45 Class 2-cycle engine 70 Class

4-cycle engine

MESSERSCHMITT Me-109

INSTRUCTION MANUAL / Montageanleitung





TECHNISCHE DATEN

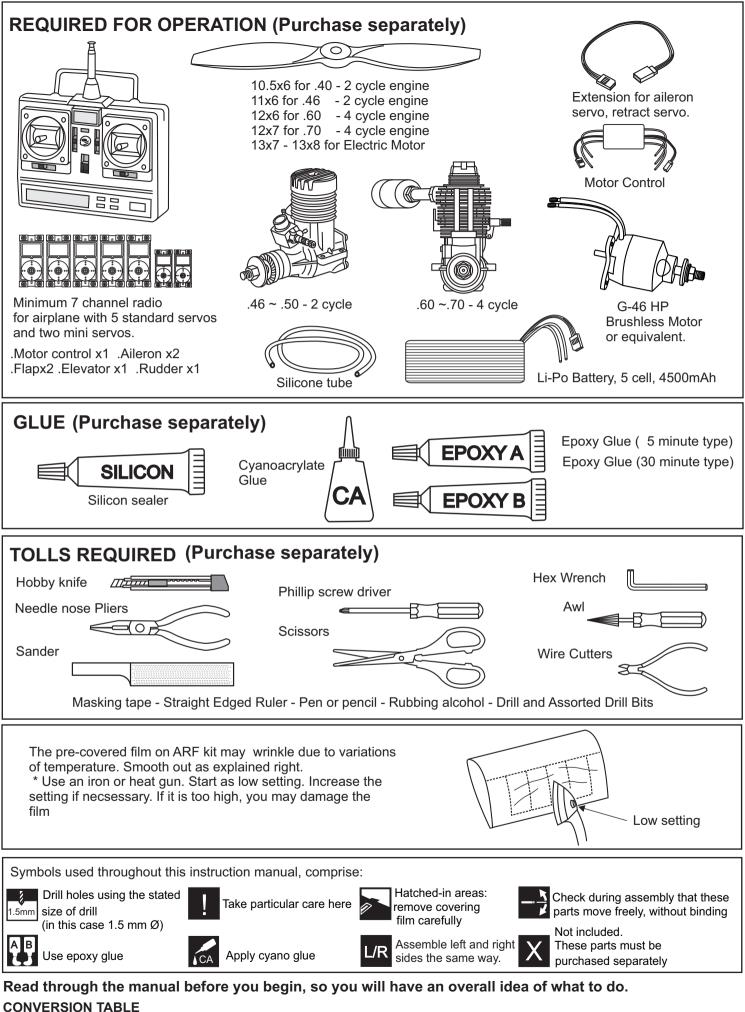
Spannweiter Länge Elektroantrieb Verbrennerantrieb Fernsteuerung 1560mm 1120mm G-46 HP Motor 7.5cc 2-T / 8.5cc 4-T 7 Kanal / 7 Servos

SPECIFICATIONS

Wingspan Length Electric Motor Glow Engine Radio 1560mm 1120mm G-46 HP Motor 7.5cc 2-T / 8.5cc 4-T 7 Channel / 7 Servos

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.



/64"

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"	

SAFETY NOTES BEFORE ASSEMBLING

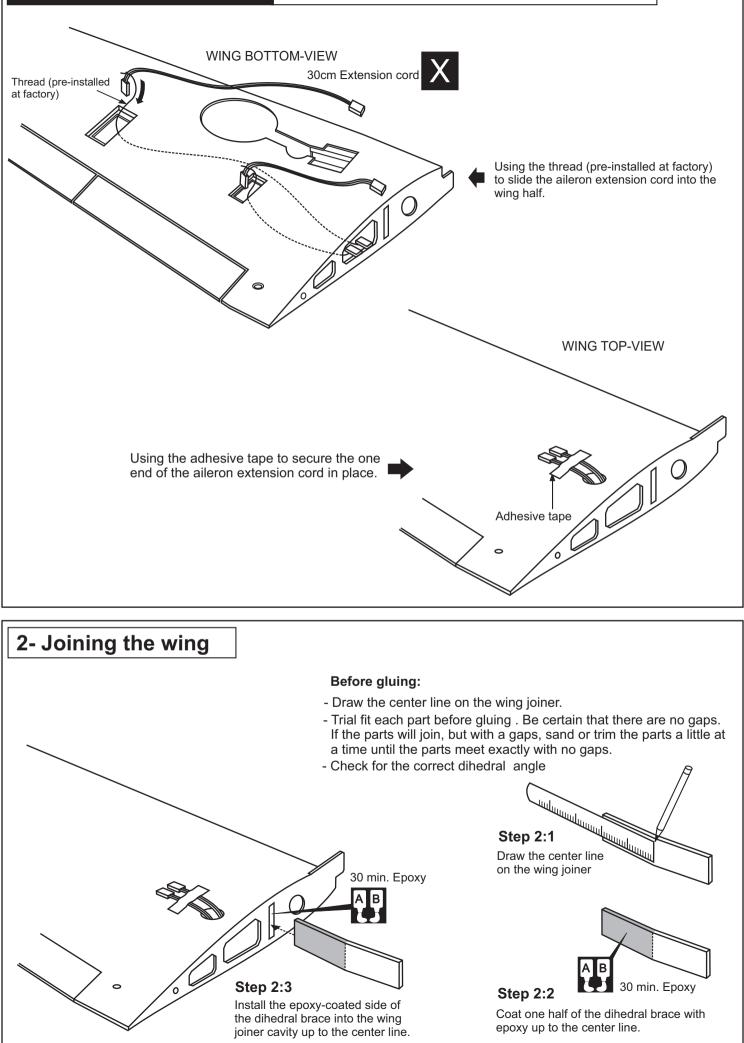
This model is highly pre-fabricated and can be built in a very short time. However, the work which you have to carry out is important and must be done carefully.

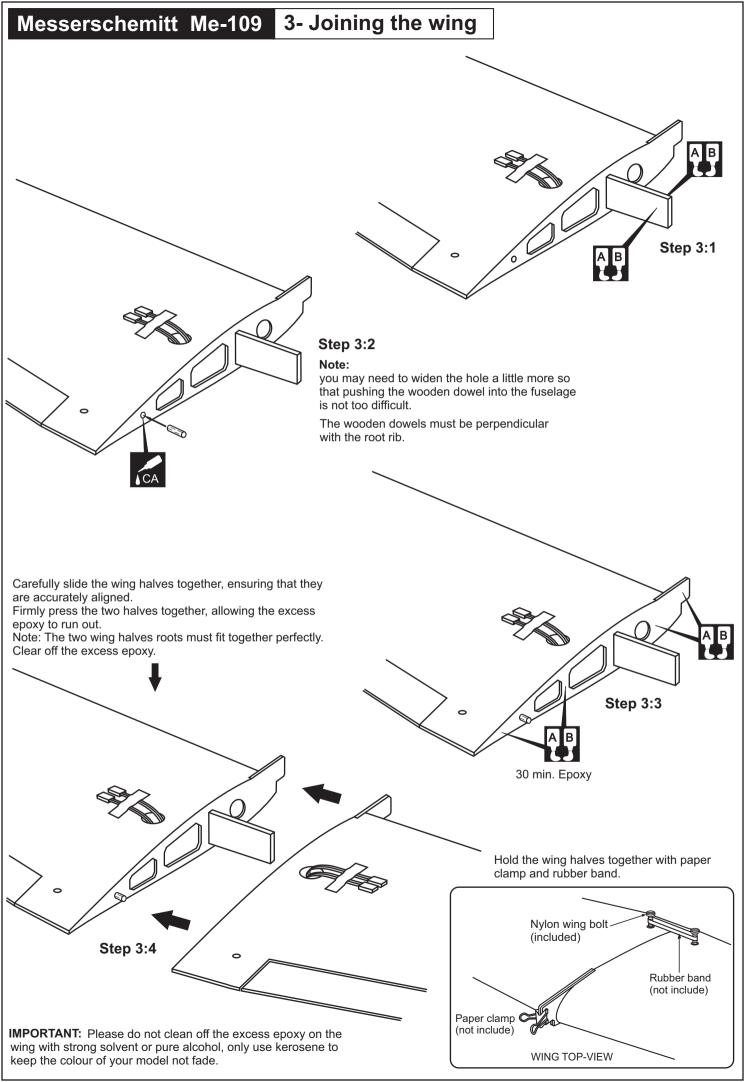
The model will only be strong and fly well if you complete your tasks competently - so please work slowly, accurately and check every joints, maybe apply more glue to be safe.

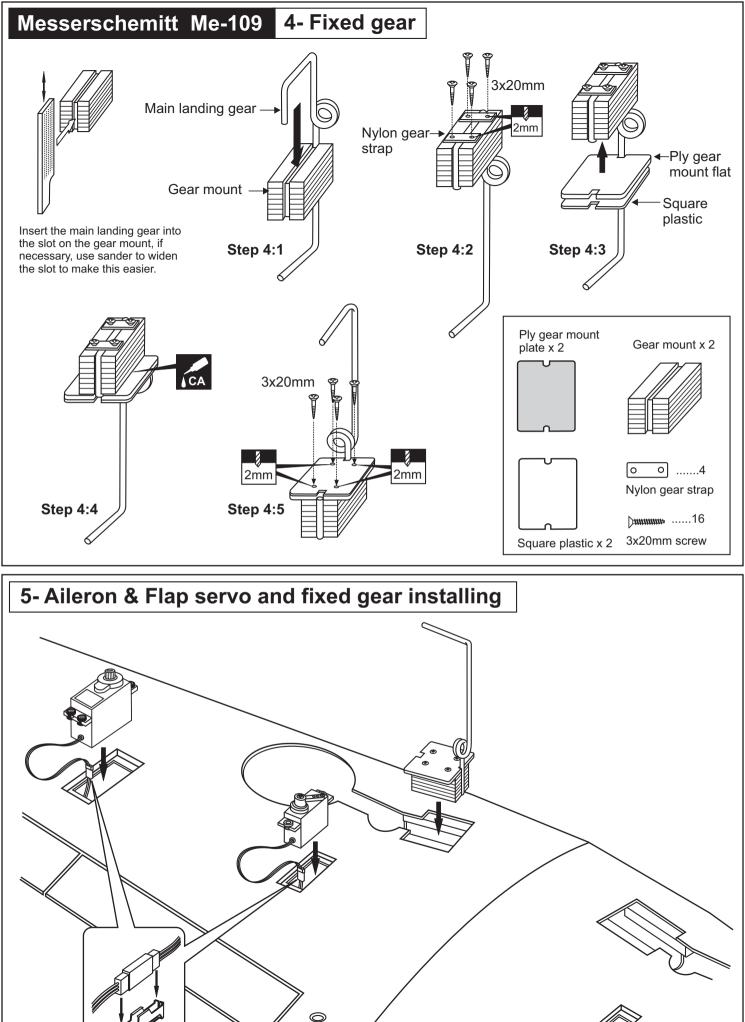
Read through the manual before you begin, so you will have an overall idea of what to do.

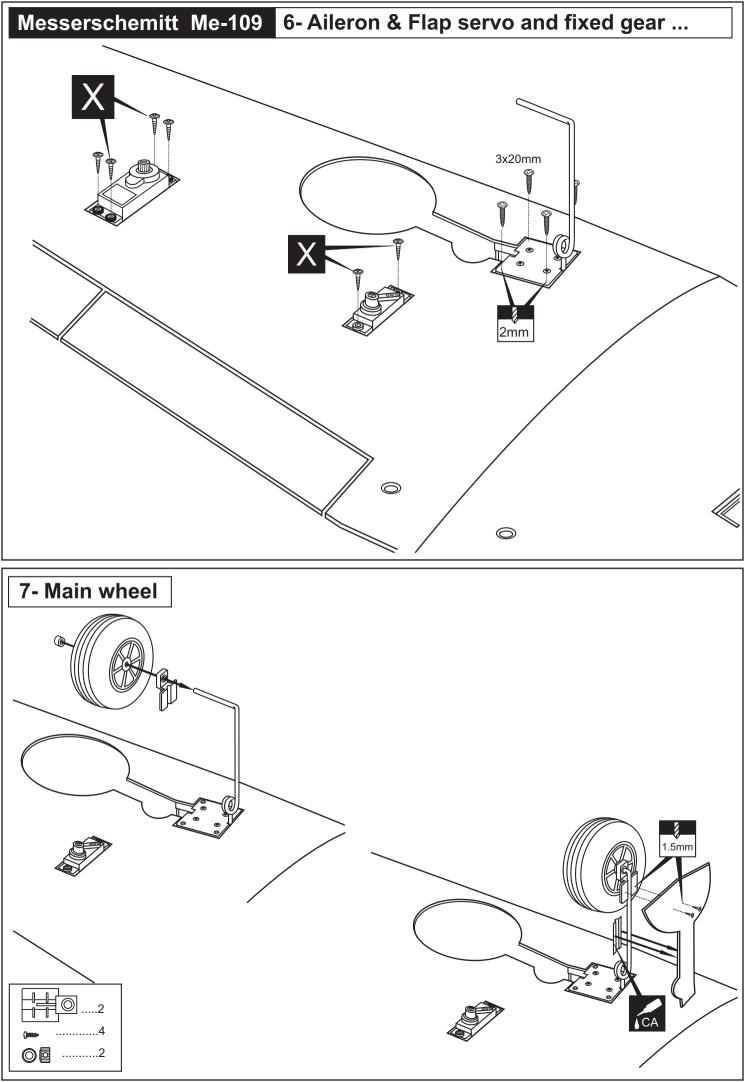
IMPORTANT: Please do not clean your model with pure alcohol or strong solvents, only use liquid soap with water or use glass cleaner to clean on surface of your model to keep the colour not fade.

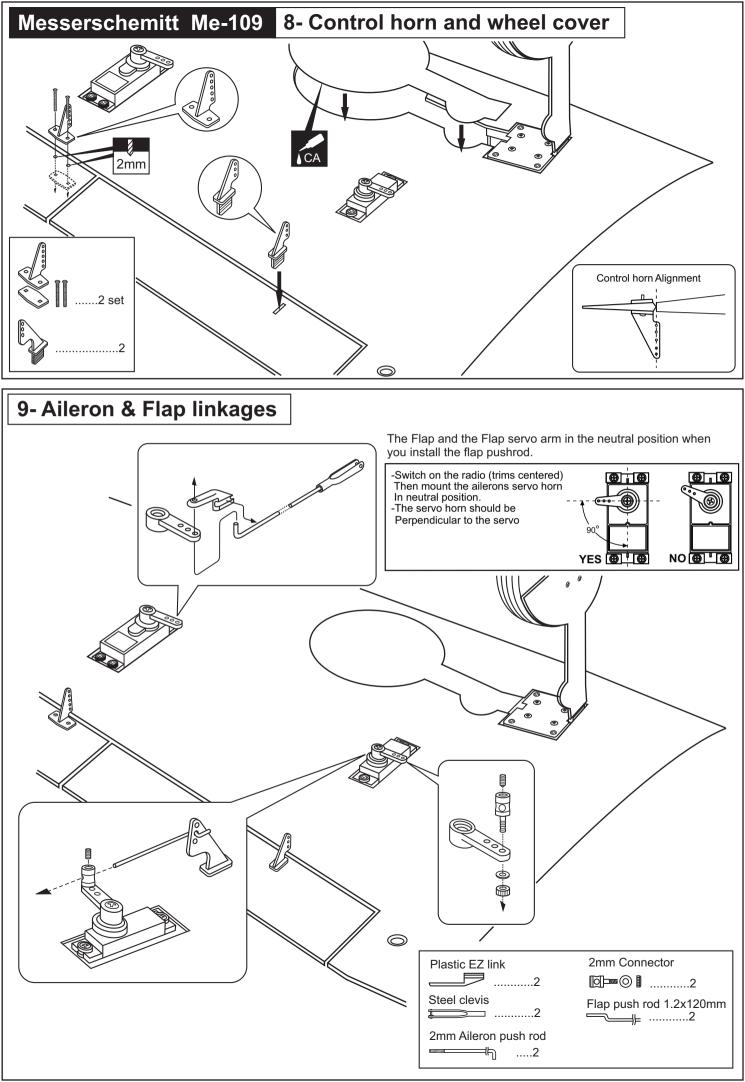
Messerschemitt Me-109 1-Aileron extension cord installation



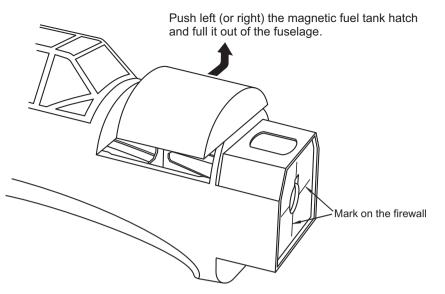




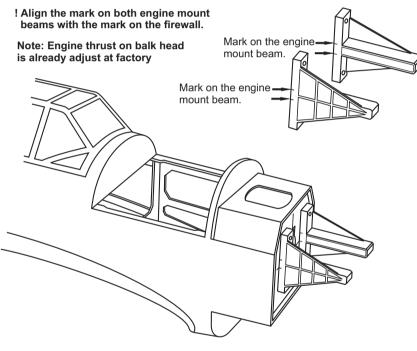




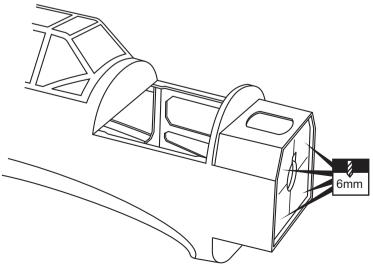
Messerschemitt Me-109 10- Engine mount



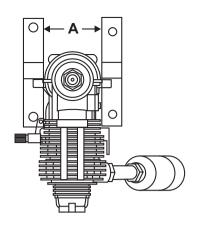
Attach the engine mount beams onto the fire-wall so the distance between of two engine mount beams is "A",and B=B' as show. Secure the engine mount beams onto the fire-wall with <u>litter CA glue.</u>

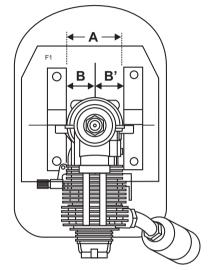


Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled.

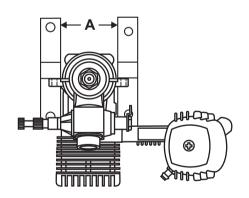


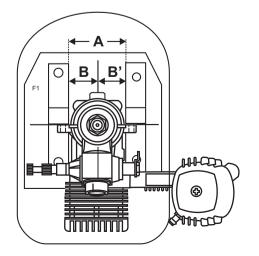
Remove the engine mount beams and drill a 6mm hole through the fire-wall at each of the four marks made above.





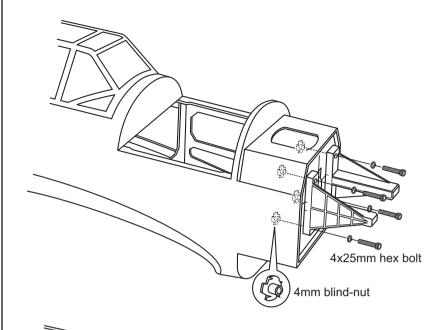
Fuselage - Front-view

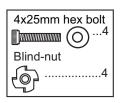




Messerschemitt Me-109 11- Engine mount Continued

3mm



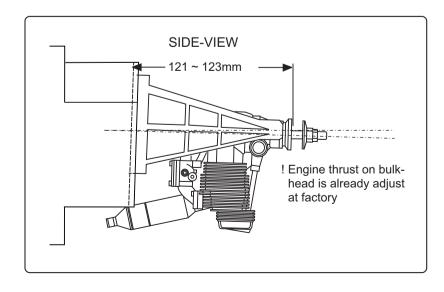


-Reposition the engine on the engine mount beams so the distance from the prop hub to the fire wall is 122mm.

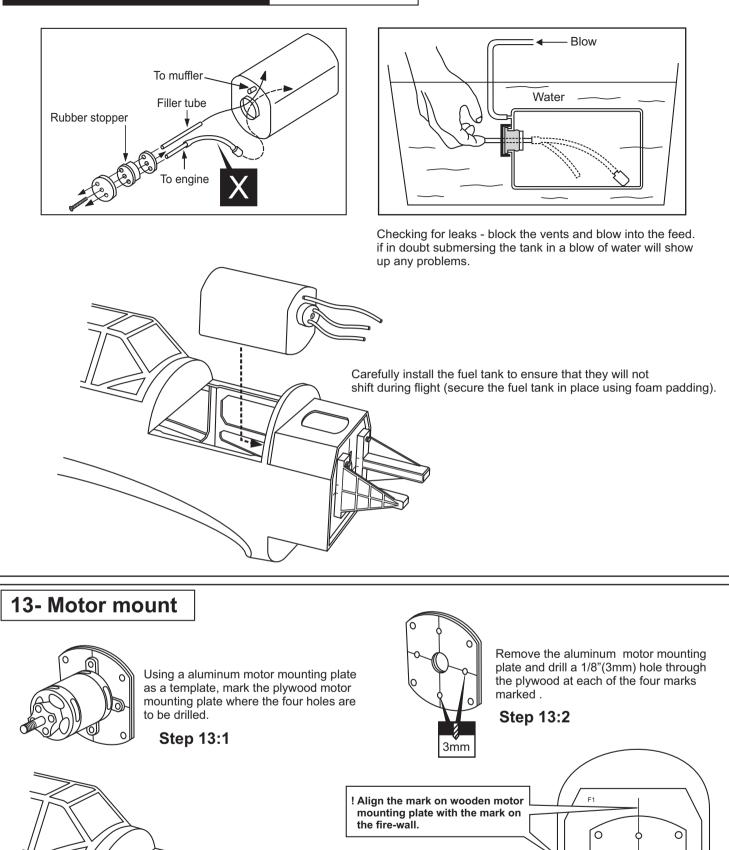
-Mark the engine mounting plate where the four holes are to be drilled.

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

-Reposition the engine on the mounting beams , aligning it with the holes drilled. Insert one 3x25mm hex bolt through each of the mounting holes. Apply silicon (Blue-Locktile 242) to each of the 3x25mm hex bolt and firmly secure the engine to the engine mount using four 3mm nuts.



Messerschemitt Me-109 12- Fuel tank



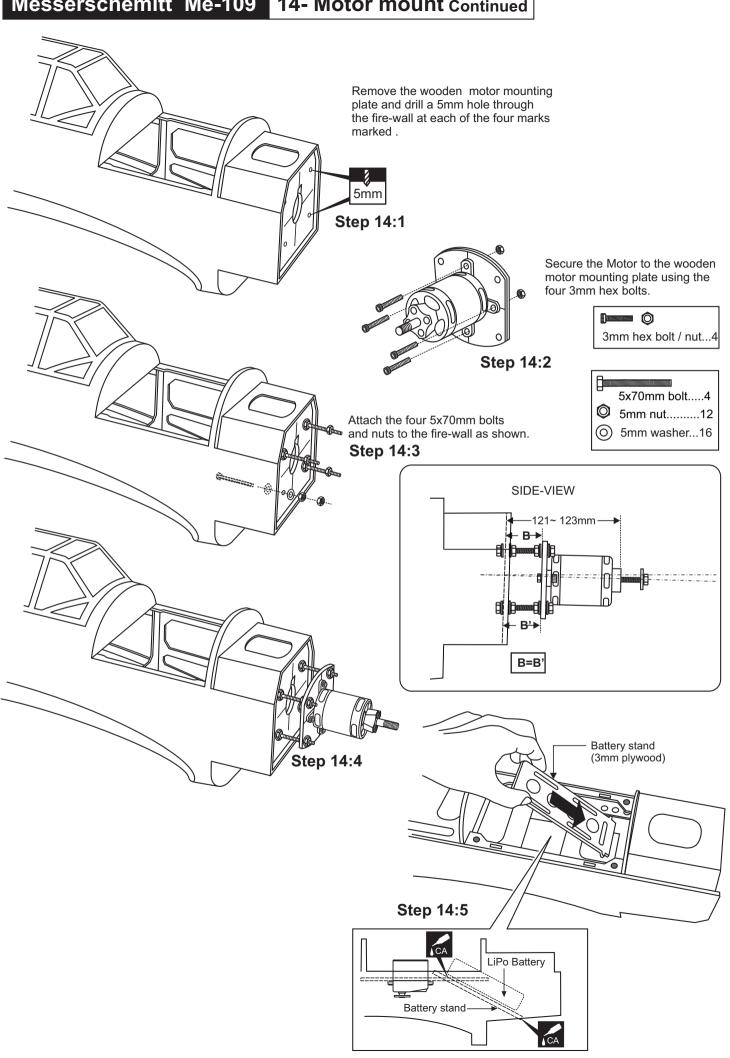
Using a wooden motor mounting plate as a template, mark the fire-wall where the four holes are to be drilled.

Step 13:3

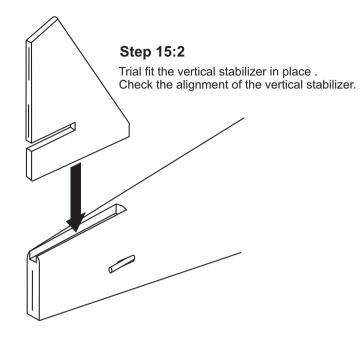
Fuselage - Front-view

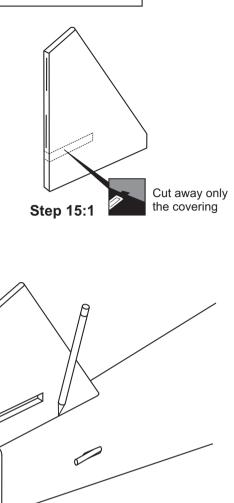
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Messerschemitt Me-109 14- Motor mount Continued



Messerschemitt Me-109 15- Vertical stabilizer installation



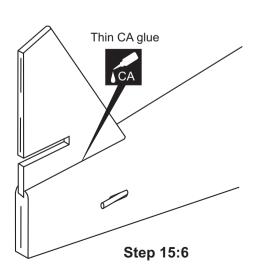


Step 15:4

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.

When you are satisfied with the alignment, use a pencil to trace around the right and left of the stabilizer where it meets the fuselage.

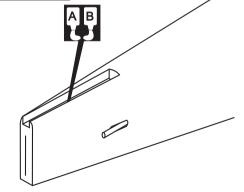
Step 15:3



Use a small glue faucet, Apply the thin CA glue on the vertical stabilizer where it contacts the fuselage.

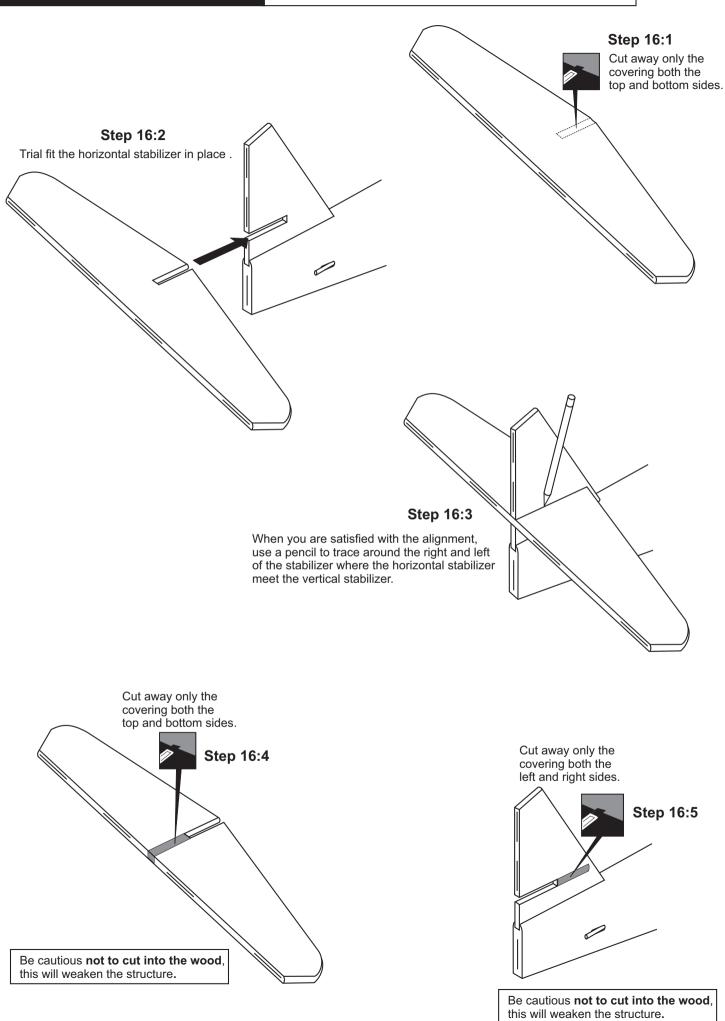
Step 15:5

Apply the thin layer of 15. minute epoxy **on the bottom** of the slot.



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

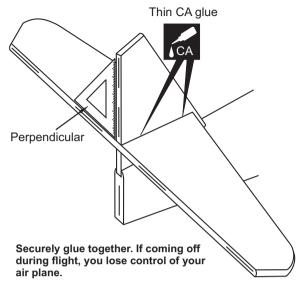


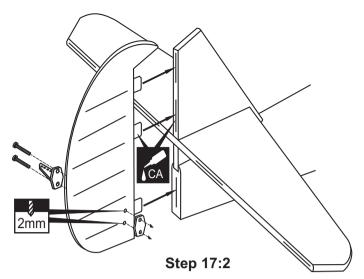


Messerschemitt Me-109 17- Horizontal stabilizer - Rudder - Elevator

Step 17:1

Use a small glue faucet, Apply the thin CA glue on the horizontal stabilizer where it contacts the vertical stabilizer (both the top and bottom sides).



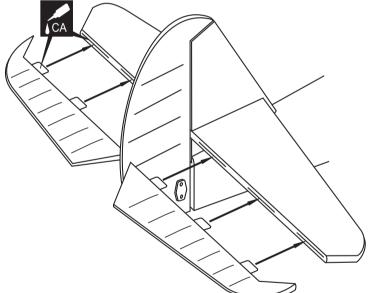


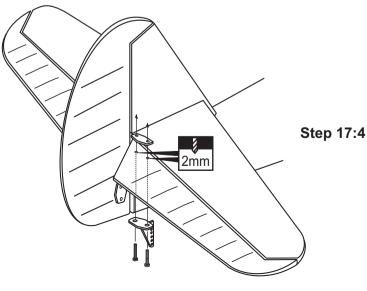
Push the rudder and its hinges into the hinge slots in the trailing edge of the vertical stabilizer. There should be a minimal hinge gap and the end of the rudder should not rub against the vertical stabilizer. When satisfied with the and alignment, hinge the rudder to the vertical stabilizer using thin CA glue. Make sure to apply a thin layer of CA glue to the right and left of both hinges and to inside the hinge slots.

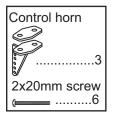
Step 17:3

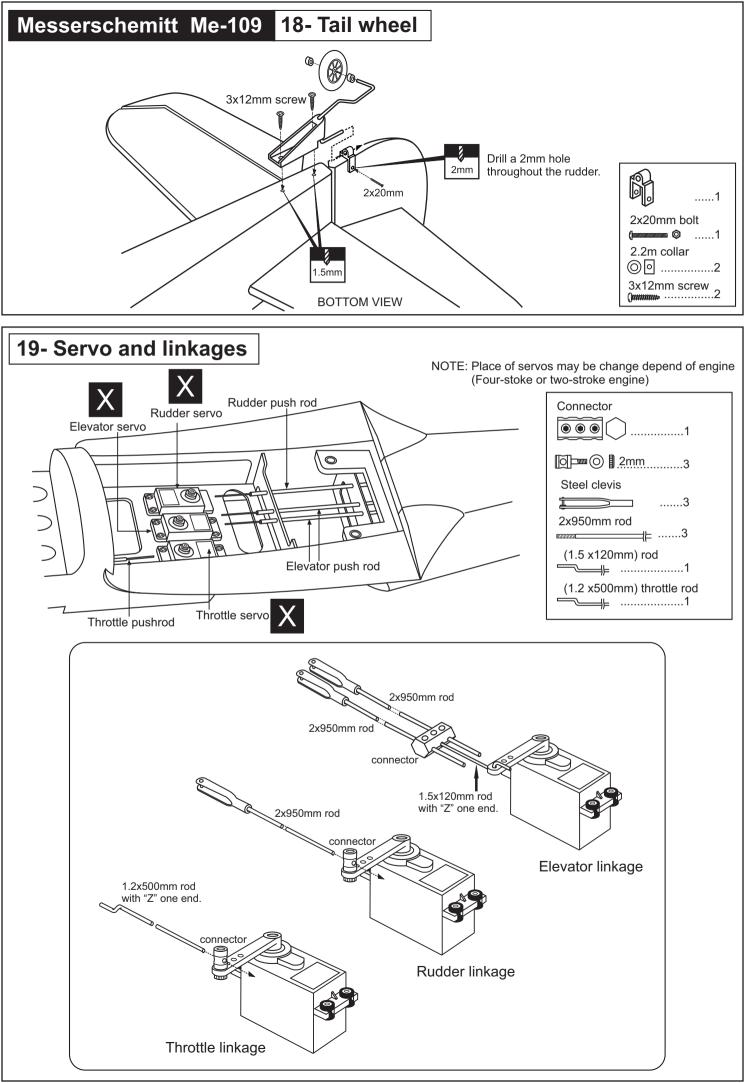
Push the elevator and its hinges into the hinge slots in the trailing edge of the horizontal stabilizer. There should be a minimal hinge gap and the end of the elevator I half should not rub against the horizontal stabilizer.

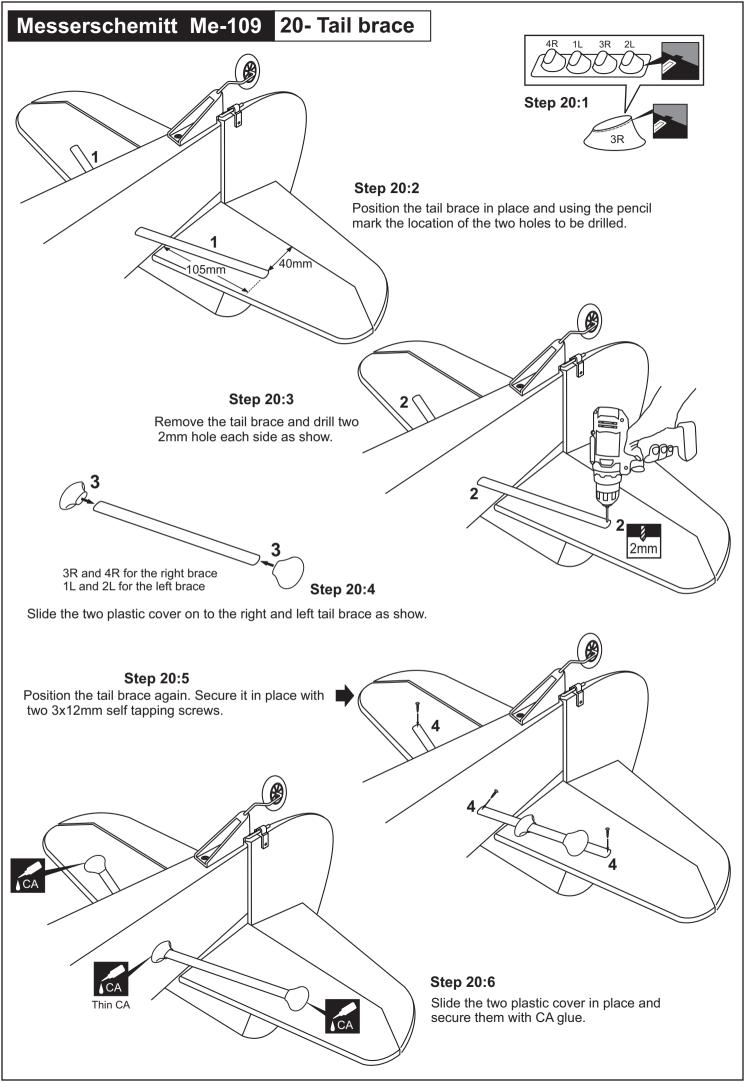
When satisfied with the and alignment, hinge the elevator to the horizontal stabilizer using thin CA glue. Make sure to apply a thin layer of CA glue to the top and bottom of both hinges and to inside the hinge slots. Repeat the previous procedures to hinge the second elevator to the other side of the horizontal stabilizer.

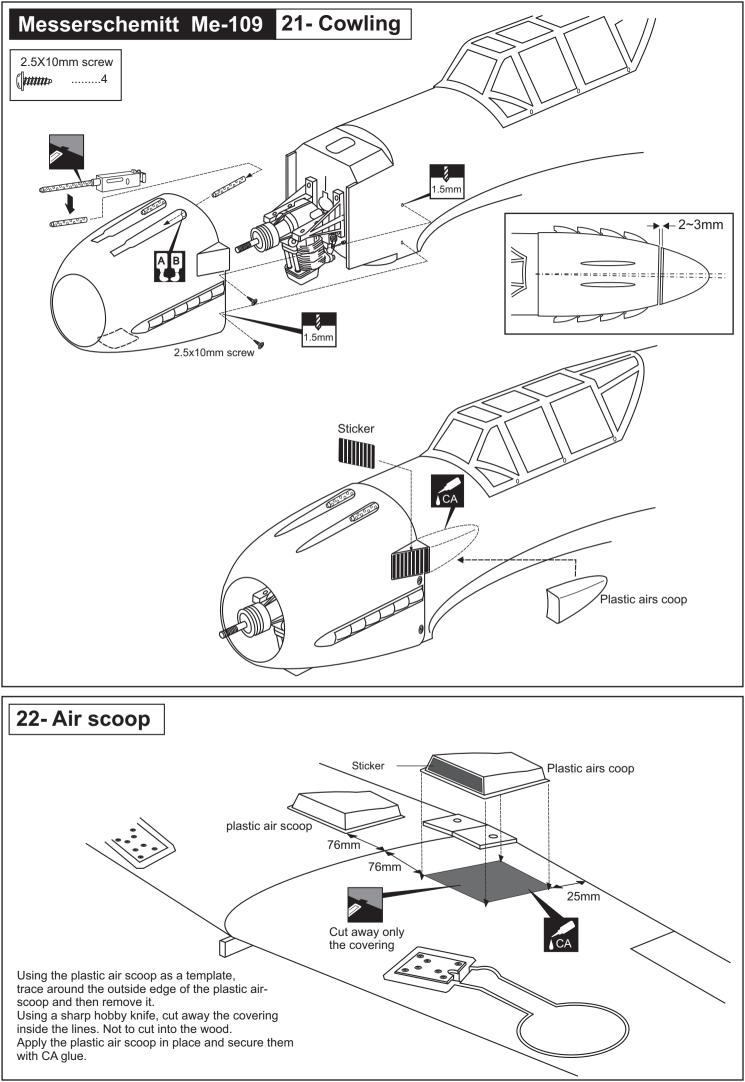


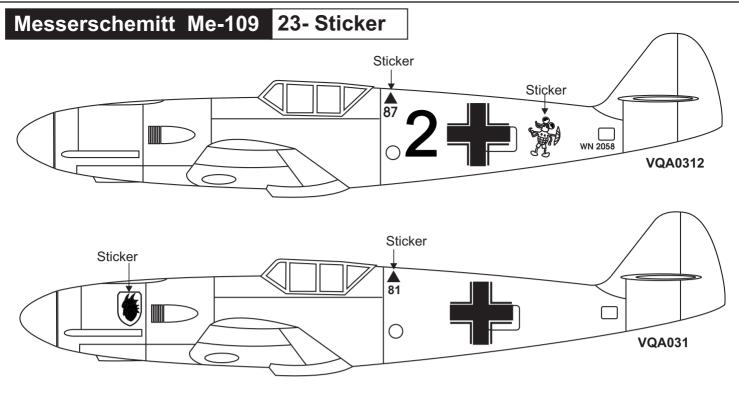










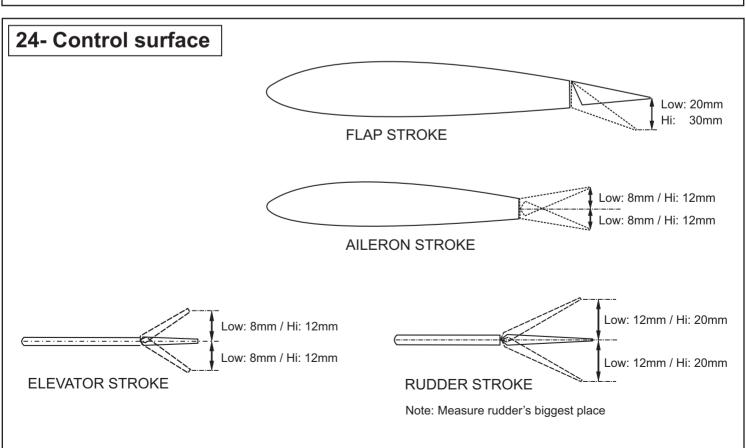


Note: Cut out the stickers and apply them in the proper area. Do not peel the backing paper off all at once. Peel off one corner of the backing and cut off with scissors. Arrange sticker on model and when satisfied adhere the corner without backing.

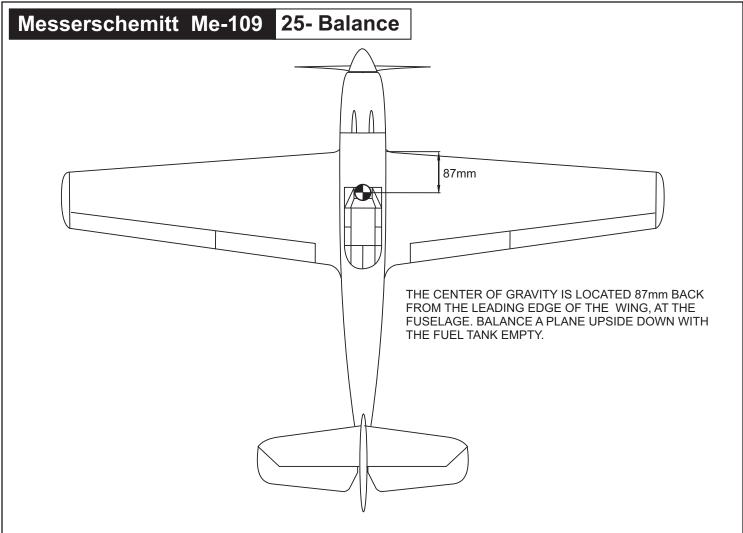
Carefully peel back the rest of the backing while at the same time adhering the rest of the sticker.

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.

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.



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 Me-109 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".



- 1- Mount the wing to the fuselage. Using a couple of pieces of masking tape, place them on the top side of the wing (87mm) back from the leading edge, at the fuselage sides.
- 2- Lift the airplane. Place your fingers on the masking tape and carefully lift the plane.
- 3- If the nose of the plane falls, the plane is heavy nose. To correct this, move the battery pack further back in the fuselage. If the tail of plane falls, the plane is tail heavy. To correct this, move the battery forward or if this is not possible, stick weight onto the firewall.

When balanced correctly, the airplane should level or slightly nose down when you lift it up with your fingers.

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 !