

Installation of PSR Jet System on ASW27-J, PSR T01 KS engine

The first ASW27-J with PSR Jet System is flying since February 2013.

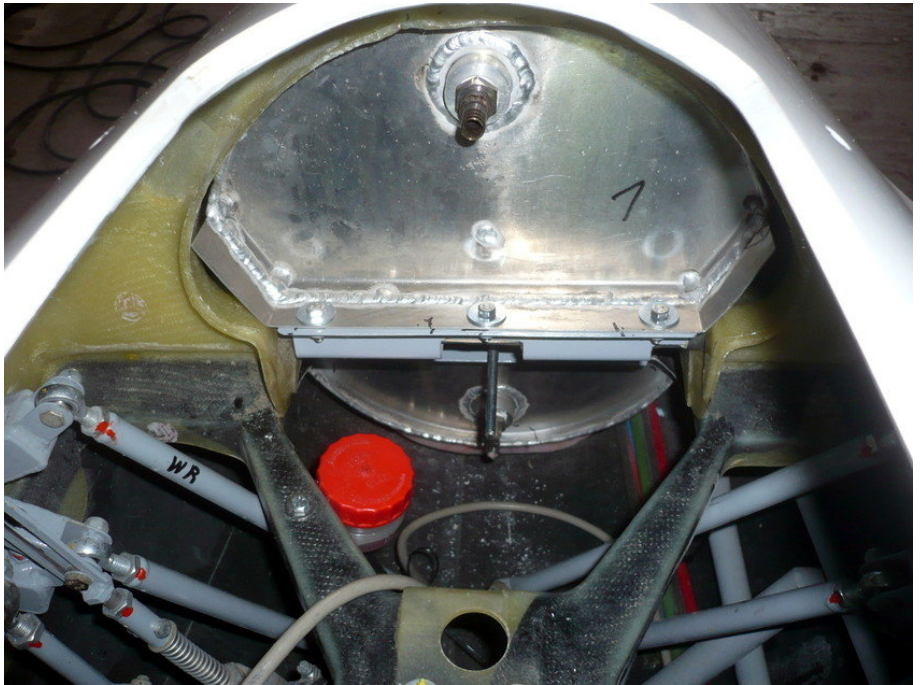
The kerosene start system developed by Draline was successfully tested during the season 2013. The PSR Jet System and the kerosene tanks are installed in the fuselage of the ASW27-J. The cockpit load is between 154 and 242lb, lightweight pilots need to install counterbalance weights. The engine was started 45 times, the total runtime is 3,3 hours. No aborted starts or other malfunctions were identified. The time between engine deployment, computer start, engine start, calibration and maximum rotspeed is 70s.

- horizontal speed 100 knots at maximum power, 108500rpm
- horizontal speed 90 knots at continuous, 100000rpm
- climb rate 2 knots at 108500rpm and 70 knots
- climb rate 1 knot at 100000rpm and 65 knots
- range 100 miles in sawtooth flight, 8 gallons kerosene

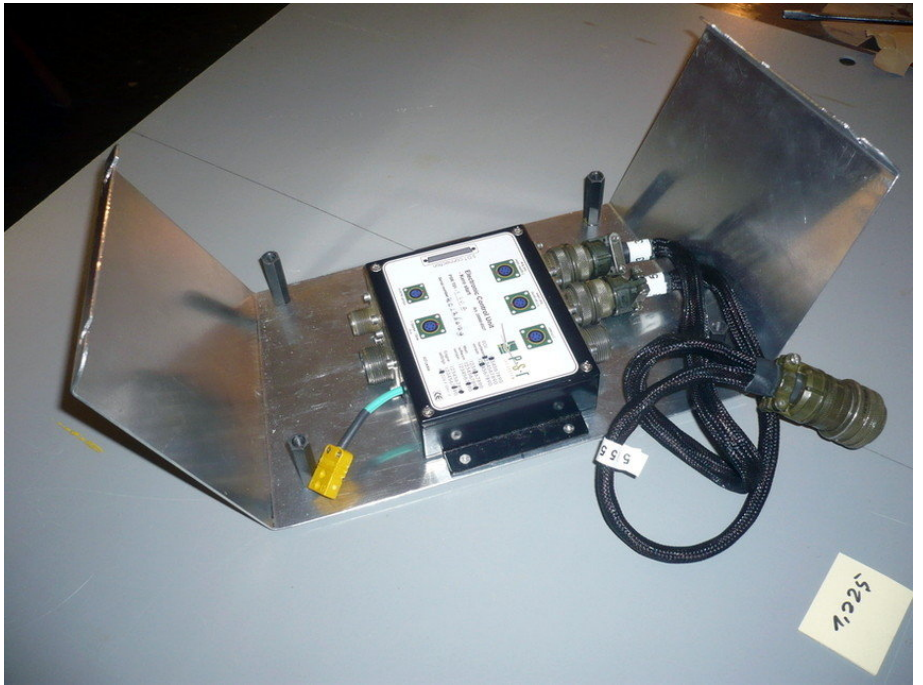
23.10.2013



two 4 gallons aluminium tanks



tanks installed inside fuselage



engine control unit



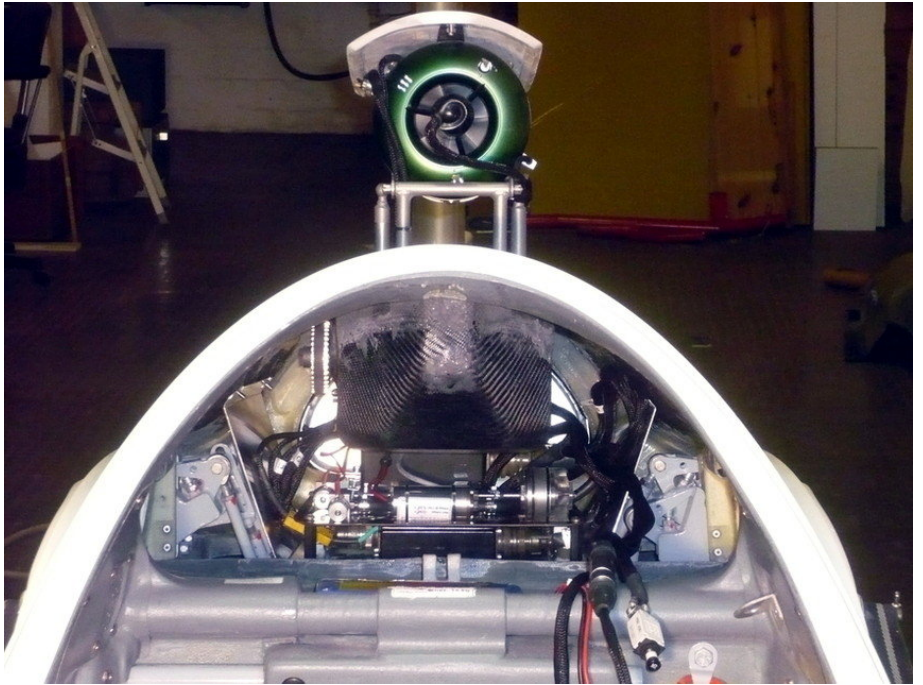
engine fuel board with pump, valves, filter and flow meter



container with engine and retraction system



engine and engine fuel board during installation



engine completely installed



instrument panel with engine service data terminal



ASW27-J after 45 engine starts and 3,3 hours engine runtime