

CONDITION INSPECTION CHECKLIST FOR CANARD COMPOSITE AIRCRAFT

1. Query owner verbally or ask for a list of problems or squawks .

2. Overall visual appearance of aircraft :
 - A. Condition of paint
 - B. Inspect airframe and wings for de-laminations and problems at composite joints .
 - C. Check for wear at control surface hinges and safety of hinge pins
 - D. Check operation of flight controls from cockpit
 - E. Check all rod ends , cables , pulleys, U-joints and control system retainers
 - F. Fit and condition of canopy glass , frame , and hardware.
 - G. Check wing attachments for security and bolt torque.
 - H. Inspect fuel cells for leaks and security of fuel caps .
 - I. Inspect fuel cell breathers for obstructions .

3. Engine /Cowling Group
 - A. Condition of Cowling fasteners and associated composite material
 - B. Inspect engine for oil leaks . Clean and repair as necessary.
 - C. Check condition of fuel and oil lines and fittings /oil cooler and filter
Repair/replace as necessary. (recommend oil cooler service every 500 hrs.)
 - D. Check throttle quadrant controls for condition , freedom and range of operation.
 - E. Check engine mount and firewall hard points for cracks and condition of mounting bolts .
 - F. Inspect engine mount bushings and bolts.
 - G. Check/Adjust engine timing.
 - H. Clean/gap spark plugs and inspect ignition harness and leads.
 - I. Perform engine run up and drain oil if applicable. (save oil sample for analysis)
Perform compression test . If oil is changed / re-run engine , check for leaks .
 - J. Inspect/Replace alternator V belt
 - K. Check propeller / torque and re- safety bolts .
 - L. Check / Adjust valve clearance (if engine has solid lifters)
 - M. Inspect oil return lines / replace rubber as necessary
 - N. Check /clean / replace carburetor air cleaner
 - O. Check crankcase breather and air/oil separator for operation .
 - P. Inspect all electrical wires in engine compartment / repair any wiring presenting a safety issue .
 - Q. Inspect engine baffling and exhaust system for cracks and leaks

4. Landing Gear
 - A. Check security of main gear attach points
 - B. Check tire inflation and wear
 - C. Check brake wear and function , (replace linings as necessary)
 - D. Check brake fluid levels . Inspect brake lines .
 - E. Inspect / Re-pack wheel bearings
 - F. Check main gear bow for heat fatigue at wheels .
 - G. Check axle attachments and bolts for security .
 - H. Check operation of nose gear retract system .
 - I. Check nose gear attach point / actuator attachment and wheel fork assembly for security and possible fatigue cracks .

FAX TRANSMITTAL	# of pages = 1
To	Geo. P. Dickerson
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Fax #	CHANGES
NEW 7500-01-317-7288 GENERAL SERVICES ADMINISTRATION 5088-104	

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All condition inspections are done in concert with the scope and detail of Appendix "D" of F.A.R. Part 43 and include the following specific items relative to this type of aircraft.

1. Query owner verbally or ask for a list of problems or squawks .

2. Overall visual appearance of aircraft :
 - A. Condition of paint
 - B. Inspect airframe and wings for de-laminations and problems at composite joints .
 - C. Check for wear at control surface hinges and safety of hinge pins
 - D. Check operation of flight controls from cockpit
 - E. Check all rod ends , cables ,pulleys, U-joints and control system retainers
 - F. Fit and condition of canopy glass , frame , and hardware.
 - G. Check wing attachments for security and bolt torque.
 - H. Inspect fuel cells for leaks and security of fuel caps .
 - I. Inspect fuel cell breathers for obstructions .
 - J. Location , Operation , and Marking of fuel valve *2. Fuel valve location, operation, and marking*
 - K. General Placarding in cockpit

3. Engine /Cowling Group
 - A. Condition of Cowling fasteners and associated composite material
 - B. Inspect engine for oil leaks . Clean and repair as necessary.
 - C. Check condition of fuel and oil lines and fittings /oil cooler and filter
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Perform compression test . If oil is changed / re-run engine , check for leaks .
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 - L. Check / Adjust valve clearance (If engine has solid lifters)
 - M. Inspect oil return lines / replace rubber as necessary
 - N. Check /clean / replace carburetor air cleaner
 - O. Check crankcase breather and air/oil separator for operation .
 - P. Inspect all electrical wires in engine compartment / repair any wiring presenting a safety issue .
 - Q. Inspect engine baffling and exhaust system for cracks and leaks

4. Landing Gear

- A. Check security of main gear attach points**
- B. Check tire inflation and wear**
- C. Check brake wear and function . (replace linings as necessary)**
- D. Check brake fluid levels . Inspect break lines .**
- E. Inspect / Re-pack wheel bearings**
- F. Check main gear bow for heat fatigue at wheels .**
- G. Check axle attachments and bolts for security .**
- H. Check operation of nose gear retract system .**
- I. Check nose gear attach point / actuator attachment and wheel fork assembly for security and possible fatigue cracks .**

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