

Aircraft Record General Information

Manufacturer RAIVS Model RANS S-12XL AIRAILE
Serial 05990881 Registration Number N518D
Date of Manufacture _____

Engine(s) currently installed:

Manufacturer ROTAX Model 912 UL Serial 4403235
Manufacturer _____ Model _____ Serial _____

Propeller(s) currently installed:

Manufacturer POWERFIN INC Model FL368P

HUB Model _____ Serial 8212 / 1 Serial _____
Blade Model _____ Serial FL68PI5JC08 Serial _____ Serial _____
Blade Model _____ Serial _____ Serial _____ Serial _____

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YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Copperstate Aero, LLC
A Stemme USA Service Center

Tucson, AZ. 85745

Ofc.

N518D

Rans S12

S/N: 05990881

March 04, 2022

A/C total time: 1239.7

Engine TT: 1239.7

Propeller TT: 1239.7

Engine S/N: 4.403.235

Complied with routine maintenance on airframe and engine. Complied with Rotax 5year Rubber Replacement Schedule. Replaced all Engine Coolant Hoses, p/n 922250. Serviced coolant with Prestone 50/50 Dex Cool. Replaced leaking Radiator; removed 24" Modine Radiator Core and installed new 26" Modine Radiator Core. Replaced Engine/airframe Fuel Lines, p/n ArmorMark J30R7. Replaced Aux Electric Fuel Pump; removed Facet Electronic Fuel Pump, p/n Unk; installed Facet Electronic Fuel pump, p/n IM 604, s/n 06648. Replaced engine oil lines, p/n 956390. Complied with Rotax SB912-022, Venting of Oil System. Serviced with 3lts. AeroShell Sport Plus 4 Oil and Rotax filter, p/n 825016. Replaced Carb Sockets, p/n 267789 (2). Replaced carb socket o-rings, p/n 230300 (2). Replaced Engine Driven Fuel Pump. Removed p/n 893115, s/n 15.1766; installed p/n 893115, s/n 20.2936. Overhauled both carbs with p/n 889534. Weighed floats, 6.4oz Left, and 6.2oz. Right. Balance carbs to engine. Set engine Idle to 2000 RPM.

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Continued from Previous Page:

Compression check using Rotax method #1; #1. 78/80, #2. 78/80, #3. 78/80, #4. 78/80. Replaced other Engine Rubber parts, various. Replaced engine Induction Air-filters, p/n 825551 (2). Replaced Ignition Module rubber snubbers for damage, p/n 860710 (2), p/n 960060 (1). Replaced broken Ignition Module attach bracket, forward, p/n 851267. Removed Prop Gearbox and replaced Bearing Set, p/n 232241 and Oil Seal p/n 950200. Removed and Replaced Gearbox per Rotax Heavy Maintenance Manual, Chapter 72-00-00, page 22, 23, 26, 27, and 53. Adjusted brakes, reserviced with AeroShell 5606 fluid. Replaced Fuel Pressure Gauge, p/n Stewart Warner 82320. Installed Aviasport Electronic Fuel Pressure Gauge, p/n IM-567, s/n 21086 and UMA Pressure Sender, p/n NIEU07G, s/n B0783. Engine troubleshoot for rough running at idle speeds below 2000RPM. Troubleshoot 1000RPM Mag Drop at 4000RPM, L/R. Inspected/tested Ignition Module's, Stator Coil and harness, and Trigger Coils and harness, all tested good. Replaced "P Lead" cables and connectors. RPM drop at 4000 now 100RPM L/R. Unable to determine cause of vibration and roughness of engine between 1600-2000 RPM but suspect 'Big Bore' Engine Kit. Power runs above 2000RPM. Conducted leak check, none noted. Aircraft returned to service.

DATE	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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Tucson, AZ. 85745

Cell
Ofc.

N518D
Rans S-12
S/N: 05990881

Conducted routine Maintenance. Adjusted carb idle to 1500RPM, rebalanced carbs to engine. Troubleshoot rough running engine performance. Found and repaired broken Ignition Coil wiring to #1 and #3 coils. Run engine, checked performance. Runs smooth through full range, makes power, no drop 1500RPM left/right fuel pressures 3.5-4.0PSI. Returned aircraft to service.

March 21, 2022
A/C total time: 1238.6
Engine TT: 1238.6
Prop TSO: 1238.6
Engine S/N: 4.403.23

RECORD
TACH
TIME

Date: 02/08/2023 **Hours:** HOBBS: 1372.1

Tail#: N518D

Make: RANS

Model: S-12XL AIRAILE

S/N: 05990881

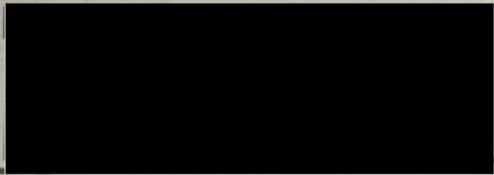
-Replaced main batteries with new Duracell AGM 12V 18AH P/N: DURA12-18NB.

-Ops test good.

-----END-----

Name: Struan Denton

Co: Denton Aeroworx

Sign: 

Technician or Rep

YEAR:	RECO TACH TIME
DATE	

Date: 02/08/2023 Hours: HOBBS: 1372.1

Tail#: N518D

Model: S-12XL AIRAILE

S/N: 05990881

Make: RANS

-Removed R/H carburetor and sent to Leading Edge Airfoils for bench testing due to fuel leak.

-Received back with new float chamber P/N: 963-233 installed. (See log entry for details)

- Re-installed carb and performed synchronization.

- No leaks noted post ground run and test flight.

-----END-----

Name: Struan Denton

Co: Denton Aeroworx

Sign:

Date: 06/07/2023 **Hours:** Hobbs: 1423.8

Tail#: N518D

Make: RANS

Model: S-12XL AIRAILE

S/N: 05990881

- Replaced R/H flap inboard most hinge bolt w/ new AN3-15 bolt.
- Replaced both L/H and R/H wing strut mid support attachment clevis' w/ new MS20392-2C17.
- Replaced inline fuel filter w/ new K&N P/N: 81-0301.
- Performed routine lubrication of cables, pulleys, bellcranks, hinges, heim joints.
- I certify that this aircraft has been inspected IAW an annual inspection and is determined to be in an AIRWORTHY condition, at this time.----END----

Name: Struan Denton

Co: Denton Aeroworx

Sign: 

YEAR: _____
DATE _____

RECORDING
TACH
TIME

Date: 06/07/2023 **Hours:** Hobbs: 1423.8

Tail#: N518D

Make: RANS

Model: S-12XL AIRAILE

S/N: 05990881

-Performed differential pressure/compression test COLD: CYL1: 76/80 CYL2: 78/80
CYL3: 76/80 CYL4: 77/80.

-Cleaned and oiled both induction air filters using K&N recharge kit.

-Removed exhaust collector/muffler assembly. Repaired cracks by TIG welding. Re-
installed collector/muffler assembly. Installed w/ new stainless exhaust springs.

-I certify that this powerplant has been inspected IAW an annual inspection and is
determined to be in an AIRWORTHY condition, at this time.----END----

Name: Struan Denton

Co: Denton Aeroworx

Sign: _____

Mechanic or Repair

[illegible]

Date: 08/21/2023 **Hours:** Hobbs:

Tail#: N518D

Make: RANS

Model: S-12XL AIRAILE

S/N: 05990881

-Replaced Connector housing and faston connectors for regulator-rectifier plug with new Rotax P/N: 965-335 connector housing and Rotax P/N: 864-011 Faston connectors (x5).

Ops test good.

-----END-----

Name: Struan Denton

Co: Denton Aeroworx

Sign: _____

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YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN SERVICE	Description of Inspections, Tests, Repairs and Alterations Entries must be endorsed with Name, Rating and Certificate Number of Technician or Repair Facility. (See back pages for other specific entries.)
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DATE



Denton Aerowork

Tucson AZ 85742

Make: RANS

Model: S-12XL AIRAILE

Tail: N518D

S/N: 05990881

Hours: Hobbs: 1484.4

-Troubleshoot no start condition.

-Removed both CDI boxes S/N's: 15.3430 and 15.3327. Sent to Lockwood Aviation for bench testing. Received back with no defects.

-Ohm tested all ignition and trigger coils. No defects.

Replaced all spark plug leads with new Rotax 7mm wire P/N: 01-114-01.

Found ignition coils to CDI boxes wiring to be connected incorrectly.

Reconfigured wiring. Ran engine. OPS TEST GOOD.

Signed:

Struan Denton

Cert:

Date: 04/28/2024

YEAR:	RECORDING TACH TIME	TODAY'S FLIGHT	TOTAL TIME IN	Description of Inspections, Tests, Repairs and Alterations
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DATE

Date: 06/07/2024 Hours:

Tail#: N518D

Make: RANS

Model: S-12XL AIRAILE

S/N: 05990881

-Performed mechanical synchronization of the carburetors. REF: BRP-Rotax MML-912 P/N: 899196, 12-20-00, Pg 27-28-----END-----

Name: Struan Denton

Co: Denton Aeroworx

Sign: 