SONEX Onex Model Guide

SONEX Onex is a single-engine piston aircraft from Sonex Aircraft, LLC, built by amateurs. The supplied documents are an avionics and electrical drawing and wing installation instructions. They give no price, weight, range or engine-output figures, so confirm those with the builder or seller.

KEY TAKEAWAYS

- SONEX Onex is amateur-built, so each aircraft's wiring and equipment can differ. Inspect the individual airplane closely.
- Sonex does not supply a full electrical schematic. Ask the seller for the owner's own wiring diagrams and equipment list.
- The wings come off and go back on with spar pins, so check the pins, safety pins and linkages at every assembly.
- The ASI arcs run to a never-exceed speed of 217 MPH, and the green arc ends at 151 MPH.

AIRSPEED MARKINGS

The Onex avionics drawing gives airspeed indicator markings in MPH. White arc: 40 to 110 (stall with flaps to maximum flap extension speed). Green arc: 50 to 151 (stall with no flaps to maximum structural cruise speed). Yellow arc: 151 to 217. Red: 217 and up (never exceed speed).

ELECTRICAL AND ENGINE WIRING

The main power bus is fed from a 12V battery through a master relay and master switch. The suggested battery cable size is 4 gauge, but sizes may change to suit the installation. Sonex recommends MIL-W-22759/16 wire and following each component maker's instructions. Without specific guidance, use AC 43.13. AeroVee engines must be wired per the AeroVee Assembly and Installation manual.

WING INSTALLATION AND REMOVAL

The wings slide into the fuselage spar box and are held by spar pins, each secured with a safety pin. Flap pushrods, aileron pushrods and pitot lines are then connected. Pitot lines are checked for leaks. Removal is the reverse and needs two people per wing, one at the tip and one at the root, with the flap supported.

SAFETY NOTES

- Check that all four safety pins are installed in the spar pins, and that the flap and aileron pushrods are connected and safetied.
- Check the pitot lines and pitot tube for leaks after any wing reassembly.
- Inspect the wiring against the component makers' requirements: circuit design, fusing, wire size and switching.

AI-aggregated guide for the SONEX Onex · sources: Avionics & Electrical System (#100708) · Wing Installation Instructions (#102661) · generated 2026-10-21 · Reference only, not for flight. Check the original documents before relying on this guide.