## **Federal Aviation Regulation**

Appendix D: Part 43 MAINTENANCE, PREVENTIVE MAINTENANCE, REBUILDING, AND ALTERATION



## Appendix D : Scope and Detail of Items (as Applicable to the Particular Aircraft) to be Included in Annual and 100-Hour Inspections

## Sec. D43.1

(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:
(1) Fabric and skinfor deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings.
(2) Systems and components-for improper installation, apparent defects, and unsatisfactory operation.
(3) Envelope, gas bags, ballast tanks, and related partsfor 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:
(1) Generally–for uncleanliness and loose equipment that might foul the controls.
(2) Seats and safety beltsfor poor condition and apparent defects.
(3) Windows and windshieldsfor deterioration and breakage.
(4) Instrumentsfor poor condition, mounting, marking, and (where practicable) improper operation
(5) Flight and engine controls—for improper installation and improper operation.

(6) Batteries--for improper installation and improper charge.

	(7) All systemsfor 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:
	(1) Engine sectionfor visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such leaks.
	(2) Studs and nutsfor improper torquing and obvious defects.
	(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.
	(4) Engine mountfor cracks, looseness of mounting, and looseness of engine to mount.
	(5) Flexible vibration dampenersfor poor condition and deterioration.
	(6) Engine controlsfor defects, improper travel, and improper safetying.
	(7) Lines, hoses, and clampsfor leaks, improper condition and looseness.
	(8) Exhaust stacksfor cracks, defects, and improper attachment.
	(9) Accessoriesfor apparent defects in security of mounting.
	(10) All systemsfor improper installation, poor general condition, defects, and insecure attachment.
	(11) Cowlingfor 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:
$\frown$	(1) All units for near and itigs and inconveity of attackment
	(1) All unitsfor poor condition and insecurity of attachment.
	<ul><li>(1) All unitsfor poor condition and insecurity of attachment.</li><li>(2) Shock absorbing devicesfor improper oleo fluid level.</li></ul>
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	<ul> <li>(2) Shock absorbing devices-for improper oleo fluid level.</li> <li>(3) Linkages, trusses, and members-for undue or excessive wear fatigue, and distortion.</li> <li>(4) Retracting and locking mechanism-for improper operation.</li> <li>(5) Hydraulic lines-for leakage.</li> <li>(6) Electrical system-for chafing and improper operation of switches.</li> <li>(7) Wheels-for cracks, defects, and condition of bearings.</li> <li>(8) Tires-for wear and cuts.</li> <li>(9) Brakes-for improper adjustment.</li> <li>(10) Floats and skis-for insecure attachment and obvious or apparent defects.</li> <li>(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</li> </ul>

(1) Propeller assembly–for cracks, nicks, binds, and oil leakage.
(2) Boltsfor improper torquing and lack of safetying.
(3) Anti-icing devices-for improper operations and obvious defects.
(4) Control mechanismsfor 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:
(1) Radio and electronic equipmentfor improper installation and insecure mounting.
(2) Wiring and conduits–for improper routing, insecure mounting, and obvious defects.
(3) Bonding and shielding–for improper installation and poor condition.
(4) Antenna including trailing antennafor 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 <b>Make and Share Free Checklists</b>

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