







Me-109



GW/Me-109-FAS1 (G8/Gray)















REPUR-

15. Rubber Grommet x2

14. Playic Tube br2.5x25mm x2

16. Aileron Linkage Wire(L) x1

17. Aileron Linkage Wire(R) x1

18. Elevator Linkage Wire x1

21. Playic Parts Frame"C" x1

22. Rawhan Stickthr3x240mm) v1

19. Push Red/or0.9rem) x3 20 Playle Parts Frame"A" v1







×1

×1

x1

x1

	I. Me-109 Fuselage(Left Side) x1	
0	2. Me-109 Fuselege(Right Side) x1	
0	5. Me-109 Cockpit x1	
٥	Me-109 Main Wing x1	
0	. Me-109 Horizontal Stabilizer x1	
0	3. Me-109 Conepy x1	

CONTENTS OF KIT(PARTS LIST)-

07. Ultra-light Wheel Rim(2') x2 08. Ultra-light Wheel Rim(1") x1 99. Main Landing Gear(9r2.0mm) x1 10. Instruction Manual x1 11. Rubber Band off 12. Tail Dragger(tr1.2mm) x1 13. Push Red Tube(sc) (te460mm) x1

23. Me-109 Decal x1 24. GWS Decal x1 25. Circular Magnet x1 26. Plate x1

27. Rubber Gremmet(bűx2mm) 28. Behl3x30mml 29. Washer(3.2x8x0.5) x1 30. Nut/M33 31. Cowling Fixing Screw(M1.4x9mm TPA) x5 32. Electric Power System(EPS-300C or EDP-400C) or Stone Gilder Parts vi 33. Eps Meunt(10x10x90mm) 34. Prepallar/EP1080 or EP7035) v1

35. Double-Side Spenge Tape x4 36. GWS Glue x1 37, Clay x1

Me-109 POWER SYSTEM INSTALLATION













Drill a 1mm hole by hand drill as picture 4, Secured by a screw. (Pic.5)





Prepare parts(EPS-300C or EDP-400C) (Pic.1.2)
 As shown,mark a line on the EPS mount that is for the thrust angle indication when it is installed on the

fuselage. (Pic.3)
(1) Insert the EPS mount to the electric power system(EPS). Make sure that the mount is pushed into the EPS by 10mm, if it is too tight to insert the mount, trim the mount slightly with knife or sand paper.

Or
(II) Insert the GW/EMM-400M mount to the motor mount. (Pic.6)

Install the EDP-400 motor by front 2 bolt and use rubber band to keep it in place. (Pic.7.8)

FOR SLOPE GLIDER



















- For battery installation cut the foam out as shown. (Pic.9.10)
- Glue the wooden mount in position. (Pic.10)
 The battery pack connecting. (Pic.11)
- Insert EPS frame into the wooden mount, then fix with a screw. (Pic.12.13)
 Glue safety spinner inside of the foam spinner. (Pic.14.15)

Insert spinner on to the shaft as shown. (Pic.16.17)

CAUTION: Please note that the Slope Glider does not include the propeller, motor, gearbox, main landing gear, tall dragger, and ultra-light wheel rim.

FUSELAGE ASSEMBLY















 Cut the plastic tube to specific length 200mmx2, 60mmx1 (P.ic.23) Drill 3mm holes into the L and R fuselage pushrod guide slot, (Pic.18.19)

Insert the plastic pushrod tube (200mm) into the hole, from inside of fuselage and come out the other side approximately 10mm. Glue the tube in place with GWS glue or epoxy. (Pic 20)

Put the power system in the fuselage upper chamfer, making sure it fits and is not

too tight, then pull it out. Apply glue or epoxy and install permanently. (1) EPS-300C (Pic.21) (II) EDP-400C (Pic.22)





Apply GWS glue or epoxy at the indicated area. (Pic.24)

 Once glued, fix in place in 5 or 6 position using either a very low tach masking tape (such as blue painters tape). Velcro tie wraps or make up paper tie wraps and secure with tape that does not come in contact with the painted foam. Note: The adhesive on certain tape can pull off paint from the fuselage. (Pic.25)







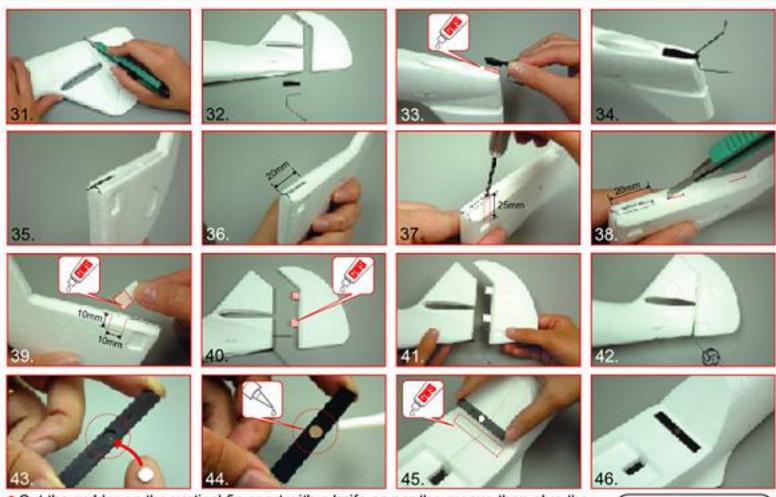




of CA glue to the C®. (Pic.26.27) Make sure you do not get glue on the threads. Apply epoxy glue to the slot of the fuselage, then put the C® in place. Be sure the exposed nut is facing the top of the fuselage when you insert it into the slot, (Pic.28)

 ME-109 tail wheel bracket assembly,insert the tail gear into the bracket (plastic parts C@), then install the Ultra-light wheel (25mm dia.) and fix it with the retainer(plastic parts A(4)) (Pic.29.30)

FUSELAGE ASSEMBLY



- Cut the rudder on the vertical fin apart with a knife as per the groove then glue the tail wheel bracket to the fuselage with GWS glue. (Pic.31.32.33.34)
- For the tail gear wire,cut a 1mmx1mmx20mm slit and drill 1mm dia & 25mm deep hole on the rudder.(Pic.35.36.37)
- According the the dimensions shown, cut a slit (10mm long and deep) at 2 places for hinge installation on the rudder and vertical fin. (Pic.38.39)
- Glue the hinges into the rudder and install it to the vertical fin. (Pic.40.41.42)
- Press the magnet into the plastic part C[®]. (Pic.43)
- Apply a small amount of glue to the C[®] (Pic.44)
- Glue the plastic part C® to the recess of the fuselage. (Pic.45.46)

Frame "C"

COCKPIT ASSEMBLY

















- Glue the plastic part C①on the recess of the fuselage. (Pic.47.48)
- Drill two 3mm holes on the fuselage of the plastic part C① to connect with part C②of canopy. (Pic.49)
- Apply epoxy glue on the slot to glue the plate. (Pic.50.51)
- Put the plastic parts frame C② on the front of the plastic parts frame C①then glue it in place. (Pic.52.53.54)
- Fix the cockpit in place and glue the steel plate in place to catch the cockpit. (Pic.55)



 Glue the plastic part C® on the center bottom of the wing (leading edge), (Pic.64)
 Drill a Notem hole on the plastic part C® for botting the wing to the fuselage, (Pic.65)
 Take the alleron linkage wire and two pieces of subther tole., (Pic.65)

WING ASSEMBLY

Cut each of the rubber tubes in half. (Ple.67)
 Side two of the rubber tube into the aleron linkage wire. (Ple.88.69)
 Put the rubber grommets into the ring on one end of the aleron linkage wires as shown. (Plc.70)

• List the LLODer gootheries mits the ring on cree end of the alerton intrage wires as shown, (HC, 7).
 • Clase the nubber tube in place and trim the allers set (Fig. 7).
 • Glue the nubber tube in place and trim the allers wire as shown, Assemble left and right sides the same multiple of the right sides the right sides the same multiple of the right sides the right sides the same multiple of the right sides the same multiple of the right sides th

WING ASSEMBLY Me-109

















 For the alleron linkage wire, cut a 1mmx1mmx33mm slit. (Pic.73) Drill 1mm dia & 10mm deep hole on the alleron. (Pic.74) Shown as picture 75 is the dimensions for the hinge placement.

 Cut a slit (10mmx10mm) at 3 places for hinge installation on the alteron. (Pic.75.76) Then apply glue to a half of the hinge and insert them into the slits of alleron. (Pic.77) Apply glue on all hinges and alleron wire then insert them to the wings securely. (Pic.78)

semble left and right sides the same way. Cover the alteron linkage wires and wing enforcement with the supplied decals. ⊕⊕&⊕. (Pic.79.80)

WING MOUNTING













main wing and glue the C@ as per guide holes. (Pic 81 82 83 84 85) To fix wing, use 5:3vl 30mm screw and M3 washer Place the screw through the hole and insert the \$5x3 Grommet. (Pic.86)

TAIL ASSEMBLY









 Cut the elevators apart from the horizontal stabilizer with a knife as per the groove, (Pic.88.89) Insert the elevator linkage wire into the fuselage. (Pic.90)

TAIL ASSEMBLY



























Use a triangle to determine the center of the horizontal stabilizer and mark indication lines as shown. (Pic.91)
 Insert the stabilizer into the fuselage. (Pic.92.93)

Insert the stabilizer into the fuselage. (Pic.92.93)
 Trial fit the stabilizer in position at the mark you just made. (Pic.93)

Trim the elevator linkage wire on the center line of the stabilizer. (Pic.93)
 Check the horizontal stabilizer with the wing and adjust the alignment as described. (Pic.94)

Ensure that the horizontal stabilizer is also level in regards to the fuselage and vertical fin. (Pic.95)
 Make sure all is in place, then spread the glue on the horizontal stabilizer which contacts the fuselage. (Pic.96)
 For the elevator linkage wire, cut a 1mm deep & wide and 27mm long sit. (Pic.97)

Drill a Vimm dia & 18mm deep hole on the elevator. (Pic.97)
 Assemble left and right sides the same way.

According to the dimensions shown for hinges. (Pic.98)
 Cut a slit (10mm long & deep) at 2 places for hinge installation on the elevator. (Pic.98)

Then apply glue to a half of the hinge and insert them into the slits. (Pic.99)
 Apply glue on all hinges and elevator linkage wire and insert them to the horizontal stabilizer securely. (Pic.100.101)
 Assemble left and right slots the same way.

MAIN LANDING GEAR ASSEMBLY-













The main landing gear system including. Main landing gear (42.0mm piano wire), ultra-light wheel rimx2, Screwsx4
Retainer (GWS-STICK-FAS6#1x2) (Pic.102)



Secure the landing gear to the mount by screws, as picture shows. (Pic.103.104)
 Fix the retainer to the axia. (Pic.105.106)

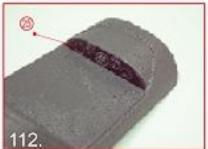
CANOPY INSTALLATION

















- Your transparent canopy. (Pic.108)
- Cut out the extra material of the canopy. (Pic.109.110)
- Use sticker ③④. Place on windshield as shown. (Pic.111)
- Use sticker 25. (Pic.112)
- Apply specialized adhesive on be windshield and canopy. (Pic.113.114.115)

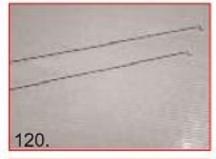
RADIO CONTROL SYSTEM INSTALLATION

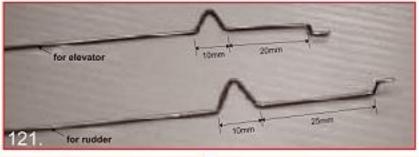




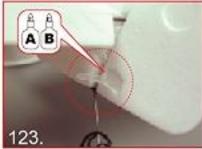


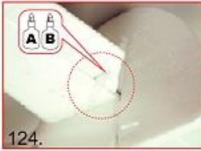


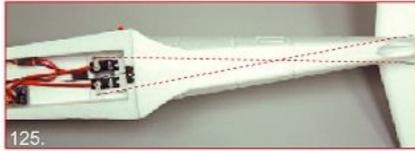












- Clean the outer shell of servo, receiver and speed controller with paper towel and alcohol. (Pic.116)
- Apply the double side foam tape to the servos as picture. (Pic.117)
- Put the servo in location. (Pic.118.119)
- Bend a "V" shape on the push-pull rod. (Pic.120.121)
 Please note the locations of "V" are different. (Pic.121)
- Connect the push-pull rod to control horns. (Pic.122)

The horn has two holes if you use inner hole 🥄 the moving angles are bigger then if you use the outer hole. 🤇

- Put the push-pull rod through the guided plastic tube. For the rudder please use the left side tube. For the elevator please use the right side tube. Fix the control horn to rudder and elevator with epoxy. (Pic.123.124)
- Push-pull rod arrangement for tail units. (Pic.125)

RADIO CONTROL SYSTEM INSTALLATION Me-109





- Connect the wires of SERVO, ESC and EXTENSION WIRE to receiver. (Pic. 126)
 Put the receiver as picture 126 shown and use double side tape to keep it in location.
- Please note the receiver is on the AFT side of fuselage.)

 Set the servo in neutral, install the servo horn, use a marking pen mark out the connecting point on the
- push-pull rod. (Pic.127.129)

 Bend a "Z" connector on marked point of push-pull rod and cut the extra wire. (Pic.128)
- Please note that the servo horn has several holes and the inner hole connection will always give more
 moving angle to rudder or elevator than outer holes.
- Servo horn connection complete. (Pic:126)
 Cut the rest push-pull rod to 2 parts.
- Cut the rest push-pull rod to 2 parts.
 Please follow the instruction on picture 130 to make your Aileron push-pull rod. (Pic. 130)
- Connect rod to rubber grommet of alleron connect rod. (Pic.131)
 Set the Aileron servo on netural position, install Aileron horn, use a marking pen to measure out aileron
- push-pull rod length. Make a "Z" connector on the rod and cut the extra wire. (Pic.132)

 The correct arrangement of alleron servo connection. (Pic.133)
- Use alleron extension wire to connect to the servo wire. (Pic.134)
 Install the wing to fuselage. (Pic.136)
- Please keep away of all wires from the joint area.
- Put the plastic tube 60mm in the fuselage with GWS glue. (Pic.135)
- The assembly of your "Me-109" is now complete. (Pic.137)
 Do not cut or coiled the extra antenna.

- BALANCE AND BATTERY PACK LOCATION -





The optimum C.G. for this model was 60mm from the leading edge. (see flight testing for results).
 With this setting the plane performed the best. (Pic.136)

For more stable flight you may move the C.G. forward. But do not exceed to 5mm. (Pic.137)
 Please use part of the included clay stick to help achieve the desired C.G. if added weight is required for balancing.
 Do not fly whitout a properly balanced plane.