

Airplane

XHawk Build Log

Specifications

Subsystems

- [Avionics](#) (pitot-static, directional, engine, nav, panel)
- [Electrical System](#) (bat/alt, starter, lights, switches, wiring)
- [Engine and Propeller](#) (oil cooler, baffling, governor, mags, spinner)
- [Fabric and Paint](#) (fabric cover, paint of fabric and aluminum)
- [Flight Controls](#) (elevator, ailerons, rudder, flaps, trim)
- [Fuel System](#) (tanks, caps, fuel lines, gascolator, valve)
- [Fuselage](#) (firewall, seats, vert/hor stab, windows/doors)
- [Landing Gear](#) (wheels, shocks, brake system)
- [Wings](#) (wing tips, service panels, struts)

Build Instructions

Prerequisites

1. acquire build permit and pay fee
2. select supervisor (ACG or IECA)
3. schedule meeting with build supervisor (kit/shop review)
4. IECA build supervisor selected and approved with ACG
5. kit/shop review with supervisor
6. create build milestones and review schedule

Construction Techniques

- [about](#)
- [support](#)
- [workshop setup](#)
- [screws & threads](#)
- [nicopress](#)
- [plumbing](#)
- [drilling holes](#)
- [aluminum](#)
- [riveting](#)
- [steel](#)
- [welding](#)
- [fiberglass](#)

- [nutplates](#)

Final Assembly

1. final assembly
2. determine empty weight & balance
3. fuel flow test
4. prime oil
5. first engine start
6. FAA/DAR inspection
7. develop flight test plan
8. fly the Berahawk