Fokker D.VIII INSTRUCTIONS

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• KIT INCLUDES



Full size plan. Lasercut parts.

asercut parts.
3.0mm W100xL600mm plywood : 5sheets
2.0mm W100xL60mm plywood : 1sheet
5.0mm W100xL510mm balsa : 1sheet
5.0mm W100xL420mm balsa : 1sheet
3.0mm W100xL600mm balsa : 4sheets
3.0mm W100xL490mm balsa : 1sheet
3.0mm W100xL440mm balsa : 1sheet
3.0mm W100xL330mm balsa : 4sheets
3.0mm W100xL133mm balsa : 1sheet
1.5mm W100xL600mm balsa : 4sheets
1.5mm W100xL575mm balsa : 3sheets
1.5mm W100xL465mm balsa : 1sheet
1.5mm W100xL355mm balsa : 3sheets
1.5mm W100xL330mm balsa : 4sheets



Landing gear(2.5mm Music wire 1x360, 2x170, 2x168mm) Aileron Pushrods (2ea) CA hinge Rubber rings for tire(2ea) Neodymium Manetics (6ea) 3mm Screw (4ea) Clear Plastic



Instructions and Stickers.

Download full color instructions from http://www.estarmodels.com [Download] menu.

• ITEMS NEEDED TO COMPLETE

CAUTION

Be sure to use suitable power. Too much power makes this plane unstable.



Brushless Motor (Max 25A/300W) Brushless ESC 40A Slow Propeller 1147



Receiver (4ch Min.) 4 submicro Servos



Li-Poly 3s(11.1V) 3000~3300mAh Battery

White

Red

Black

Two and half rolls of covering film.



Thick nylon thread, rubber bands EZ connectors (2ea) and Wheel Collars (4ea)

PREPARATION



Remove parts from laser-cut panel and group as shown.

VERTICAL TAIL



1. Lay waxed paper or PE film over the plan. Pin the vertical fin parts(R1-R4) and rudder parts(R6-R11) on the plan and glue together with thick CA.



2. Glue sheet(R5), capstrips(R12-R14) and parts(R15-R16) with thick CA.



3. Remove vertical tail from the plan and glue fin sheet(R5), capstrips(R12-R14) and parts(R15-R16). Apply **thick CA glue** at each joints for reinforcing.

HORIZONTAL TAIL



1. Lay waxed paper or PE film over the plan. Pin the horizontal stabilizer edges(E1-E3) on the plan and assemble parts(E4-E8) with thick CA. Use 1.5mm balsa scrap as a supports for the edge parts.



2. Glue upper sheet(E9T), capstrips(E10-E12) with thick CA.



3. Remove horizontal tail from the plan and glue lower sheet(E7A,E9B), capstrips(E10-E12) with thick CA.



4. Glue the leading and trailing edge (E13-E15). Apply **thick CA glue** at each joints for reinforcing.



5. Place lower sheet(E26), lower capstrip(E27-E29), leading edge(E16-E17) on the plan. Assemble and glue the edges(E18-E19,E24-E25) and ribs(E20-E23).



6. Glue upper sheet, capstrips(E26-E39) and upper tip sheet(E30) with thick CA.



7. Glue Lower tip sheet(E30) and leading and trailing edge (E31-E35).

Apply thick CA glue at each joints for reinforcing.

• WING

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1. Glue center spars(W1-W5, W3-W6) together.



2. Glue left spars(W2, W4) on center spars(W5, W6).

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3. Glue right spars(W2, W4) on center spars(W5, W6).



4. Lay waxed paper or PE film over the plan. Glue lower center and right panels (W27B-W29B,W30-W31,W32B-W37B,W38).



5. Glue lower right panels as same way of left ones.



6. Pin lower fore and rear lower spar on the plan. Use 1.5mm scrap balsa as a supports for fore spar and 3.0mm scrap balsa as a supports for rear spar. Assemble wing ribs(W7-W14).



7. Assemble upper spars, sub leading edge(W15-W16), outboard trailing edge(W20) and wingtip(W21-W23). Glue together with thick CA.



8. Assemble right wing as same way of left wing. Glue center trailing edge(W24).



9. Pin the wing jigs(J1-J4) in place to assemble left wing.



10. Lay lower left panels on the jig and then pin the left wing frame. Assemble and glue tailing edge(W17,W25), leading edge(W18-W19) and aileron servo rail(W26).



11. Pin the wing jigs(J1-J4) in place to assemble right wing. Lay lower right panels on the jig and then pin the right wing frame. Assemble and glue tailing edge(W17,W25), leading edge(W18-W19) and aileron servo rail(W26).



12. Glue upper right panels(W27T-W29T,W32T-W37T).



13. Pin the wing jigs(J1-J4) and left wing frame in place and glue upper left panels(W28T,W32T-W37T).



14. Glue leading edge blocks(W39-W40). Apply **thick CA glue** at each joints for reinforcing.

• AILERONS



1. Lay waxed paper or PE film over the plan. Assemble and glue leading/trailing edge(A1-A2), lower capstrip(A7B-A10B,A11) and ribs(A3-A6).



2. Glue upper capstrip(A7T-A10T).



3. Assemble right aileron as same way of left aileron.

FUSELAGE



1. Glue right and left bulkheads(F1-F7) together.



2. Glue strut mounts(S4-S9) on the rear side of bulkhead F1 and fore side of bulkhead F3.

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F12	F12	In the state of the
F13	F13	
F13	F13	
F14	F14	

3. Glue fore and rear longerons(F12-F14) together.



4. Assemble bulkheads(F1-F6), longerons(F11-F16) and battery tray(F10). Glue together with thick CA. Attention Check your battery size before assemble bulkheads(F1-F2). If necessary, enlage battery space.



5. Assemble bulkheads(F7-F9), longerons(F17-F17A), horizontal tail seat(F18) and servo tray(F19-F20). Glue together with thick CA.



6. Glue turtle deck(F21).



7. Glue bottom deck(F22-F25).



8. Glue right and left side panel(F26-F27).



9. Glue rear fuselage side panels(F28L,F28R).



10. Assemble and glue motor mount(F29-F32).



11. Glue right and left fire wall(F33) and cowling ring(F35) together.



12. Assemble and glue fire wall(F33), cowling stiffners(F34) and cowling ring(F35). Prepare cowl fairing(F36).



15. Glue cowl fairing(F36).



16. Assemble and glue fore cowl parts(F37-F41).



17. Glue cowl in place.



18. Insert and glue magnetics to engine cover(F43) and cover mounts(F42). Glue engine cover mounts in place. Attention Check the poles of magnetics before glueing.



19. Glue wing strut(S16) together.

• SHAFT FAIRING



1. Glue landing gear mounts(S10-S13) on the inside of fairing rib(L1).



2. Assemble and glue ribs(L1-L2), spars(L3) and sub leading edge(L4).



3. Glue lower panel(L10), lower capstips(L11-L12) and trailing edge(L5).



4. Glue upper panel(L6-L7,L9) and upper capstips(L8).

• WHEELS and DUMMY ENGINE



1. Glue wheels as shown(L14-L15). Impregnate wheels with thin CA glue for reinforcing.



2. Assemble and glue crank case of dummy engine(M1-M4).

Roll up PVC film to the parts(M5) for dummy engine cylinders.

(Refer to dummy engine cylinder template on the drawing.)

Attention Balancing weight needed in the nose. One of the best method is putting weight in the dummy engine cylinders.



3. Glue dummy engine cylinders to crank case and glue rocker arm(M6) and valve pushrod(M7).

PAINTING and COVERING



1. Sand carefully all the surfaces.



2. Insert and glue steel wires to S14, S15 and tie with thread. Impregnate struts with thin CA glue for reinforcing.



3. Paint cowl inside, wheels, struts, skid, dummy engine and machine guns.



4. Paint cockpit coaming and cockpit inside.



5. Cover film as shown above.

• FINAL ASSEMBLY



1. Cut CA hinges as shown above.



2. Glue the parts(S1-S3), plywood horn(A12,E36) and make hinge slots and then install hinges..



3. Temporally insert struts(S16-S18) and fix wing with screws. Check wing incidence as shown.



4. Glue plywood horns right & left(R18) of rudder and make hinge slots and then install hinges. Remove wing.



5. Glue and insert struts in place with epoxy bond and then fix wings again. Check wing alignment. After the glue had set hard, unscrew and remove wing again.



6. Install rudder, elevator and aileron servos.



7. Install motor and glue dummy engine to the motor mount.



8. Glue tail struts(S19) and tail skid(L16).



9. Glue rubber rings to the wheel with thin CA. Install wheel and collars to the main landing gear. Tie main landing gear and shaft fairing with elastic cord to function as a shock absorber.



10. Glue and insert struts(S14-S15) in place with epoxy bond and then bracing wires with thick thread.



11. Glue machine guns(F45), step(F46), lift handle(F47) and windshield. (Refer to windshield template on the drawing.)



12. Fix wing again with screws

• PRE-FLIGHT CHECK

Check CG. (CG location is shown on the drawing.) Balancing weight needed in the nose.

Control Throws.

The following control throws are recommended starting points. After you are familiar with this plane, you may increase, or decrease.

- Ailerons : 16mm(5/8") up and down.
- Elevator : 25mm(1") up and down.
- Rudder : 45mm(1-3/4") right and left.