

Condition Inspection

Powered Parachute Aircraft

The following can be used as a guideline to start an inspection for your particular aircraft if you do not have the manufactures procedure.

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

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

Dates of Inspection _____

Inspector _____

Check all that apply

____ Owner ____ Operator ____ Pilot ____ Certified Mechanic
____ 100 hour or ____ Annual (which ever is less) or ____ Unknown aircraft

Last Inspection performed when date _____ Hours _____

Ready the aircraft to be inspected

- Remove or open all necessary inspection plates, access doors, fairing, and cowling
- Remove seats if needed to inspect systems under
- Thoroughly clean the aircraft and propulsion system.

Mark "P" for pass or "F" fail at each line _____

Wing

- _____ Suspension lines and attachments
- _____ Risers and attachment
- _____ Fabric condition top, bottom and internal baffles
- _____ Stitching condition top, bottom and internal baffles
- _____ Risers and Suspension line lengths within tolerance
- _____ Wing line lengths approved for undercarriage configuration (wing matched for undercarriage)
- _____ Wing general condition for wear, tears, excessive sun and security of fabric, lines and attachments.
- _____ Test by qualified mechanic for structural integrity if any wing fabric, lines and attachments condition is in question.
- _____ Steering Lines condition and attachments
- _____ Steering Line pulleys condition and operation
- _____ Trim systems operation and set properly (if applicable)

Undercarriage Structure

- _____ Undercarriage hang point attachments general condition. Interface between wing and undercarriage wing attachments is not showing unusual wear or play.
- _____ Frame including the fan cage general condition, all structural attachments condition good, and security of all attachments.
- _____ Seat attachment and seat belt general condition with secure attachments.

Landing gear:

- _____ Shock absorbing devices general condition, security and operation (proper fluid level, bungee security, gas struts, and/or springs as required).
- _____ Front fork, nose wheel steering, security and reasonable play.
- _____ Suspension linkages, trusses, wires, and/or members for wear, cracks, fatigue, and distortion.
- _____ Hydraulic lines to brakes for leakage (if applicable).
- _____ Wheels for smooth operation, tightness, cracks, defects, condition of bearings and alignment.
- _____ Tires for pressure, wear, cuts and out of round.
- _____ Brakes for proper operation, adjustment, pad/drum/disk tolerances as appropriate.
- _____ Floats and skis for insecure attachment and obvious or apparent defects (if applicable).
- _____ Floats and skis systems repositioning and locking mechanisms for proper operation (if applicable).

Cockpit:

- _____ General condition of cockpit for cleanliness and loose equipment that could become dislodged and go through the propeller.
- _____ Seats and safety belts for good condition, operation, secure attachment, and acceptable wear.
- _____ Windshields for deterioration, breakage and security (if applicable).
- _____ Instruments for general condition, mounting, marking, and (where practicable) operation.
- _____ Flight controls steering bars full range operation.
- _____ Engine throttles and mixture (choke/primer) for proper installation, smooth operation, locking and operation.
- _____ Brakes for operation, travel, security and general condition.
- _____ All cockpit controls and systems for proper installation, general condition, apparent and obvious defects, and security of attachment.
- _____ All certificates, documents, placards, nameplates and airworthiness certificates are current and in aircraft.

Propulsion system:

- _____ Basic maintenance items general condition and within recommended schedule (oils, cooling fluids, fuel filter, air filters, and spark plugs as required).
- _____ Inspect engine section for visual evidence of excessive oil, fuel, exhaust or hydraulic leaks.
- _____ Torque induction, exhaust, and cylinder heads to specifications as required.
- _____ Fuel tank general condition, fuel pick up screen, fuel tank vent, fuel lines to carburetor, primer bulb, primer system, fuel line condition, fuel filter and fuel system general condition and security.
- _____ Induction inlet boots for cracks and leaks
- _____ Cylinder compression check as required. Record values _____
- _____ Metal particles or foreign matter on screens and sump drain plugs.
- _____ Engine mounts for cracks, and security. Torque to proper POH values.
- _____ Flexible vibration dampeners general condition and security. Look for large cracks in aged or dried out rubber.
- _____ Engine controls general condition, travel, and safetied where required.
- _____ Lines, hoses, and clamps for leaks, condition and looseness.
- _____ Exhaust pipes for cracks, and proper attachment. Springs secured and safetied.
- _____ Nacelle or cowling for cracks, defects and security.
- _____ Propeller assembly for cracks and nicks. Torque propeller and gearbox to specifications.
- _____ Propeller balance and tracking.
- _____ Accessories and systems for proper installation, general condition, defects, and secure attachment.
- _____ Belts condition and tension as required.
- _____ Control cables lubrication where appropriate.
- _____ Follow 100 hour manufactures maintenance specifications

Systems

- _____ Radio and electronic equipment for improper installation and secure mounting.
- _____ Radio antenna position, security and operation.
- _____ Electric system wiring and conduits for proper routing, secure mounting, and obvious defects.
- _____ Batteries for proper installation, charge and general condition.
- _____ All other systems for proper attachment, security, and operation.

_____ **Other items not listed here for proper installation, condition, operation or safety of flight.**

Notes and explanation of any problems, or items found that could progress to a safety of flight
(use additional sheets of necessary)

Inspector Name _____ Date completed and airworthy _____