Aircraft Maintenance Inspection Checklist

Maintenance

AIRCRAFT TYPE / REGISTRATION	INSPECTION TYPE	DATE	TOTAL AIRFRAME HOURS	ENGINEER / MECHANIC
		____ / ____ / _____		

AIRFRAME STRUCTURE

	SAT	UNSAT		SAT	UNSAT
Fuselage skin (dents, cracks, corrosion)	○	○	Doors, latches, and hinges	○	○
Wing skins and ribs	○	○	Seat rails and attachments	○	○
Empennage (stabilisers, fin)	○	○	Seat belts and harnesses	○	○
Windscreen and cabin windows	○	○	Firewall integrity	○	○

ENGINE

	SAT	UNSAT		SAT	UNSAT
Oil analysis results acceptable	○	○	Exhaust system (cracks, security)	○	○
Compression check (all cylinders)	○	○	Engine mounts (condition, torque)	○	○
Spark plugs (condition, gap)	○	○	Induction system and air filter	○	○
Magneto timing and operation	○	○	Baffles and cowling (condition, fit)	○	○

PROPELLER

	SAT	UNSAT
Blades (nicks, erosion, cracks)	○	○
Hub and spinner	○	○

Governor operation (if CSU) ☐ Sat ☐ Unsat ☐ N/A

Blade track within limits ☐ Sat ☐ Unsat

LANDING GEAR

	SAT	UNSAT		SAT	UNSAT
Main gear struts and attachments	○	○	Tyres (tread, pressure, condition)	○	○
Nose gear strut and shimmy damper	○	○	Brakes (pads, discs, fluid, operation)	○	○

Retraction system (if retractable) ☐ Sat ☐ Unsat ☐ N/A

Wheel bearings (repacked if due) ☐ Sat ☐ Unsat

FLIGHT CONTROLS

	SAT	UNSAT		SAT	UNSAT
Ailerons (free movement, cable tension)	○	○	Trim tabs (operation, travel)	○	○
Elevator (free movement, cable tension)	○	○	Flaps (operation, symmetry)	○	○
Rudder (free movement, cable tension)	○	○	All hinges and bearings lubricated	○	○

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FUEL SYSTEM

	SAT	UNSAT		SAT	UNSAT
Fuel tanks (leaks, venting, caps)	○	○	Fuel strainer / gascolator drained	○	○
Fuel lines and fittings	○	○	Fuel selector valve operation	○	○

AVIONICS & ELECTRICAL

	SAT	UNSAT		SAT	UNSAT
Flight instruments (calibration, markings)	○	○	ELT (battery, registration, test)	○	○
Radios and transponder	○	○	Alternator / generator output	○	○
Navigation equipment (GPS, VOR)	○	○	Wiring (chafing, security, connections)	○	○

COMPLIANCE & SIGN-OFF

- ☐ Airworthiness directives checked and compliant
- ☐ Service bulletins reviewed
- ☐ Life-limited parts within limits

Defects found and corrected

Aircraft returned to service ☐ Yes ☐ No — awaiting parts / further work

Next inspection due at _____

Engineer signature and licence # _____

Notes

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