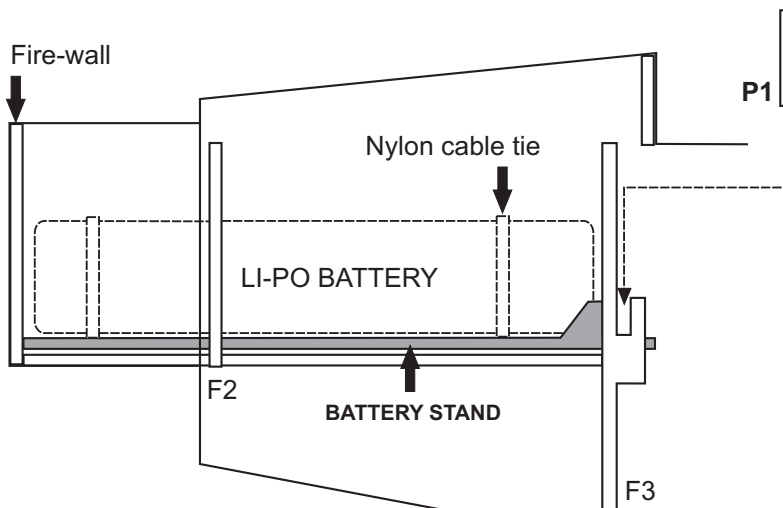
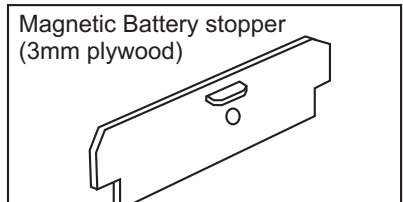
One end of the battery stand touched the rear of the fire-wall



IN CASE OF GLOW ENGINE USING



SIDE-VIEW / Seitenansicht



Place the Li-po battery on to the battery stand and secure it in place with the nylon cable tie.

Slide the battery stand (P1) throughout the slots on the bottom of F3 so that the end of the battery stand touched the rear of the fire-wall.

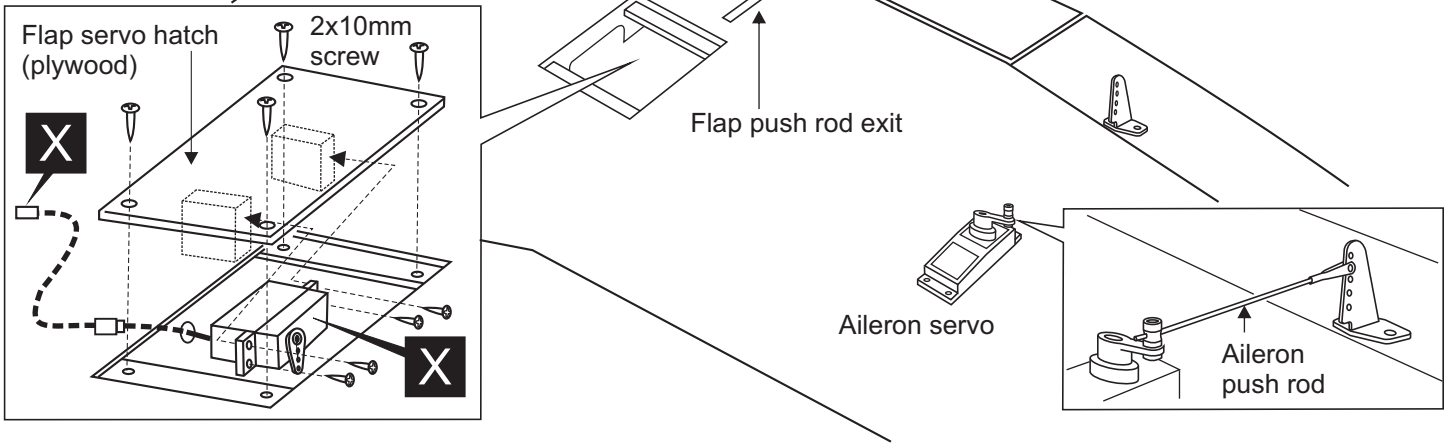
Secure the battery stand in place using the magnetic battery stopper (P4).

IN CASE OF ELECTRIC MOTOR USING

15- Servo

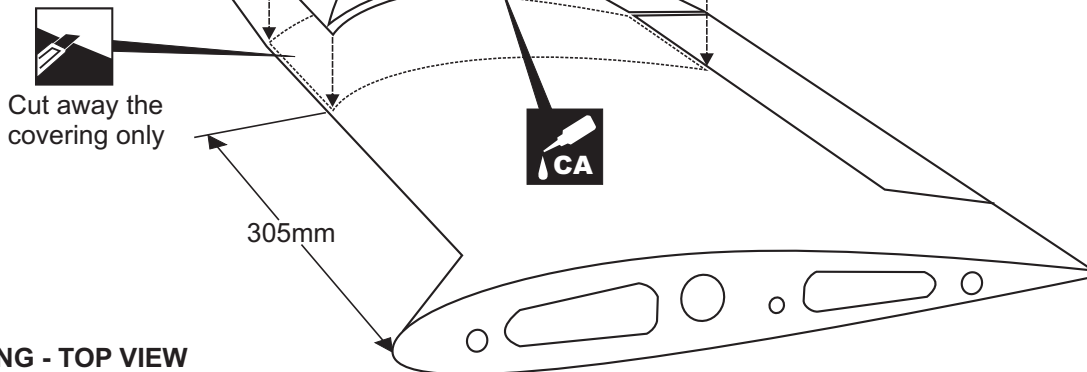
BOTTOM - VIEW / Unteransicht

L/R

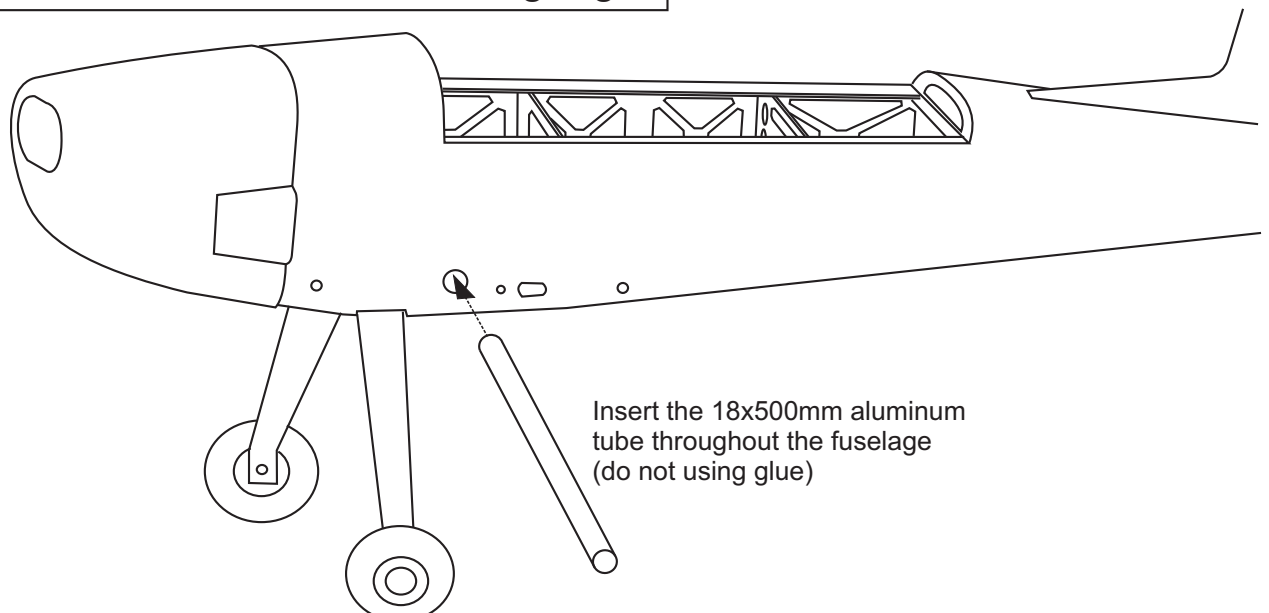


16- ABS Shield

- 1-Using the ABS shield as a template, trace around the outside edge of the ABS air-scoop, and then remove it.
- 2-Using a sharp hobby knife, cut away the covering inside the lines. Not to cut into the wood.
- 3-Apply the ABS shield in place and secure with CA glue. Do the same way with another half wing.




17- Wing installation / Flächenbefestigung



18- Wing installation / Flächenbefestigung

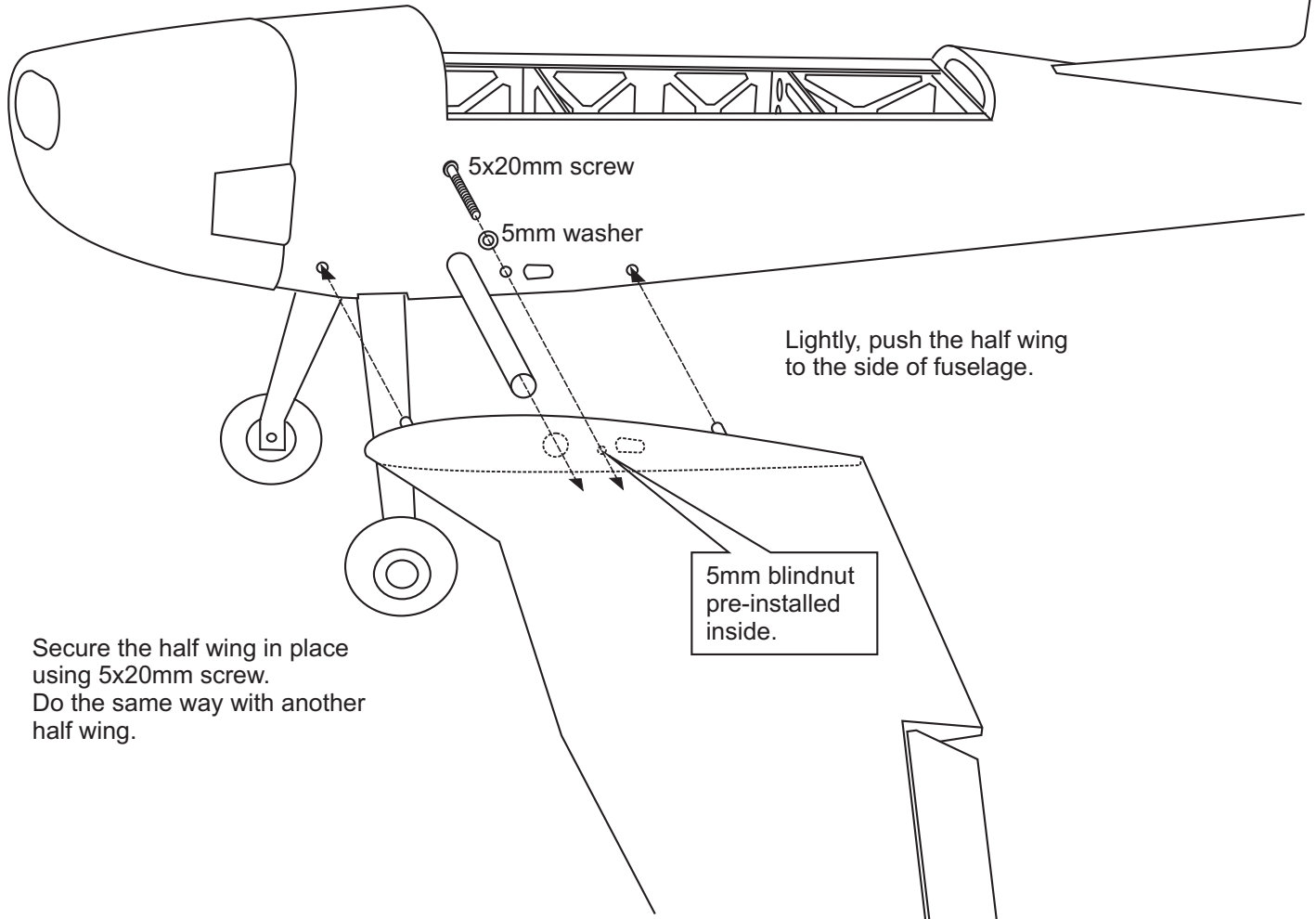
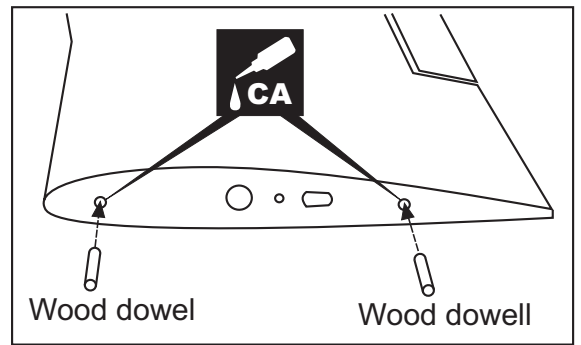
5X20mm screw

2

2

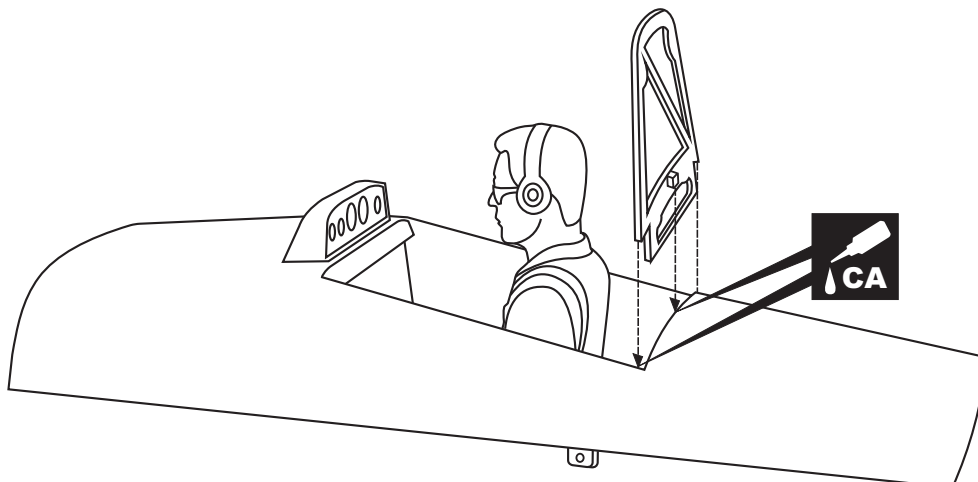
1- Test-fit the dowel into the hole.

2- Secure the dowel in place using CA glue.
Do the same way with another haft wing.

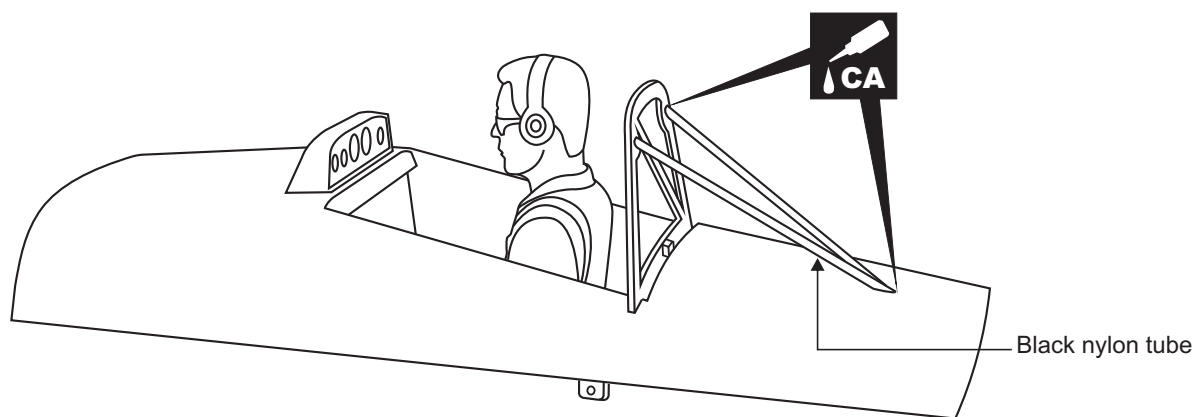


Secure the half wing in place using 5x20mm screw.
Do the same way with another half wing.


19- Cockpit

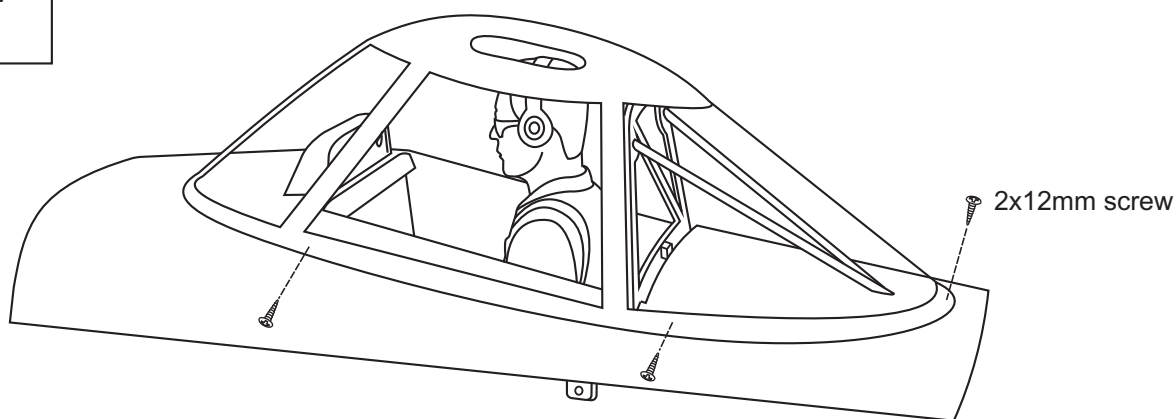


20- Cockpit




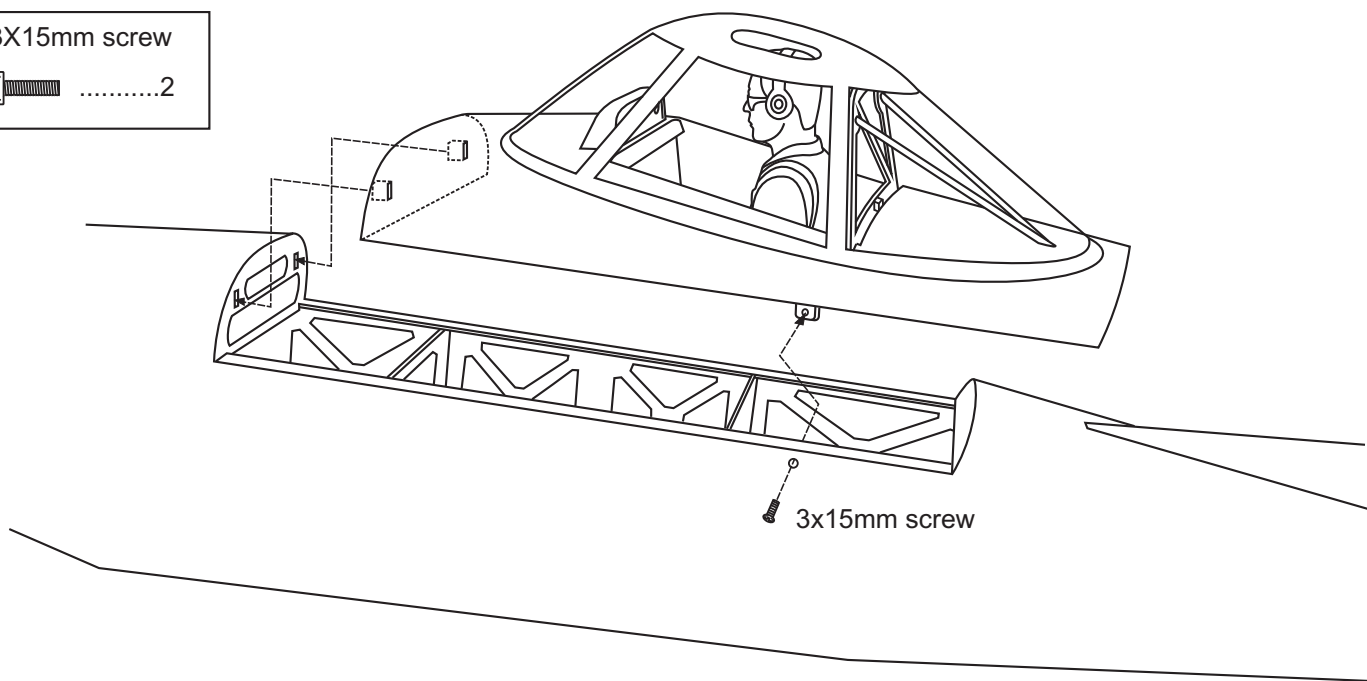
21- Canopy / Kabinenhaube

2x12mm screw
5



22- Cockpit installation

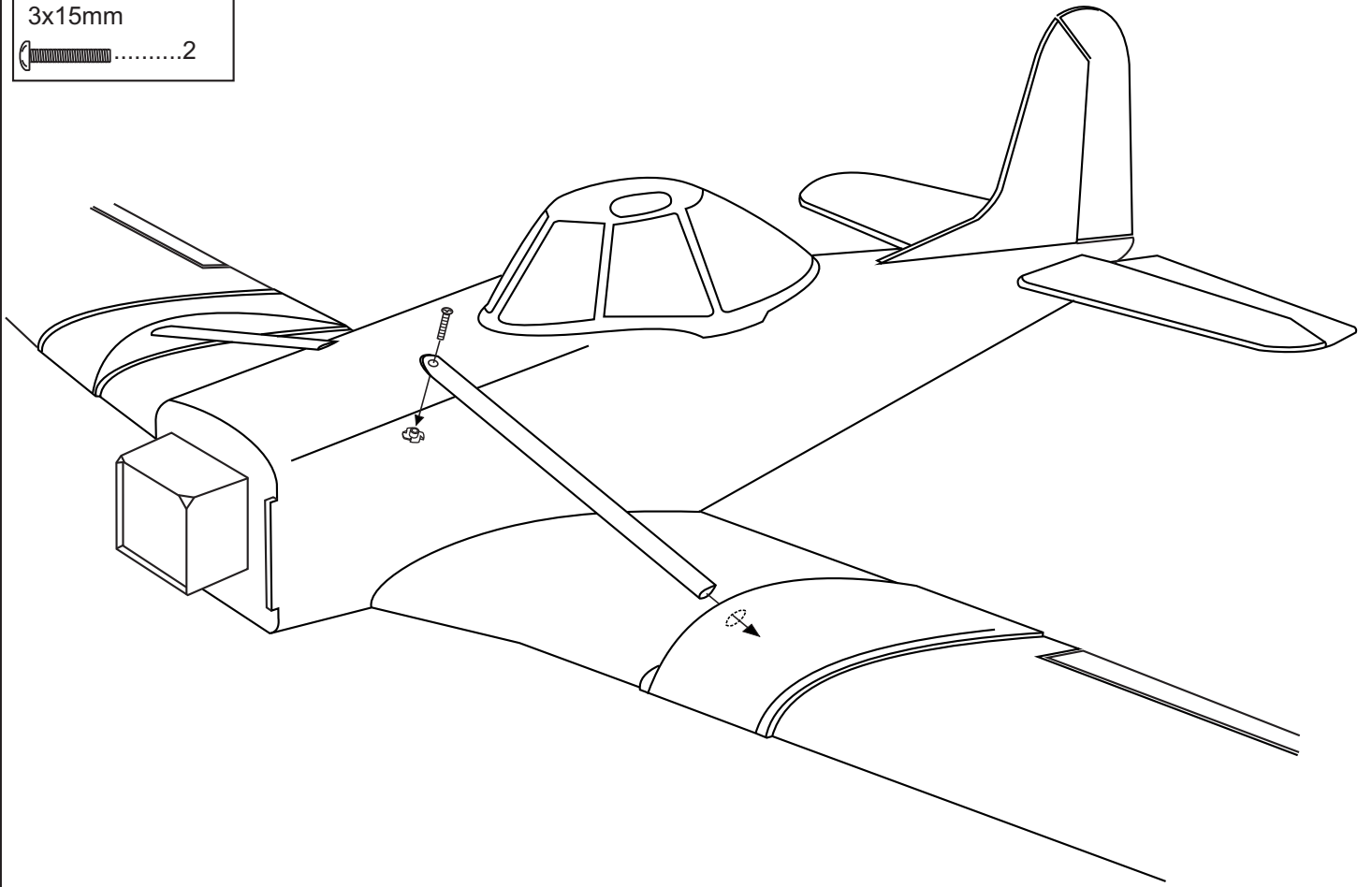
3X15mm screw
2



23- Wing brace

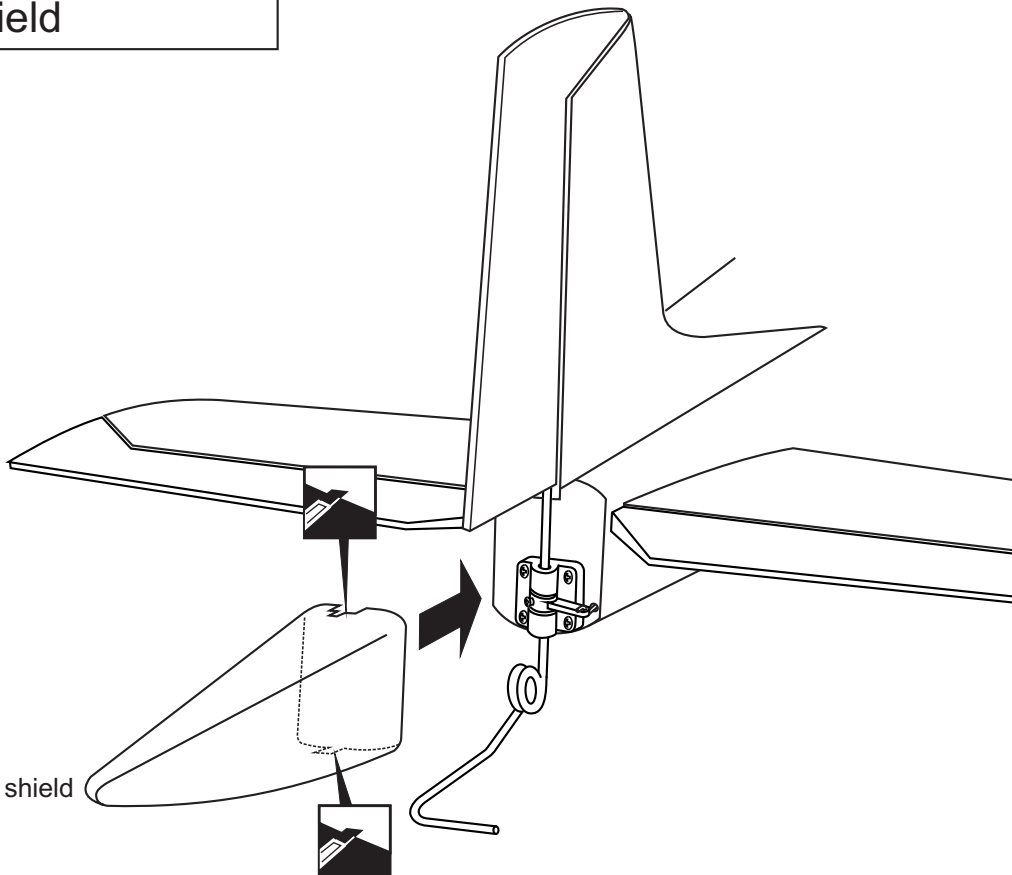
3x15mm

.....2




24- Tail shield

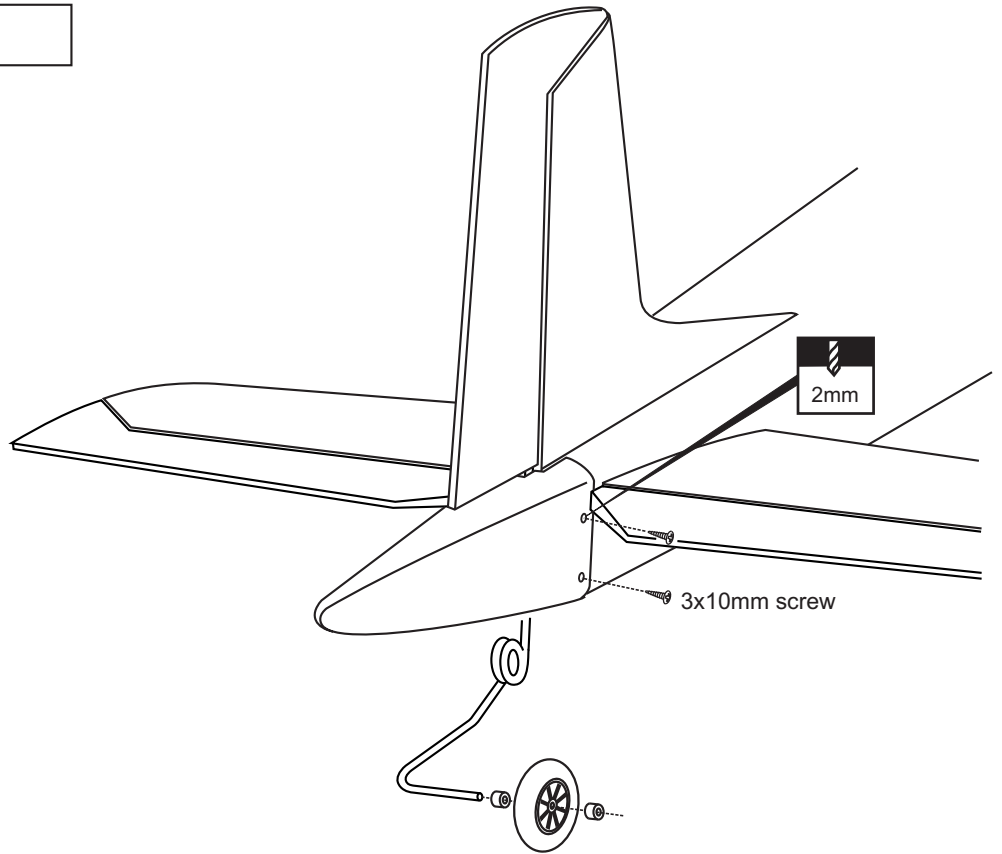
Fiberglass shield



25- Tail shield

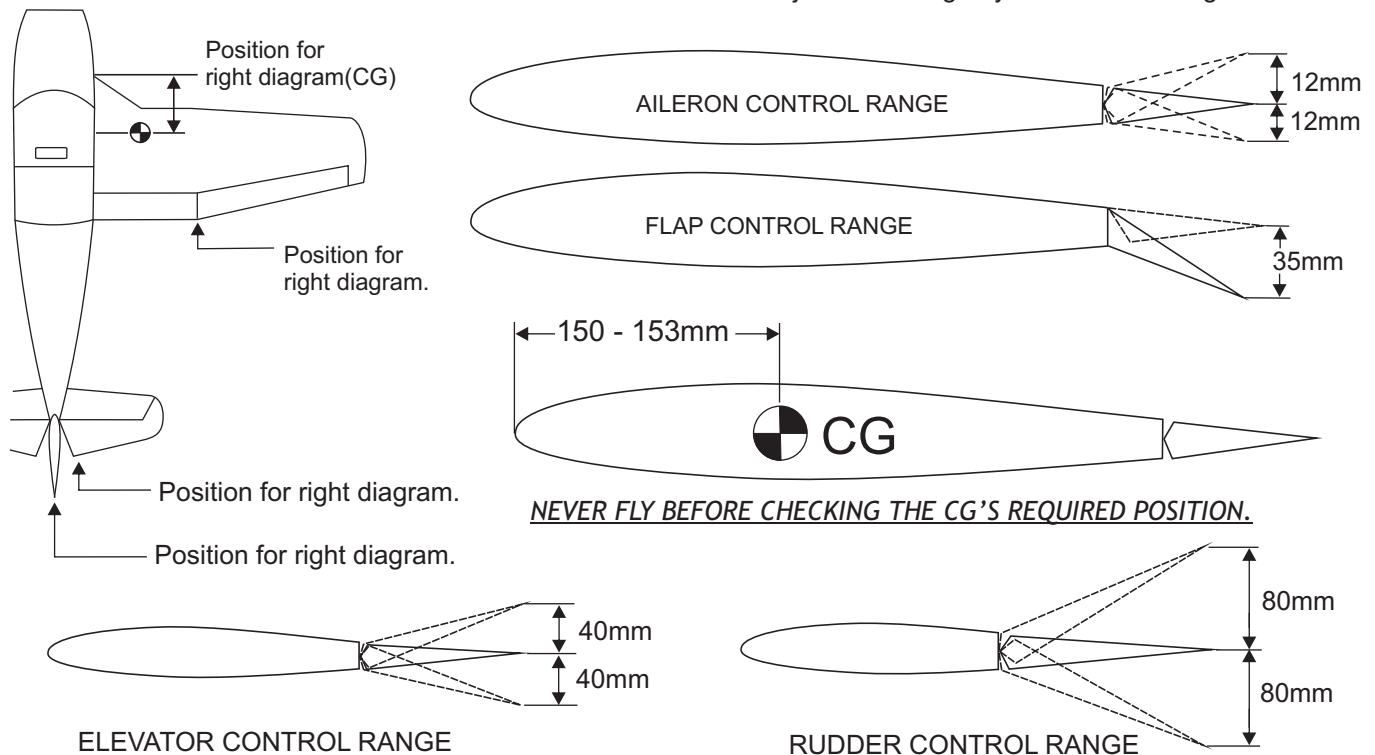
3x10mm screw

4



26- Control surface & Balance Schwerpunkt & Ruderausschläge

Adjust the travel of each control surface to the values in the diagrams these values fit general flight capabilities. Readjust according to your needs and flight level.



NEVER FLY BEFORE CHECKING THE CG'S REQUIRED POSITION.

Shift the location of the battery pack as needed to obtain the specification.
Carefully install the battery pack to ensure that they will not shift during flight.

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.