

SEQUOIA FALCO F8L

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1. USA contact

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2. Description

Considered by many to be the ultimate homebuilt aircraft, the Falco is an aerobatic, two seat low wing all-wood aeroplane with a retracting tricycle undercarriage and sliding bubble canopy with fixed windshield.

3. Fast Build Kit 51% Compliance

Not applicable – aircraft built from drawings or slow-build kit.

4. Build Manual

Sequoia provide a comprehensive set of drawings and a build manual.

5. Build Instructions

Build inspection schedule 1 (wooden aircraft).

Inspector approval codes A-A or A-W. Inspector signing off final inspection also requires 'first flight' endorsement

6. Maintenance Manual

In the absence of manufacturer's maintenance schedule, refer to LAMS. For engine and propeller, refer to engine and propeller manufacturers' maintenance schedules respectively.

7. Flight Manual

Sequoia supply a Flight Manual and flight test guide

8. Mandatory Permit Directives

None applicable specifically to this aircraft type, but note

MPD: 1998-019-R1 Flexible Fuel Tubing Applies to all aircraft

9. LAA Mandatory Modifications

Nil

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10. Service Bulletins

In the absence of any over-riding LAA classification, mods and inspections published by the manufacturer should be complied with according to the manufacturer's recommendation.

93-1 Mass balancing tolerances for flaps and stiffening of flap motor mount

11. Standard Options

Standard or Nustrini canopy

12. Special Inspection Points

This is a complex aircraft and requires very careful inspection throughout.

13. Operating Limitations and Placards

1. Maximum No. of Occupants
 - 1.1 Maximum number of occupants authorised to be carried (including crew): Two
 - 1.2 The minimum flight crew is: One pilot. No-one shall be carried except minimum crew during flights for the purpose of public exhibition and demonstration flying.
2. The aircraft must be operated in compliance with the following operating limitations which shall be displayed by means of cockpit placards or instrument markings:
 - 2.1 Aerobatic Limitations
Intentional spinning is permitted.
Aerobatic manoeuvres imposing g forces in excess of +6g or -3g are prohibited.
 - 2.2 Loading Limitations
Maximum Total Weight Authorised: 820 kg
(may be increased to 854 kgs with VP prop)
Maximum Total Aerobatic Weight: 750 kgs
CG Range: Limits 1.74m to 1.9m aft of the datum point.
Datum Point is: Front face of propeller mounting flange.
 - 2.3 Engine Limitations
Maximum Engine RPM: 2700
 - 2.4 Airspeed Limitations
Maximum Indicated Airspeed: 240 mph
Maximum Indicated Airspeed flaps extended
20 degrees: 112 mph
45 degrees: 100 mph
Maximum Indicated Airspeed undercarriage extended: 125 mph
 - 2.5 Other Limitations
The aircraft shall be flown by day and under Visual Flight Rules only.
Smoking in the aircraft is prohibited.

Fireproof identification plate must be fitted to fuselage, engraved or stamped with aircraft's registration letters

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14. Maximum Permitted Empty Weight

N/A

15. Special Test Flying Issues

Refer to Falco flight test guide

16. Control surface deflections

Ailerons	Up: TBD degrees
	Down: TBD degrees
Elevators	Up: TBD degrees
	Down: TBD degrees
Rudder	Left TBD degrees
	Right TBD degrees
Flap	Down TBD degrees
Elevator tab	Up and down TBD degrees

Approved:



F.R. Donaldson
Chief Engineer

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