45 Class
2-cycle engine

70 Class
4-cycle engine

FIAT G-59

TECHNISCHE DATEN

Spannweiter	1580mm
Länge	1180mm
Elektroantrieb	870 Watt (PULSAR 60)
Verbrennerantrieb	7.5cc 2-T / 8.5cc 4-T
Fernsteuerung	5 Kanal / 5-6 Servos

SPECIFICATIONS

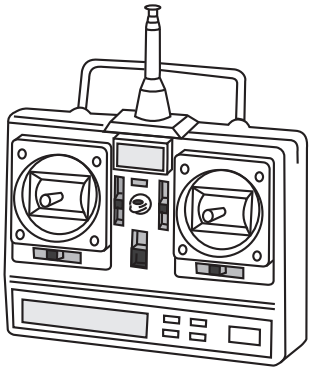
Wingspan	1580mm
Length	1180mm
Electric Motor	870 Watt (PULSAR 60)
Glow Engine	7.5cc 2-T / 8.5cc 4-T
Radio	5 Channel / 5-6 Servos

RADIO CONTROL MODEL ®

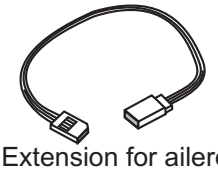
WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of controll and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if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

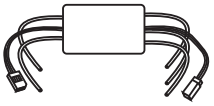
REQUIRED FOR OPERATION (Purchase separately)



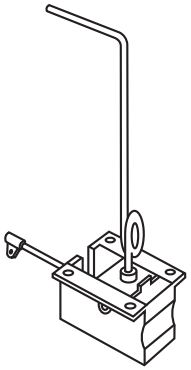
10.5x6 for .40 - 2 cycle engine
11x6 for .46 - 2 cycle engine
12x6 for .60 - 4 cycle engine
12x7 for .70 - 4 cycle engine
13x6 for Electric motor



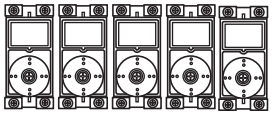
Extension for aileron servo, retract servo.



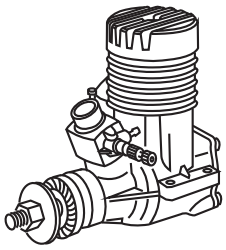
Motor Control



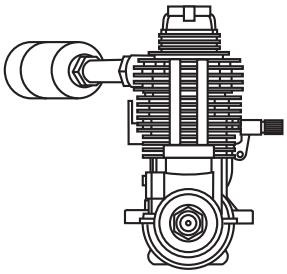
Retract landing gear VQAR04



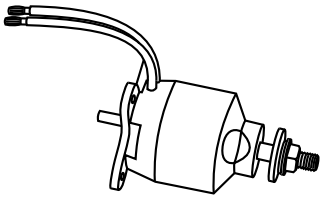
Minimum 5 channel radio for airplane with 5 servos
.Motor control x1 .Aileron x2
.Elevator x1 .Rudder x1



.46 ~ .50 - 2 cycle



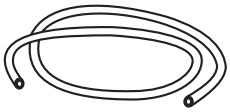
.60 ~.70 - 4 cycle



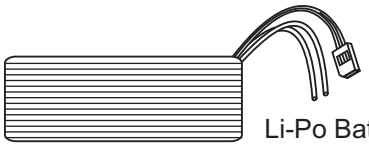
BOOTS 60
Brushless Motor
or equivalent.

Retract servo x1

Linkage Stopper x2
(for retract servo)



Silicone tube



Li-Po Battery, 14.8V, 4000mAH, 80A

GLUE (Purchase separately)

Silicon sealer

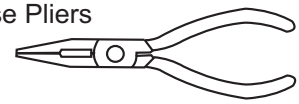
Cyanoacrylate Glue

Epoxy Glue (5 minute type)
Epoxy Glue (30 minute type)

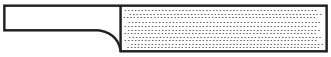
TOLLS REQUIRED (Purchase separately)

Hobby knife

Needle nose Pliers

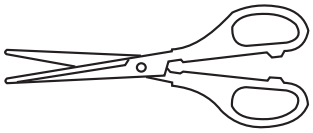


Sander



Phillip screw driver

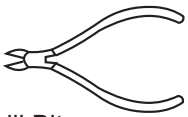
Scissors



Hex Wrench

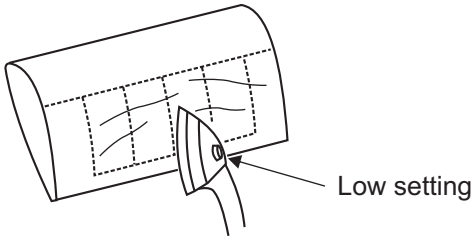
Awl

Wire Cutters



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

The pre-covered film on ARF kit may wrinkle due to variations of temperature. Smooth out as explained right.
* Use an iron or heat gun. Start as low setting. Increase the setting if necsessary. If it is too high, you may damage the film



Low setting

Symbols used throughout this instruction manual, comprise:

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.

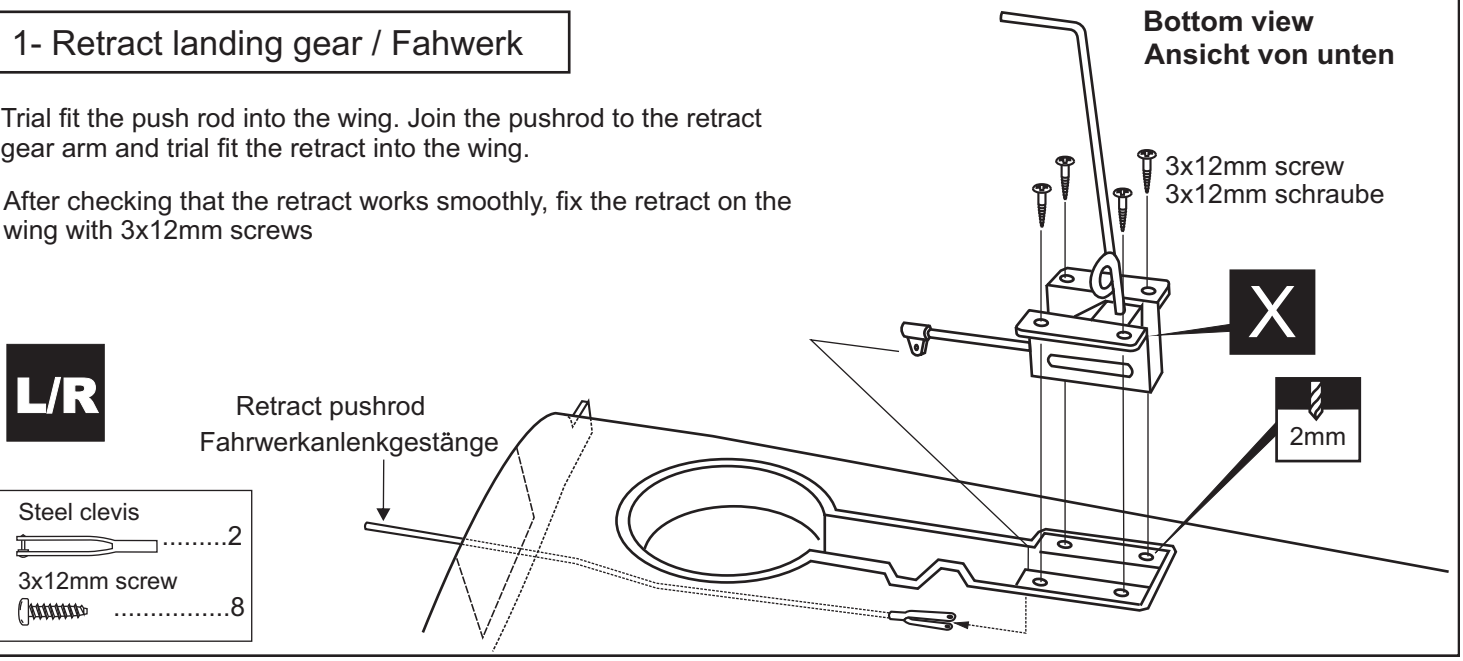
CONVERSION TABLE

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”	

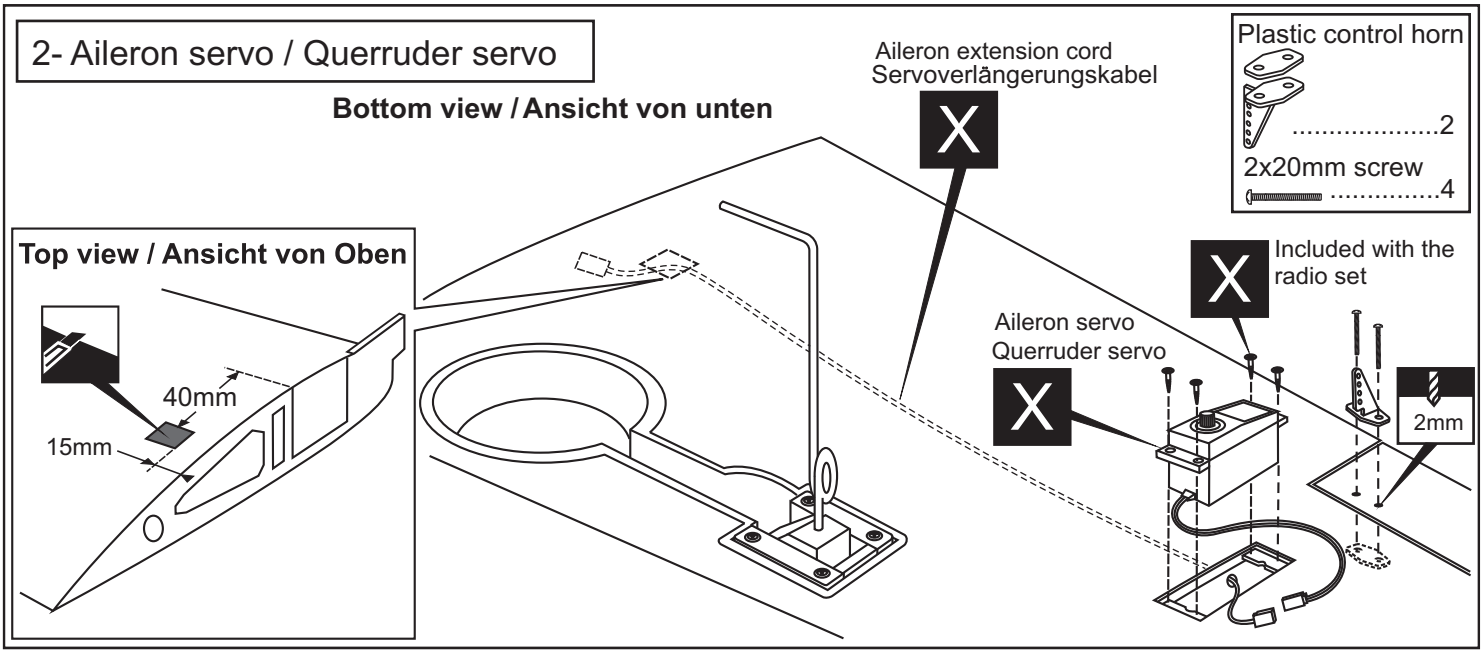
1- Retract landing gear / Fahwerk

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

After checking that the retract works smoothly, fix the retract on the wing with 3x12mm screws

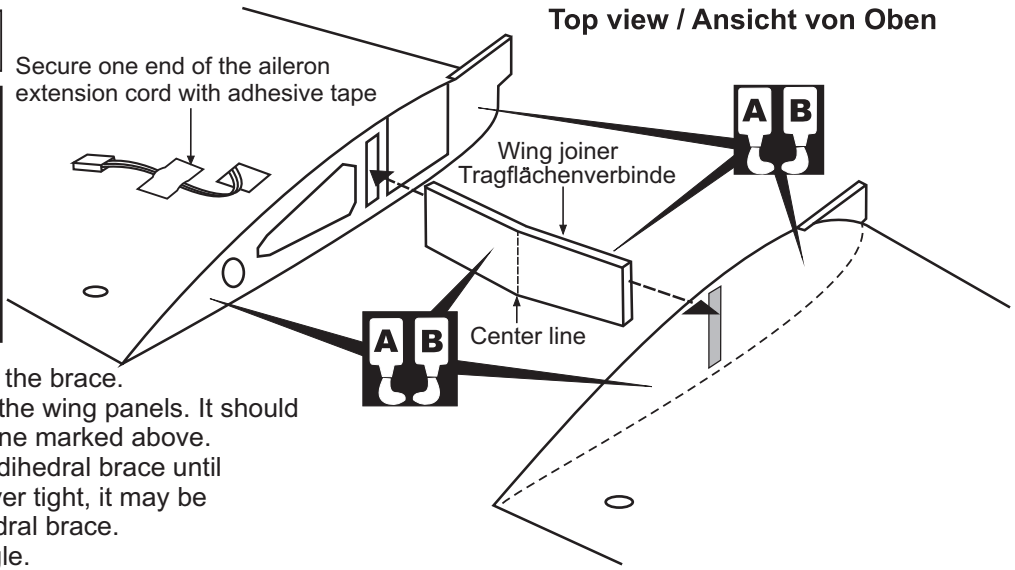


2- Aileron servo / Querruder servo



3- Joining the wing / Fläche

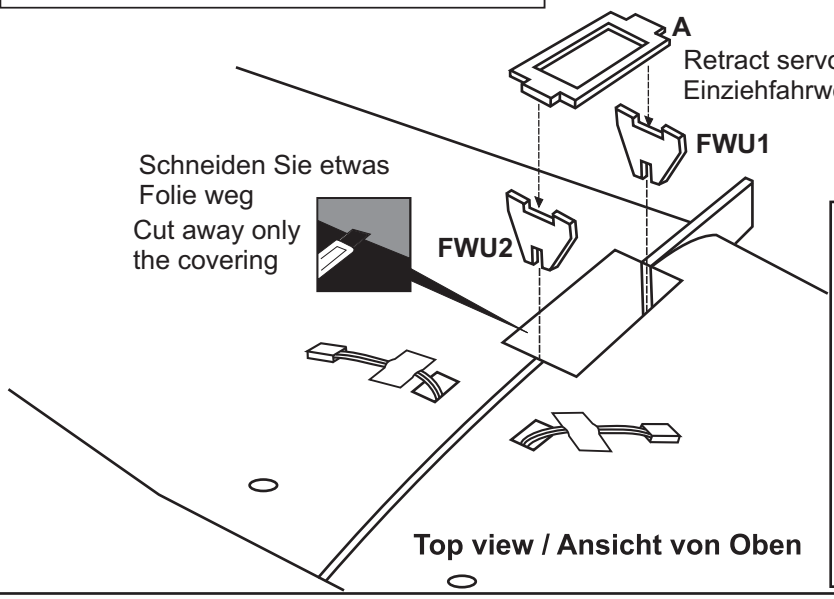
Use epoxy glue to bury the opening
Nehmen Sie Epoxykleber, um die Tragflachen fest miteinander zu Verbinden und streifen Sie den herausquellenden Kleber nach dem Verbinden mit einem fusselfreien Tuch SOFORT ab!

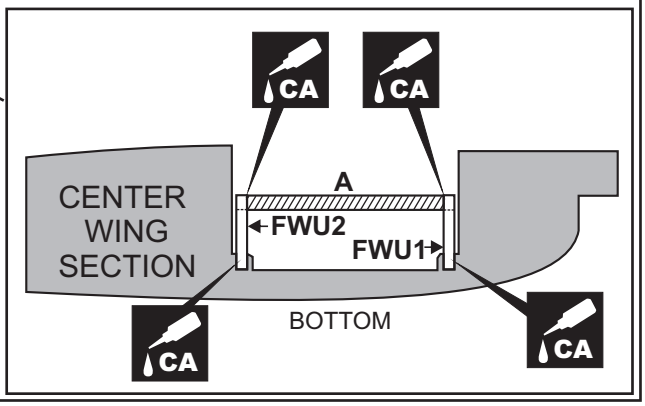


1- Using a pencil, mark the center of the brace.
2- Trial fit the wing joiner into one of the wing panels. It should insert smoothly up to the center line marked above.
3- Slide the other wing half onto the dihedral brace until the wing panel meet. If the fit is over tight, it may be necessary to lightly sand the dihedral brace.
4- Check for the correct dihedral angle.
5- Mix approximately 30 minute epoxy and apply a generous amount of epoxy into the wing joiner cavity of one wing half.
6- 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, marking sure that the “V” of the dihedral brace is positioned correctly
7- Do the same way with the other wing half.
8- 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. Clear off the excess epoxy.

WARNING: 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.

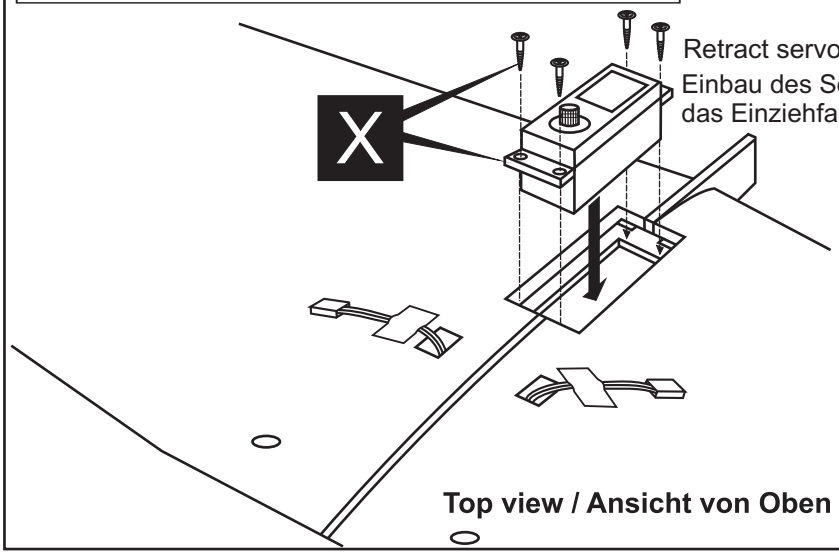
4- Servo mount / Servohalterung

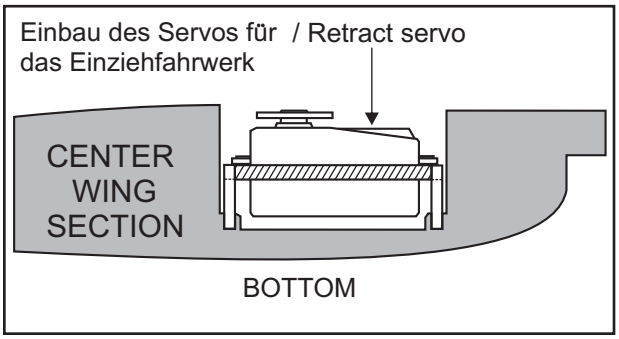




5- Retract servo / Einziehfahrwerk servo

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

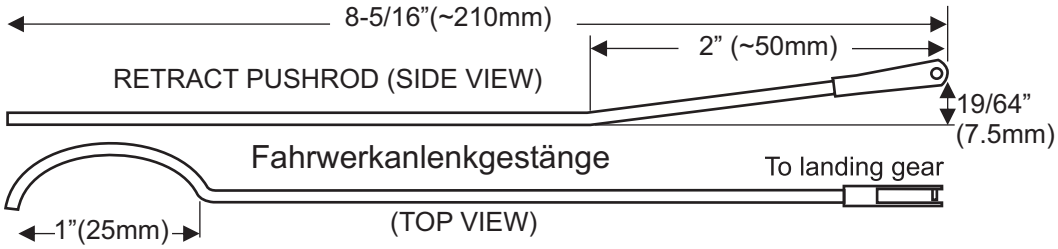


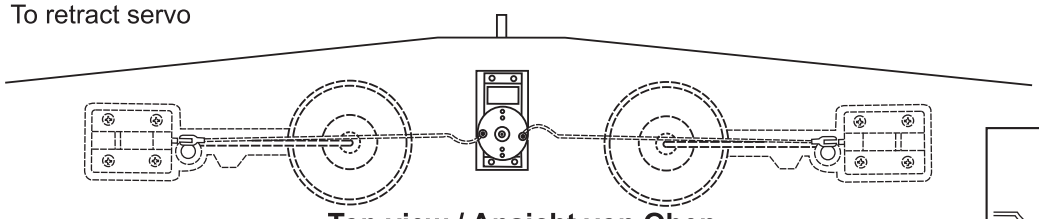


6- Linkages / Ruderanlenkung

Instruction how to build in the retracting landing gear
(This Gearis OPTIONAL)

Einbauhilfe bei Anbringen eines Einziehfahrwerks (Optional bestellbar; nicht im Baukasten enthalten!)

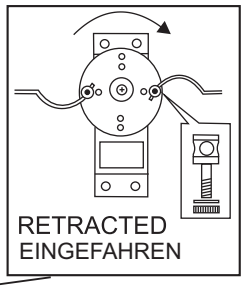


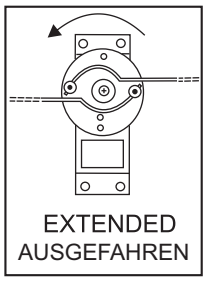


Top view / Ansicht von Oben

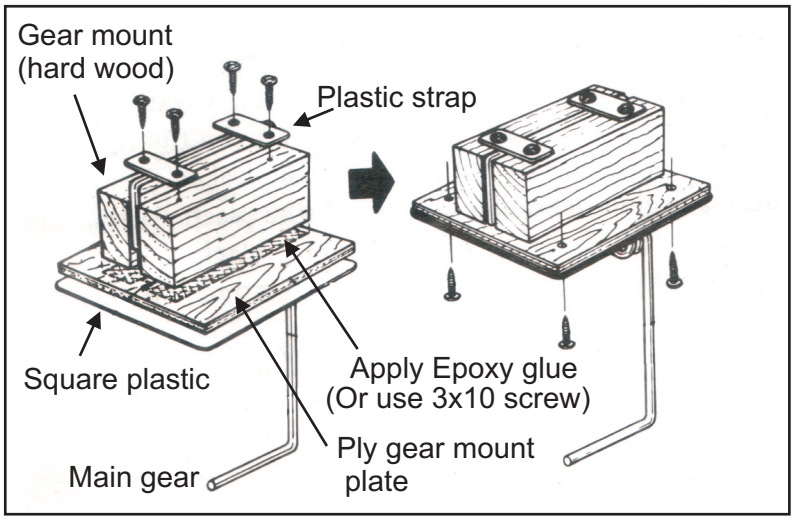
With the retract and retract servo in the retracted position, mark the position where each of the pushrod will attach to the servo arm, a small piece of masking tape works well for this. Cut off the excess length each rod.

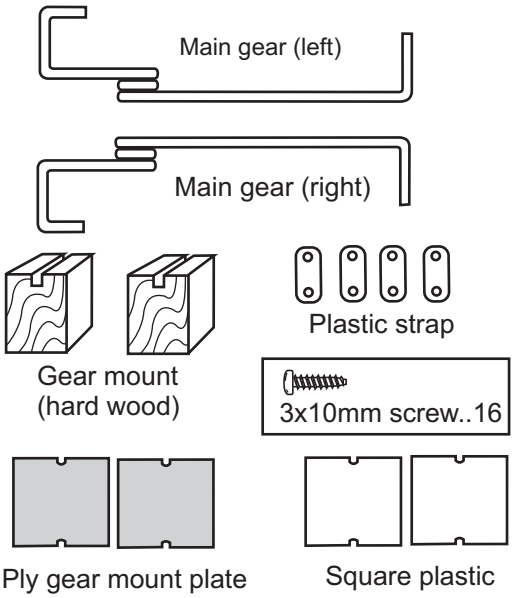
Link the servo and retract gear arm with push rod. Be sure to adjust the stroke so that the landing gear locks in both up and down position.



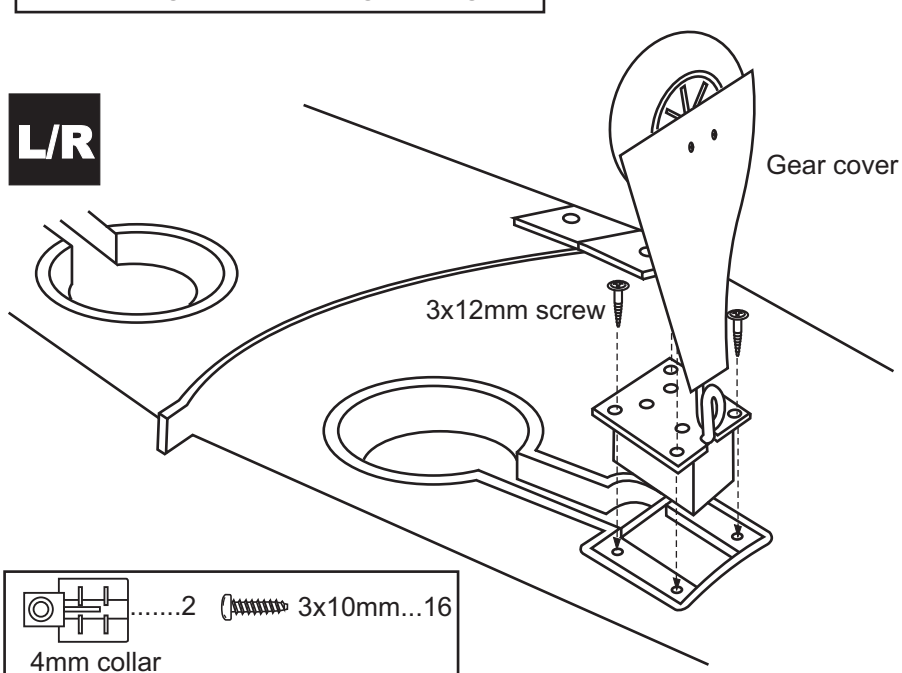


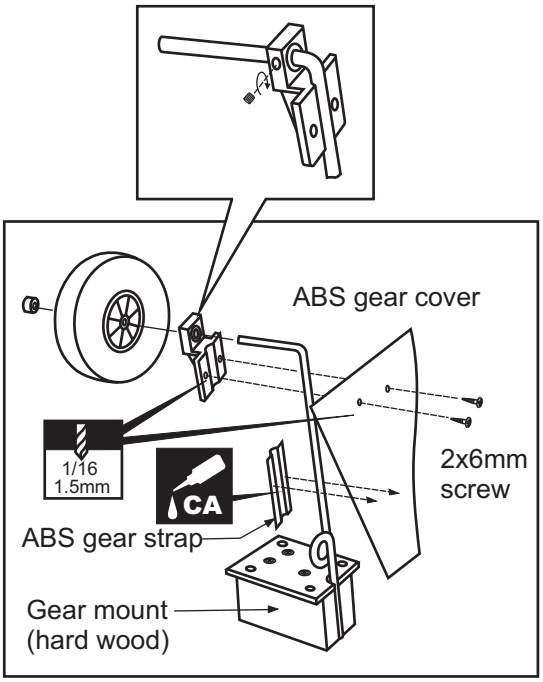
7- Fixed gear / Landegestänge



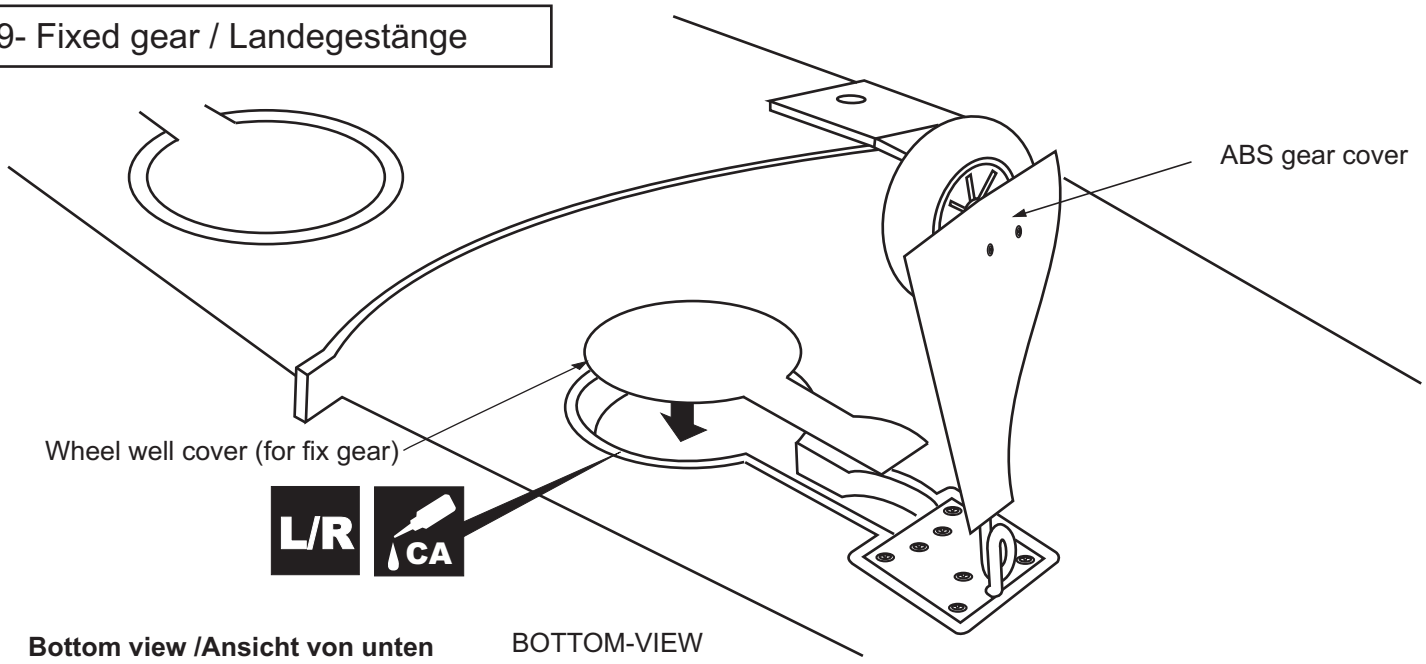


8- Fixed gear / Landegestänge





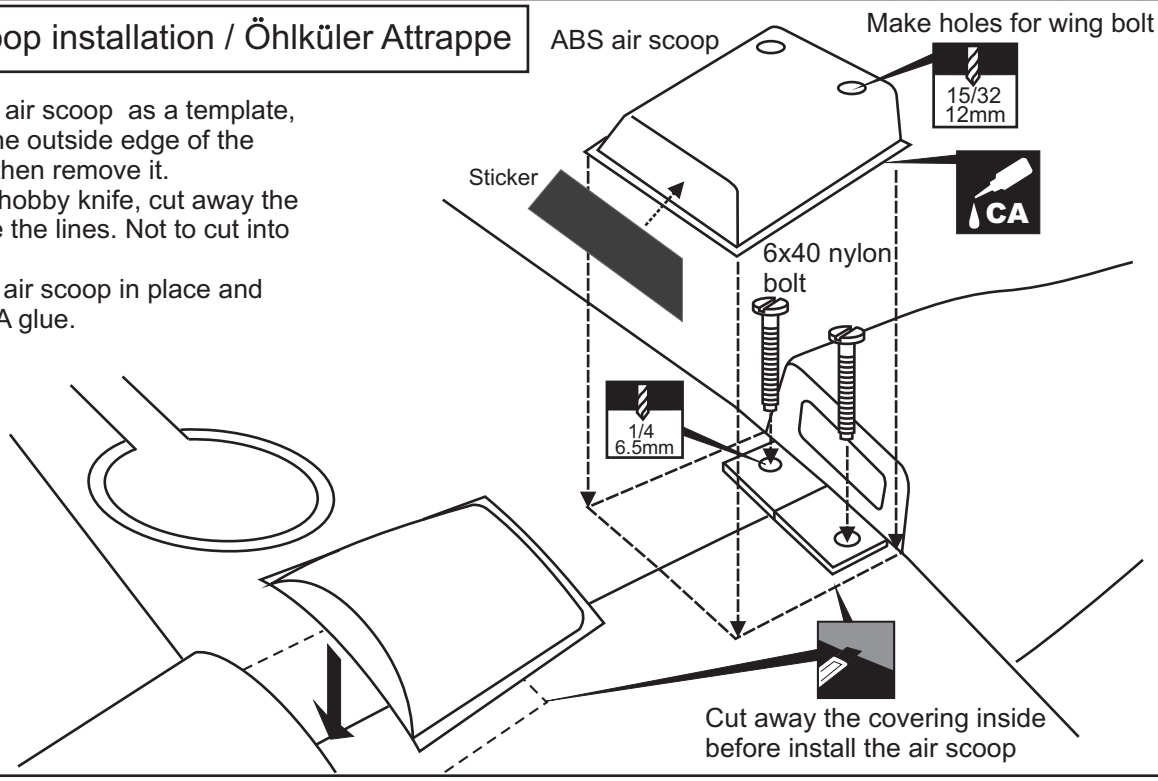
9- Fixed gear / Landegestänge



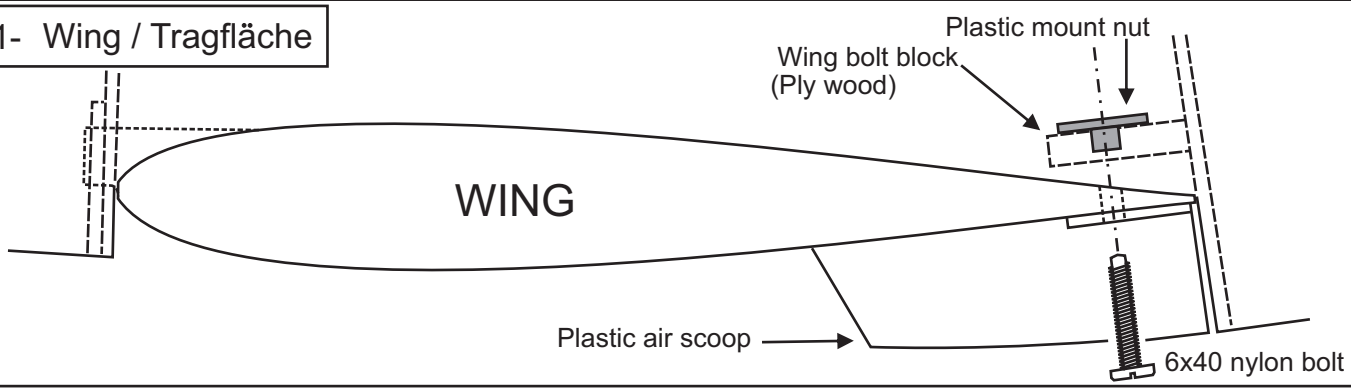
Bottom view /Ansicht von unten BOTTOM-VIEW

10- Air scoop installation / Öhlküler Attrappe

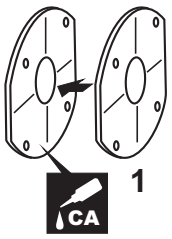
Using the ABS air scoop as a template, trace around the outside edge of the air scoop and then remove it.
Using a sharp hobby knife, cut away the covering inside the lines. Not to cut into the wood.
Apply the ABS air scoop in place and secure with CA glue.

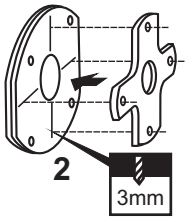


11- Wing / Tragfläche



12- Brushless Motor

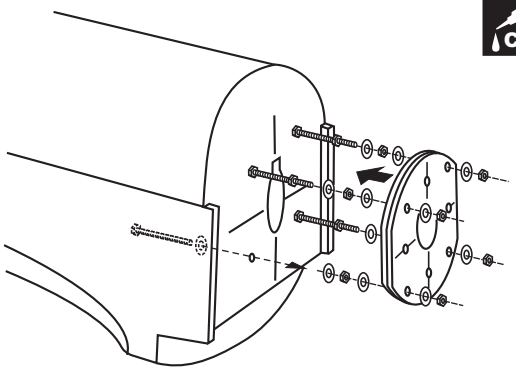


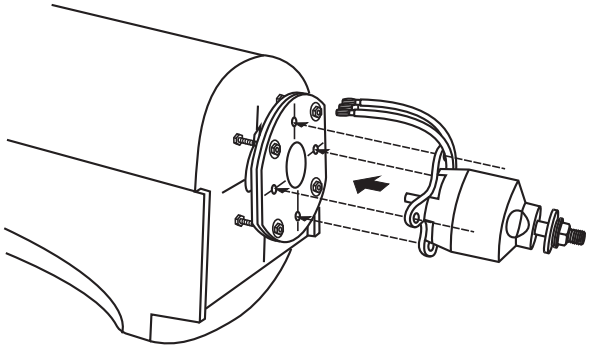


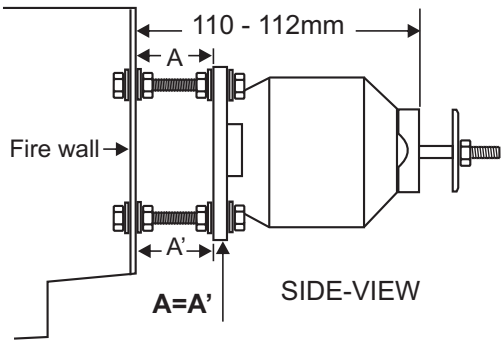
Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (2).

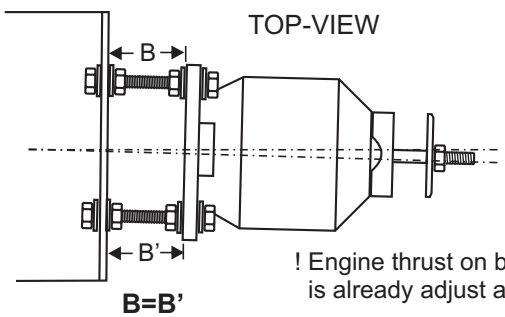
Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked .

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









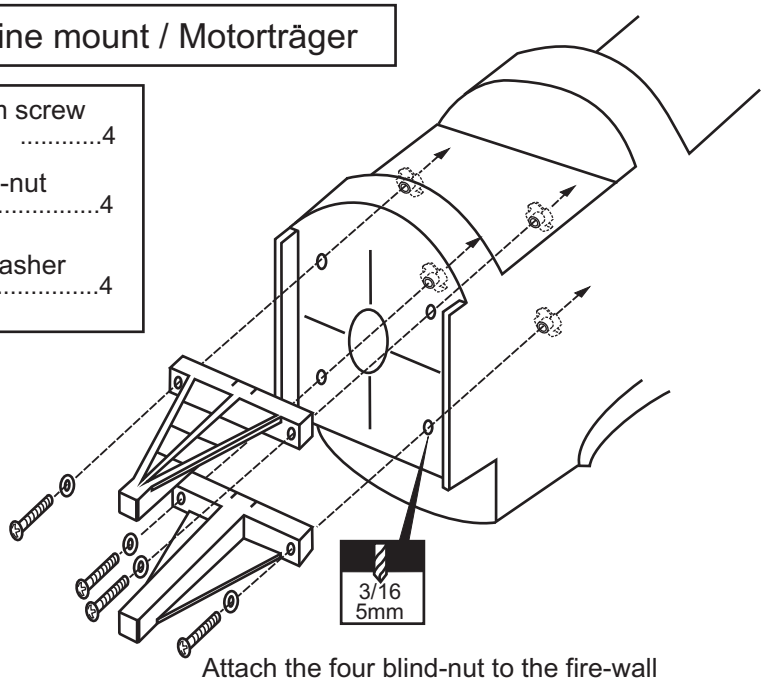
! Engine thrust on balk head is already adjust at factory

13- Engine mount / Motorträger

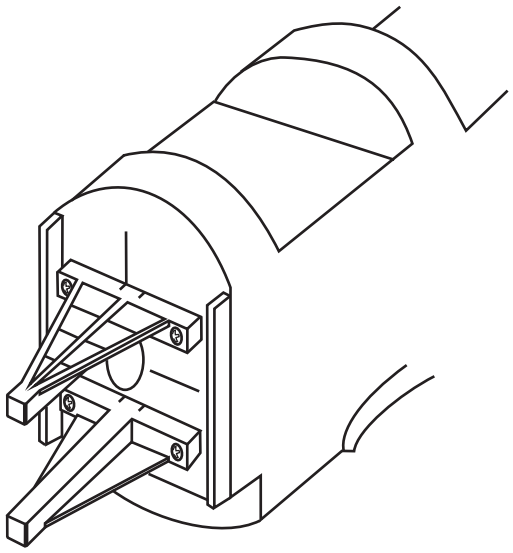
4x15mm screw 4

Blind-nut 4

4mm washer 4



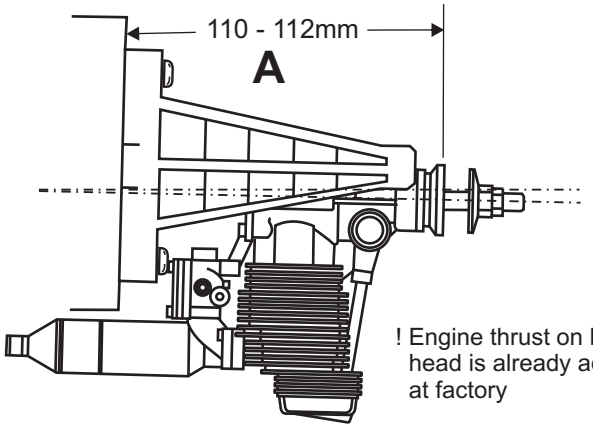
Attach the four blind-nut to the fire-wall



Reposition the engine mounts on to the fire-wall and secure them with four 4x25mm screws.

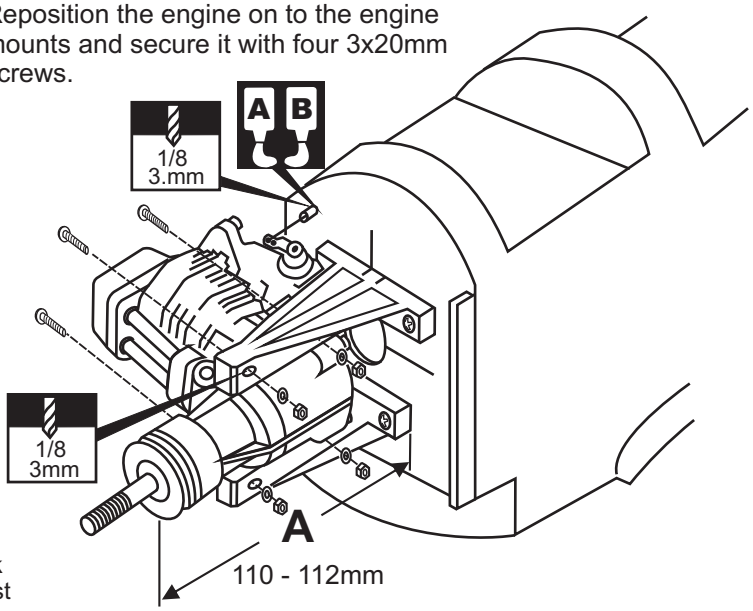
14- Engine (four stroke)

3x20mm screw / washer / nut 4

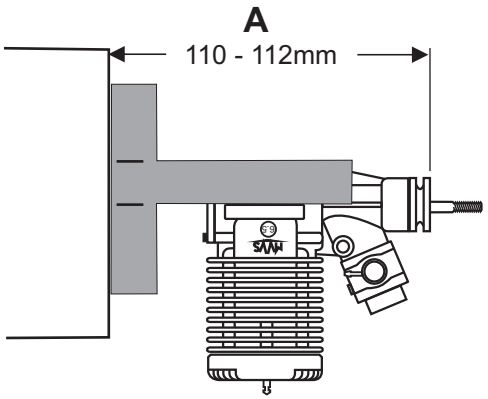


! Engine thrust on balk head is already adjust at factory

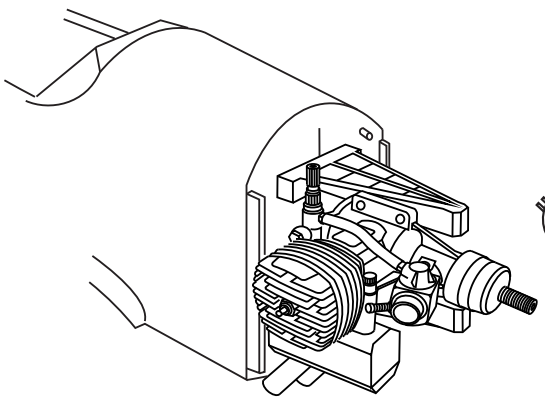
Reposition the engine on to the engine mounts and secure it with four 3x20mm screws.



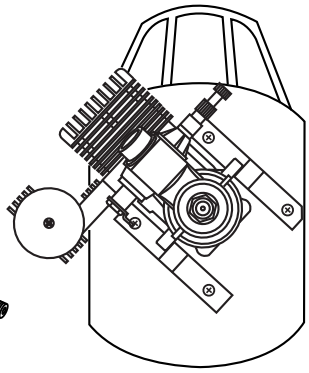
15- Engine (two stroke)



Determine the angle for the engine mounts so the muffler will not contact the fuselage

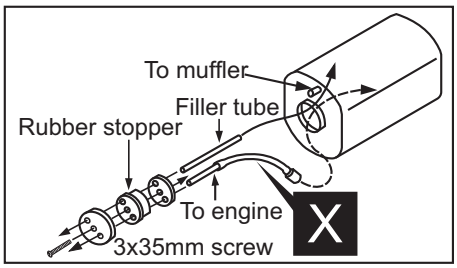


With hang silencer

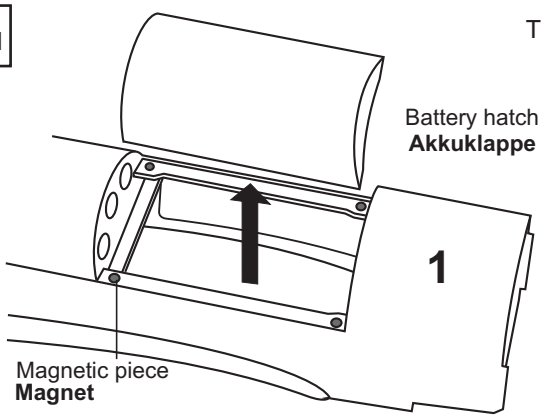


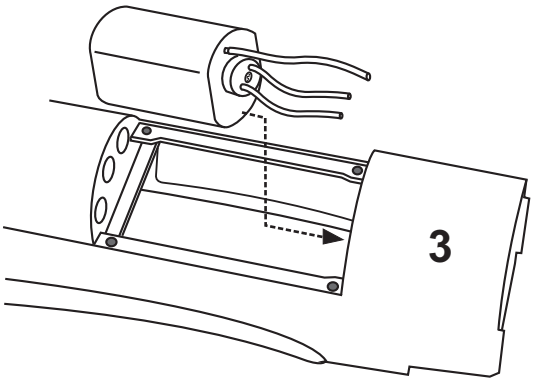
With side silencer

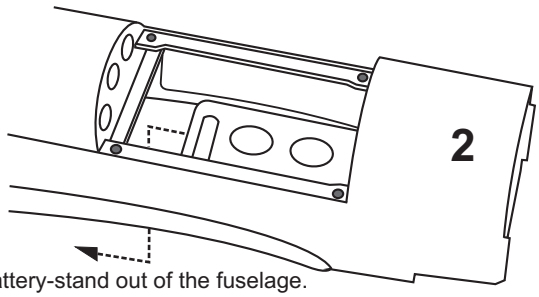
16- Fuel tank installation / Tankeinbau



TOP VIEW **Draufsicht**

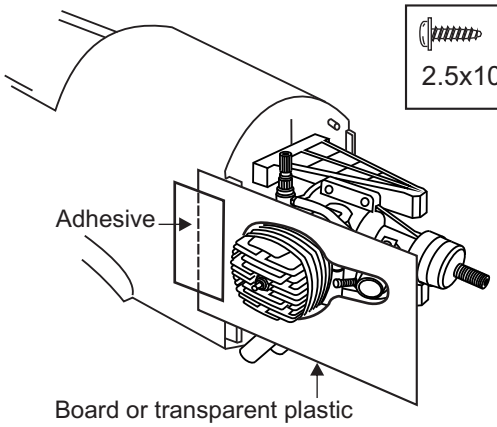




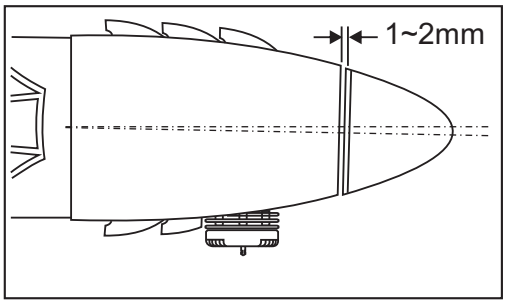


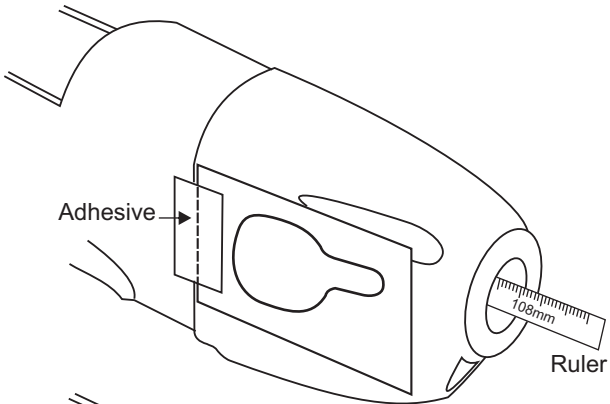
Remove the battery-stand out of the fuselage.

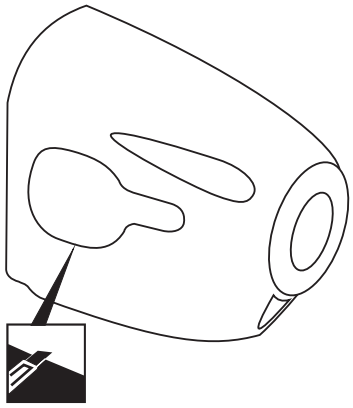
17- Cowling installation / Motorhaube

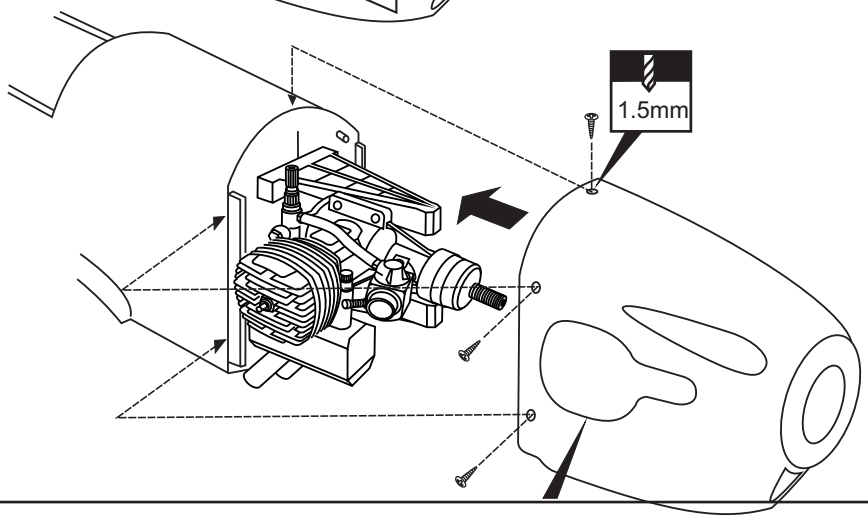


Attach the board or transparent plastic on the side of the fuselage with the adhesive as show.
Using a pencil or felt tipped pen trace around the engine head where it meet the cowl. Cut the opening the board or transparent plastic for the engine head as marked before.
Remove the engine and insert the cowl on to the fuselage so the distance from the fire wall to the front of the cowl is 108 - 110mm.
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.

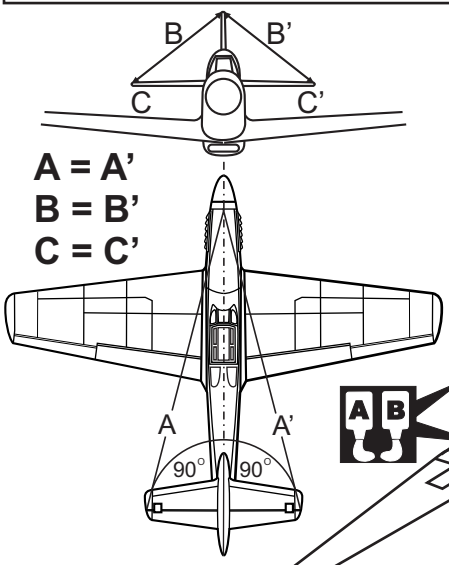






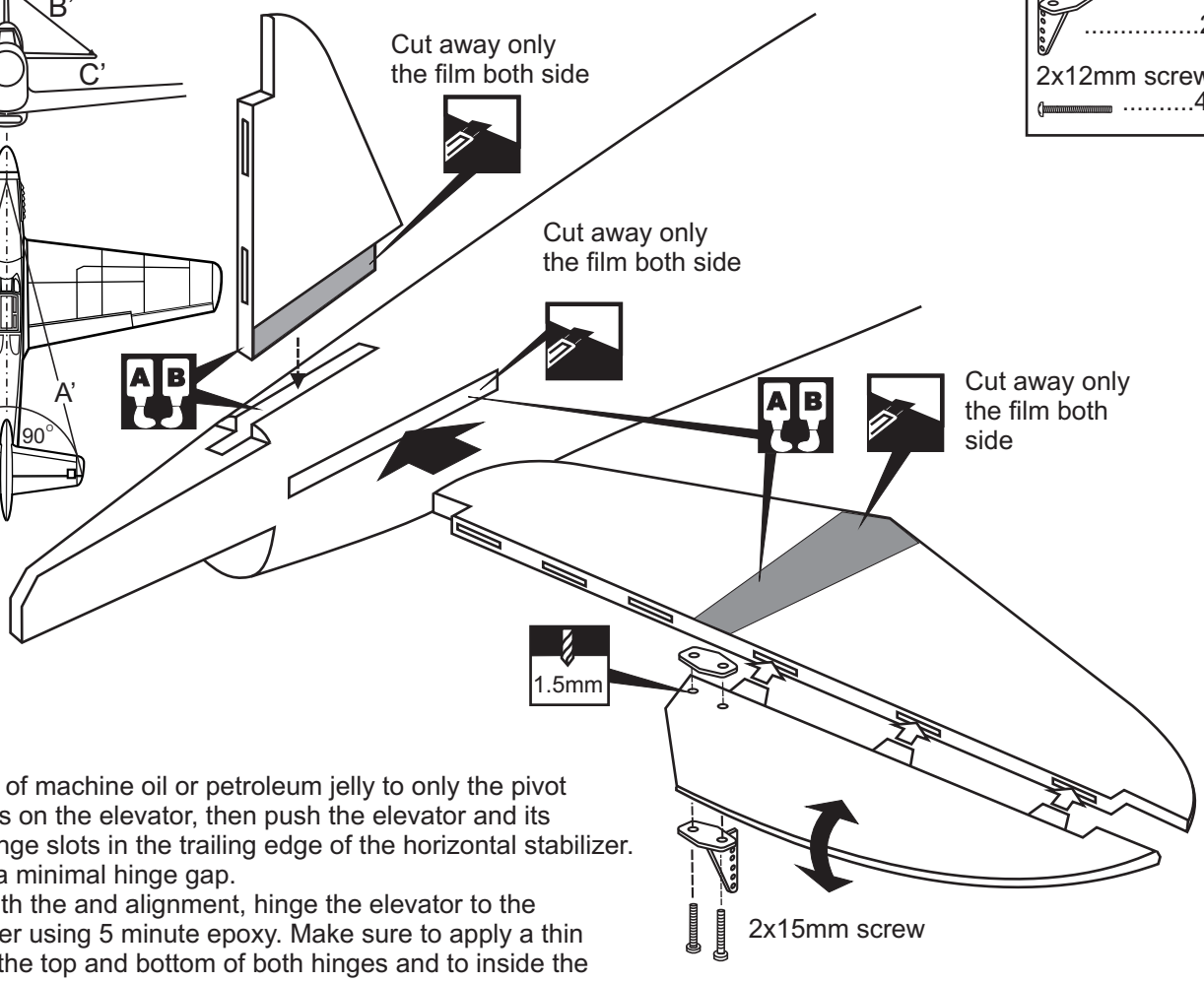


18- Vertical and Horizontal Tail / Leitwerk

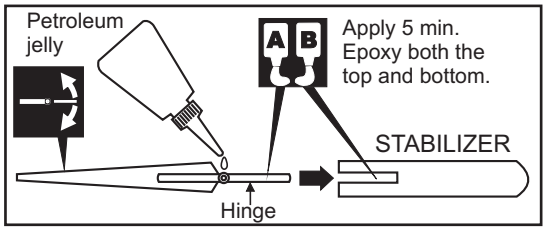


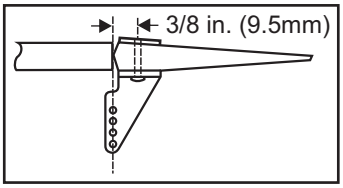
Control horn 2

2x12mm screw 4



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.





STEP 1: Installing the stabilizer (A=A' and C=C')

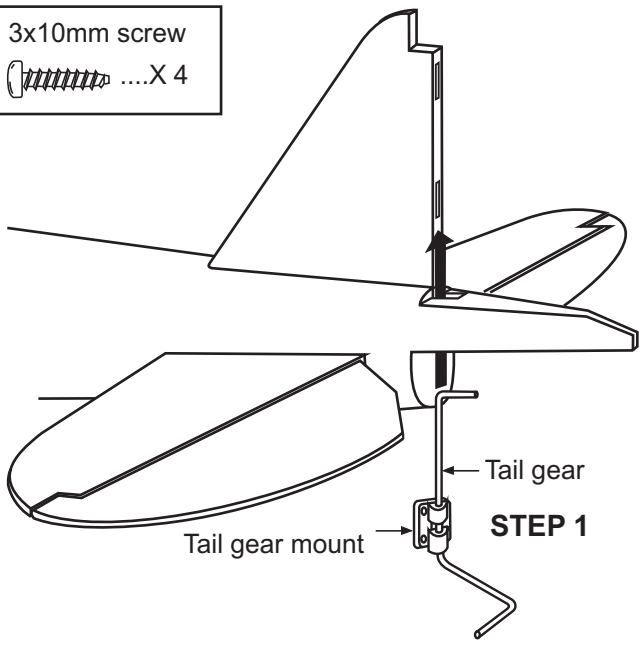
STEP 2: Installing the vertical fin (B=B')

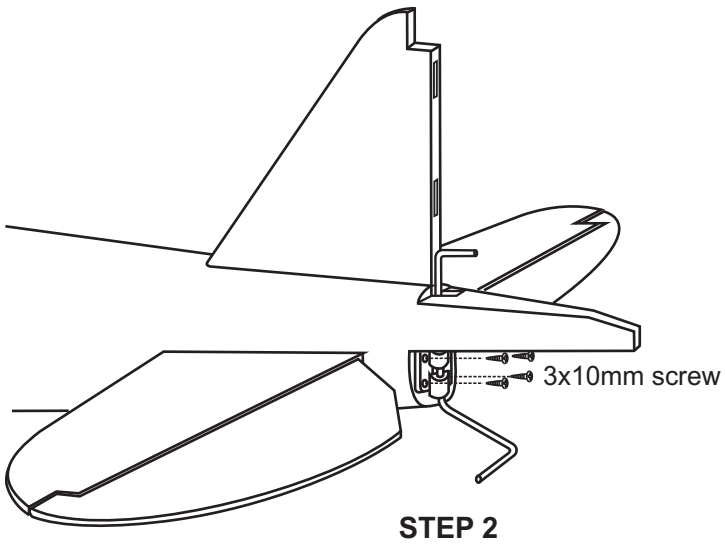
STEP 3: Installing the elevator (after the epoxy cured)

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

19 Tail gear installation / Heckfahrwerk

3x10mm screw ....X 4

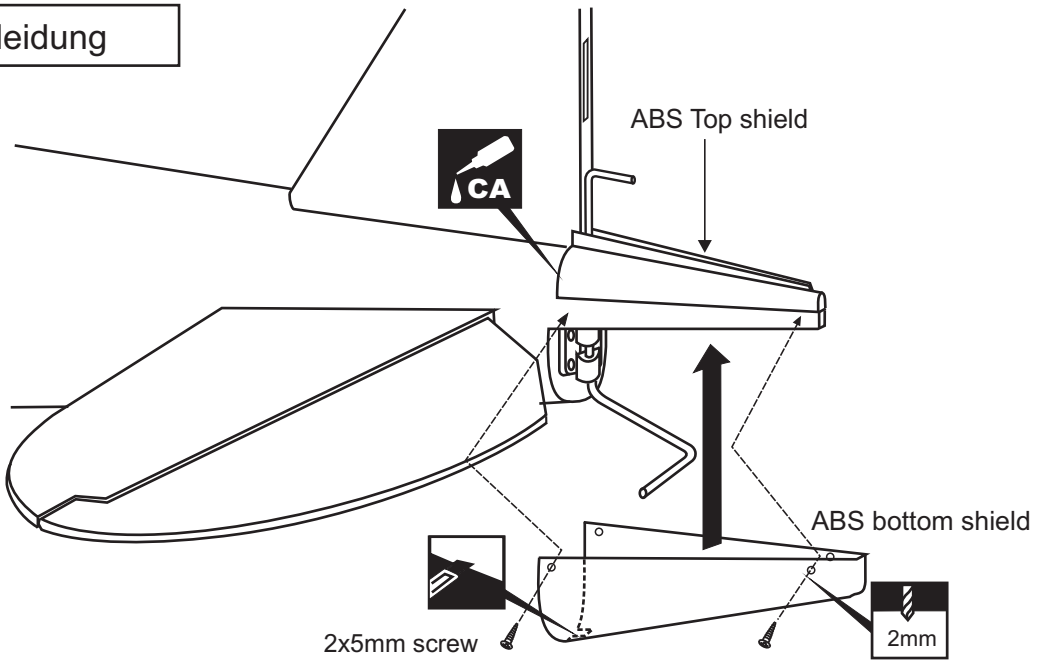




20- ABS Shield / ABS Verkleidung

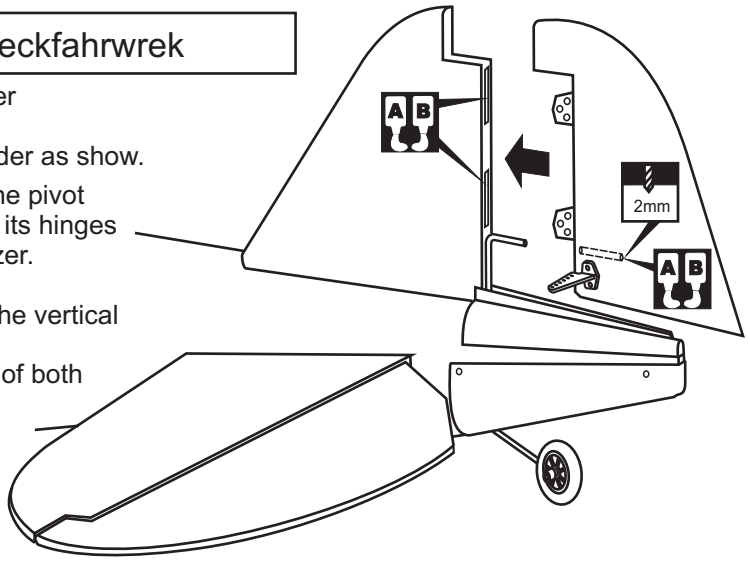
2x5mm screw X4

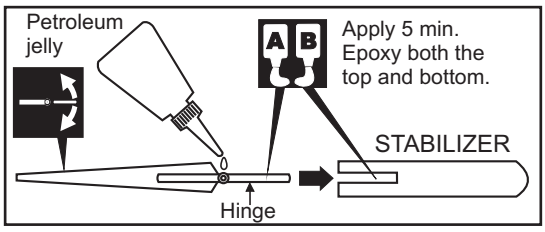
- Attach the ABS top shield in place and secure it with CA glue
- Attach the ABS bottom shield in place and secure it with four 2x5mm screws.

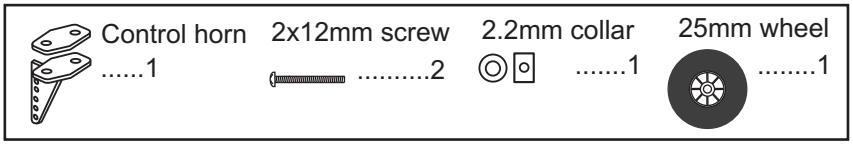


21 Rudder and tail wheel / Seitenruder und Heckfahrwrek

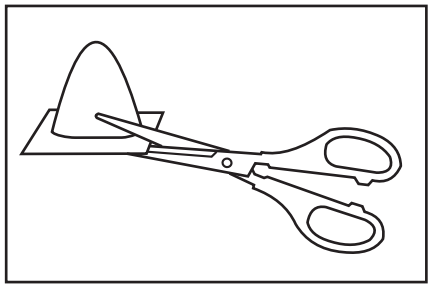
-Trial fit the rudder in position, using a pencil, mark the rudder where the hole is to be drilled.
-Remove the rudder and drill a 5/64”(2mm) hole into the rudder as show.
-Apply a thin layer of machine oil or petroleum jelly to only the pivot point of the hinges on the rudder, then push the rudder and 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.
-Slide the tail wheel onto the tail landing gear. Secure it in place using 2mm wheel collar.

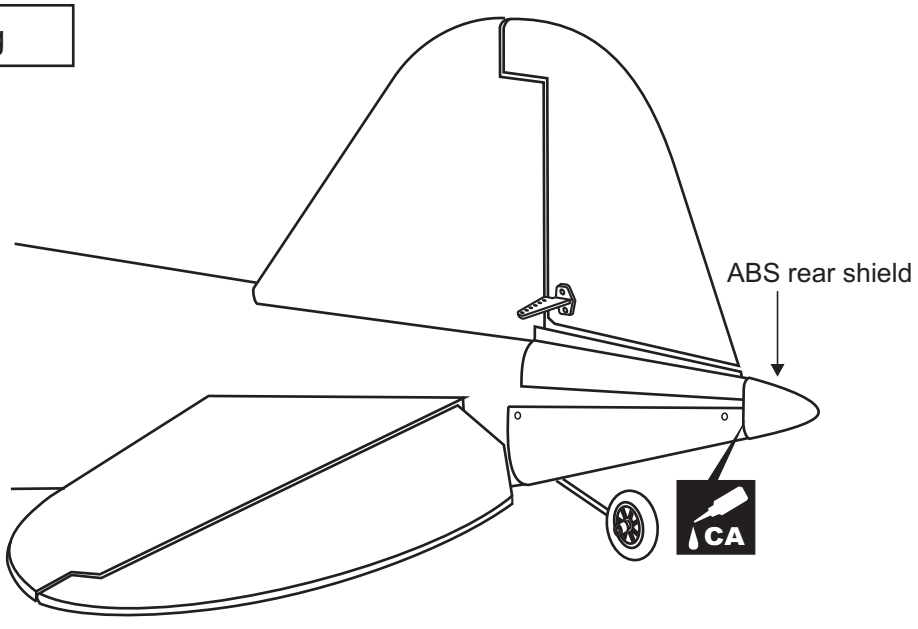




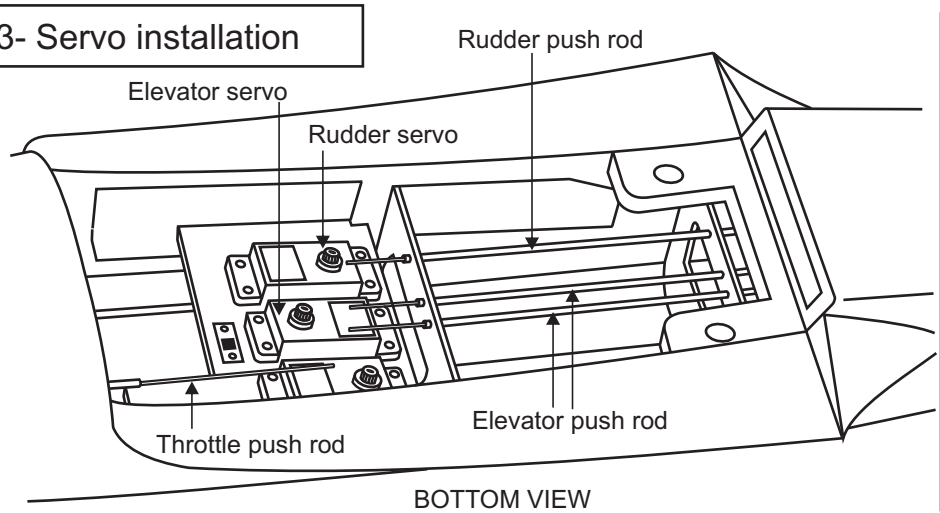


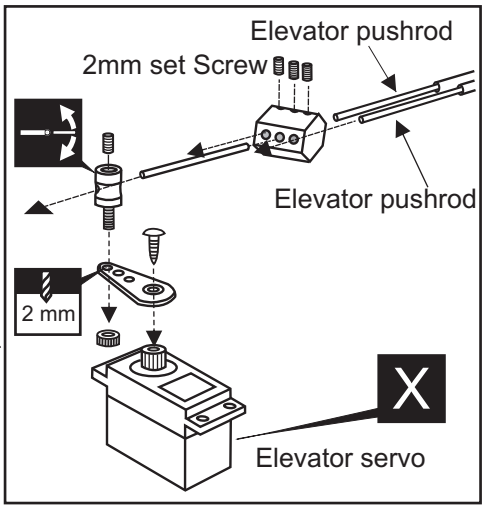
22- ABS Shield / ABS Verkleidung



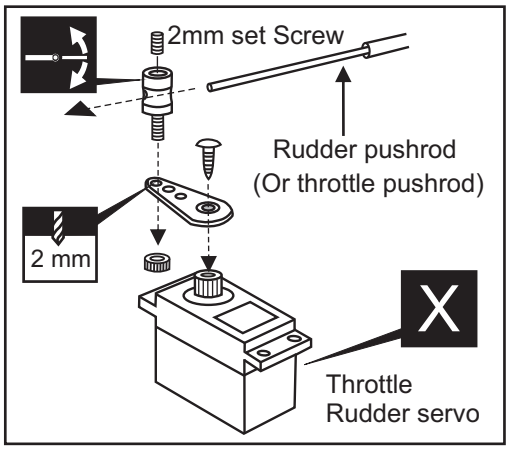


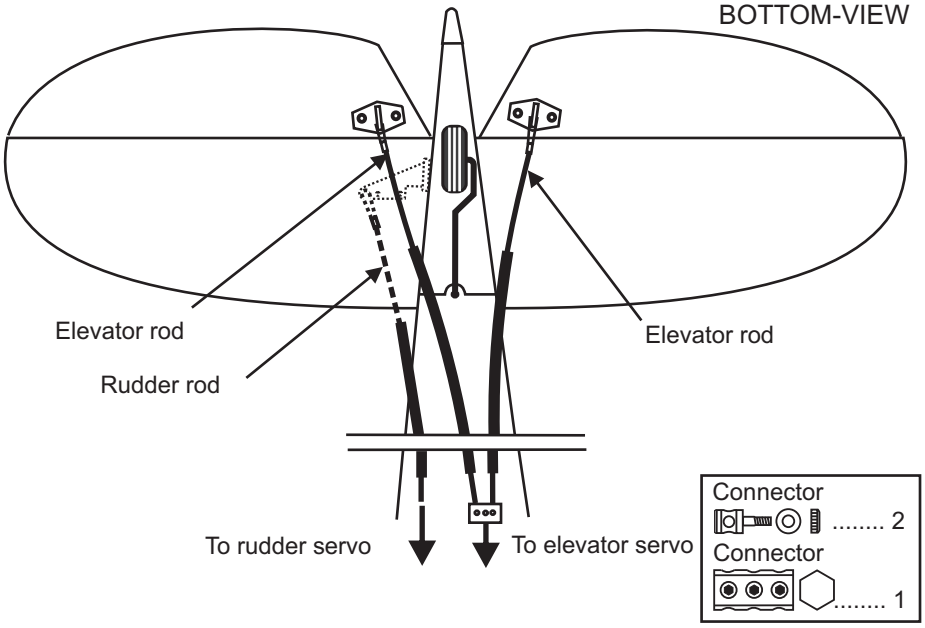
23- Servo installation





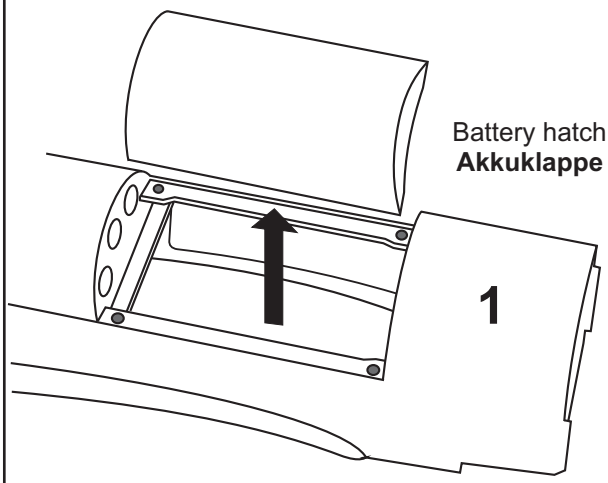
24- Linkages / Anlenkungen

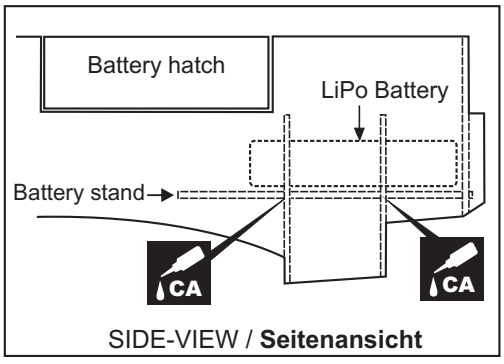


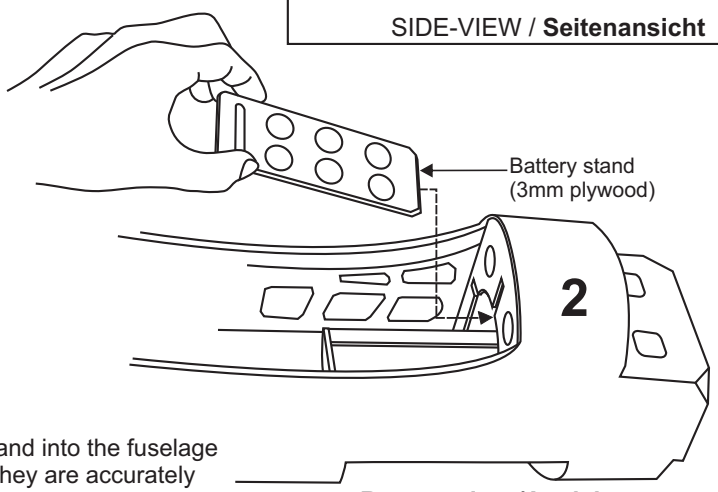


25- Lipo Battery installation / LiPo Akku

TOP VIEW **Draufsicht**



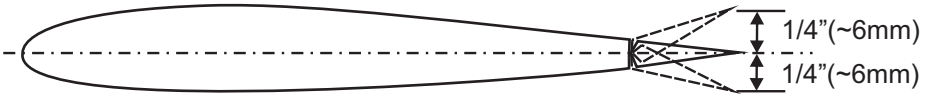




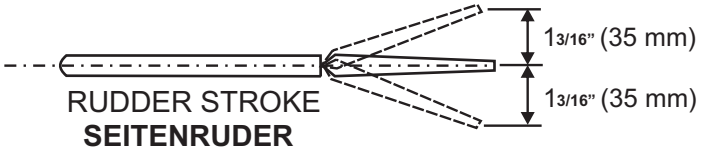
Slide the Lipo battery stand into the fuselage as show. Ensuring that they are accurately aligned. Secure it in place using CA glue.

Bottom view /Ansicht von unten

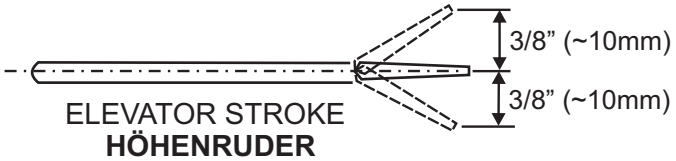
26- Control surface
Ruderausschlage



AILERON STROKE
QUERRUDER

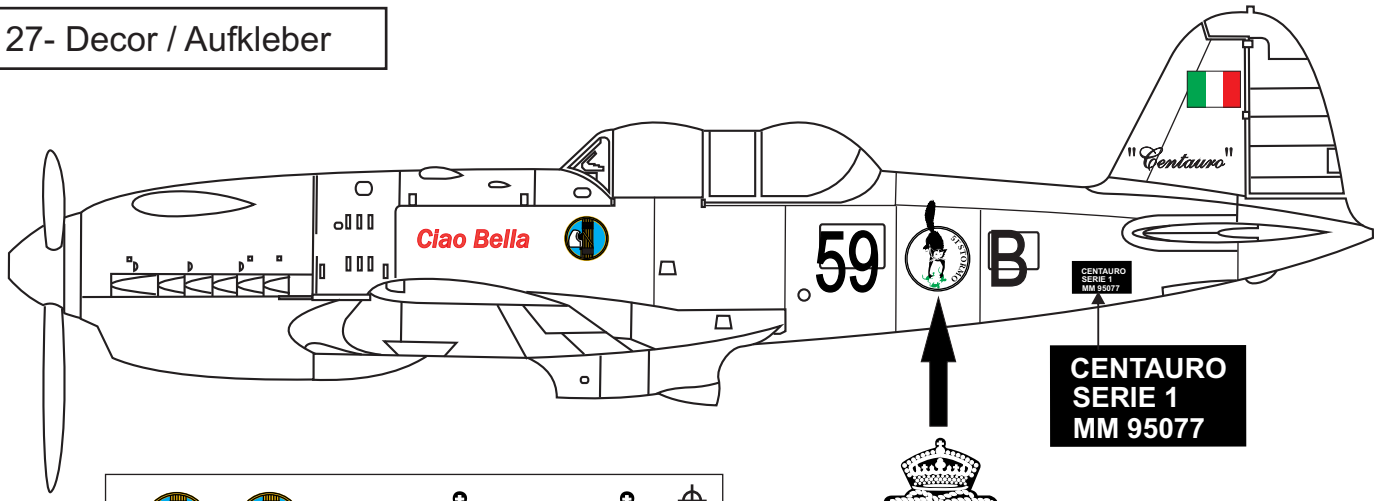


RUDDER STROKE
SEITENRUDER



ELEVATOR STROKE
HÖHENRUDER

27- Decor / Aufkleber



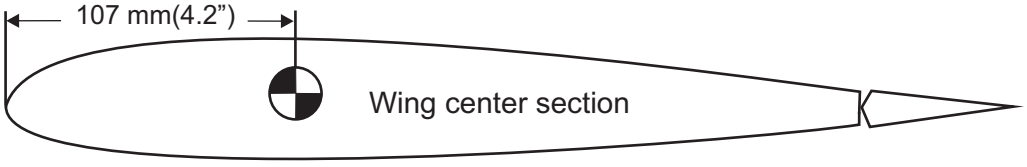
CENTAURO
SERIE 1
MM 95077

OR

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

28- Balance / Schwerpunkt

DO NOT try to fly an out-of-balance model !
The recommended C.G (Center of Gravity) location for the Macchi is 106 - 108mm (~4.2”). Adjust the location of the battery pack as required to achieve this C.G location.



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