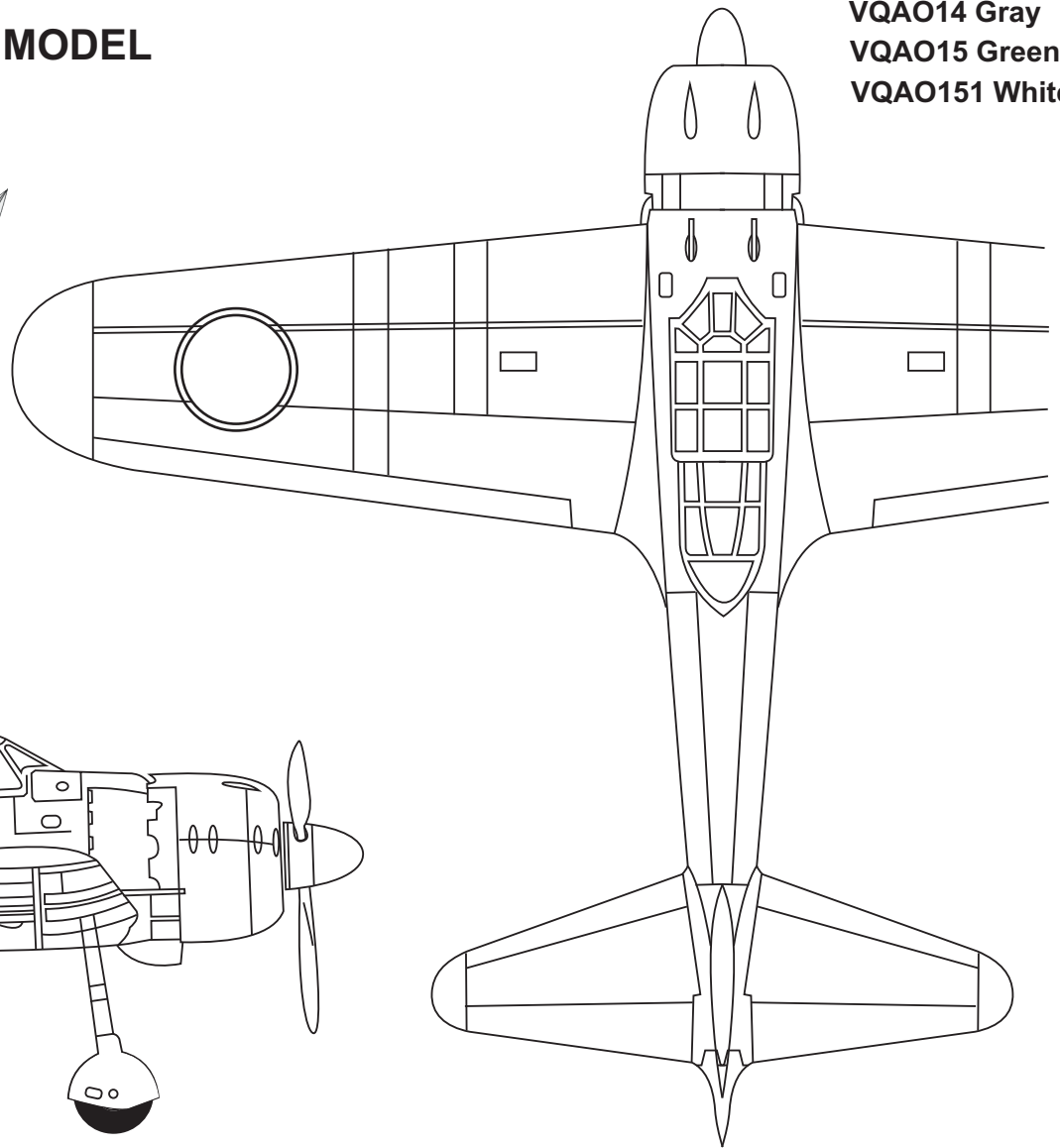


RADIO CONTROL MODEL R/C FLUGMODEL



VQAO14 Gray
VQAO15 Green
VQAO151 White



BUILDING INSTRUCTIONS / MONTAGEANLEITUNG

SPECIFICATIONS

Wingspan	1580mm
Length	1160mm
Flying weight	2700g
Electric Motor	700 Watt
Glow Engine	7.5cc 2T / 11cc 4-T
Radio	5 Channel / 5 Servos

Technische Daten

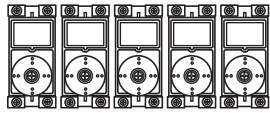
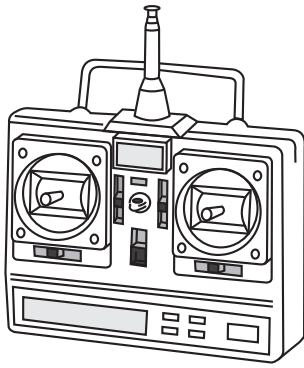
Spannweite	1580mm
Länge	1160mm
Fluggewicht	2700g
Elektroantrieb	700 Watt
Verbrennerantrieb	7.5cc 2T / 11cc 4T
Fernsteuerung	5 Kanal / 5 Servos

MITSUBISHI A6M5 “ZERO”

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.

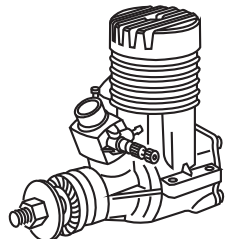
OPTIONAL ACCESSORIES / BENÖTIGTES ZUBEHÖR



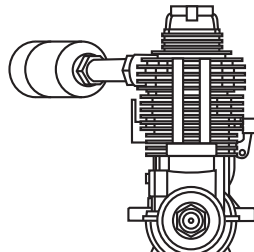
Minimum 5 channel radio for airplane with 5 servos
 .Motor control x1 .Aileron x2
 .Elevator x1 .Rudder x1



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 Brushless Motor



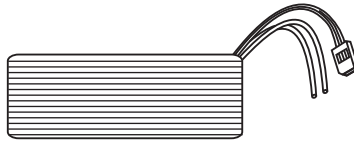
.46 ~ .50 - 2 cycle



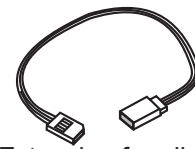
.60 ~ .70 - 4 cycle



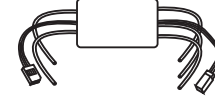
Silicone tube



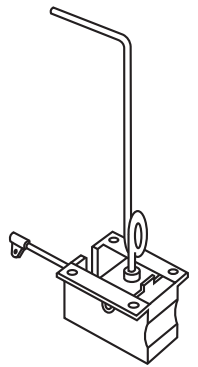
Li-Po Battery



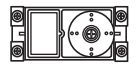
Extension for aileron servo, retract servo.



ESC-60A



Retract landing gear VQAR04



Retract servo x1



Linkage Stopper x2 (for retract servo)

GLUE (Purchase separately)



Silicon sealer

Cyanoacrylate Glue
 Klebstoff



EPOXY A

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



EPOXY B

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

TOLLS REQUIRED (Purchase separately)


Hobby knife 

Phillip screw driver 

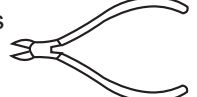
Hex Wrench 

Needle nose Pliers 

Scissors 

Awl 

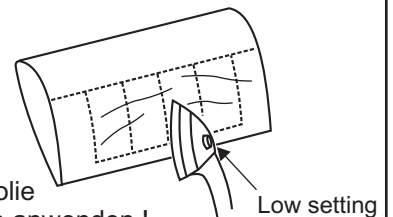
Sander 


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!





 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.

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

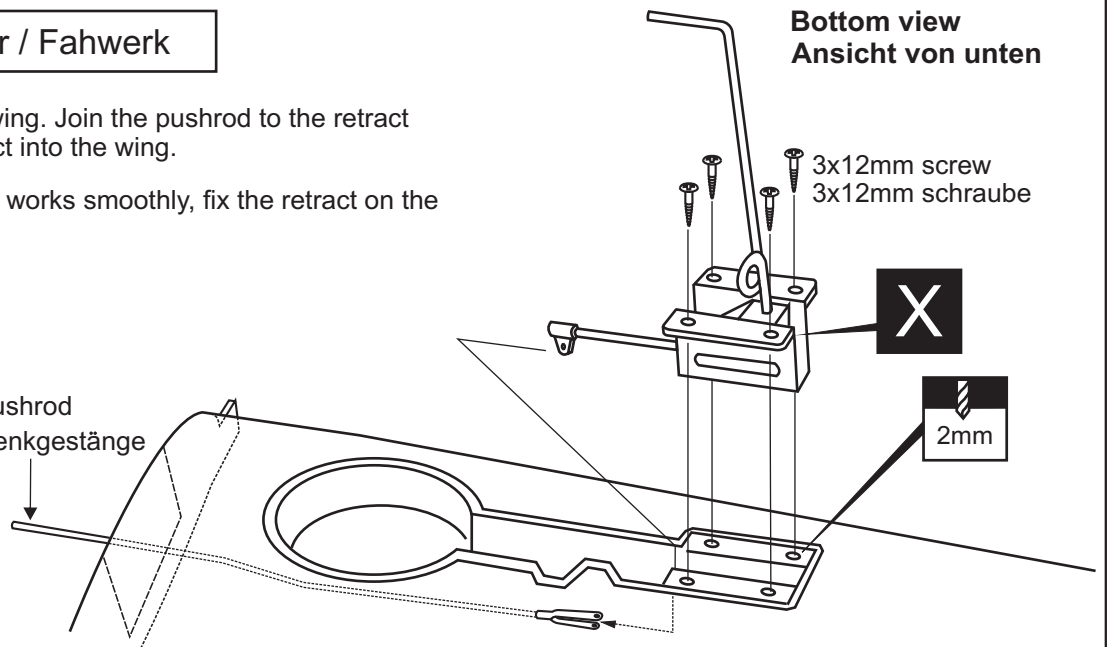
Trial fit the push rod into the wing. Join the pushrod to the retract gear arm and trial fit the retract into the wing.

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

L/R

Retract pushrod
Fahrwerkanlenkgestänge

Steel clevis2
3x12mm screw8



Bottom view
Ansicht von unten

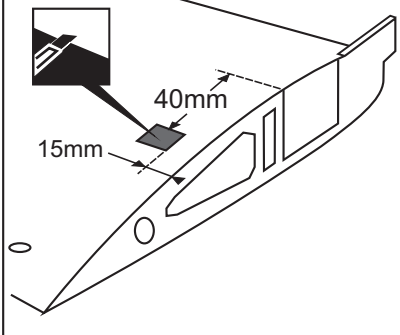
3x12mm screw
3x12mm schraube

2mm

2- Aileron servo / Querruder servo

Bottom view / Ansicht von unten

Top view / Ansicht von Oben



Aileron extension cord
Servoverlängerungskabel

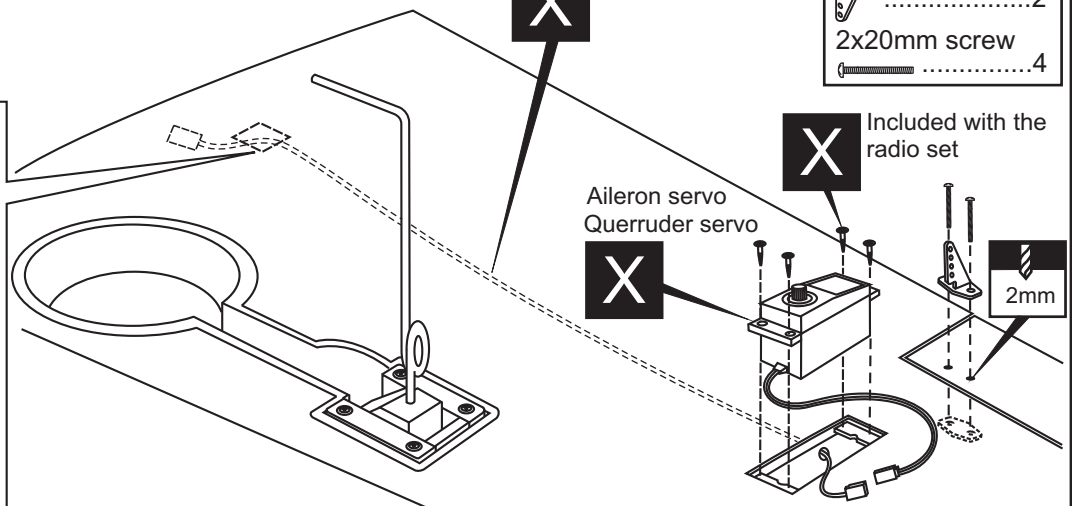
Plastic control horn

Plastic control horn2
2x20mm screw4

Aileron servo
Querruder servo

Included with the radio set

2mm

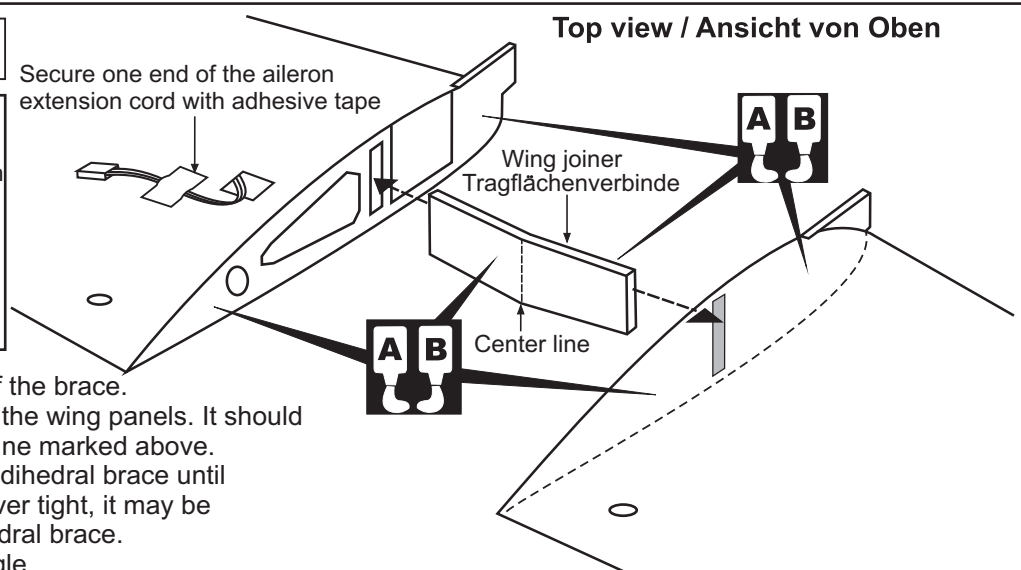


3- Joining the wing / Fläche

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



Secure one end of the aileron extension cord with adhesive tape



Top view / Ansicht von Oben

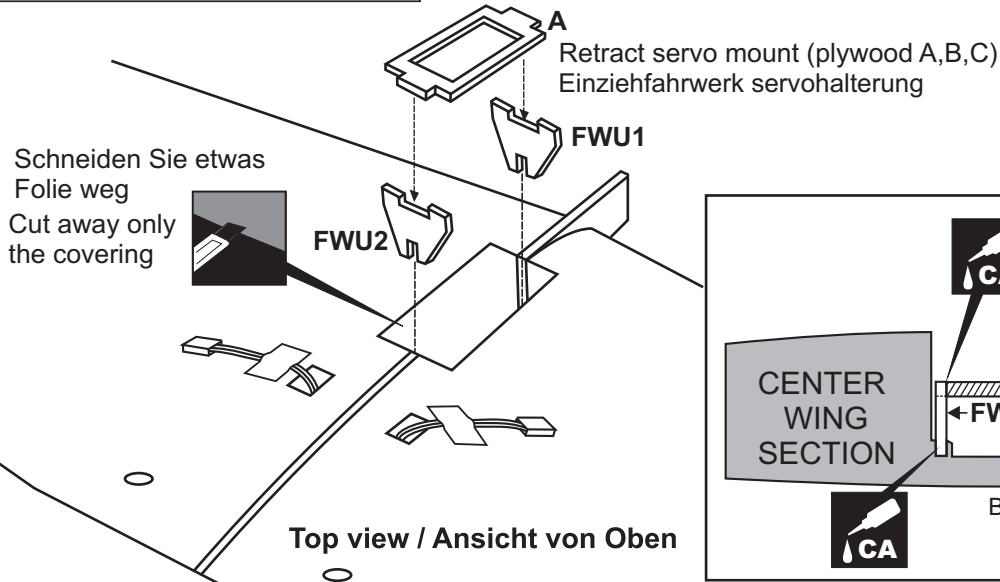
Wing joiner
Tragflächenverbinde

Center line

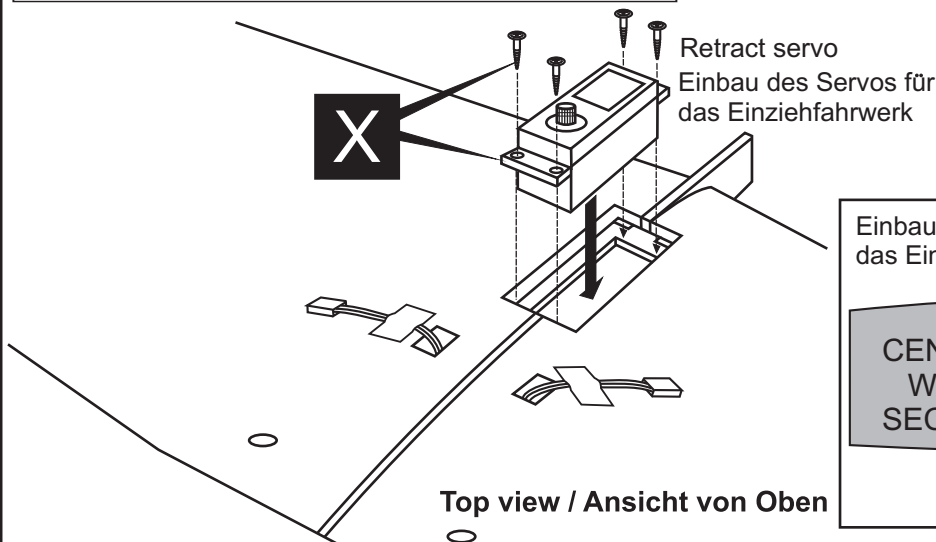
- 1- Using a pencil, mark the center of the brace.
- 2- Trial fit the wing joiner into one of the wing panels. It should insert smoothly up to the center line marked above.
- 3- Slide the other wing half onto the dihedral brace until the wing panel meet. If the fit is over tight, it may be necessary 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

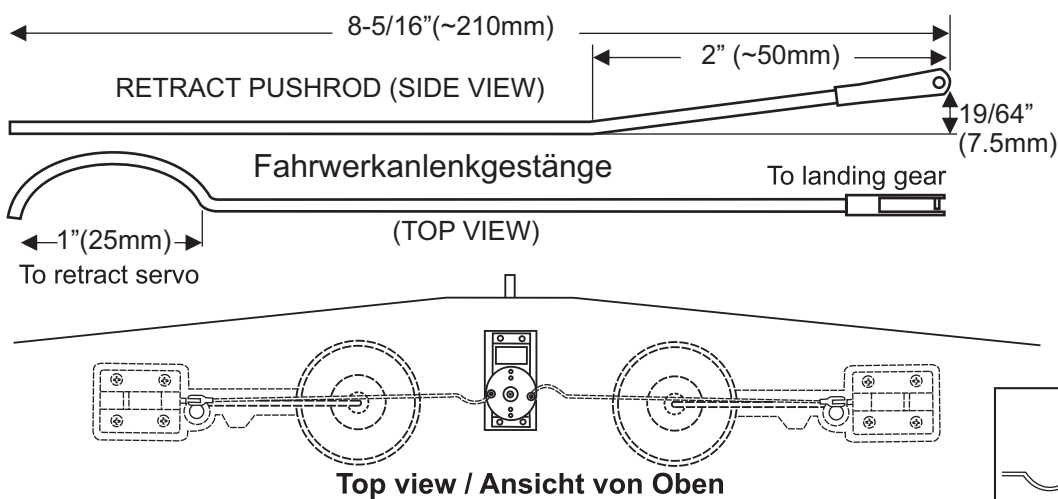


Install the retract servo onto the retract servo mount and secure it in place with four screw (included with radio set).

Einbau des Servos für / Retract servo das Einziehfahrwerk

6- Linkages / Ruderanlenkung

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

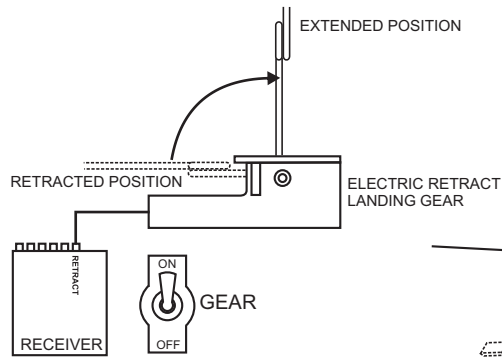


Einbauhilfe bei Anbringen eines Einziehfahrwerks (Optional bestellbar; nicht im Baukasten enthalten!)

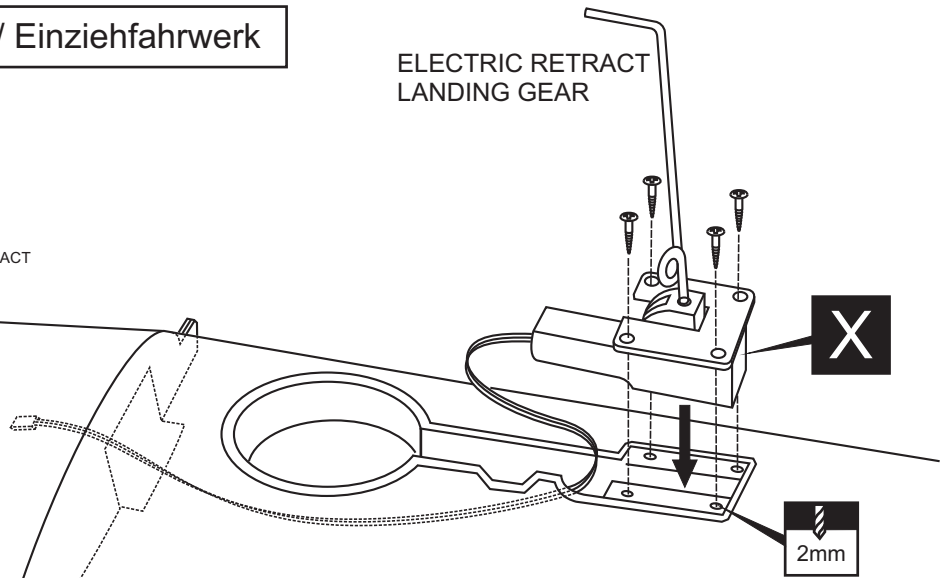
With the retract and retract servo in the retracted position, mark the position where each of the pushrod will attach to the servo arm, a small piece of masking tape works well for this. Cut off the excess length each rod.

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- Electric retract landing gear / Einziehfahrwerk



ELECTRIC RETRACT LANDING GEAR



Bottom view / Ansicht von unten

8- Fixed gear / Starres Fahrwerk

3x12mm screw

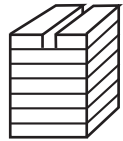
.....8

3x20mm screw

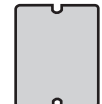
.....16

Nylon gear strap

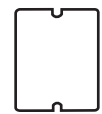
.....4



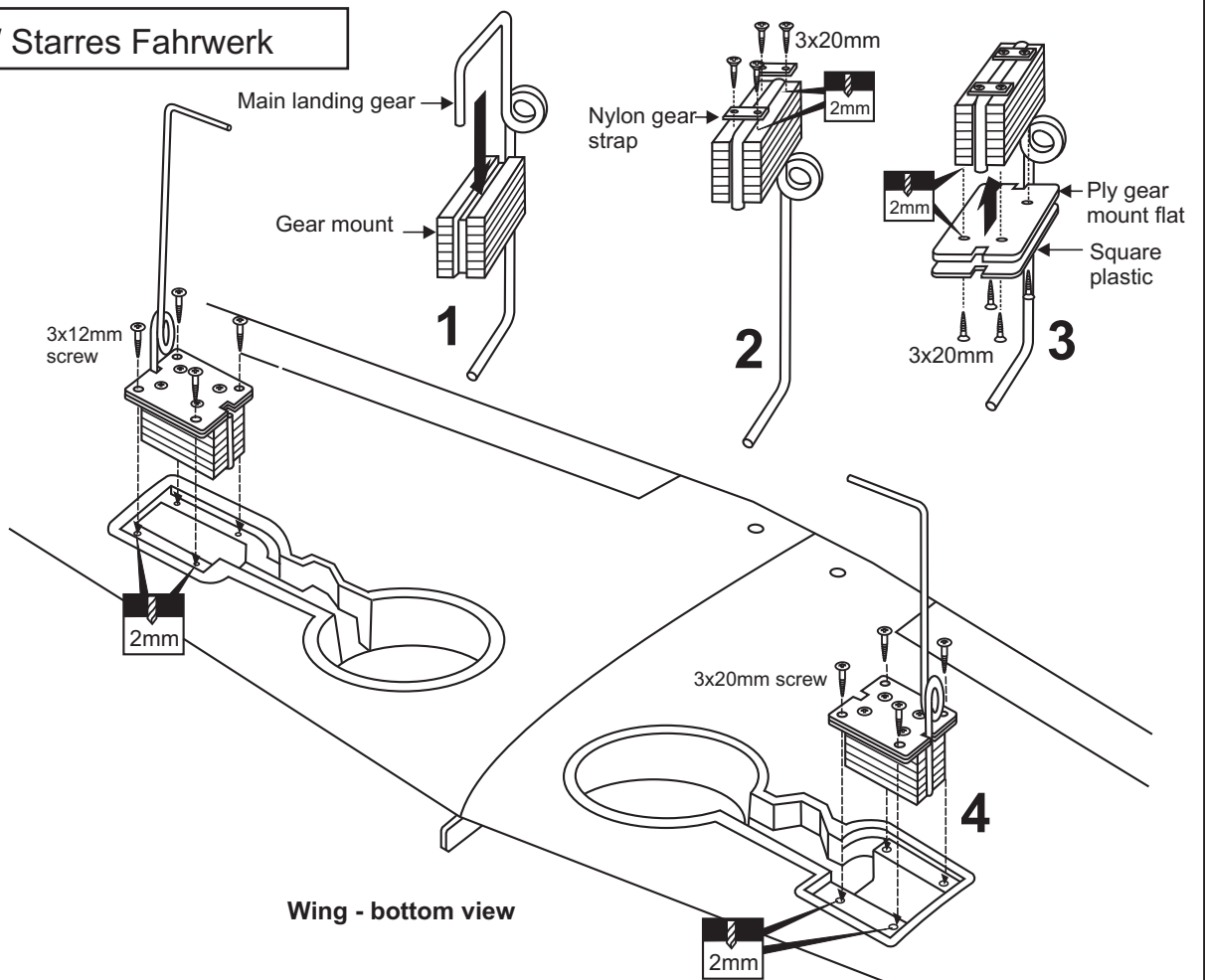
Gear mount x 2



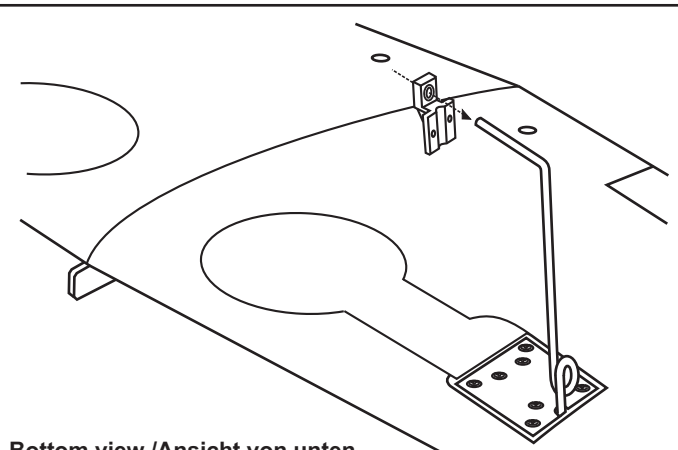
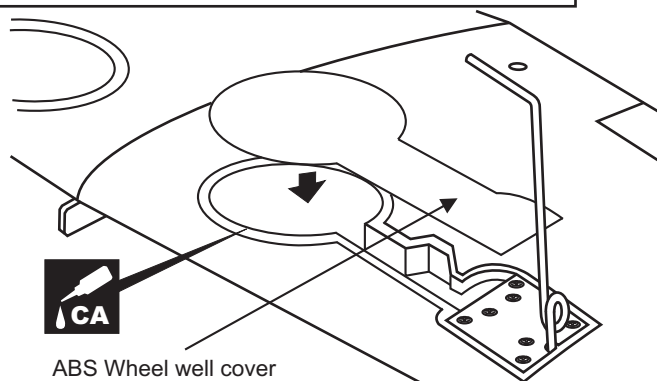
Ply gear mount plate x 2



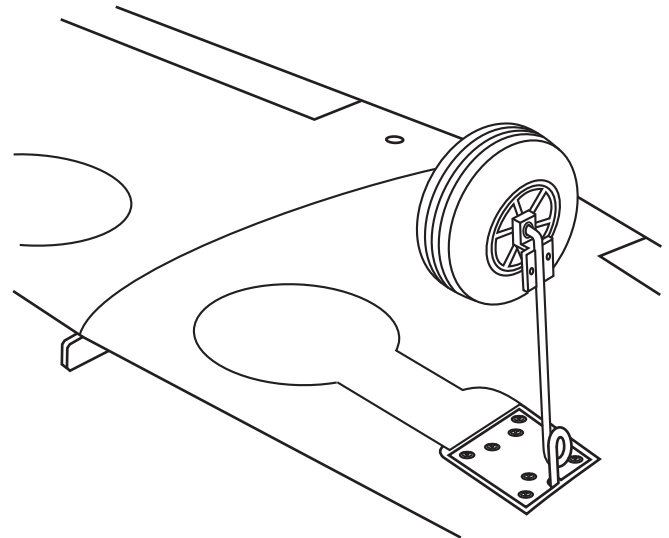
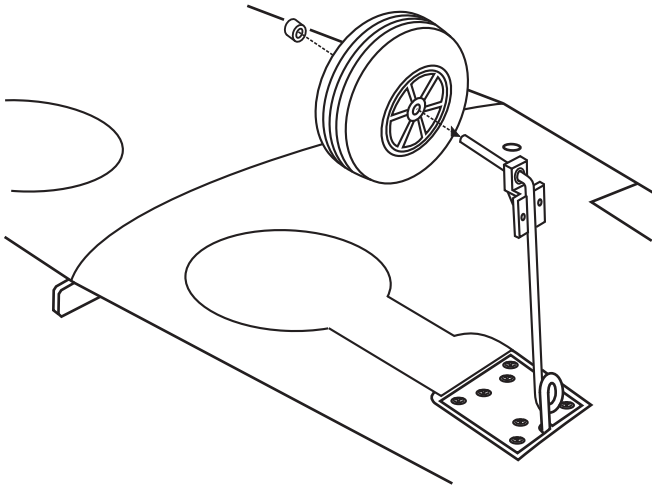
Square plastic x 2



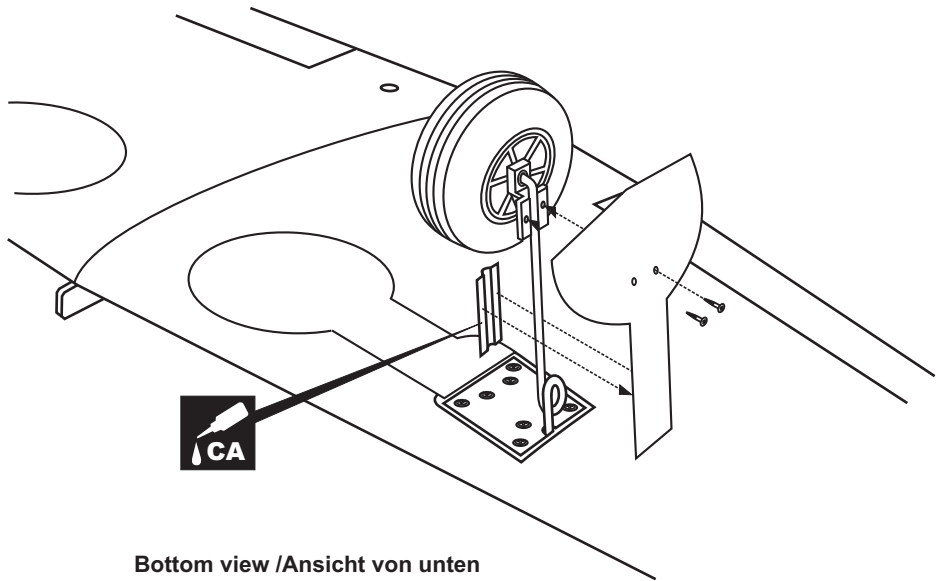
9- Fixed gear / Starres Fahrwerk




10- Fixed gear / Starres Fahrwerk

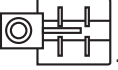



Bottom view / Ansicht von unten




Bottom view / Ansicht von unten

2x6mm screw
4

2 4mm collar
2

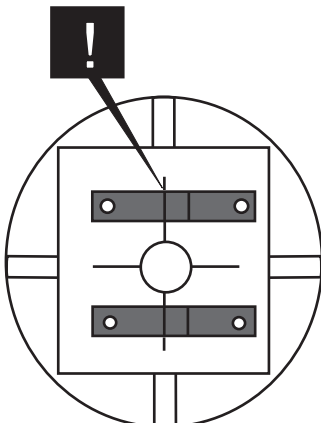
11- Engine mount / Motoreinbau

Blind-nut
4

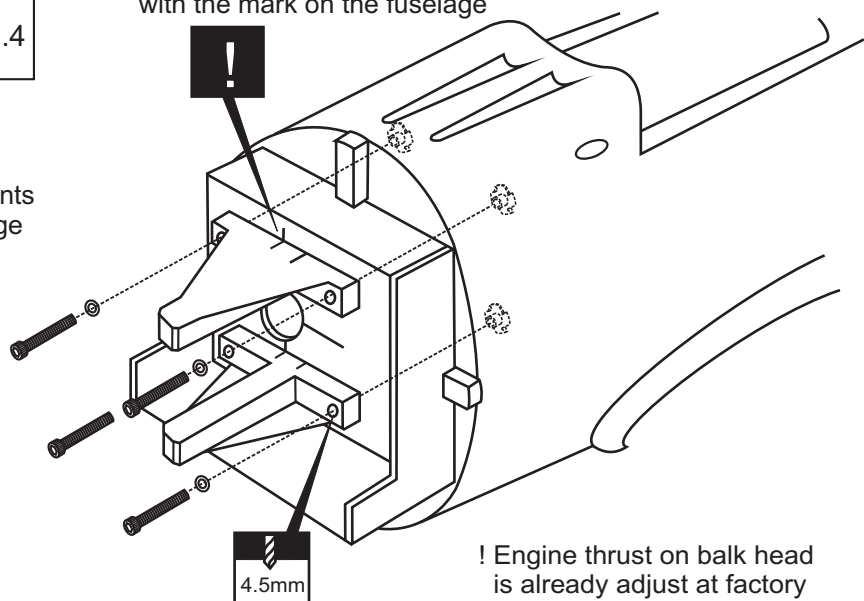
5/32x1"
 4x25mm screw
4

! Align the mark on both mounts
 with the mark on the fuselage

! Align the mark on both mounts
 with the mark on the fuselage



FRONT-VIEW Vorderansicht



4.5mm

! Engine thrust on balk head
 is already adjust at factory
Sturz und Zug beachten!

12- Four-stroke engine / 4T Motor

3x25mm screw

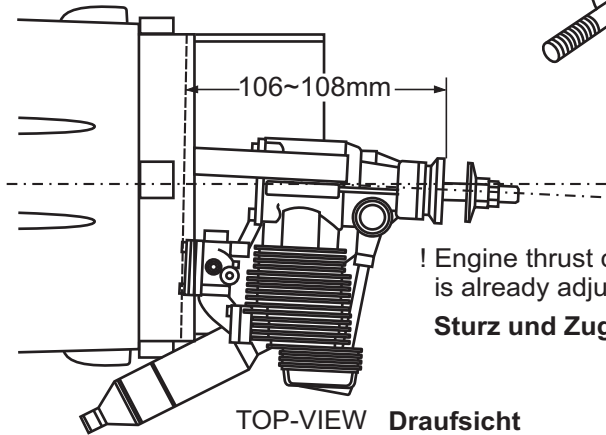


Nut.....4

3x25mm screw

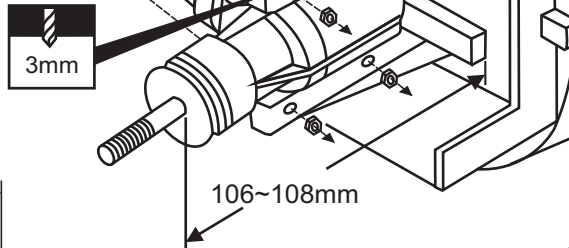
3mm

3.2mm

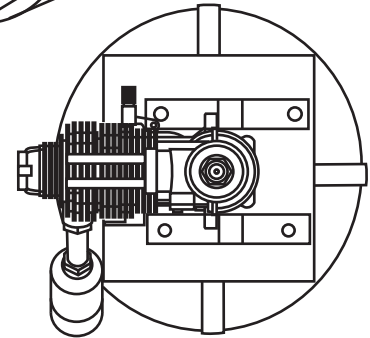


TOP-VIEW Draufsicht

! Engine thrust on balk head is already adjust at factory
Sturz und Zug beachten!

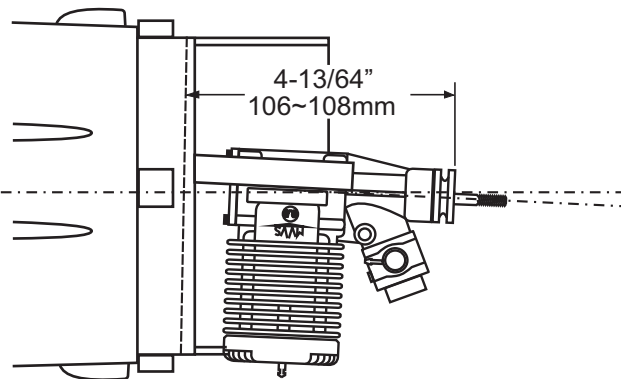


106~108mm



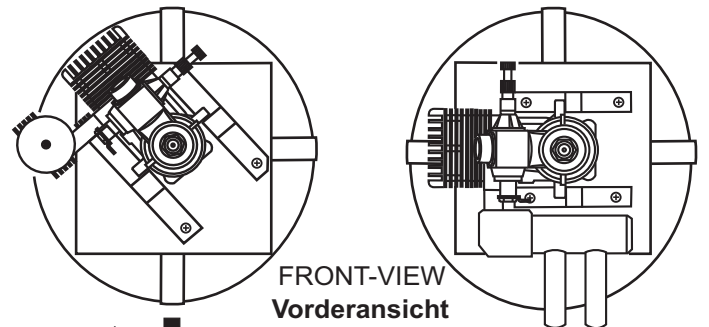
FRONT-VIEW Vorderansicht

13- Two-stroke engine / 2T Motor



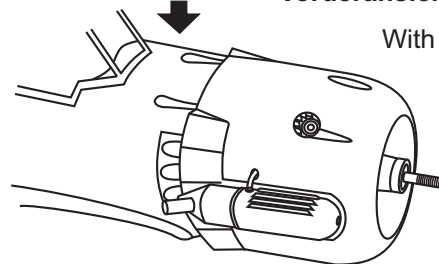
TOP-VIEW Draufsicht

! Engine thrust on balk head is already adjust at factory



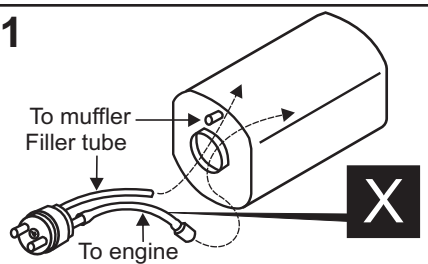
FRONT-VIEW Vorderansicht

With hang silencer (Pitts-style)

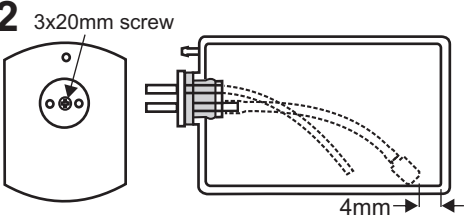


14- Fuel tank installation / Tankeinbau

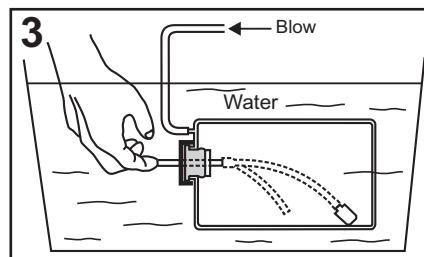
1



2



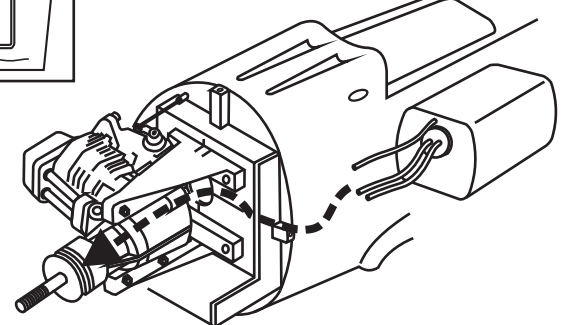
3



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.

! Secure install the fuel tank, ensuring it will not rattle during flights.

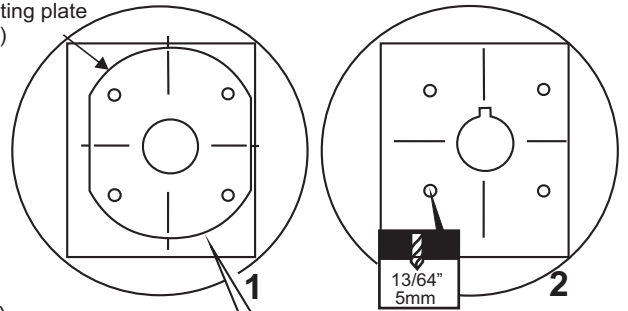
After confirming the direction . Insert this assembly, clunk end first, into the fuel tank and tighten and screw the fuel tank cap on firmly.



15- Electric motor/Elektromotor

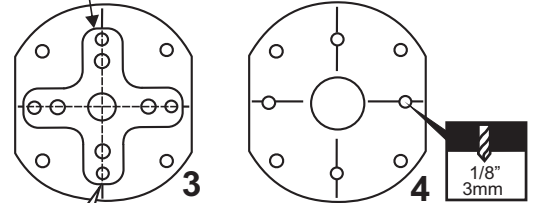
- Using a plywood motor mounting plate as a template, mark the fire wall where the four holes are to be drilled (1).
- Remove the plywood motor mounting plate and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked (2).
- Using an aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (3).
- Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked (4).
- Push the four 5x70mm bolts through the fire-wall as shown (5).
- Reposition the plywood motor mounting plate (2pcs) and secure it in place with eight 5mm nuts and washers (6).
Note: B=B'(Side-view) and A=A'(Top-view)
- Attach the aluminum motor mounting plate on to the motor and secure it in place with four screws (included with motor set) (7).
- Attach the motor on to the plywood motor mounting plate and secure it in place with four 3x15mm (1/8x19/32") screws(8).

Plywood motor mounting plate (2pcs)

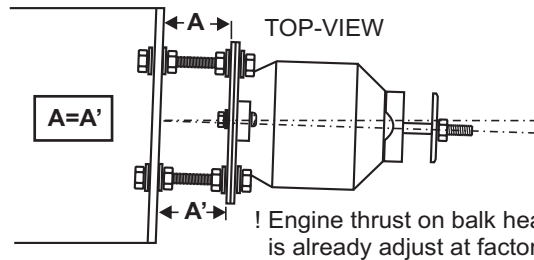
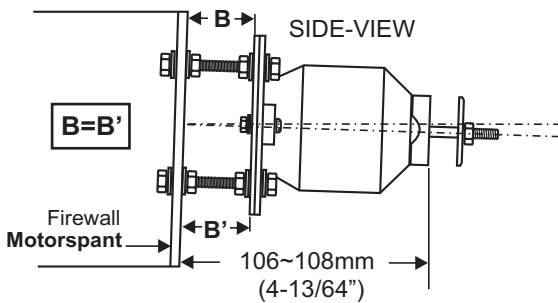
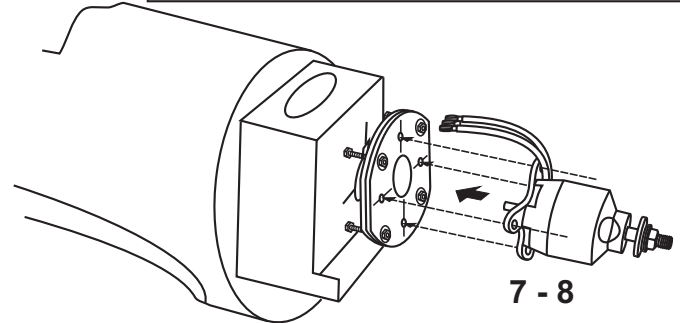
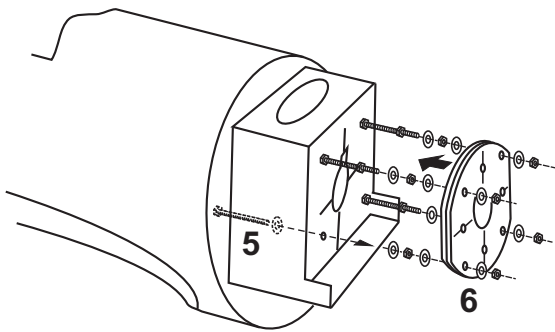


Aluminum motor mounting plate

! Align the mark on the plywood motor mount with the mark on the fuselage.



! Align the mark on the plywood motor mount with the center lines on aluminum motor mount.

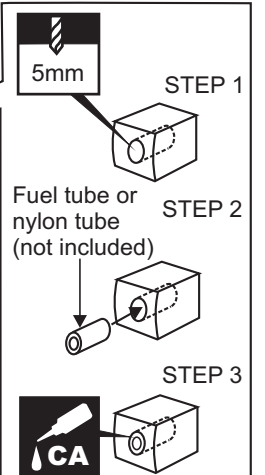
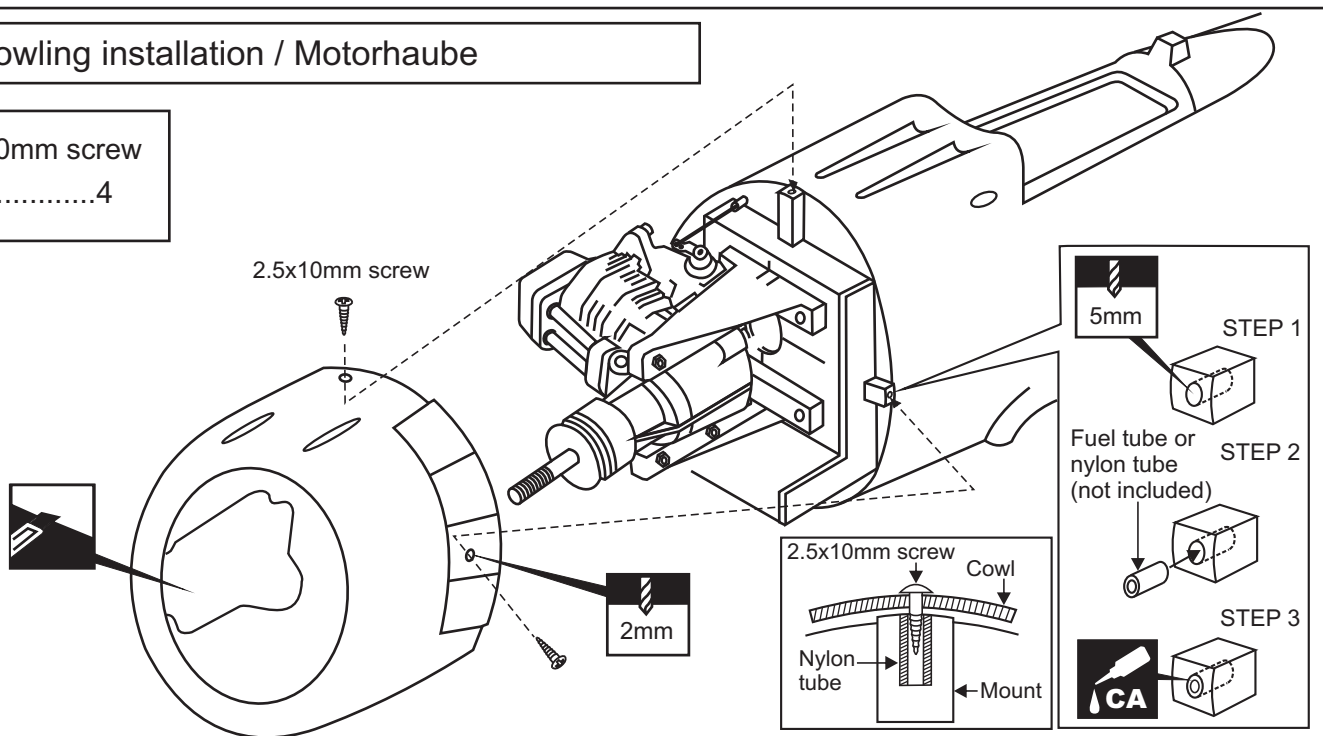


	5x70mm.....4
	5mm nut.....12
	5mm washer...16
	3mm screw/nut...4

16- Cowling installation / Motorhaube

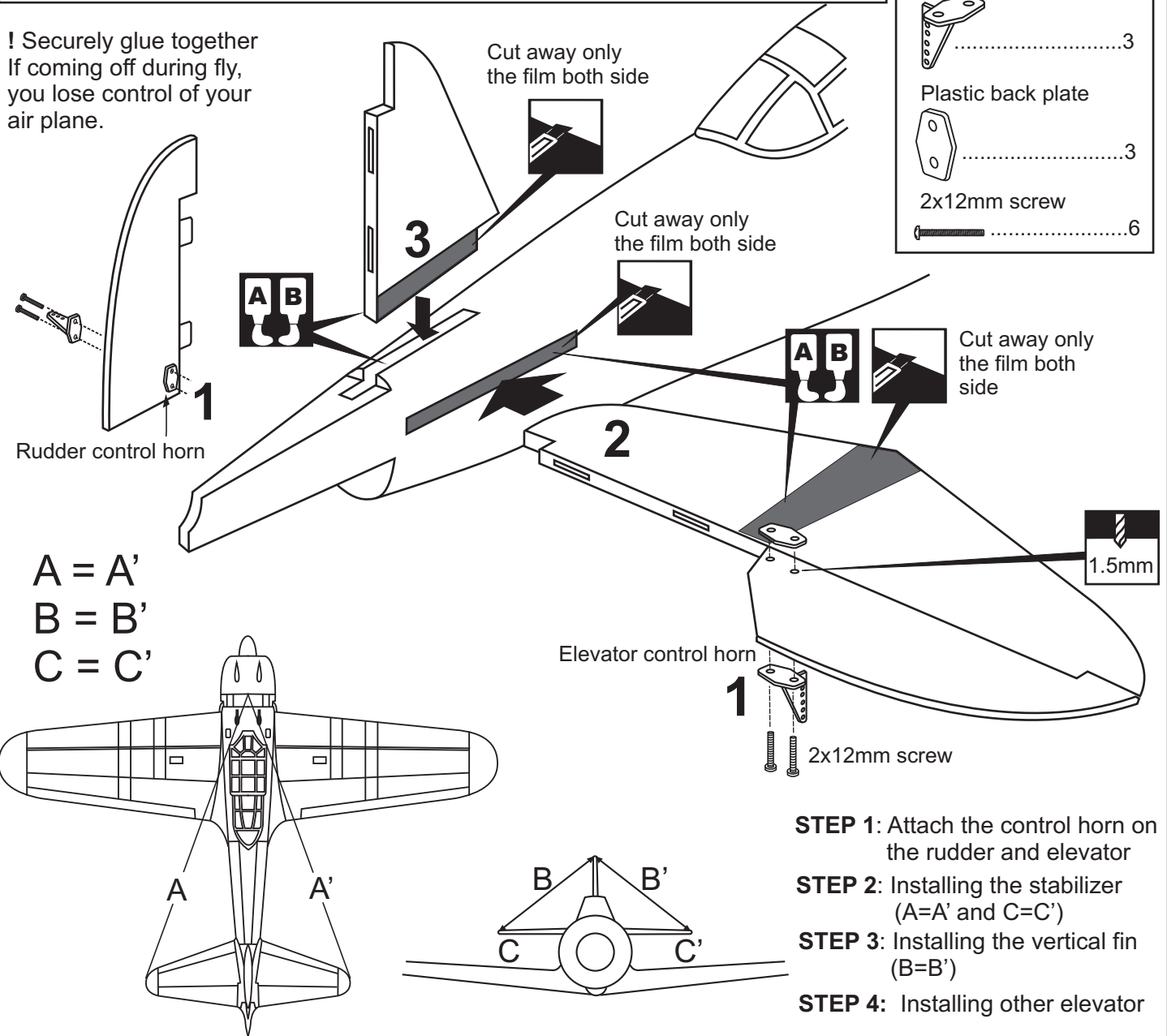
2.5x10mm screw

.....4



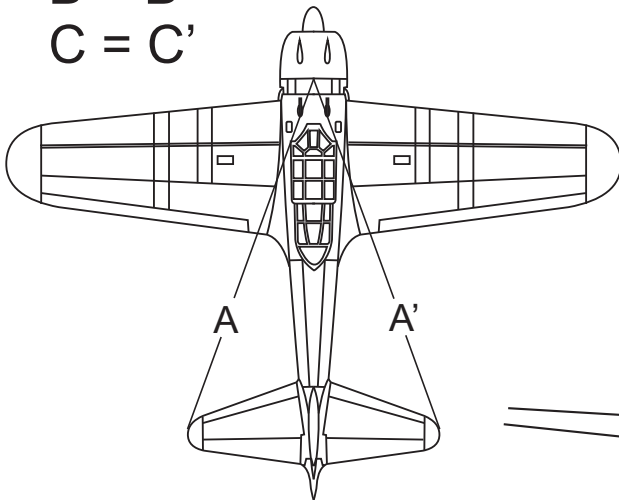
17- Vertical-Horizontal Stabilizers / Hohenleiwerk - Seitenleiwerk

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



Plastic control horn3
Plastic back plate3
2x12mm screw6

A = A'
B = B'
C = C'

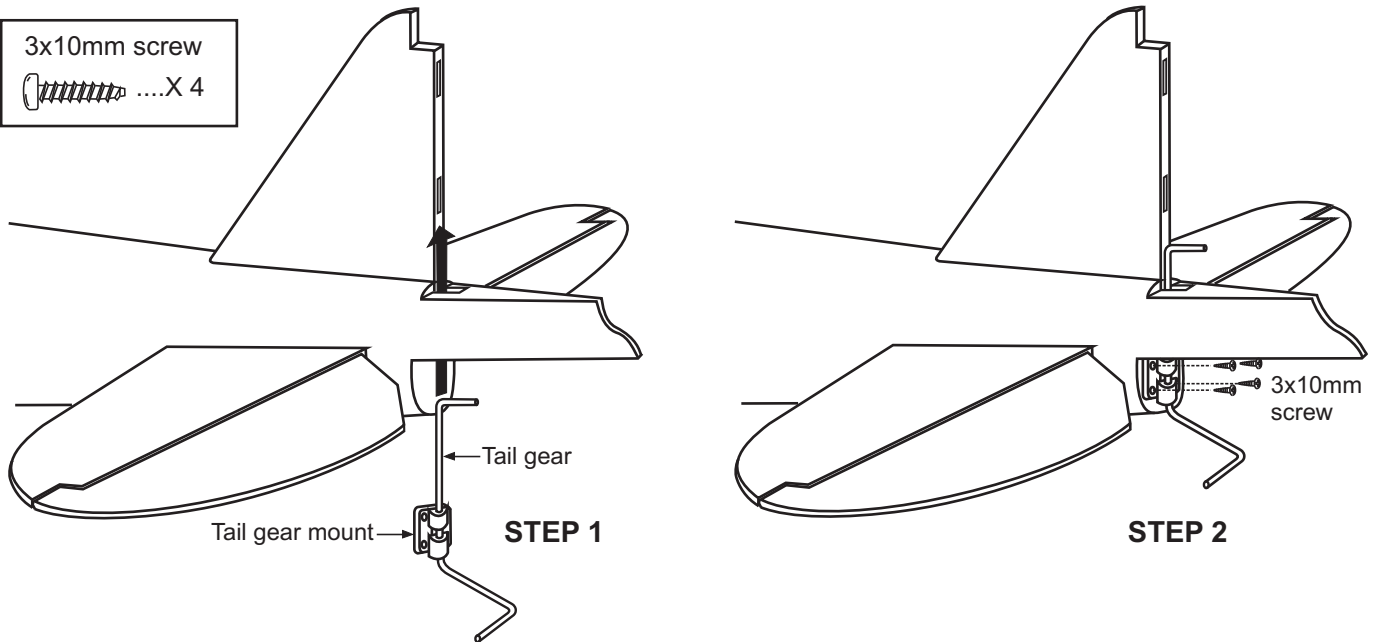


- STEP 1:** Attach the control horn on the rudder and elevator
- STEP 2:** Installing the stabilizer (A=A' and C=C')
- STEP 3:** Installing the vertical fin (B=B')
- STEP 4:** Installing other elevator

18- Tail gear / Heckspornrad

3x10mm screw

.....X 4



19 Tail gear cover

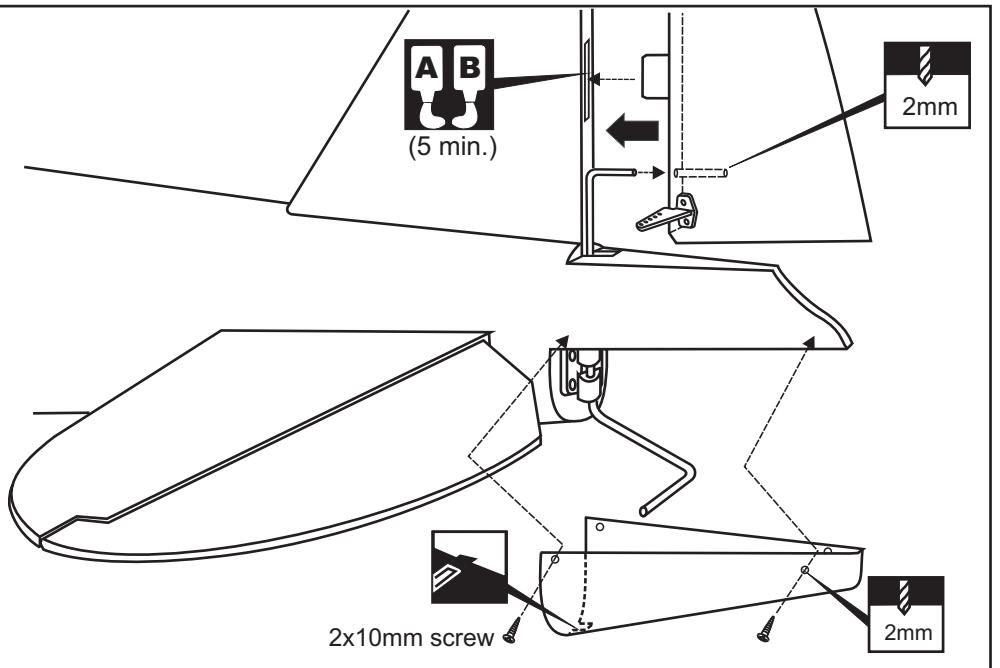
2x10mm screw

 ...X4

Place the rudder on the trailing edge of vertical stabilizer as show (make sure the rudder move freely without binding) . Mark the mounting hole position with a pencil. Remove the rudder and drill 2mm hole as show.


Replace the rudder on the trailing edge of vertical stabilizer and secure it in place using 5 minute epoxy.

Place the ABS tail gear cover on the bottom of fuselage as show and secure it in place using four 2x10mm screw




20- Tail wheel / Spornrad

2.2mm collar

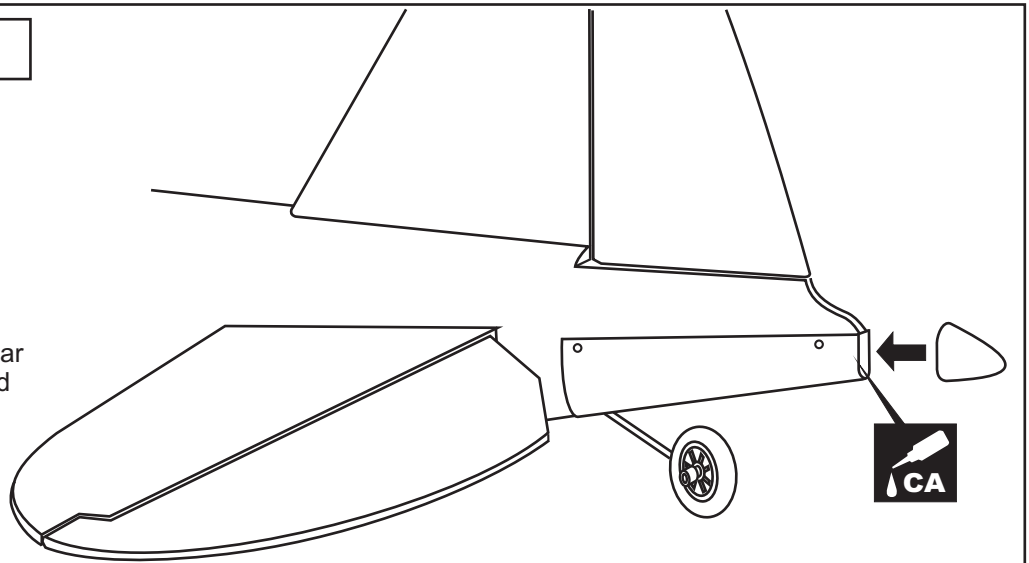
1

25mm wheel

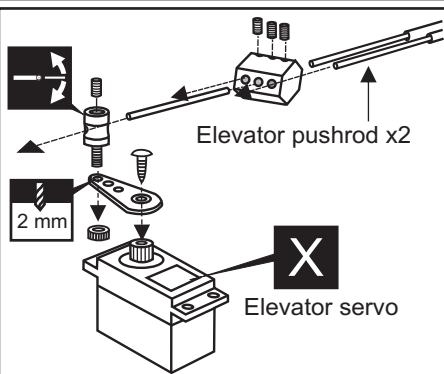
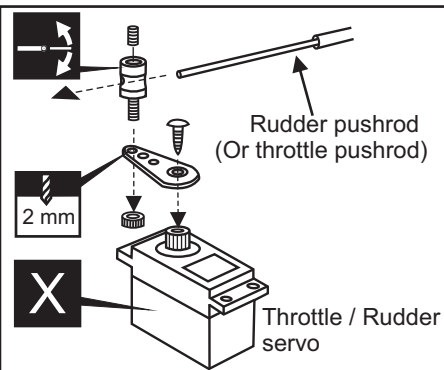
1

Slide the tail wheel onto the tail gear axle and secure it with the supplied 2mm collar.

Attach the ABS tail cover in place and secure it with litter CA glue or screws (screws not included)



21 Servo installation / Servoeinbau



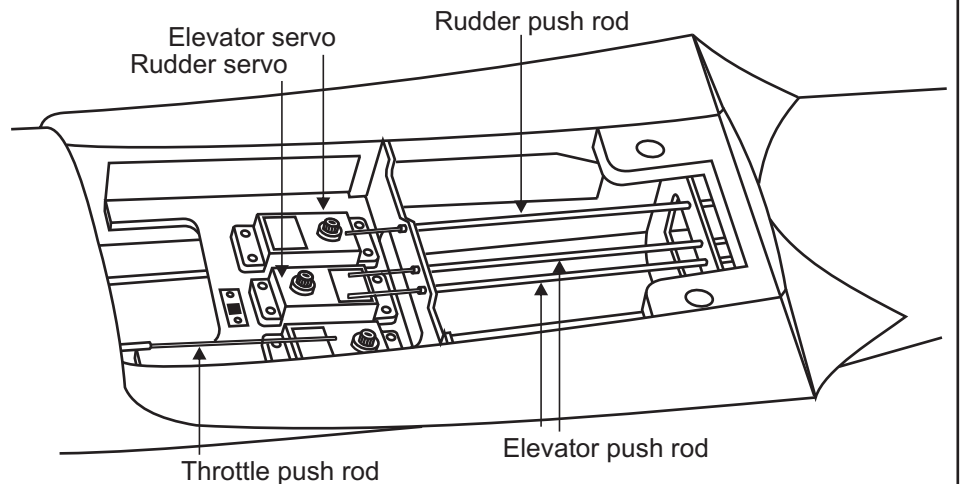
NOTE: Place of servos may be change depend of engine (Four-stroke or two-stroke engine)

Connector

 3

Connector

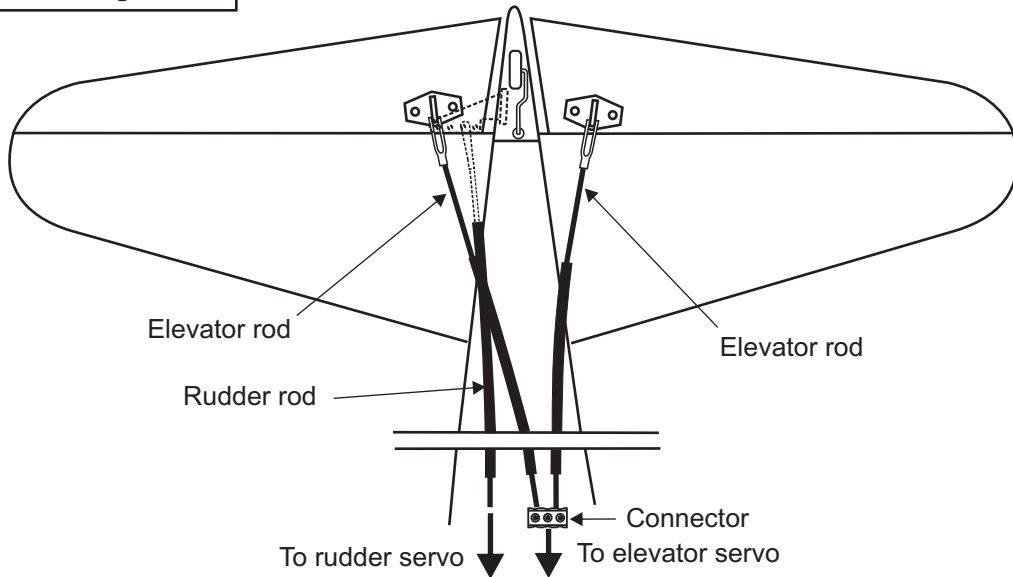
 1



BOTTOM VIEW **Unteransicht**

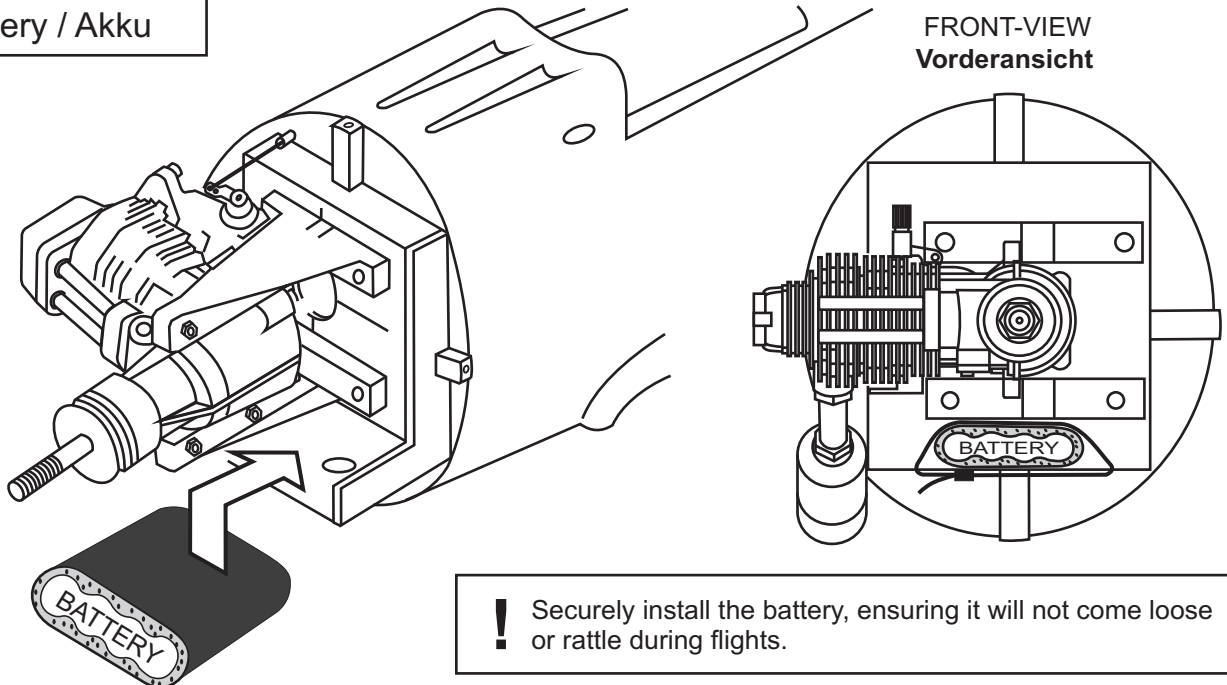
22- Linkages / Alenkungen

BOTTOM VIEW Unteransicht

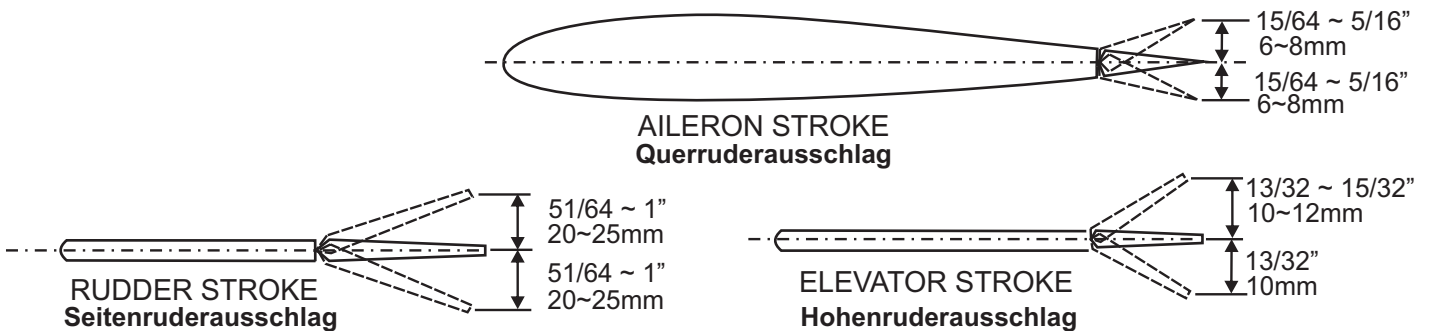


23- Battery / Akku

FRONT-VIEW Vorderansicht



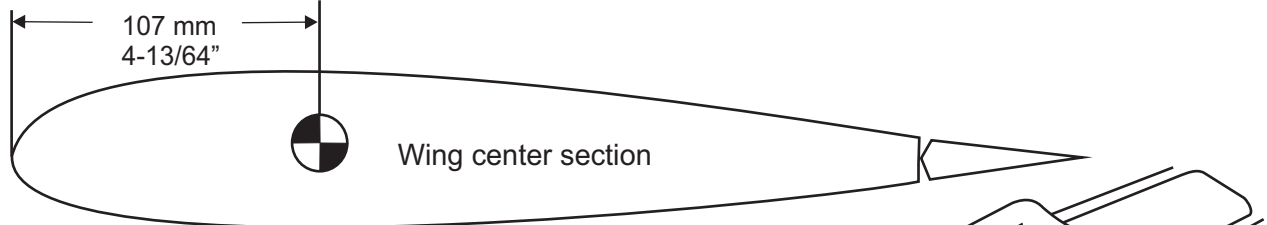
24- Control Surface / Ruderausschläge



IMPORTANT: Flying your model at these throws will provide you with the greatest chance for successful first flights. If, after you have become accustomed to the way the Zero flies, you would like to change the throws to suit your taste, that is fine. However, too much control throw could make the model difficult to control, so remember, "more is not always better".

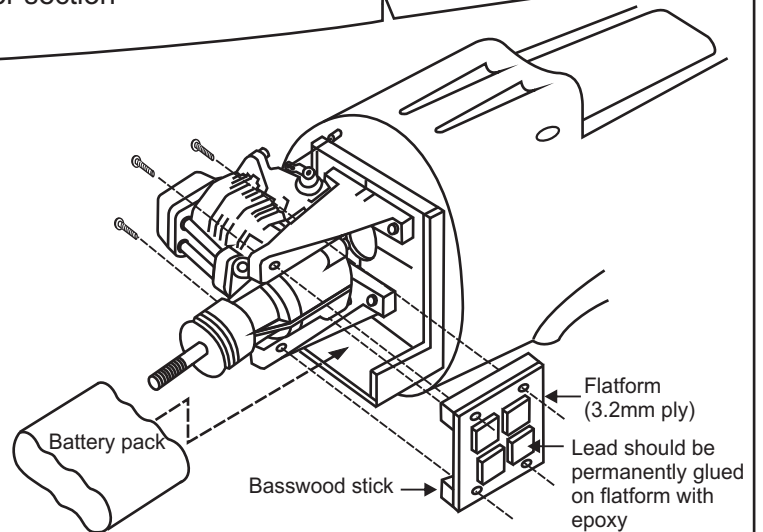
25- Balance / Schwerpunkt

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

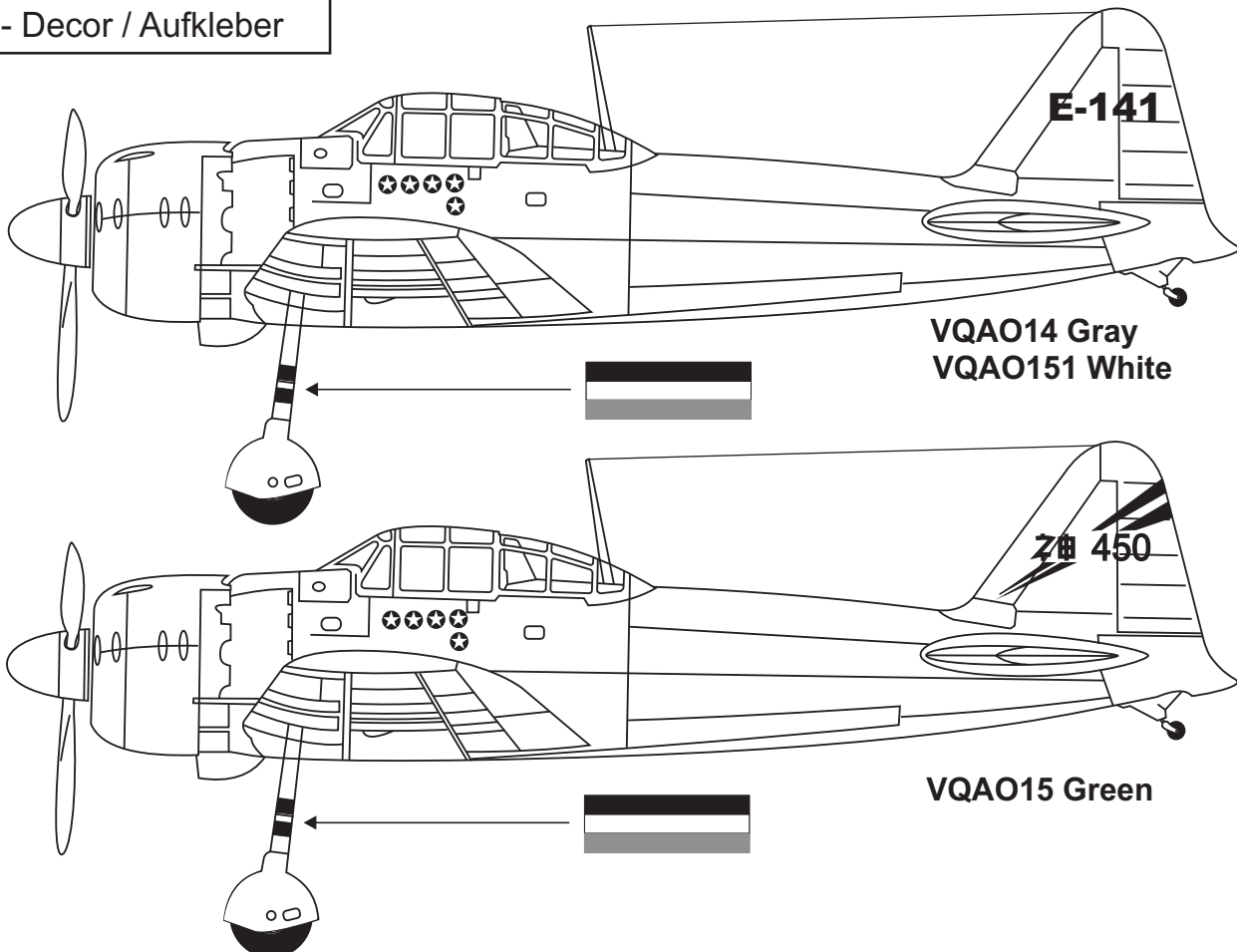


How to add noseweight

To get the correct C.G., Several strips of lead weight were required in the nose of this model . To minimize the amount of weight required, it is desirable to position the weight as far forward as possible. This can be done by making a platform from leftover basswood stick and 3.2mm (1/8") ply wood. Using 4x35mm bolts to mount the engine would also be long enough to mount the platform. The lead should be permanently glued on with epoxy.
IMPORTANT: Recheck the C.G. After the weight has been installed.



26- Decor / Aufkleber



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 creases occur. Cut off the excess that is produced.

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.

All details are subject to change without notice !

Technische Änderungen und Irrtümer vorbehalten !