

Condition Inspection Checklist

Condition Inspection Checklist Compiled from FAR 43, Appendix D

Aircraft Make/Model: _____ **S/N:** _____

Engine Make/Model: _____ **S/N:** _____

Date of Inspection: _____ **TT Airframe:** _____

TT Engine: _____

Scope and Detail of Items (As Applicable to the Particular Aircraft) to be Included in Annual and 100-Hour Inspections

(a) Each person performing an annual or 100-hour inspection shall, before that inspection, remove or open all necessary inspection plates, access doors, fairing, and cowling. He shall thoroughly clean the aircraft and aircraft engine.

(b) Each person performing an annual or 100-hour inspection shall inspect (where applicable) the following components of the fuselage and hull group:

Pass Fail (1) Fabric and skin-for deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings.

Pass Fail (2) Systems and components-for improper installation, apparent defects, and unsatisfactory operation.

Pass Fail (3) Envelope, gas bags, ballast tanks, and related parts-for poor condition.

(c) Each person performing an annual or 100-hour inspection shall inspect (where applicable) the following components of the cabin and cockpit group:

Pass Fail (1) Generally\for uncleanliness and loose equipment that might foul the controls.

Pass Fail (2) Seats and safety belts\for poor condition and apparent defects.

Pass Fail (3) Windows and windshields\for deterioration and breakage.

Pass Fail (4) Instruments\for poor condition, mounting, marking, and (where practicable) improper operation.

Pass Fail (5) Flight and engine controls\for improper installation and improper operation.

Pass Fail (6) Batteries\for improper installation and improper charge.

Pass Fail (7) All systems\for improper installation, poor general condition, apparent and obvious defects, and insecurity of attachment.

(d) Each person performing an annual or 100-hour inspection shall inspect (where applicable) components of the engine and nacelle group as follows:

Pass Fail (1) Engine section\for visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such leaks.

Pass Fail (2) Studs and nuts\for improper torquing and obvious defects.

Pass Fail (3) Internal engine\for cylinder compression and for metal particles or foreign matter on screens and sump drain plugs. If there is weak cylinder compression, for improper internal condition and improper internal tolerances.

Pass Fail (4) Engine mount\for cracks, looseness of mounting, and looseness of engine to mount.

Pass Fail (5) Flexible vibration dampeners\for poor condition and deterioration.

Pass Fail (6) Engine controls\for defects, improper travel, and improper safetying.

Pass Fail (7) Lines, hoses, and clamps-for leaks, improper condition and looseness.

Pass Fail (8) Exhaust stacks\for cracks, defects, and improper attachment.

Pass Fail (9) Accessories\for apparent defects in security of mounting.

Pass Fail (10) All systems\for improper installation, poor general condition, defects, and insecure attachment.

Pass Fail (11) Cowling\for cracks, and defects.

(e) Each person performing an annual or 100-hour inspection shall inspect (where applicable) the following components of the landing gear group:

Pass Fail (1) All units\for poor condition and insecurity of attachment.

Pass Fail (2) Shock absorbing devices\for improper oleo fluid level.

Pass Fail (3) Linkages, trusses, and members\for undue or excessive wear fatigue, and distortion.

Pass Fail (4) Retracting and locking mechanism\for improper operation.

Pass Fail (5) Hydraulic lines\for leakage.

Pass Fail (6) Electrical system\for chafing and improper operation of switches.

Pass Fail (7) Wheels\for cracks, defects, and condition of bearings.

Pass Fail (8) Tires\for wear and cuts.

Pass Fail (9) Brakes\for improper adjustment.

Pass Fail (10) Floats and skis\for insecure attachment and obvious or apparent defects.

(f) Each person performing an annual or 100-hour inspection shall inspect (where applicable) all components of the wing and center section assembly for poor general condition, fabric or skin deterioration, distortion, evidence of

failure, and insecurity of attachment.

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(g) Each person performing an annual or 100-hour inspection shall inspect (where applicable) all components and systems that make up the complete empennage assembly for poor general condition, fabric or skin deterioration, distortion, evidence of failure, insecure attachment, improper component installation, and improper component operation.

Pass Fail

(h) Each person performing an annual or 100-hour inspection shall inspect (where applicable) the following components of the propeller group:

Pass Fail (1) Propeller assembly\for cracks, nicks, binds, and oil leakage.

Pass Fail (2) Bolts\for improper torquing and lack of safetying.

Pass Fail (3) Anti-icing devices\for improper operations and obvious defects.

Pass Fail (4) Control mechanism\for improper operation, insecure mounting, and restricted travel.

(i) Each person performing an annual or 100-hour inspection shall inspect (where applicable) the following components of the radio group:

Pass Fail (1) Radio and electronic equipment\for improper installation and insecure mounting.

Pass Fail (2) Wiring and conduits\for improper routing, insecure mounting, and obvious defects.

Pass Fail (3) Bonding and shielding\for improper installation and poor condition.

Pass Fail (4) Antenna including trailing antenna\for poor condition, insecure mounting, and improper operation.

(j) Each person performing an annual or 100-hour inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.

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Notes and explanation of unairworthy items found:
