

Sorrell SNS-8 Single Seat Biplane

Unfinished kit, approximately 80% finished

Page 1

General information

- * Smaller (non-aerobatic) version of the Sorrell Hiperbiplane aerobatic aircraft.
- * Construction is tube and fabric.
- * Designed using conventional aircraft certification standards.
- * Kit can be completed as an Ultralight, Light Sport, or Experimental aircraft.
- * This kit is modified by the Sorrell Engineers for enhanced performance.
- * Needs fabric on fuselage, final finish on wings and tail, and final paint.
- * All materials for completion included, except minor hardware.

Specifications (as an Experimental aircraft)

Wing span	22 ft
Length	15 ft 6 in
Load Factor	6.0, -3.0

Interior Dimensions

24" width

32" from rudder pedals to front of seat

41" from rudder pedals to seat back

(A bracket could be added and the seat could be moved back 2-3". Owner is 6'2" and fits fine.)

The following will need to be established by flight test:

Empty weight	(approx. 301 lbs)
Gross weight	(approx 570 lbs)
Cruise speed	(approx 100 mph)
Stall speed	(approx 30 mph)
Rate of climb	(approx 2,000 fpm)
Takeoff distance	(approx 100 ft)
Landing distance	(approx 200 ft)

Airframe

- Tube and fabric construction (poly fiber)
- Symmetrical "Speed Wing"
- Elevator trim control
- Flap/Aileron system (flaperon)
- 10 gallon aluminum fuel tank
- Skylight overhead window
- Cabin air vents
- Hydraulic wheel brakes (heel)
- Upgraded pitot/static strut probe
- Integral radio antenna fuselage mount
- Threaded aft tail quick disconnect fasteners



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<https://youtu.be/4okblPSihbU>

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Page 2

Powerplant

Rotax 503 50hp engine, dual carbs, dual ignition, with Type B gearbox (new from factory)
3-blade, ground-adjustable propeller
GPL electric starter
Back-up electric fuel pump with "pump on" indicator light
Engine primer
Cabin remote choke
Vernier adjustable throttle
Engine tachometer
Dual CHT indicators
Dual EGT indicators
Amp meter
Volt meter
Hour recording meter

Electrical

Engine charging system/storage battery
Electrical master switch
Avionics master switch
Dual ignition On/Off switches

Flight Instruments

Airspeed indicator
Altimeter
Vertical speed indicator
Slip indicator
Wet compass
Clock/timer



Notes:

- * Kit has been stored inside a hangar at low humidity.
- * Parts to finish construction are included. Minor hardware may need to be procured.
- * This is a very reliable, strong and durable aircraft. However, it is not designed for aerobatics.
- * The aircraft (kit) has been assembled for viewing.
- * More history and videos on this aircraft design are available online (links at www.nospinaircraft.com)