

100-Hour/Annual Inspection Checklist (GA)

Part 23 & CAR 3 Aircraft

Original Issue date April 1998, Current revision date November 26, 2006

Reference Data:

Order 8130.2, CAR-3, CFR 21 Certification, CFR 23 Airworthiness Standards, CFR 43 Maintenance, CFR 45 Markings, CFR 47 Registered properly, CFR 91 Pilot Responsibility, CFR 36 Noise, CFR 33 engines, CFR 39 AD's, CFR 145 Repair Stations and AC 43.13-1B & 2A Major Repair and Alterations, Manufacture Maintenance Manuals.

INTERPRETATION OF THE TERM "AIRWORTHY"

- 1) The aircraft must conform to its type certificate.
 - a. When aircraft configuration and the components installed are consistent with drawings, specifications, and other data that are part of the type certificate (T/C), and include any supplemental T/C and field approval alterations incorporated into the aircraft.
- 2) The aircraft must be in condition for safe operation.
 - a. Aircraft relative to wear and deterioration i.e., corrosion, fluid leaks, tire wear, window delimitation/crazing.

NOTE: *If one or both of these conditions are not met, the aircraft would be considered unairworthy. Order 8130.2F para 9*

NOTE: This is only a guide and should not be considered FAA approved data for 100 hour or annual inspection checklist. Consult CFR 43 subpart D, for scope and detail of items to be included for 100 hour or annual inspections. **This checklist is not exhaustive and does not supersede Manufacturer's publications and is up-dated periodically!**

Aircraft Data

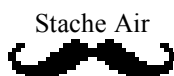
1. N-Number: N _____
2. Airframe Type Certificate No. _____ Rev. _____ N/A
3. ASTM No. _____ Rev. _____ N/A
4. Aircraft Model _____ Model No. _____
5. Aircraft Serial No. _____ Year manufactured _____
6. Certification Basis: CAR or FAR _____

Airman Attitude

- | | | | | |
|--|------------------------|------------------------------|-----------------------------|------------------------------|
| 1. Has Constructive attitude toward Compliance | Order 2150.3A par. 205 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. Verify A&P/IA certificate number and picture ID | CFR 65.91 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Verify Pilots certificate number and picture ID | CFR 61.3 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Data

1. FAA-approved maintenance manuals available CFR 43.13. Yes No N/A
2. Alterations IAW approved STC/TSO/PMA/Field approval or other FAA data, (337's) CFR 21.97/101/113 Yes No N/A
3. Instructions for Continued Airworthiness CFR 21.31, 21.50, 23.1529 Yes No N/A
4. Type Certificate Data Sheet (TCDS) CFR 21.41/ CAR 3.15 Yes No N/A
5. Aircraft Flight Manual / Pilot Operating Hand book CFR 21.5/CAR 3.72 Yes No N/A



6. AFM/POH Date _____ Rev. No. _____ Yes No N/A
7. Data plate aircraft _____ CFR 45.13 Yes No N/A
8. Data plate aircraft MFG before **March 7, 1988** Make/model & S/N CFR 45.11(d) Yes No N/A
9. Data plate engine on engine make and model/serial number CFR 45.11 & 21.182 Yes No N/A
10. Data plates critical components _____ CAR 3.18 CFR 45.15 Yes No N/A
11. Data plates Life Limited Parts _____ CFR 45.16 Yes No N/A

Records

1. Registration current and in aircraft _____ CFR 91.9 / CAR 3.792 Yes No N/A
2. Airworthiness Certificate in aircraft dated and signed _____ CFR 91.203(a) & 21.175 Yes No N/A
3. Annual Inspection Total time _____ Description of work accomplished _____ Date completed _____
and A&P/IA Signature _____ CFR 43.11 & 91.417 Yes No N/A
4. All AD's, recorded in maintenance records and check recurring AD's
- a. Airframe _____ CFR 39 & 91.417 Yes No N/A
- b. Engine _____ CFR 39 & 91.417 Yes No N/A
- c. Propeller _____ CFR 39 & 91.417 Yes No N/A
- d. Appliances _____ Check for a list of items _____ CFR 39 & 91.417 Yes No N/A
5. Reduce Vertical Separation Minimums (**RVSM**) with Letter of Authorization (LOA) _____ CFR 91.706 Yes No N/A
6. Last **Annual** inspection completed: date _____ CFR 43.11 & 91.417
- a. CFR 65.91 IA Name _____ Certification No. _____ Yes No N/A
- b. 145 Repair station sign off date Repair Station number _____ Yes No N/A
7. Last **Progressive** Inspection phase signed of date _____ CFR 91.409(d) Yes No N/A
- a. Phase inspection dated and signed by A&P/IA _____ CFR 91.409(d)(1) Yes No N/A
- b. 145 Repair station number _____ CFR 145.5/107/201/204 Yes No N/A
8. Last **100-hour** inspection date _____ Total time _____ CFR 91.405(b)
- a. 145 Repair station number _____ CFR 145.5/107/201/204 Yes No N/A
- b. A&P sign off date _____ Certification No. _____ CFR 43.15, 65.85, 91.409 Yes No N/A
- c. A&P/IA Signature _____ CFR 43.11 & 91.417 Yes No N/A
9. Equipment list current and in aircraft _____ CAR-3.73 and CFR 23.29 & 91.9 Yes No N/A
10. Equipment list up-dated to match conformity of aircraft _____ CAR 3.777 CFR 91.9 Yes No N/A
11. Status of Life Limited parts **Effective April 15, 2002** _____ CFR 43.10 Yes No N/A
12. Current approved flight manual **after 03-1-1979** in aircraft _____ CFR 21.5/23.1581, 91.9 Yes No N/A
13. Current flight manual POH **before 03-1-1979** in aircraft Yes No Revision number/date _____
Limitations and placards _____ CAR 3.778 CFR 21.5, 21.1559, 23.1581, 91.9 Yes No N/A
14. Current weight & balance report dated & signed _____ CAR 3.71, **23.1519**, 23.1581, 91.9 Yes No N/A
15. Identification data plate secured to aircraft fuselage exterior _____ CFR 45.11 Yes No N/A
16. If applicable, check the MEL to determine that : _____ CFR 91.213 Yes No N/A
- a. Issued by N-number and serial number to the aircraft operator _____ Yes No N/A
- b. A Letter of Authorization (LOA) from a district office; check deferred items for placards and dates _____ Yes No N/A
17. Maintenance Records for each Engine, Propeller, Airframe and Appliances in accordance with _____ CFR 91.417 Yes No N/A
18. **ATC transponder** date _____ **24 calendar months** check. _____ CFR 91.413 & 23.1301 Yes No N/A
19. **ELT TSO-C91a /TSO-C126 every 12 months** check date 06/21/1985 _____ CFR 91.207 Yes No N/A
20. **Altimeter test every 24 months.** _____ CFR 91.411 and CFR 43 Appendix E Yes No N/A
21. **Pitot static transponder test every 24 months** _____ CAR 3.665 CFR 43 Appendix F Yes No N/A
22. Deferred items under Part 91.213 for Day VFR _____ CFR 91.213 Yes No N/A
- a. Is the item placarded _____ Yes No N/A
- b. Is there a maintenance record entry _____ Yes No N/A
- c. Is the item disabled or removed _____ Yes No N/A



Cockpit Inspection

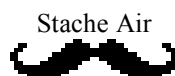
- | | | | | | |
|---|---|------------------------------|------------------------------|------------------------------|--|
| 1. Placards read correctly Instrument & placards are correctly located per POH/AFM & TCDS
23.1541-1567/ CAR 3.755 | CFR 91.31 | CFR | Yes <input type="checkbox"/> | No <input type="checkbox"/> | |
| N/A <input type="checkbox"/> | | | | | |
| 2. INOP placards | CFR 91.213 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| a. INOP instruments disabled or removed by an A&P | CFR 91.213 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| b. Equipment list up-dated | CFR 91.213 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| c. Maintenance record entry | CFR 91.213 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| d. Weight and balance record updated | CFR 91.9 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| e. Minimum Equipment List (MEL) for aircraft | CFR 91.213(a)(1) | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 3. Vacuum indicating system, Life limited pump | CFR 23.1301 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 4. Compass card Yes <input type="checkbox"/> No <input type="checkbox"/> Readable CAR 3,385 CFR 23.1547 & 25.1547 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 5. Additional instruments not on equipment list or Form 337 CAR 3.661 CFR 21.113 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 6. Type of clock installed original analog or digital working AC 20-94 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 7. Nav Radio P/N 1 _____, P/N 2 _____ matches equipment list | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 8. Conforms to Type Certificate (TC) per POH/AFM see item (5,6) | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 9. Cockpit fuel smell CAR 3.440 / CFR 23.863 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 10. Data plate information matches registration CFR 45.11/13 & 47.3 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 11. Intercom jack, how many any extra _____ and required Form 337 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 12. Fire extinguisher gage Green <input type="checkbox"/> Red <input type="checkbox"/> | CFR 23.1199 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 13. Fire Extinguishing Agent commuter category installed | CFR 23.1197 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 14. Fire extinguisher easy access to pilot | CFR 23.851 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 15. Oxygen equipment and supply lines condition CFR 23.1441 thru 1453 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 16. Oxygen bottle if required Green <input type="checkbox"/> Red <input type="checkbox"/> | CFR 23.1441 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Hydro AA 5 years HT 3 year retire at 24 years | AC 43.13-1b para 9-51 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 17. Instrument filter covers installed | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 18. Yoke chain safety wired, loose or corrosion present | CFR 43.13 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 19. Cockpit control knob shape correct type | CAR 3.384 CFR 23.781 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 20. Flap, gear, knobs installed | CAR 3.384 CFR 23.781 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 21. Electrical wiring more than ½ inch slack | AC 43.13-1B para 11-118 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 22. Electrical wiring clamps/markings as required | AC 43.13-1B sec. 11 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 23. Tie-wraps items of mass in the cabin | CFR 23.561 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 24. Loose wires under dash not clamped | CFR 23.1351 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 25. Fuel selector moves to all positions and placarded | CAR 3.364 CFR 23.951 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 26. Brake master cylinder leaking R/H <input type="checkbox"/> L/H <input type="checkbox"/> | CRF 43.13 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 27. Thoroughly clean the aircraft and aircraft engine | CFR 43App D | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 28. Cargo tie downs or nets if installed | CFR 91.525 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 29. General, uncleanness and loose equipment that might foul the controls, apparent and obvious defects and insecurity of attachment. | CRF 43App D | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 30. Stall warning system horn works | CAR 3.120 CFR 23.1323 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 31. Windshield STC for one piece | CFR 43 Appendix A | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 32. Windows tinted | TCDS/Equipment list | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 33. Sun visor installation or STC with form 337 | CFR 43.13 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 34. Windshield and windows conditions | CAR 3.382 CFR 23.775 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 35. Windscreen clear <input type="checkbox"/> scratches <input type="checkbox"/> cracks <input type="checkbox"/> crazing <input type="checkbox"/> | Reference CFR 23.775 AC 43.13-1b and MIL-P-5425 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 36. Windows stopped drilled, cracked, or crazed | CAR 3.382 CFR | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| 23.775, and AC 43.13-1B Chapter 3 paragraph 318 (a)(2), and MIL-P-5425 | | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |

Instruments

CFR 91.205

Flight Instruments minimum required

- | | | | | |
|---------------------------|-----------------------|------------------------------|-----------------------------|------------------------------|
| 1. An Airspeed indicator | CAR 3.655 CFR 23.1303 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 2. An Altimeter indicator | CAR 3.655 CFR 23.1303 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| 3. Direction indicator | CAR-3.666 CFR 23.1303 | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |



Minimum Instruments Required Visual-flight rules (day)

- | | | | | | | | |
|---|-------------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Air speed indicator | CAR 3.655 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Altimeter | CAR 3.655 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Magnetic direction indicator | CAR 3.655 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Tachometer for each engine | CAR 3.655 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Oil pressure gauge for each engine using pressure system | CAR 3.655 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Manifold pressure gauge for each altitude engine | CAR 3.672 CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Fuel gauge indicating the quantity of fuel in each tank | CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Landing gear position indicator, if retractable | CFR 91.205(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Minimum Instrument for Instrument flight rules

- | | | | | | | | |
|---|-------------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Two-way radio communications and navigation equipment | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Gyroscopic rate-of-turn indicator | CAR 3.668 CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Slip-skid indicator | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Sensitive altimeter adjustable for barometric pressure | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Clock displaying hours, minutes, and seconds with sweeping second hand pointer or digital presentation | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Generator or alternator of adequate capacity | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Gyroscopic pitch and bank indicator (artificial horizon) | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Gyroscopic direction indicator (directional gyro) | CFR 91.205(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Powerplant Instrument (all aircraft) CAR –3 Subpart F and Part 23

- | | | | | | | | |
|---|--------------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Fuel quantity indicator per tank | CAR 3.672 CFR 23.1305(a) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Oil pressure indicator for each engine | CAR 3.674 CFR 23.1305(a) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Oil temperature indicator for each engine | CFR 23.1305(a) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Oil quantity measuring device for each engine | CAR 3.674 CFR 23.1305(a) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Fire warning indicator if required by | CFR 23.1205 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Tachometer indicator for each engine | CFR 23.1305(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Cylinder head indicator for each engine | CFR 23.1305(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| a. Cowl flaps installed | CAR 3.675 CFR 23.1305(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Commuter category aircraft | CFR 23.1305(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Manifold pressure indicator for each engine and for each engine with an controllable pitch propeller | CFR 23.1305(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Instrument Arrangement

CAR 3.661 CFR 23.1321

- | | | | | | | | |
|---|-------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Attitude indicator on panel top center position | CFR 23.1321 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Airspeed indicator adjacent to and directly to left of the instrument in the top center position. | CFR 23.1321 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Altitude indicator adjacent to and directly to right of the instrument in the top center position. | CFR 23.1321 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Magnetic direction indicator placard must state whether the calibration was made with radio receivers on or off | CFR 23.1547 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Magnetic direction indicator more than 10 degrees off | CFR 23.1547 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Instrument Markings

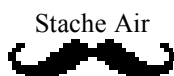
CAR 3.755 CFR 23.1543

- | | | | | | | | |
|---|-------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Marking on cover glass must be in alignment with face | CFR 23.1543 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Each arc and line must be clearly visible to pilot | CFR 23.1543 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. All related instruments must be calibrated in compatible units | CFR 23.1543 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Electrical System

CAR 3.694 CFR 23.1367

- | | | | | | | | |
|--|-----------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1) Switches | | | | | | | |
| a. Able to carry rated current | CAR 3.682 CFR 23.1367 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Enough distance or insulating material between current carrying parts and the housing so that vibration will not cause shorting | CAR 3.681 CFR 23.1367 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Labeled as to operation and circuit controlled | CFR 23.1367 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2) Circuit Breakers/Fuses | | | | | | | |
| a. Circuit protection | CAR 3.690 CFR 23.1357 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |



- b. Each resettable circuit trip free cannot be overridden CFR 23.1357 Yes No N/A
- c. Fuses readily available and spare CAR 3.692 CFR 23.1357 Yes No N/A
- d. Breakers labeled and rating CAR 3.691 CFR 23.1357 Yes No N/A
- 3) Master Switch
- a. Wired to disconnect each electrical power source from the distribution systems CAR 3.688 CFR 23.1361 Yes No N/A
- b. Switch is easily discernible and accessible to crew CAR 3.695 CFR 23.1361 Yes No N/A
- 4) Wiring inspection CAR 3.681 CFR 23.1351 and AC43.13 chapter 11
- a. Chafed or frayed wires Yes No N/A
- b. Insulation penetration Yes No N/A
- c. Outer insulation cracking Yes No N/A
- d. Damage or exposed wires Yes No N/A
- e. Evidence of over heating Yes No N/A
- f. Evidence of arcing Yes No N/A
- g. Evidence of chemical contamination Yes No N/A
- 5) Wire Marking CFR 23.1351 and AC43.13 chapter 11
- a. Gage, circuit, and gage size Yes No N/A
- b. Marked 15 inched maximum intervals Yes No N/A
- 6) Grounding Points CFR 23.1351 AC 43.13 chapter 11, AC 25-16 and AC 25-10
- a. Tightness of nuts (torque) Yes No N/A
- b. Cleanliness of attach points Yes No N/A
- c. Corrosion Yes No N/A
- 7) Sleeving and Conduits CFR 23.1351 AC 43.13 chapter 11, AC 25-16 and AC 25-10
- a. Damages outer surfaces (kinks, holes, flats spots, etc.) Yes No N/A
- b. Wear Yes No N/A
- c. Adequate drain holes Yes No N/A
- 8) Clamping Points CFR 23.1351 AC 43.13 chapter 11, AC 25-16 and AC 25-10
- a. Improper installation Yes No N/A
- b. Clamp/wire damage Yes No N/A
- c. Clamp cushion migration Yes No N/A
- d. Loose wires Yes No N/A

Equipment / Furnishings

1. Equipment installed functions properly CAR 3.622 CFR 23.1301(d) Yes No N/A
2. Flight manual correct for aircraft TCDS Yes No N/A
3. Trim tab indicator readable and functions properly CFR 43.13 Yes No N/A
4. Emergency brake handle installed CFR 21.31 Yes No N/A
5. Batteries proper installation, & charging CAR 3.683 CFR 23.1353 Yes No N/A
6. Battery vented overboard CAR 3.683 CFR 23.1353 & AC 43.13-1B PARA 11-22 Yes No N/A
7. Battery NiCad gage for thermal run away CFR 23.1353 Yes No N/A
8. Thermal/Noise insulation CFR 23.853 Yes No N/A
9. Relief tube, corrosion areas CFR 43.13 Yes No N/A
10. New interior material Certs. CAR-3.388 and CFR 23.853/25.853 Yes No N/A
11. Interior replaced Yes No New Have Burn Certifications Yes No N/A
12. Seat covers, sheep skin material Certs. CAR-3.388 and CFR 23.853 Yes No N/A
13. Seat covers (**automotive**) require burn certification CFR 23.853 Yes No N/A
14. Worn seat material CFR 25.853 for a CAR-3.388 aircraft Part 91 & 23.853, AC 43.13-1B Para 9-61 Yes No N/A
15. Has interior been altered or material substituted CFR 21.303/43.11 Yes No N/A
16. Seat back locks broke CAR 3.390 CFR 23.785 Yes No N/A
17. Seat rails holes elongated Yes No Check AD. CFR 39 Yes No N/A
18. Seating configuration, how many seats allowed TCDS Yes No N/A
19. Head rest missing and not on equipment list CFR 91.9 Yes No N/A
20. Seat belts for stitching, cuts, or frayed CFR 91.107 & 23.785 Yes No N/A
21. Seat belts proper storage and marking CAR 3.715 TSO-22 & 23.785 Yes No N/A
22. Seat Belts Plastic locking ring missing, FWD AFT CFR 45.14 Yes No N/A
23. Seat belt secured when not is use CFR 23.785(d) Yes No N/A



- | | | | | | | | |
|---|--|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 24. TSO C-22 marking on seat belts | CAR 3.390/715 CFR 45.15 CFR 91.205(b)(13,14) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 25. Shoulder harness required after July 18, 1978 | CFR 23.785(g)(1) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 26. Shoulder harness required after Sept. 16, 1992(PAX) helicopter | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 27. Cabin divider(s) / Curtains / Door(s) | CFR 23.853 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 28. Heating system / AD's / decay test | CAR 3.388 CFR 23.859 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 29. Cabin cooling (air conditioning), Ck / | CAR 3.393 CFR 23.831 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 30. Outflow / Safety / Dump valve(s)condition | CAR 3.394 CFR 23.843 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 31. Pressurization seals /boots /gaskets condition | CAR 3.396 CFR 23.831 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 32. Glare shield painted flat black | CFR 23.773 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 33. Door latches lock | CFR 23.783 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| a. Door sprung | CAR 3.389 CFR 23.783 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Door Seals worn | CAR 3.387 CFR 23.783 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Door slide track lock broken | CAR 3.387 CFR 23.783 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Misc. Fuselage

- | | | | | | | | |
|--|----------------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Cabin pressure controller service compressor 24 months | CAR 3.395 CFR 23.843 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Pressurization seals /boots /gaskets, voids, and cracks | CFR 23.843 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Antenna installation doubles per | AC43.13 2A, CFR 23.571/572 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Corrosion on antenna's | CAR 3.395 CFR 23.609 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Fabric covered aircraft condition good <input type="checkbox"/> poor <input type="checkbox"/> | AC 43.13-1B Chapter 2 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Emergency exit placards | CAR 3.768 CFR 23.1557(d) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Any addition mirrors installed on wings requires Form 337 | CFR 43Appen.A | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Condition of paint, is corrosion present NOT allowed | CAR 3.295 CFR 23.609 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Aircraft exterior inspection

- | | | | | | | | |
|---|--|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Wash and clean all oil, grease and dirt from aircraft | CFR 43 Appendix D | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Nationality and registration marks per CFR 45.29 Check 3 inch marking per date Jan. 1, 1983 and repaint. Over 30 years 2 or 12 inch | CFR 45.22(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Rotating beacon installation proper doubler Required after 08-11-71 | CFR 23.1401 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Anticollision light system installed | CAR 3.705 CFR 91.209(b) / CFR 23.1401 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Anticollision light installed after 03/11/1996 Red or white | CFR 91.206(b)(11) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. AFT nav light proper color white | CAR 3.702 CFR 23.1385-1399 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Panel seams miss match, extra paint in front of static port | CFR 23.1325 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Static ports paint in hole or other things L/H <input type="checkbox"/> R/H <input type="checkbox"/> | CAR 3.665 CFR 23.1325 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 9. Static vent painted over L/H <input type="checkbox"/> R/H <input type="checkbox"/> | CAR 3.665 CFR 23.1325 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 10. Pitot heat indicator amber light | CFR 23.1326 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 11. Pitot heat element operational | CFR 23.1326 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 12. Pitot tube worn around hole | Yes <input type="checkbox"/> No <input type="checkbox"/> Not plugged | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| a. Air Speed Last inspection date _____ | CFR 23.1325 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 13. Static wicks missing | | | | | | | |
| a. Right wing | CFR 23.867 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Left wing | CFR 23.867 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Right elevator | CFR 23.867 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| d. Left elevator | CFR 23.867 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| e. Rudder | CFR 23.867 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Landing Gear CAR-3 and Part 23

- | | | | | | | | |
|---|----------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Correct tire and wheel for the aircraft | CAR 3.362 CFR 23.733 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Tire service Main ___ R <input type="checkbox"/> L <input type="checkbox"/> Nose Tire <input type="checkbox"/> | CAR 3.362 CFR 23.733 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Tires condition wear, cuts, or weather cracking L/H <input type="checkbox"/> R/H <input type="checkbox"/> NLG <input type="checkbox"/> | AC 43.13 para 9-14 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Landing Gear struts leaking L/H <input type="checkbox"/> R/H <input type="checkbox"/> NLG <input type="checkbox"/> | AC 43.13 par 9-2/4 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Landing gear struts extension L/H _____ R/H _____ | AC43.13 para 9-2/4 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |



6. Landing gear fairing condition L/H R/H Nose CFR 23.607, CFR 23.1193 Yes No N/A
7. Fairing cracked Hardware missing CFR 23.607/1193 Yes No N/A
8. Landing gear fairings missing, check equipment list and W&B CFR 21.29 Yes No N/A
9. Steering shimmy dampener leaking, won't track CFR 23.745 Yes No N/A
10. Brake pads worn. L/H R/H **0.100 in-thickness min.** CAR 3.363 CFR23.735 Yes No N/A
11. Brake lines condition, frayed, corrosion on fittings L/H R/H CFR 23.735 Yes No N/A
12. Brake rotor corrosion, warped, or under size L/H R/H CFR 23.735 Yes No N/A
13. MLG strut / axle / torque links L/H condition CFR 23.721 Yes No N/A
14. MLG strut / axle / torque links R/H condition CFR 23.721 Yes No N/A
15. NLG strut / axle / torque links L/H condition CFR 23.721 Yes No N/A
16. MLG L/H door actuating system / Hoses condition CFR 23.1435 Yes No N/A
17. MLG R/H door actuating system / Hoses condition CFR 23.1435 Yes No N/A
18. NLG door actuating system / Hoses condition CFR 23.1435 Yes No N/A
19. MLG L/H Landing gear actuator switch(s) condition CFR 23.729 Yes No N/A
20. MLG R/H Landing gear actuator switch(s) condition CFR 23.729 Yes No N/A
21. Repack wheel bearing CRR 43 Appendix D Yes No N/A
22. Wheel nut cotter pin proper length and installed correctly AC 43.13-1-B Yes No N/A
23. NLG Landing gear actuator switch(s) condition CFR 23.729 Yes No N/A
24. Land gear strut chrome damaged – reference manufacture maintenance manual Yes No N/A
25. Landing light covers cracked, missing hardware L/H R/H CFR 23.729 Yes No N/A
26. Position / Warning / Safety squat switch or (WOW) switch CFR 23.729 Yes No N/A
27. Emergency extension / blow down CAR 3.358 CFR 23.729 Yes No N/A
28. Gear Emergency operation does it work CAR 3.357 CFR 23.729 Yes No N/A
29. Landing Gear Retract/Extension System CAR 3.356 CFR 23.729 Yes No N/A
30. Main landing gear locking mechanism for operation CRR 43 Appendix D Yes No N/A
31. Main gear trunon strut bushings for wear L/H R/H CFR 43.13 Yes No N/A
32. Main gear bungee cord condition L/H R/H Manufacture manual Yes No N/A
33. Main landing & nose gear lubrication while on jacks L/H R/H CFR 43.13 Yes No N/A
34. Lube type of grease used per manufacture CFR 43.16 Yes No N/A
35. Floats and skis for security and defects CRR 43 Appendix D Yes No N/A

Landing Gear

Specification

Actual

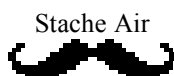
	Up _____	Down _____	Up _____	Down _____
Actuator cushion	N ___	L ___	R ___	N ___ L ___ R ___
Down lock over center	N ___	L ___	R ___	N ___ L ___ R ___
Down Lock clearance	N ___	L ___	R ___	N ___ L ___ R ___
Up lock clearance	N ___	L ___	R ___	N ___ L ___ R ___
Up lock cable tension	N ___	L ___	R ___	N ___ L ___ R ___

Hydraulic System

1. Hydraulic Distribution / Hoses condition/life limit CAR 3.726 CFR 23.1435 Yes No N/A
2. Hydraulic pressure relief valve CFR 23.1435 Yes No N/A
3. Hydraulic accumulator charge CAR 3.728 CFR 23.1435 Yes No N/A
4. Hydraulic reservoir / venting CFR 23.1435 Yes No N/A
5. Hydraulic filter change life limit CFR 23.1435 Yes No N/A
6. Hydraulic electric motor brushes and condition CFR 23.1351 Yes No N/A

Flight Control/Wing

1. Wing attach fittings for cracks, elongated bolt holes L/H CAR 3.317 CFR 23.572 Yes No N/A
2. Wing attach fittings for cracks, elongated bolt holes R/H CAR 3.317 CFR 23.572 Yes No N/A
3. **Wing L/H** dents, cracks, Loose rivets, Corrosion, nav light **red** CFR 23.603/1385 Yes No N/A
4. L/H wing Fuel vent direction **check AD's** FWD AFT CFR 23.975 Yes No N/A
5. **Wing R/H** dents, cracks, Loose rivets, Corrosion, nav light **green** CAR 3.295 CFR 23.603/1385
Yes No N/A
6. R/H Fuel vent direction FWD AFT CFR 23.975 Yes No N/A
7. **Flaps L/H** cracks _____, loose hardware _____, Properly installed _____. Stop drill cracks
CAR 3.339 CFR 23.655/697 Yes No N/A



8. **Flaps R/H** cracks _____, loose hardware _____, Properly installed _____, Stop drill cracks
 CAR 3.339 CFR 23.655/697 Yes No N/A
9. **Aileron R/H** cracks ____, Loose hardware ____, Properly installed _____, Stop drill cracks
 Yes No N/A
10. Cable rigging loose Annual/100 hour inspection CAR 3.337 CFR 23.655/685/689 Yes No N/A
11. **Aileron L/H** cracks ____, Loose hardware _____, Properly installed CAR 3.294 Yes No N/A
12. Cable rigging loose Annual/100 hour inspection CAR 3.337 CFR 23.655/685/689 Yes No N/A
13. Deicer boots condition worn, holes, debonded, type CAR .7127 CFR 23.1416/1419 Yes No N/A
14. **Rudder** moves up & down, bearing loose, cracks, repairs CAR 3.332 CFR 23.685 Yes No N/A
15. Rudder / trim tab attach fittings condition, loose CAR 3.337 CFR 23.685 Yes No N/A
16. **Lubrication**, systems lube per manufacturers recommendations CFR 43.13 Yes No N/A
17. Electrical bonding straps broken or frayed CAR 3.337-1 CFR 23.867 Yes No N/A
18. **Horizontal Stab L/H** cracks Loose rivets Hardware installation and safetied Stop drill cracks
 CFR 23.572 Stops CFR 23.675 Yes No N/A
19. **Horizontal Stab R/H** cracks Loose rivets Hardware installation and safetied Stop drill cracks CFR
 23.572, Stops CFR 23.675 Yes No N/A
20. Stopped drilled holes in elevator without doublers R/H CFR 23.572 Yes No N/A
21. Stopped drilled holes in elevator without doublers L/H CFR 23.572 Yes No N/A
22. Elevator trim control system rigging CAR 3.337 CFR 23.659 Yes No N/A
23. Elevator trim indicator control works CAR 3.337 CFR 23.677(a) Yes No N/A
24. Elevator / trim tab attach fittings L/H CAR 3.337 CFR 23.572 Yes No N/A
25. Elevator / trim tab attach fittings R/H CAR 3.337 CFR 23.572 Yes No N/A
26. Elevator trim / servo tab structure L/H CAR 3.337 CFR 23.572 Yes No N/A
27. Elevator trim / servo tab structure R/H CAR 3.337 CFR 23.572 Yes No N/A
28. Control surface attach fittings condition CAR 3.328 CFR 23.572 Yes No N/A
29. Control surface balancing all primary controls after repair or paint CAR 3.159 CFR 23.659
 Yes No N/A
30. STOL devices / control system condition CFR 23.572 Yes No N/A
31. Boundary layer control / vortex generators, cracks and condition CFR 23.572 Yes No N/A
32. Flight Control Surface Travels / Cable Tension CAR 3.345 CFR 23.143 Yes No N/A
33. Gust lock, condition, worn holes CAR 3.341 CFR 23.572 Yes No N/A
34. Autopilot trim indicator annual/100 hour check rigging CAR 3.343 CFR 23.143 Yes No N/A
35. Autopilot system condition CFR 23.143 Yes No N/A
36. Yaw damper condition CAR 3.347 CFR 23.143 Yes No N/A
37. Electric trim rigging and condition CAR 3.343 CFR 23.143 Yes No N/A
38. Flight control pulleys worn, broken, or frozen up CAR 3.345 CFR 23.689 Yes No N/A
39. Flight control cables broken strands/rust Reference AC43.13CFR 23.689 Yes No N/A
40. Flight control Surface Travel/Cable Tension CAR 3.345 CFR 23.391 to 23.459 Yes No N/A

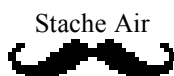
	Travel Spec	Actual	Tension Spec	Actual
Control Column	_____	_____	_____	_____
Aileron	_____	_____	_____	_____
Aileron Trim Tab(s)	_____	_____	_____	_____
Rudder	_____	_____	_____	_____
Rudder Trim Tab	_____	_____	_____	_____
Elevator/Stabilator	_____	_____	_____	_____
Elev / Stab Tab(s)	_____	_____	_____	_____
Flap	_____	_____	_____	_____
Moveable Stabilizer	_____	_____	_____	_____
Rudder Pedals	_____	_____	_____	_____

Engine Inspection

Engine Type Certificate Number T/C _____ Rev. _____
 Engine Part Number _____ S/N _____

Reference CAR Subpart E, CFR 23 Subpart E Powerplant, and 43 Appendix D

1. Thoroughly clean the engine CFR 43 App. D Yes No N/A
2. Perform engine static run CFR 33.26/43.15 Yes No N/A



- | | | | | | | | |
|---|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 3. Perform engine idle run R.P.M. check | CFR 33.26/43.15 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Perform mag drop check | CFR 33.37 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Mag "P" lead wires not cracked or broken | CFR 33.28 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Shut down engine and check for engine oil and fuel leaks | CFR 33.25 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Engine Data plate installed | CAR 3.670 CFR 45.13 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. L/H engine Make Model/Series matches TCDS | CFR 45.13 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 9. R/H engine Make Model/Series matches TCDS | CFR 45.13 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 10. Certification basic of components installed 337's | CFR 45.15 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 11. Instruments CFR 23.1305 instruments | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| a. Cylinder head temperature | CFR 43.15 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| b. Oil temperature check | CFR 43.15 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| c. Engine | CFR 23.1301 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| d. Accessories | CFR 23.1301 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 12. Engine cowl loose/missing hardware Location _____ | CAR 3.625 CFR 23.1193 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 13. Firewall bent, cracked, or missing fasteners | CAR 3.623 CFR 23.1191 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 14. Firewall wire and hose grommets condition | CAR 3.623 CFR 23.1191(c) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 15. Firewall has corrosion | CAR 3.624 CFR 23.1191(e) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 16. Engine mount structure for cracks, dents, etc. | CFR 23.23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 17. Retorque cylinder base nuts and case half per manufacture recommendations | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 18. Engine shock mount cracks, worn, hardware condition | CFR 33.33 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 19. Flex tubing condition weather cracking, worn, etc. | CAR 3.638 CFR 23.1183 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 20. Engine oil leaking Location _____ | CAR 3.638 CFR 23.1183 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 21. STC for Bracket air filter if installed & Form 337 | CFR 21.111/1091 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 22. Air Filter dirty/foreign particles | CAR 3.605 CFR 23.1107 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 23. Condition of baffle seals and installation Good <input type="checkbox"/> Poor <input type="checkbox"/> Substituted type of baffle material <input type="checkbox"/> | CAR 3.625 CFR 33.15/17/21& CFR 23.1043 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 24. Wire chafing, fuel lines, no wires clamped under them | CAR 3.681 AC 43.13-1B | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 25. Electrical wire Slack between supports Max 1/2 inch | AC 43.13-1B fig.11.9 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 26. Engine/Electric fuel pump condition wires, mounting Good/worn | CFR 23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 27. Ignition harness condition Good _____ Worn _____ | CFR 23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 28. Clean and gap spark plugs per engine manufactures recommendations | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 29. Rotate spark plugs per manufacture recommendation (One gasket required) | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 30. Starter ring broken teeth | CFR 23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 31. Alternator/generator drive belts condition worn, cracked, broke | CFR 23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 32. Cylinders cracked fins, rocker cover leaking 1__ 2__ 3__ 4__ 5__ 6__ | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 33. Cylinders barrel cracked (Chrome) 1__ 2__ 3__ 4__ 5__ 6__ | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 34. Cylinders check records for times & certifications 1__ 2__ 3__ 4__ 5__ 6__ | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 35. Exhaust stacks cracks, defects, installation 1__ 2__ 3__ 4__ 5__ 6__ | CAR 3.615 CFR 23. 1121 and CFR 33.21 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 36. Muffler cracked, location _____, Recurring AD's CAR 3.617 CFR 23.1121 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> | |
| 37. Muffler leak test to 2 psi internal pressure AC 43.13-1b para 8-49 (d) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> | |
| 38. Rocker cover or push rods leaking oil past seals | | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 39. Preheater shroud condition cracks, vibration | CAR 3.617 CFR 23.1101 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 40. Carburetor heat box condition of holes | CAR 3.617 CFR 23. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| a. Proper hardware screws and nuts | CFR 23. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 41. Engine controls properly safetying <input type="checkbox"/> travel <input type="checkbox"/> AC 43.13-1B para 7-122 thru 127 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> | |
| 42. Engine case nuts torqued and right side up CFR 43 Appendix D (d)(2) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> | |
| 43. Crankcase for cracks, leaks and security of seam bolts | CFR 33. | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 44. Engine mounts for corrosion, cracks NONE Allowed | CFR 23.363 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 45. Cowl flap control and operational limitations | CAR 3.625 CFR 23.1047 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 46. Cowl flap check for cracks | CFR 43.13 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 47. Alternate/ Ram air / Carb heat | CAR 3.606 CFR 23.1093 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 48. Turbo Waste gate (Non automatic) | CFR 23.1091 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 49. Vacuum pump lines, clamps condition Good <input type="checkbox"/> Worn <input type="checkbox"/> | CFR 23 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 50. Supercharger overall condition Good <input type="checkbox"/> Bad <input type="checkbox"/> | CFR 23.1109 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 51. Electrical wiring cracked, burned, broken | CAR 3.693 CFR 23.1163(b) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 52. Oil filter opening placard | CAR 3.767 CFR 23.1557(c)(2) | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 53. Drain oil | CFR 43 Appendix D | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 54. Clean oil screen | CFR 43 Appendix D | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |



55. Replace oil filter CFR 43 Appendix D Yes No N/A
56. Check filter for metal particles in accordance with manufacture CFR 43.15, 23.1019 Yes No N/A
57. Oil drain plug/valve condition and positive locking CAR 3.574 CFR 23.1021 Yes No N/A
58. Oil radiator supporting structure for security CAR 3.572 CFR 23.1023 Yes No N/A
59. Oil tanks condition and free of vibration CAR 3.563 CFR 23.1013 Yes No N/A
60. Hose inspection/replacement manufacture limits CFR 43.10 Yes No N/A
61. Mechanic has a master orifice for differential compression tester (MFG requirement) Yes No N/A
62. Differential Compression Test, 80psi /60 psi cylinder CFR 43 Appendix D and AC 43.13-1B paragraph 8-14 Yes No N/A
63. 1 ___ 2 ___ 3 ___ 4 ___ 5 ___ 6 ___ If **25%** difference check cylinder for problems.

Fuel System CAR-3 Subpart E and Part 23

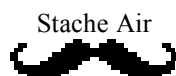
1. Remove cowling and clean engine of all oil and dirt CRR 43 Appendix D Yes No N/A
2. Injection fuel lines **Recurring AD** if required every 100 hours CFR 39 Yes No N/A
3. Fuel bowl leaking CAR 3.431 CFR 23.999 Yes No N/A
4. Fuel quantity sensor / transmitter condition CFR 23.955 Yes No N/A
5. Fuel boost / Aux. pump(s) bypass condition CAR 3.449 CFR 23.955 Yes No N/A
6. Fuel lines vibration/clamped CAR 3.550 CFR 23.993 & AC 43.13-1B para 8-31 Yes No N/A
7. Carburetor security, throttle arm/bushing loose CAR 3.551 CFR 23.994 Yes No N/A
8. Mixture control linkage condition CAR 3.630 CFR 23.1147 Yes No N/A
9. Throttle control binding condition CAR 3.628 CFR 23.1143 Yes No N/A
10. Engine primer leaking CAR 3.442 CFR 23.1141 Yes No N/A
11. Remove and clean carburetor screen Yes No N/A
12. Induction System Screens condition CAR 3.448 CFR 23.1107 Yes No N/A
13. Fuel pump condition and AD requirement CFR 23.991 Yes No N/A
14. Fuel system lines and fittings conditions CAR 3.550 CFR 23.993 Yes No N/A
15. Fuel system drains, lock shut and drains properly CFR 23.999 Yes No N/A
16. Clean and inspect fuel tank strainer condition CFR 23.977 Yes No N/A
17. Filler cap must have electrical bonding (chain on cap) CFR 23.973 Yes No N/A
18. Fuel placards **L/H wing** Yes No **R/H wing** CAR 3.761 CFR 23.1557(c) Yes No N/A
19. Fuel tank caps seal condition, tight seal, flat, cracked CAR 3.445 CFR 23.973(c) Yes No N/A
20. Fuel tank sump drained of water CAR 3.444 CFR 23.971 Yes No N/A
21. Fuel tank condition for cracks, vibration, leaks CFR 23.963 Yes No N/A
22. Fuel line and hose condition left/right side CFR 23.993 Yes No N/A
23. Fuel drain valve positive locking CAR 3.551 CFR 23.999 Yes No N/A
24. Fuel strainer or filter condition CAR 3.448 CFR 23.997 Yes No N/A
25. Blistering of sealant in a fuel cell caused by corrosion CFR 23.963(c) Yes No N/A
26. Fuel nonmetallic liners leaks CAR 3.442-1 CFR 23.965((d) Yes No N/A
27. Unusable fuel supply check reference TCDS CAR 3.440 CFR 23.959 Yes No N/A
28. Fuel gauge reads zero when fuel tank is empty CAR 3.440 CFR 23.1337(b) Yes No N/A

Propeller Inspection

Propeller Type Certificate Number T/C _____ Rev. _____

Propeller Part Number _____ S/N _____

1. Propeller Part number and serial number CFR 45.11 Yes No N/A
2. Is there a propeller maintenance record (log book) CFR 43.2(a) Yes No N/A
3. If no propeller log book sign 100-hour off in airframe record CFR 43.11 Yes No N/A
4. Propeller seal leaking CFR 23.907 Yes No N/A
5. Propeller for nicks, cracks, and damage AC 43.13-2B para 8-73 Yes No N/A
6. File marks after dressing propeller **NOT** allowed CFR 43.13 Yes No N/A
7. Mechanic record entry after dressing nicks CFR 43.9 Yes No N/A
8. Propeller spinner had doubler added to repair cracks **Not ALLOWED** CFR 23.907 Yes No N/A
9. Propeller spinner(s) cracks ___, **NO cracks allowed** nuts safety wired ___ Missing screws from spinner
None allowed ___ Reference Service Letters if cracked:
- a. Sensenich **See aircraft maintenance manuals** Yes No N/A

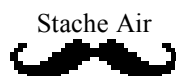


- b. McCauley 1992-14C -part **must be replaced** Yes No N/A
- c. Hartzell HC-SL-61-91 **Requires a Field Approval** Yes No N/A
10. Propeller grinding when rotating AC 43.13-1B para 8-2(c)(2) Yes No N/A
11. Corrosion pitting on blades or hub **None Allowed** CFR A35.3 Yes No N/A
12. Paint on propeller blades, type per manufacture manual CAR 3.295 CFR 23.609 Yes No N/A
13. If repainted after rework type of paint applied lacquer base or polyurethane enamel and was it recorded in the propeller maintenance record CFR 43.5 Yes No N/A
14. STC for different propeller than original per TCDS CFR 21.111 Yes No N/A
15. STC propeller check engine gages for new limitations CFR A35.4 Yes No N/A
16. Is the propeller the right diameter / width CAR 3.416 CFR 23.45 Yes No N/A
17. Propeller ground clearance CAR 3.422 CFR 23.925 Yes No N/A
18. Has the propeller tips been altered (rounded or square) CFR 43Append A Yes No N/A
19. Are their repairs in the propeller maintenance records CFR 43.9 Yes No N/A
20. Has the shotpeen been removed after reworked at hub CFR 43.9 Yes No N/A
21. Has the hub seal been replaced (service life) CFR 43.9 Yes No N/A
22. Prop Hub is oil/grease filled and/or leaking CFR 35.3 Yes No N/A
23. When was the last hub overhaul CFR 35.3 Yes No N/A
24. Pitting corrosion on Hub **NONE ALLOWED** CFR 35.3 Yes No N/A
25. Hub, blade clamps, and pitch change mechanisms should be inspected for corrosion **NONE ALLOWED** CFR A35.3 Yes No N/A
26. Were new propeller bolts installed CFR A35.3 Yes No N/A
27. Were new nuts used on the propeller bolts CFR A35.3 Yes No N/A
28. New cotter pins installed in retaining nuts per Manufacture CFR A35.4 Yes No N/A
29. Is the spinner shimmed to the spinner bracket if required CFR A35.3 Yes No N/A
30. Pitch change counterweights on blade clamps should be inspected for security, safety CFR A35.3 Yes No N/A
31. Adequate counterweight clearance within the spinner CFR 23.925 Yes No N/A
32. Are the propeller blades in track CFR 23.925 Yes No N/A
33. De-icer boots for signs of deterioration and security CFR 23.929 Yes No N/A
34. Propeller **total time** is recorded in propeller record CFR 91.417(2) Yes No N/A
35. Propeller vibration rate CAR 3.431 CFR 23.907 Yes No N/A
36. Propeller clearance to ground and gear CAR 3.417 CFR 23.925 Yes No N/A
37. Check blade play and blade track. CFR 43.13 Yes No N/A
38. Lubricate the propeller assembly. Refer to Hartzell Service Letter HC-SL-61-184 for procedure. (If you have a Hartzell) CFR 43.13 Yes No N/A
39. Propeller backing plate made of composite check propeller hub for pitting corrosion Yes No N/A

Avionics Installed

Type of Avionics: List by part number and serial number. CAR 3.721

- ALTIMETERS Yes No N/A
- ENCODING Yes No N/A
- Mfg: ACK Model: ACK 30 Yes No N/A
- Type of Avionics: AUDIO PANEL Yes No N/A
- Mfg: KING Model: KMA 20 Yes No N/A
- Type of Avionics: COLLISION AVOIDANCE SYSTEMS Yes No N/A
- Mfg: RYAN INTERNATIONAL CORPORATION Model: ATS 7000 Yes No N/A
- Type of Avionics: GPS Yes No N/A
- Mfg: KING Model: KLN 90 Yes No N/A
- Type of Avionics: RNAV Yes No N/A
- Mfg: KING Model: KNS 80 Yes No N/A
- Type of Avionics: LOC Yes No N/A
- Mfg: KING Model: KI 208 Yes No N/A
- Type of Avionics: NAV-COMM Yes No N/A
- Mfg: KING Model: KX 170 B Channels: 720 Yes No N/A
- Type of Avionics: COMM Yes No N/A
- Mfg: KING Model: KY 197 Channels: 720 Yes No N/A



Type of Avionics: TRANSPONDERS
 Mfg: KING Model: KT 76A
 Type of Avionics: STORMSCOPE
 Mfg: 3 M Model: WX 1000+
 Type of Avionics: GS
 Mfg: KING Model: KI 201
 Type of Avionics: AUTOPILOTS
 Mfg: S-TEC Model: SYSTEM 60 PSS
 Mfg: CENTURY Model: CENTURY II B

Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>
Yes	<input type="checkbox"/>	No	<input type="checkbox"/>	N/A	<input type="checkbox"/>

De-Icing Systems

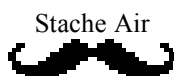
- | | | | | | | | |
|----------------------------------|-----------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Known Ice System: | CFR 23.1416' | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Ice Lights work and condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Prop De-Ice condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. De-Ice Type: | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Wing Tail Boots condition | CAR 3.712 CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Boots Condition: | CAR 3.712 CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Windshield De-Ice condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Windshield Wipers condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 9. Jet Intake De-Ice condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 10. Pitot Heat condition | CFR 23.1416 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Additional Equipment

- | | | | | | | | |
|---|-----------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| 1. Dual Controls: | CFR 23.777 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 2. Type: Yoke. | CFR 23.777 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 3. Stall Warning System works | CFR 23.703 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 4. Stick Shaker works | CFR 23.672 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 5. Rotating Beacon works | CAR 3.703 CFR 23.1401 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 6. Strobe Light works | CFR 23.1401 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 7. Taxi Lights works | CAR 3.655 CFR 23.1383 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 8. Navigation Light works | CAR 3.661 CFR 23.1389 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 9. Long Range Fuel | CFR 23.959 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 10. Aux Fuel Qty works | CFR 23.955 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 11. Single Point Refuel condition | CFR 23.953 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 12. Lavatory condition | CFR 23.1561 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 13. Galley condition | CFR 23.1561 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 14. Cabinetry condition | CFR 23.1561 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 15. Other Equipment condition | CAR 3.725 CFR 23.1561 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 16. Intercom System works | CFR 23.1561 | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 17. Entertainment equipment CD player check for alteration form | CFR 43 App. A | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 18. Gap seal kit installed | CFR 43 App. A | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 19. Brackett Aero Filter STC installed | CFR 43 App. A | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| 20. Air Filter replacement date Bracket air filter check hours | CFR 43 App. A | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Special Inspections

- | | | <u>Hours</u> | <u>Months</u> | <u>Years</u> |
|----------------------------------|--------|--------------------------|--------------------------|--------------------------|
| 1. Airworthiness Directives AD's | CFR 39 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Engine fuel and oil lines | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Brake lines | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Air filter engine | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Air filter instruments | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Wing structural areas | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Hard and over weight landings | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Lighting strike damage | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Hail damage | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |



10. Severe Turbulence Inspection		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Corrosion damage Inspection		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Radio Equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Emergency Locator Transmitter (ELT)	CFR 91.207	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Pitot Static	CFR 91.411	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Transponder	CFR 91.411	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Rigging checks	CFR 43 App. D	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. New Weight and balance aircraft for compensation / hire		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18. Magneto 200, 500 and etc. coil, contacts, etc. Inspection		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19. Rigging Inspection		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20. Oxygen bottles Inspection (Hydrostat)		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21. Lubrication Inspection		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22. Hose Inspection Fuel and Hydraulic		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23. Compass magnetic direction (calibration)	CFR 23.1327	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24. Airspeed indicator inspections	CFR 23.1323	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
25. Remove the rocker box covers and check for freedom of valve rockers		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Misc., Items Aircraft Inspection

Below are some of the reported items found on New and Low time aircraft, which should stress the importance of performing a thorough inspection:

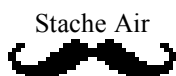
1. Aileron control cable not over pulley;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
2. Aileron cable improperly installed in bellcrank/cable retaining pin was not installed;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
3. Bolts loose on the vertical and horizontal stabilizer fin attachments;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
4. Broken and cracked electrical terminals;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
5. Control cable turnbuckles not saftied;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
6. Flap follow-up cable chafing on brake line;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
7. Foreign items in fuel cells/tanks;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
8. Fuel lines twisted, bent, kinked, obstructing flow;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
9. Fuel lines chafing - inadequate clamping	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
10. Incorrect propeller bolts installed;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
11. Jam nuts drilled but no safety wire installed;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
12. Lock clips missing from control cable turnbuckles;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
13. Loose rivets in horizontal stabilizer leading edge;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
14. Main wheel tires do not clear wheel bays;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
15. Numerous drill chuck marks in aft face of pressure bulkhead.	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
16. Oil lines leaking at connections;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
17. Primer line "T" fitting not installed;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
18. Propeller blade retention ferrules under torqued;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
19. Elevator trim cable wrapped around primary rudder control cable;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
20. Rivet holes drilled but rivets not installed, different areas;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
21. Rudder cable bellcrank attach bolts loose;	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
22. Rudder cable bolts fitted upside down; and	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
23. Unreliable fuel quantity indications.	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Life limits CFR 43.10

This checklist is not exhaustive and does not supersede Manufacturer's publications and is up-dated periodically!

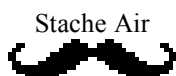
<u>Calendar/ Hourly Life limited Items:</u>	<u>Years.</u>	<u>Hours.</u>
<u>Airframe</u>		
Gyro air filters, central	5	500
Non-Teflon fuel, oil, and hydraulic hoses	15	3000
Teflon fuel, oil, and hydraulic hoses	20	4000
Seat belt / shoulder harness webbing	20	
Stabilizer attach bolts	25	6000
Wing bolts	25	6000
<u>Engine</u>		
Engine shock mounts	15	TBO
Non-Teflon fuel, oil, and hydraulic hoses	8	TBO
Teflon fuel, oil, and hydraulic hoses	15	TBO
Continental Engines		2000 SL 98-9
<u>Special Inspection Items:</u>	<u>Years.</u>	<u>Hours.</u>
<u>Airframe</u>		
Gyro air pump carbon vanes	6	500
Electric hydraulic pump motor	15	500-1500
Electro mechanical gear actuator	15	3000
Gear actuator motor brushes	2	250
Gear motor internal inspection / lubrication	15	3000
Flight control trim actuator(s)	15	4500
Electrical flap actuators/motors	20	4000
Stabilizer mounting bolts torque inspection	5	
Wing attach bolts torque inspection	5	
<u>Propeller</u>		
Fixed pitch propeller recondition	6	2000
Mounting hardware	20	2000
Constant speed propeller overhaul	6	2400
Prop governor reseal	15	1500
Governor (Woodward)	5	2400
Accumulators	5	1800
<u>Engine</u>		
Alternator		500
Gear drive alternator internal inspection	5	300
Belt driven alternator internal inspection	5	500
Internal magneto inspection	5	500
Valve inspection/dry lash clearance	15	TBO
Cam / cam follower inspection (TCM engines)	15	mid life
Bendix fuel injector servo overhaul		20 TBO
Pressure carburetor overhaul	20	TBO
Primer nozzles cleaned and spray pattern	5	
Continental unmetered fuel pressure check	2	400
Diaphragm fuel pumps overhaul	20	TBO
Internal starter inspection	5	mid-life
Turbocharger oil inlet check valve(s)	10	1000
Turbocharger oil scavenge check valves(s)	10	1000
Hydraulic wastegate actuator(s) resealing	10	1000

This is only a guide and should not be considered FAA approved data for life limits. Consult the manufacture recommendations, type certificate data sheets (TCDS), AD's, or the limitations section of FAA-approved airplane or rotorcraft flight manuals.

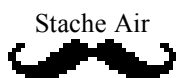


Reg # _____	Manufacturer	Model Number	Serial Number
Aircraft			
Engine #1			
Engine #2			
Engine #3			
Engine #4			
Propeller #1			
Propeller #2			
Propeller #3			
Propeller #4			

Category	Manufacturer	Part Number	Serial Number
Accumulators			
Air Conditioner			
Air Data Inertl Ref Unit			
Air Filter			
Airspeed Indicator			
Alternators			
Altimeter			
Angle of Attack sensor			
Attitude Hdg Reference Sy			
Auto-pilot			
Autopilot Servo			
Auxiliary Power Unit			
Ball/Swivel Quick Connctr			
Batteries			
Brake Assemblies			
Cabin Doors			
Cabin Superchargers			
Carburetors			
Circuit Breakers			
Cockpit Voice Record			
Coffee Makers			
Combustion Heaters			
Cylinder Assemblies			
Cylinder, Propane			
DME-Dist Measuring			
Dusting/Spraying Ops			



EFIS-Elec Flight Inst Sy			
ELT			
Emergency/Survival Equip.			
Emergency Pwr Supplies			
Engine Gage Units			
Fire Detectors			
Fire Ext Dischargers			
Fire Extinguishers			
Flight Data Recorder			
Flight Director Sys			
Flight Management Sy			
Floats			
Fuel Cells			
Fuel Flow Transmitter			
Fuel Injected System			
Fuel Pumps			
Fuel Selector Valve			
Fuel System			
GPWS(Gnd Prxmtly Warn Sys)			
Gear Boxes			
Glass Fiber Fabrics			
Glider Tow Couplings			
Global Positioning System			
Governors			
Hardpoint Assemblies			
Hoists			
Horizontal Sit Ind-HSI			
Hoses			
Ignition Switches			
Instrument Filters			
Instrument Landing Sys			
Integr. Avionics Computer			
Intercom/System			
LORAN			
Landing Gear			
Lavatory Receptacles			
Lighting			
Magnetic Compass Sys			
Magnetos			



Navigation Systems			
Oil Coolers			
Oil Filters			
Oxygen Masks			
Oxygen System			
Parachutes			
Piston Pin			
Pistons			
Pitot Static Heater			
Protect Breathing Equip			
Push-pull Control			
Radio Magnetic Indicator			
Receiver(s)			
Refueling System			
Safety Belts			
Seat Track Fittings			
Seats			
Smoke Detectors			
Spark Plugs			
Speaker(s)			
Standby Vacuum Systems			
Starter			
Starting Vibrator			
TCAS Terr Collision Avoid			
Tires			
Traffic Advisory System			
Transducers			
Transponder			
Turbine Power Conversion			
Turbochargers			
Turn and Bank Indicator			
Unapproved Parts			
Vacuum Pumps			