Radio control model / Flugmodel

W.W2 GERMAN FIGHTER

FOCKE WULF FW-190A



ALL BALSA, PLYWOOD CONSTRUCTION AND ALMOST READY TO FLY

Instruction manual / Montageanleitung

SPECIFICATIONS

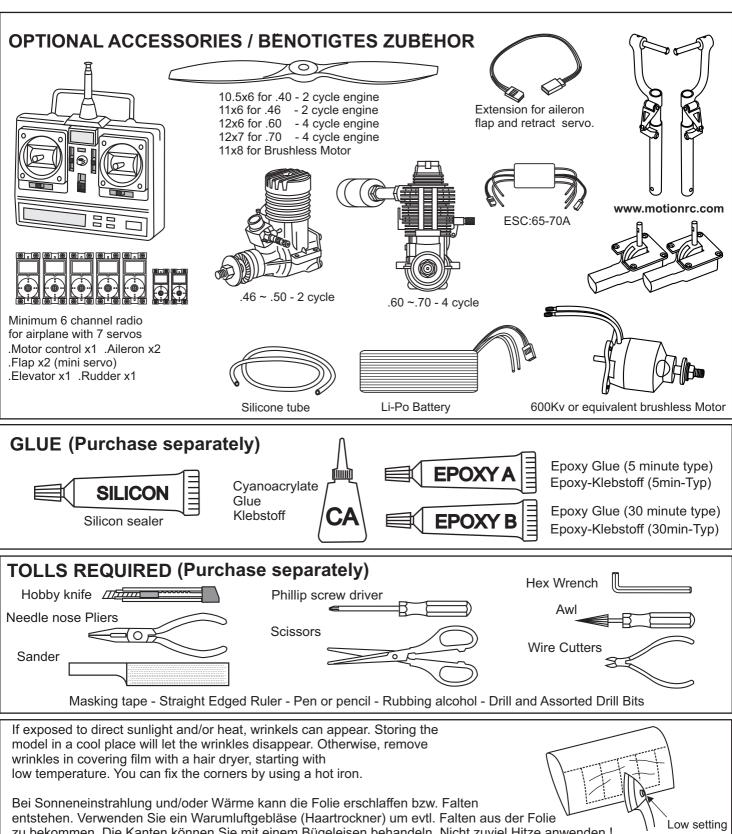
Optional Retractable Landing Gear.



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 Unterstätzung, 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.

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

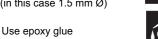


zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden !



Drill holes using the stated size of drill

(in this case 1.5 mm Ø)





Take particular care here



Apply cyano glue



Hatched-in areas: remove coverina film carefully



Assemble left and right sides the same way.



Check during assembly that these parts move freely, without binding



Not included. These parts must be purchased separately

CONVERSION TABLE

1.0mm = 3/64" 1.5mm = 1/16"

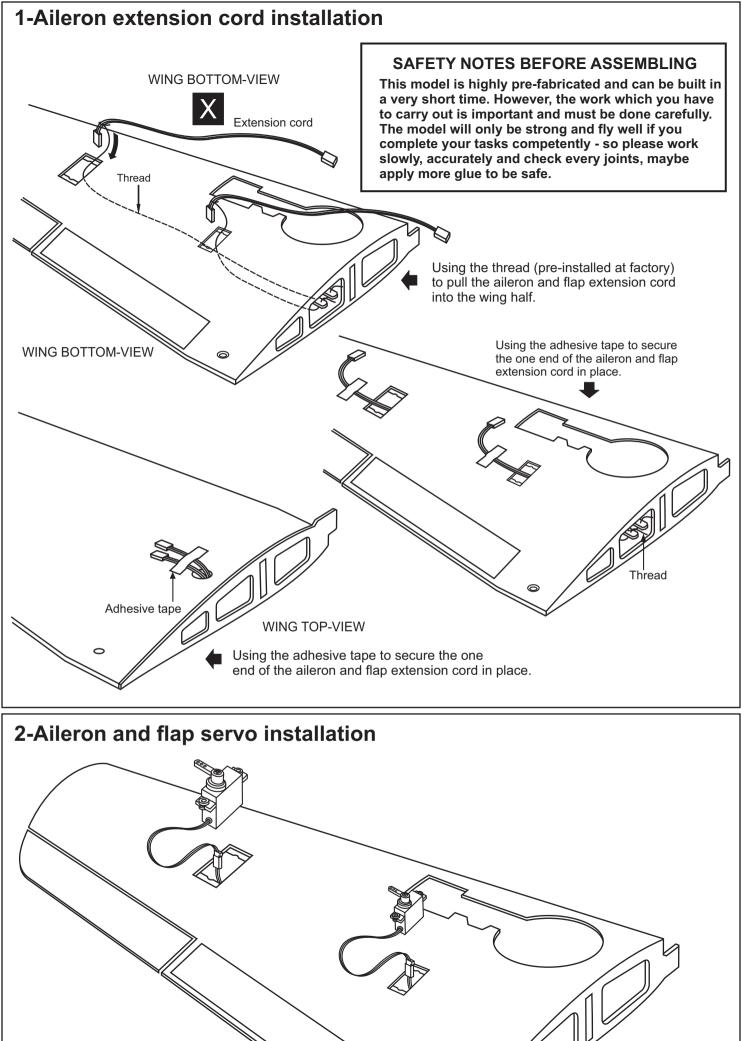
3.0mm = 1/8" 4.0mm = 5/32"

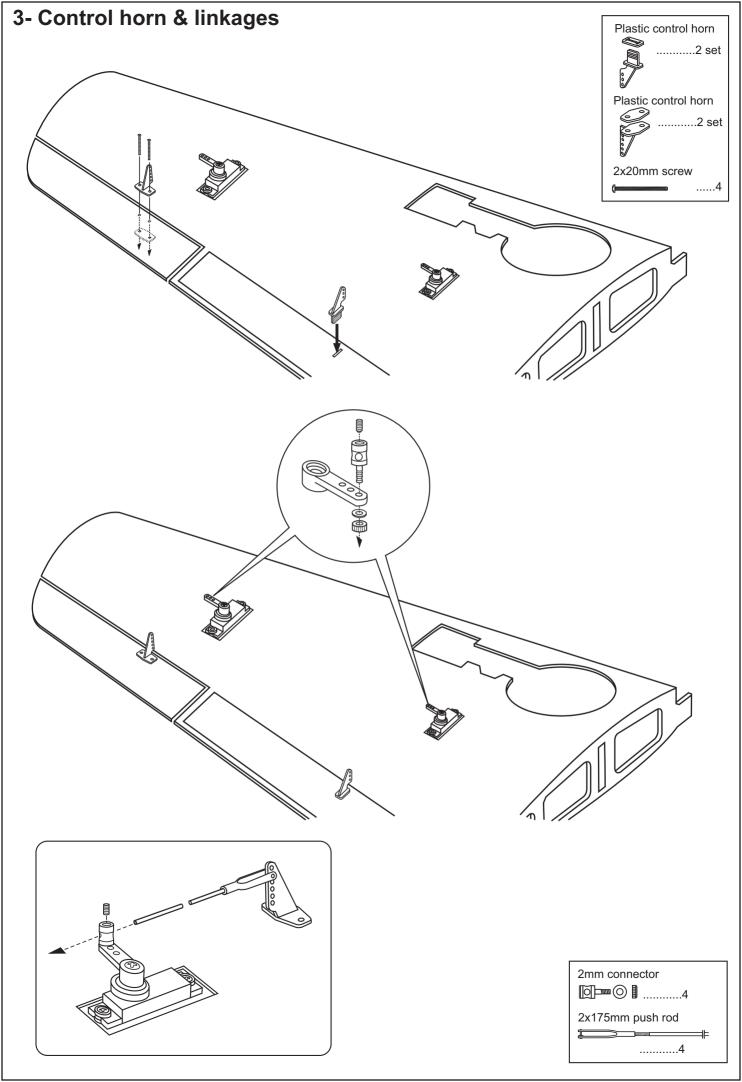
10mm = 13/32" 12mm = 15/32"

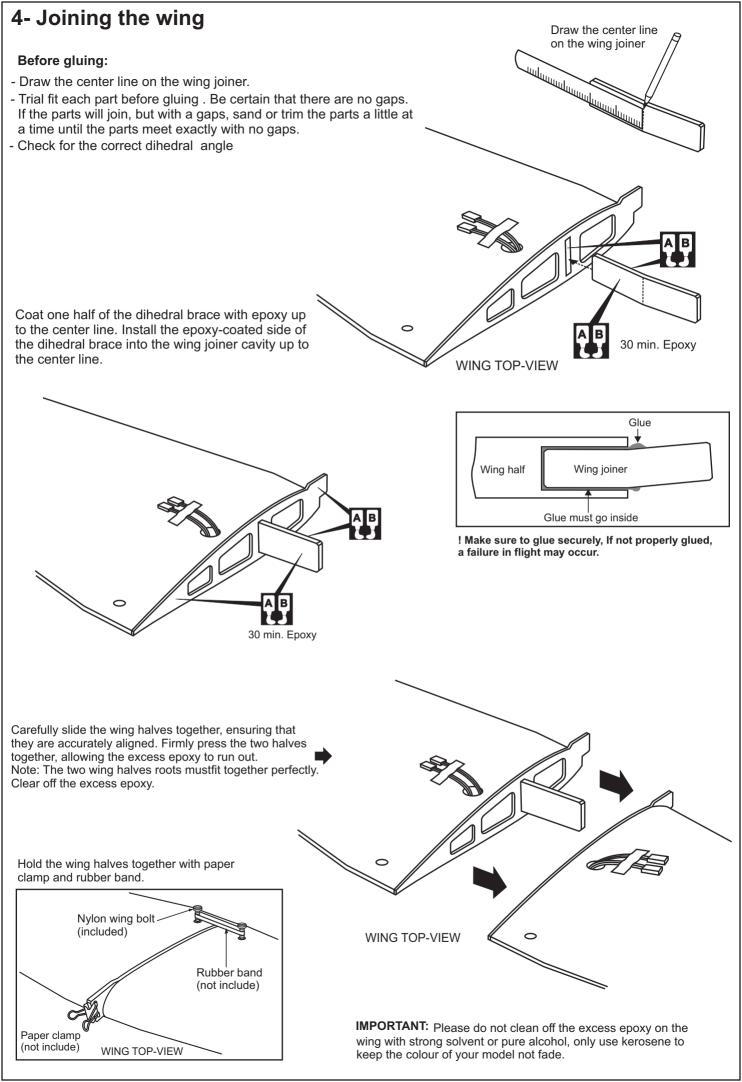
25mm = 1"30mm = 1-3/16"

45mm = 1-51/64"

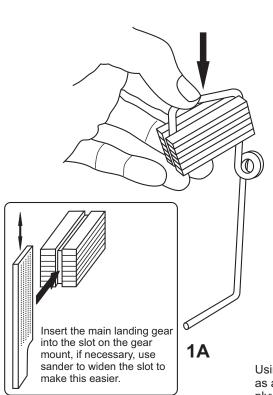
5.0mm = 13/64" 15mm = 19/32" 2.0mm = 5/64" 6.0mm = 15/64" 20mm = 51/64" 2.5mm = 3/32"

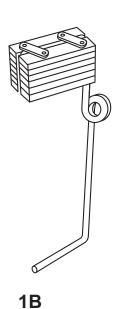




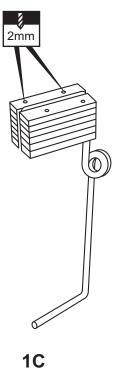


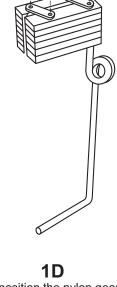
5- Fixed gear assembly





TOP VIEW



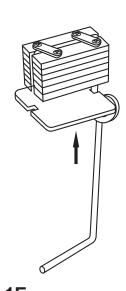


Using the nylon gear strap as a template, mark the plywood gear mount where the four holes to be drill.

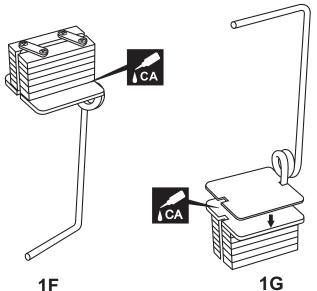
Remove the nylon gear strap and drill a 2mm hole at each of the four marks marked.

BOTTOM VIEW

1D
Reposition the nylon gear strap and secure them in place using four 3x20mm screws.

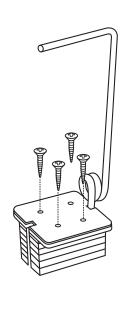






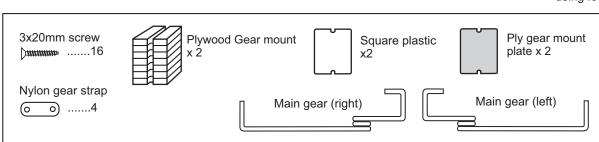
Secure the ply gear mount plate in place using CA glue.

Attach the square plastic onto the ply gear mount, secure it in place using CA glue.

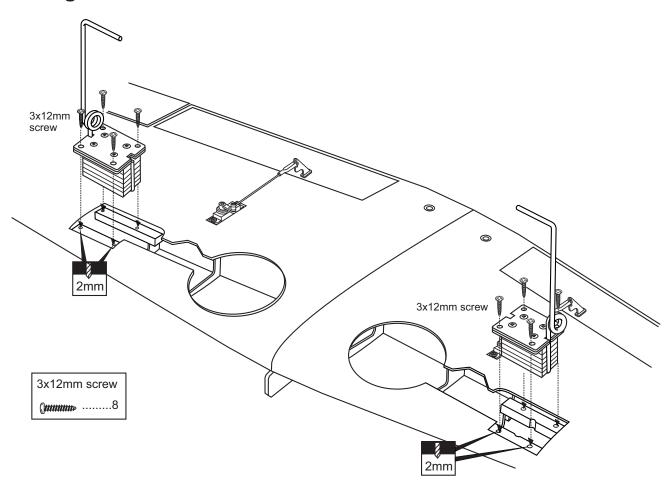


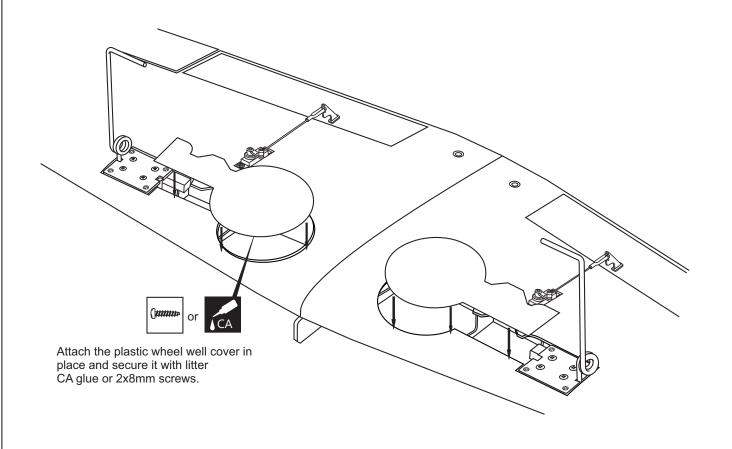
1H holes throu

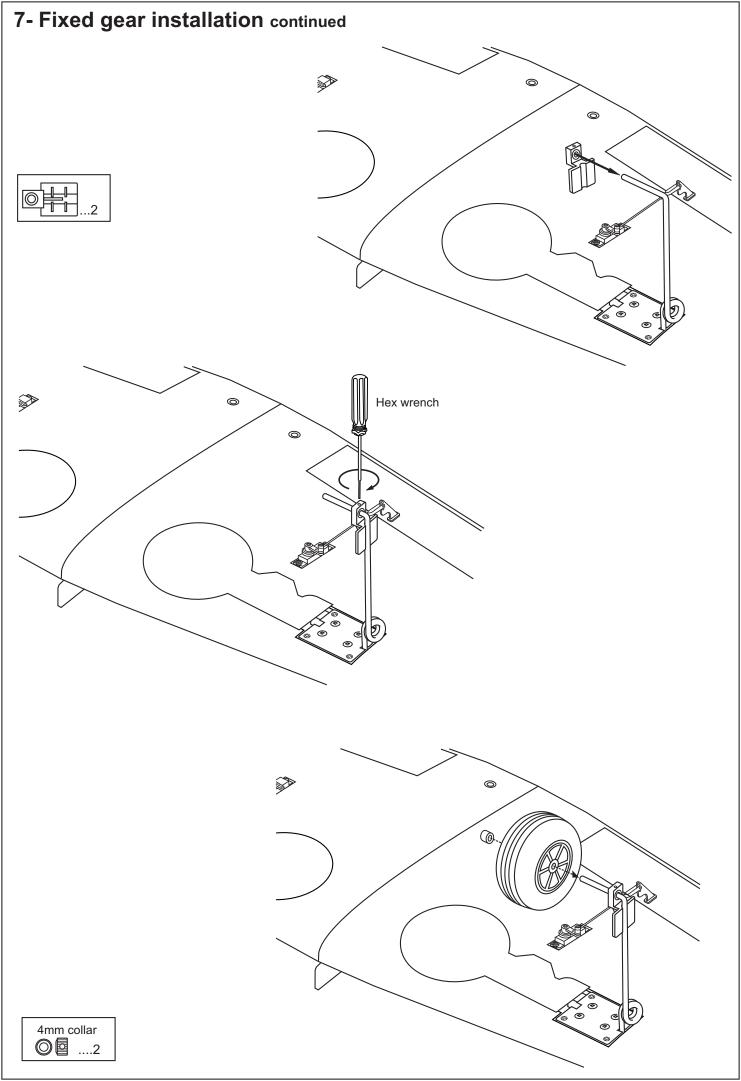
Drill a 2mm holes through the square plastic and ply gear mount plate.
Secure the ply gear mount using four 3x20mm screws.

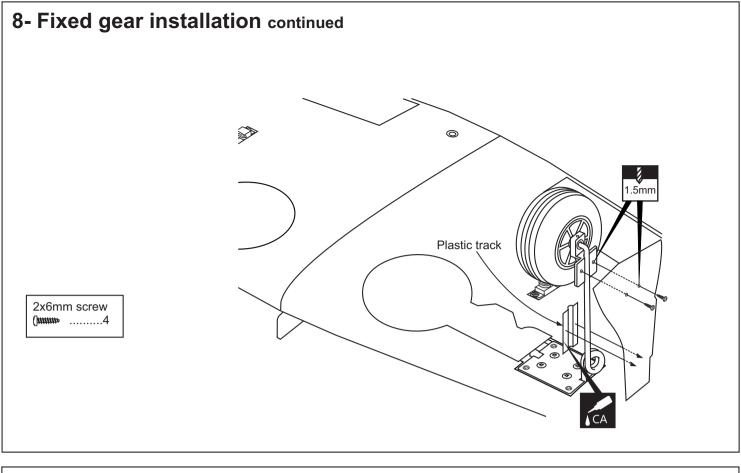


6- Fixed gear installation

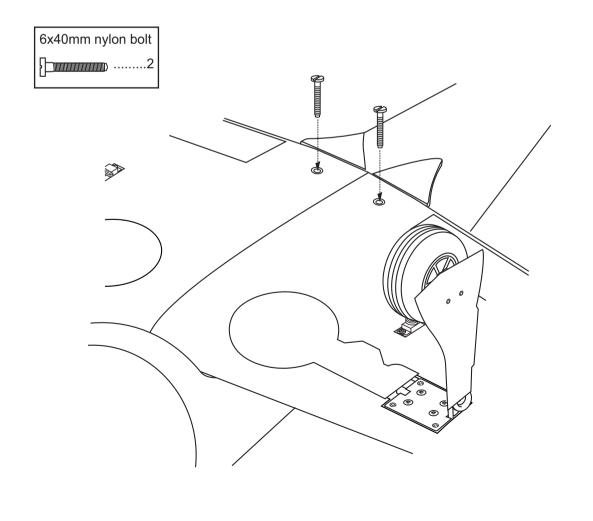






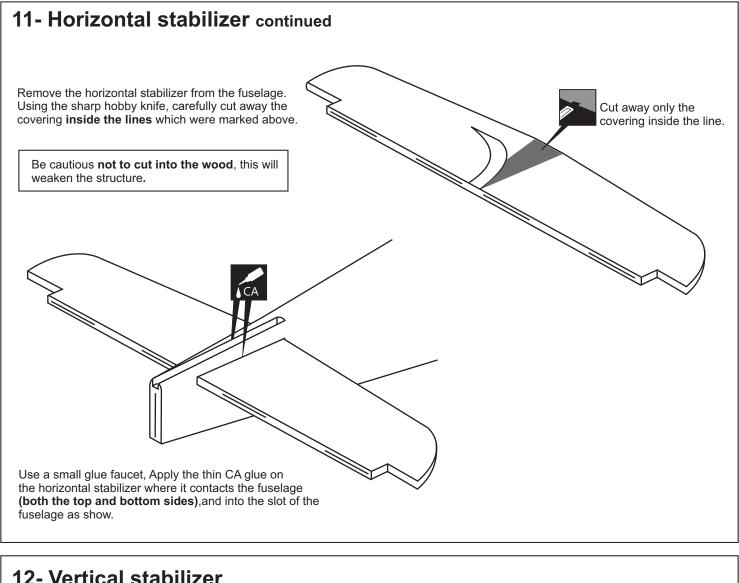


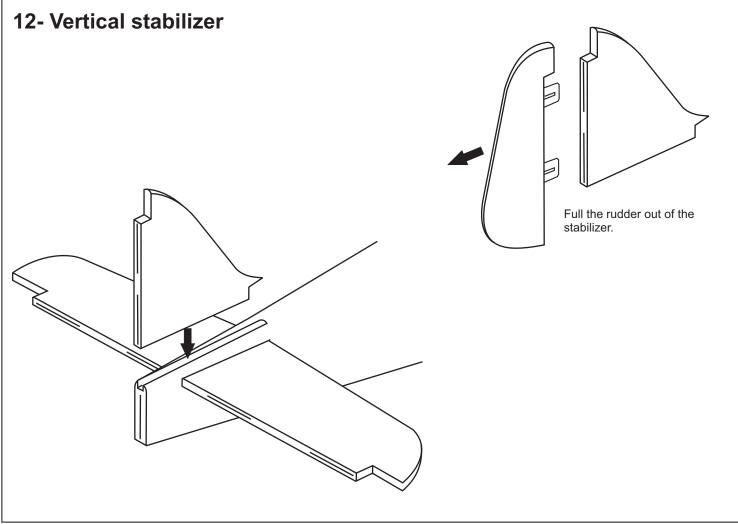
9- Attach the wing to the fuselage



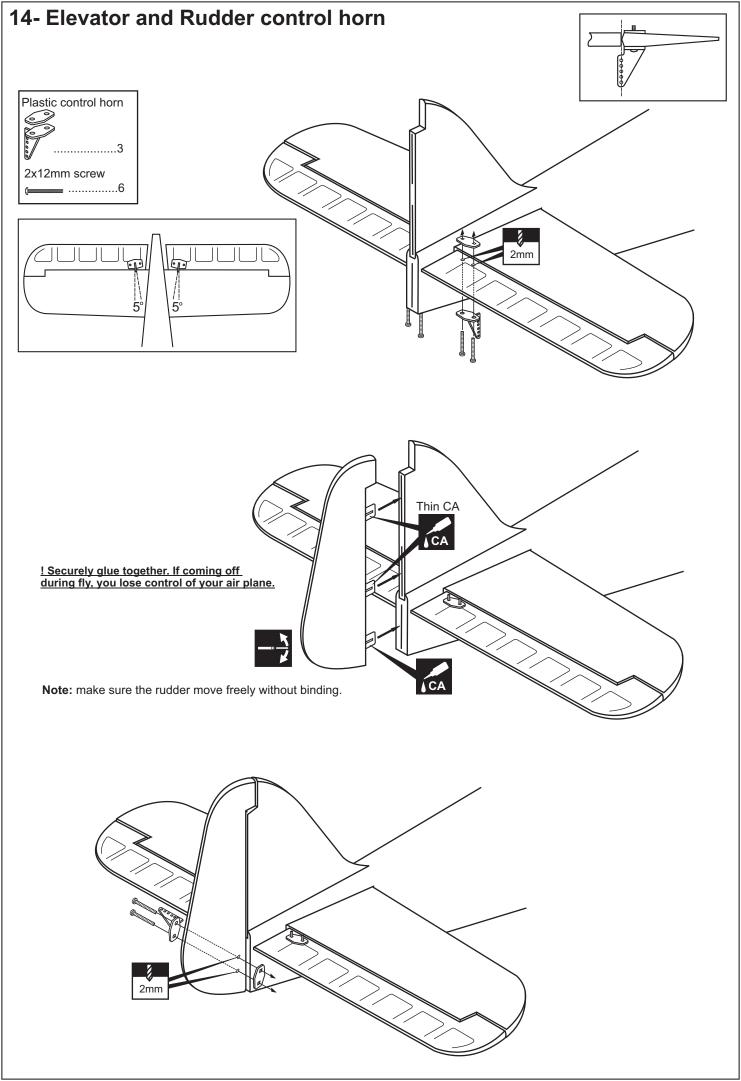
10- Horizontal stabilizer Full the elevator out of the horizontal stabilizer. Cut away only the covering. Cut away only the covering both sides. Insert the horizontal stabilizer into the slot on the fuselage, if necessary, use sander to widen the slot to make this easier. A=A'C=C'

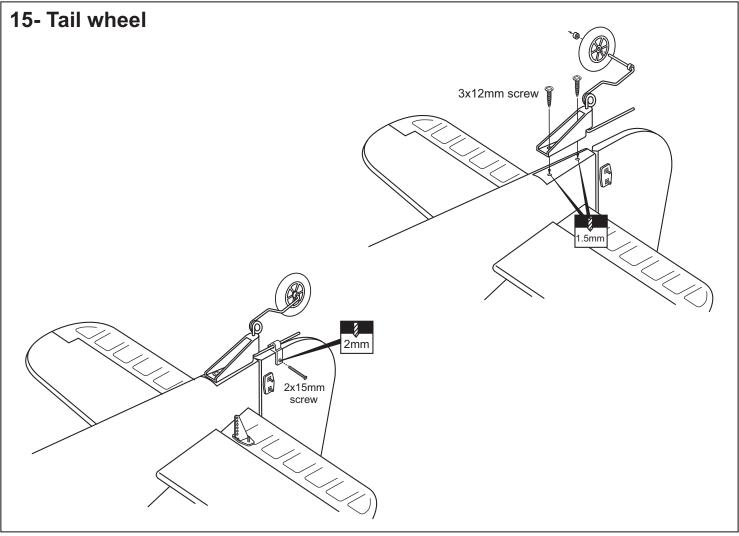
Check the alignment of the horizontal stabilizer. When you are satisfied with the alignment, use a pencil to trace around the top and bottom of the stabilizer where it meets the fuselage.

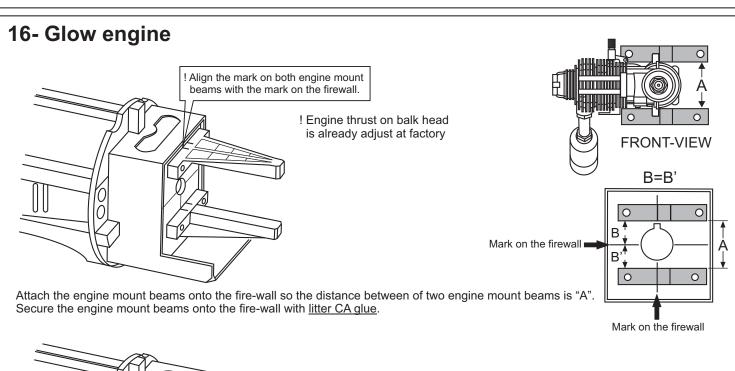




13- Vertical stabilizer continued When you are satisfied with the alignment, use a pencil to trace around the right and left of the stabilizer where the vertical stabilizer meet the fuselage. Remove the vertical stabilizer from the fuselage. Using the sharp hobby knife, carefully cut away the covering inside the lines which were marked above. Be cautious not to cut into the wood, this will weaken the structure. Use a small glue faucet, Apply the thin CA glue on the vertical stabilizer where it contacts the fuselage. ! Securely glue together. If coming off during fly, you lose control of your air plane. ! Securely glue together. If coming off during fly, you lose control of your air plane. Note: make sure the elevator move freely without binding.



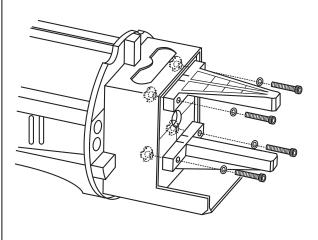




Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled.

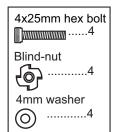
Carefully remove the engine mount beams and drill a 5mm hole through the fire-wall at each of the four marks made above.

17- Glow engine continued

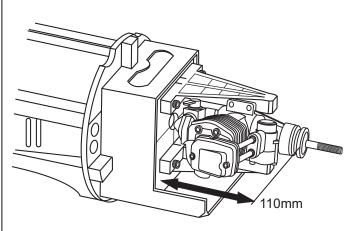


Insert the blind-nut onto each of the four holes make above.

Reposition the engine mount beams on to the fire-wall and secure them with four 4x25mm hex bolt.



3x20mm screw
Nut4



Position the engine to the engine mounts so the distance from the prop hub to the fire-wall is **110mm**.

Mark the engine mounting plate where the four holes are to be drilled.

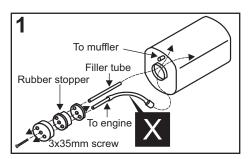
Remove the engine and drill a 3mm holes through the beam at each of the four marks made above.

Marking sure that you drill the hole perpendicular to the beam of the engine mount.

Reposition the engine on the engine mount beams, aligning it with the holes. Secure the engine to the engine mount using four 3x25mm hex bolts.

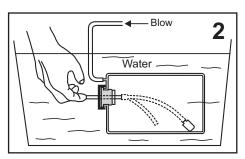
Note: Apply Silicon sealer to each of the 3x25mm bolt and nut.

18- Fuel tank (in case of glow engine using)

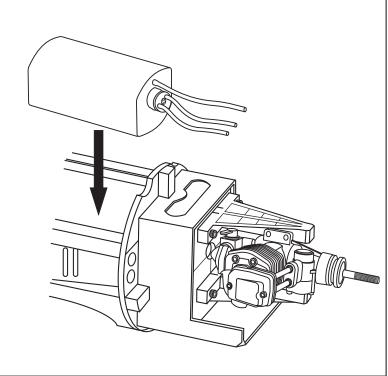


After confirming the direction. Insert this assembly, clunk end first, into the fuel tank and tighten and screw the fuel tankcap on firmly.

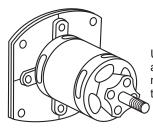
Ensure that the fuel tank clunk does not touch the rear of the fuel tank.



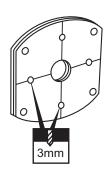
Checking for leaks - block the vents and blow into the feed, if in doubt submersing the tank in a blow of water will show up any problems.



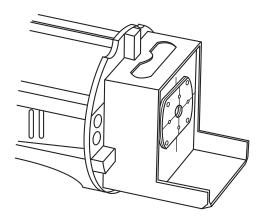
19- Electric motor



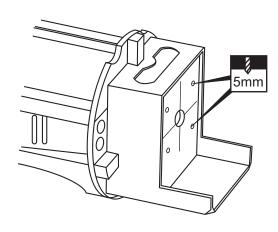
Using a aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled.



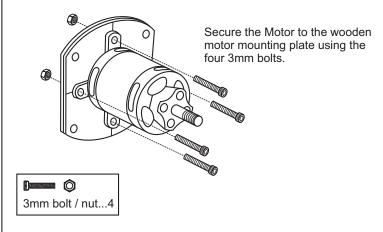
Remove the aluminum motor mounting plate and drill a 3mm hole through the plywood at each of the four marks marked .

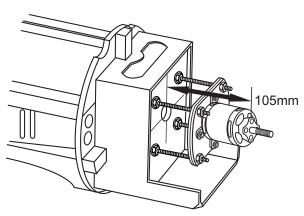


! Align the mark on the plywood motor mount with the mark on the firewall.

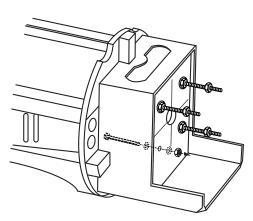


Remove the wooden motor mounting plate and drill a 5mm hole through the fire-wall at each of the four marks marked.

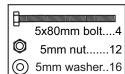




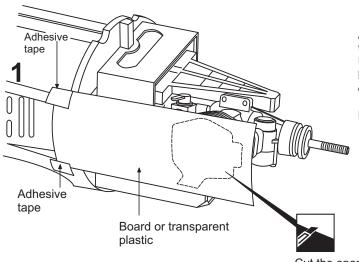
Distance from the prop hub to the fire-wall is 105mm.



Attach the four 5x80mm bolts and nuts to the fire-wall as shown.



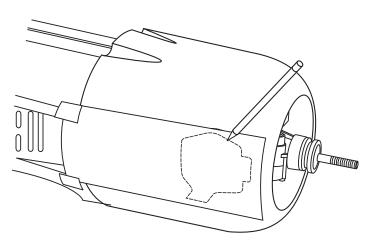
20- Cowling



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

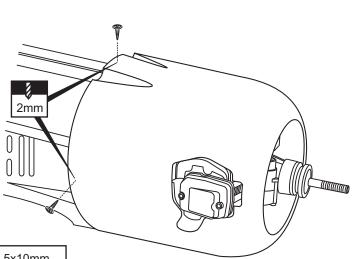
Do the same way with the needle vale.

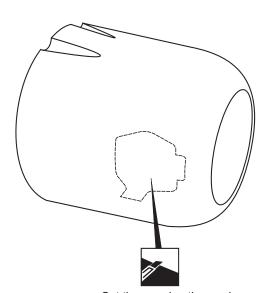
Cut the opening the board or the transparent plastic.



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 100-105mm.

Using a pencil trace around the hole where it meets the cowl.





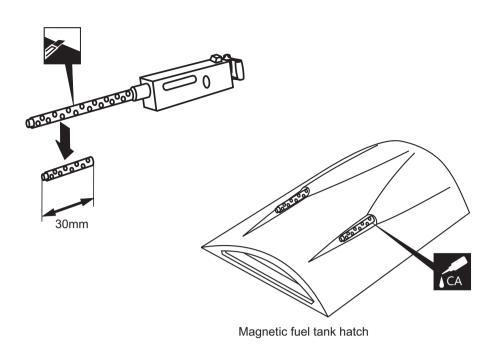
Cut the opening the cowl.

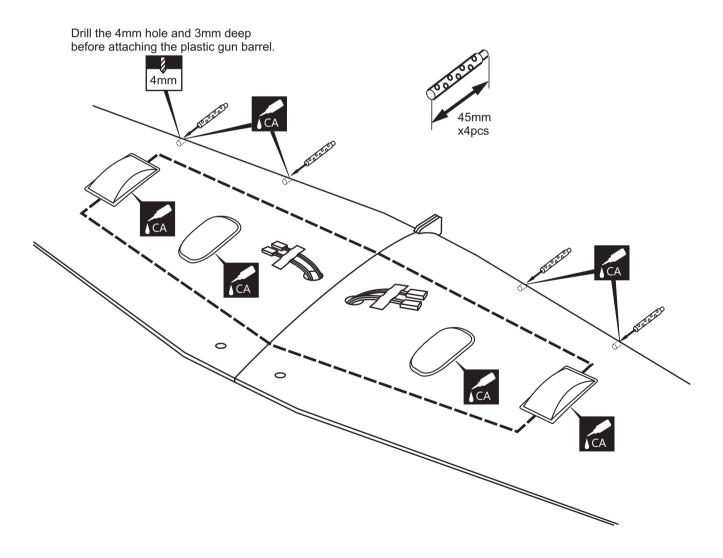
Remove the cowl from the fuselage and carefully cut the opening for the engine head as marked above. Do the same way with the hole for needle-valve.

2.5x10mm (**////////**.....3

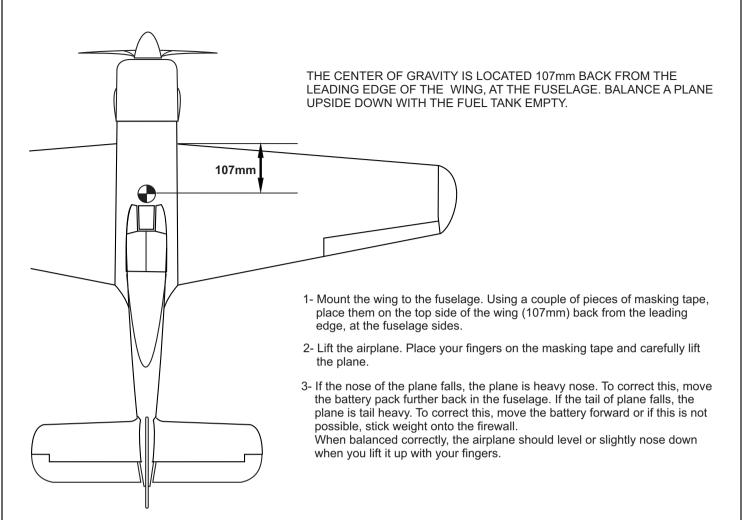
Again. Insert the cowl on to the fuselage and secure it in place with three 2.5x10mm screws.

22- Decor





23- Balance and control surface



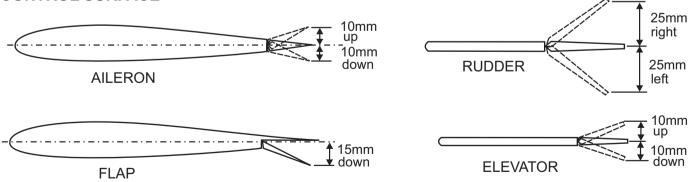
LATERAL BALANCE:

After you have balanced a plane on the CG, you should laterally balance it. Doing this will help the airplane track straighter.

- 1- Turn the airplane upside down. Attach one loop of heavy string to the engine crankshaft and one to the tail wheel wire. With the wing level, carefully lift the airplane by the string. This may require two people to make easier.
- 2- If one side of the wing fall, that side is heavier than the opposite. Add small amounts of lead weight to the bottom side of the lighter wing half's wing tip. Follow this procedure until the wing stays level when you lift the airplane.

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





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 FW-190 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".

LOW RATE

Aileron : 10mm up / down Elevator : 10mm up / down Rudder : 25mm right / left Flap : 15mm down

HIGH RATE

Aileron : 12mm up / down Elevator : 12mm up / down Rudder : 30mm right / left Flap : 25mm down