100-Hour/Annual Inspection Checklist (GA)

Part 23 & CAR 3 Aircraft

Original Issue date April 1998, Current revision date April 29, 2011

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"
Section 44704(d) of 49 U.S.C

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.***

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 Manufacture's publications and is up-dated periodically!**

The owner or operator is responsible for the maintaining the aircraft in an airworthy condition, including compliance with all applicable Airworthiness Directives as specified in Part 39 of the Code of Federal Regulations and "Airworthiness Limitations" of the applicable manufactures manual. It is also the responsibility of the owner to insure that the aircraft is inspected in compliance with the requirement of Part 21, 43, and 91 of Code of Federal Regulations.

Aircraft Data

1. N-Number: N_____
2. Airframe Type Certificate No. _____ Rev. _____ Specification sheet _____
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 ☐	No ☐ N/A ☐
2. Verify A&P/IA certificate number and picture ID	CFR 65.91	Yes ☐	No ☐ N/A ☐
3. Verify Pilots certificate number and picture ID	CFR 61.3	Yes ☐	No ☐ N/A ☐

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 CFR45.11 & 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 **(NO photo copy)** 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 & 91.417Yes ☐ No ☐ N/A ☐
   b. Engine CFR 39 & 91.417Yes ☐ No ☐ N/A ☐
   c. Propeller CFR 39 & 91.417Yes ☐ No ☐ N/A ☐
   d. Appliances Check for a list of items CFR 39 & 91.417Yes ☐ No ☐ N/A ☐
5. Reduce Vertical Separation Minimums **(RVSM)** with Letter of Authorization (LOA) CFR 91.706 Yes ☐ No ☐ N/A ☐
6. Last **Annua**l 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 04- 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 inaccordance 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 /TS0-C126 **every 12 months** check date 06/21/1985CFR 91.207 Yes ☐ No ☐ N/A ☐
20. **Altimeter test every 24 months**. CFR 91.411and CFR 43 Appendix E Yes ☐ No ☐ N/A ☐
21. **Pitot static transponder test every 24 months** CAR 3.665CFR 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 CFR 23.1541-1567/ CAR 3.755 CFR 91.31 Yes ☐ No ☐ N/A ☐
2. INOP placards CFR 91.213 Yes ☐ No ☐ N/A ☐
   a. INOP instruments disabled or removed by an A&P CFR 91.213 Yes ☐ No ☐ N/A ☐
   b. Equipment list up-dated CFR 91.213 Yes ☐ No ☐ N/A ☐
   c. Maintenance record entry CFR 91.213 Yes ☐ No ☐ N/A ☐
   d. Weight and balance record updated CFR 91.9 Yes ☐ No ☐ N/A ☐
   e. Minimum Equipment List (MEL) for aircraft CFR 91.213(a)(1)Yes ☐ No ☐ N/A ☐
3. Vacuum indicating system, **Life limited** pump CFR 23.1301 Yes ☐ No ☐ N/A ☐
4. Compass card Yes ☐ No ☐ Readable CAR 3,385 CFR 23.1547 & 25.1547 Yes ☐ No ☐ N/A ☐
5. Additional instruments not on equipment list or Form 337 CAR 3.661CFR 21.113 Yes ☐ No ☐ N/A ☐
6. Type of clock installed original analog or digital working AC 20-94 Yes ☐ No ☐ N/A ☐
7. Nav Radio P/N 1 _____, P/N 2 _____ matches equipment list Yes ☐ No ☐ N/A ☐
8. Conforms to Type Certificate (TC) per POH/AFM see item (5,6) Yes ☐ No ☐ N/A ☐
9. Cockpit fuel smell CAR 3.440 / CFR 23.863 Yes ☐ No ☐ N/A ☐
10. Data plate information matches registration CFR 45.11/13 & 47.3 Yes ☐ No ☐ N/A ☐
11. Intercom jack, how many any extra ____and required Form 337 Yes ☐ No ☐ N/A ☐
12. Fire extinguisher gage Green ☐ Red ☐ CFR 23.1199 Yes ☐ No ☐ N/A ☐
13. Fire Extinguishing Agent **commuter category** installed CFR 23.1197 Yes ☐ No ☐ N/A ☐
14. Fire extinguisher easy access to pilot CFR 23.851 Yes ☐ No ☐ N/A ☐
15. Oxygen equipment and supply lines condition CFR 23.1441thru1453 Yes ☐ No ☐ N/A ☐
16. Oxygen bottle if required Green ☐ Red ☐ CFR 23.1441 Yes ☐ No ☐ N/A ☐
    Hydro AA 5 years HT 3 year retire at 24 years AC 43.13-1b para 9-51 Yes ☐ No ☐ N/A ☐
17. Instrument filter covers installed Yes ☐ No ☐ N/A ☐
18. Yoke chain safety wired, loose or corrosion present CFR 43.13 Yes ☐ No ☐ N/A ☐
19. Cockpit control knob shape correct type CAR 3.384 CFR 23.781 Yes ☐ No ☐ N/A ☐
20. Flap, gear, knobs installed CAR 3.384 CFR 23.781 Yes ☐ No ☐ N/A ☐
21. Electrical wiring more **than ½ inch slack** AC 43.13-1B para 11-118 Yes ☐ No ☐ N/A ☐
22. Electrical wiring clamps/marking as required AC 43.13-1B sec. 11 Yes ☐ No ☐ N/A ☐
23. Tie-wraps items of mass in the cabin CFR 23.561 Yes ☐ No ☐ N/A ☐
24. Loose wires under dash not clamped CFR 23.1351 Yes ☐ No ☐ N/A ☐
25. Fuel selector moves to all positions and placarded CAR 3.364 CFR 23.951 Yes ☐ No ☐ N/A ☐
26. Brake master cylinder leaking R/H ☐ L/H ☐ CRF 43.13 Yes ☐ No ☐ N/A ☐
27. Thoroughly clean the aircraft and aircraft engine CFR 43App D Yes ☐ No ☐ N/A ☐
28. Cargo tie downs or nets if installed CFR 91.525 Yes ☐ No ☐ N/A ☐
29. General, uncleanness and loose equipment that might foul the controls, apparent and obvious defects and insecurity of attachment. CRF 43App D Yes ☐ No ☐ N/A ☐
30. Stall warning system horn works CAR 3.120 CFR 23.1323 Yes ☐ No ☐ N/A ☐
31. Windshield STC for one piece CFR 43 Appendix A Yes ☐ No ☐ N/A ☐
32. Windows tinted TCDS/Equipment list Yes ☐ No ☐ N/A ☐

33. Sun visor installation or STC with form 337 CFR 43.13 Yes ☐ No ☐ N/A ☐
34. Windshield and windows conditions CAR 3.382 CFR 23.775 Yes ☐ No ☐ N/A ☐
35. Windscreen clear ☐ scratches ☐ cracks ☐ crazing ☐
Reference CFR23.775 AC 43.13-1b and MIL-P-5425 Yes ☐ No ☐ N/A ☐
36. Windows stopped drilled, cracked, or crazed CAR 3.382
CFR 23.775, and AC 43.13-1B Chapter 3 paragraph 318 (a)(2), and MIL-P-5425 Yes ☐ No ☐ N/A ☐

Instruments

CFR 91.205

Flight Instruments minimum required

1. An Airspeed indicator CAR 3.655CFR 23.1303 Yes ☐ No ☐ N/A ☐
2. An Altimeter indicator CAR 3.655 CFR 23.1303 Yes ☐ No ☐ N/A ☐
3. Direction indicator CAR-3.666 CFR 23.1303 Yes ☐ No ☐ N/A ☐

Minimum Instruments Required Visual-flight rules (day)

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

Minimum Instrument for Instrument flight rules

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

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 ☐ No ☐ N/A ☐
2. Oil pressure indicator for each engine CAR 3.674 CFR 23.1305(a) Yes ☐ No ☐ N/A ☐
3. Oil temperature indicator for each engine CFR 23.1305(a) Yes ☐ No ☐ N/A ☐
4. Oil quantity measuring device for each engine CAR 3.674 CFR 23.1305(a) Yes ☐ No ☐ N/A ☐
5. Fire warning indicator if required by CFR 23.1205 Yes ☐ No ☐ N/A ☐
6. Tachometer indicator for each engine CFR 23.1305(b) Yes ☐ No ☐ N/A ☐
7. Cylinder head indicator for each engine CFR 23.1305(b) Yes ☐ No ☐ N/A ☐
   a. Cowl flaps installed CAR 3.675 CFR 23.1305(b) Yes ☐ No ☐ N/A ☐
   b. Commuter category aircraft CFR 23.1305(b) Yes ☐ No ☐ N/A ☐
8. Manifold pressure indicator for each engine and for each engine with an controllable pitch propeller
CFR 23.1305(b) Yes ☐ No ☐ N/A ☐

Instrument Arrangement

CAR 3.661 CFR 23.1321

1. Attitude indicator on panel top center position CFR 23.1321 Yes ☐ No ☐ N/A ☐
2. Airspeed indicator adjacent to and directly to left of the instrument in the top center position.
CFR 23.1321 Yes ☐ No ☐ N/A ☐
3. Altitude indicator adjacent to and directly to right of the instrument in the top center position.
CFR 23.1321 Yes ☐ No ☐ N/A ☐

4. Magnetic direction indicator placard must state whether the calibration was made with radio receivers **on or off** CFR 23.1547 Yes ☐ No ☐ N/A ☐
5. Magnetic direction indicator more than **10 degrees** off CFR 23.1547 Yes ☐ No ☐ N/A ☐

Instrument Markings CAR 3.755 CFR 23.1543

1. Marking on cover glass must be in alignment with face CFR 23.1543 Yes ☐ No ☐ N/A ☐
2. Each arc and line must be clearly visible to pilot CFR 23.1543 Yes ☐ No ☐ N/A ☐
3. All related instruments must be calibrated in compatible units CFR 23.1543 Yes ☐ No ☐ N/A ☐

Electrical System CAR 3.694 CFR 23.1367

1) Switches
   a. Able to carry rated current CAR 3.682 CFR 23.1367 Yes ☐ No ☐ N/A ☐
   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 ☐ No ☐ N/A ☐
   c. Labeled as to operation and circuit controlled CFR 23.1367 Yes ☐ No ☐ N/A ☐
2) Circuit Breakers/Fuses
   a. Circuit protection CAR 3.690 CFR 23.1357 Yes ☐ No ☐ N/A ☐
   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 3.715TSO-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 ☐ No ☐ N/A ☐
25. **Shoulder harness required after July 18, 1978** CFR 23.785(g)(1) Yes ☐ No ☐ N/A ☐
26. **Shoulder harness required after Sept. 16, 1992 (PAX) helicopter** Yes ☐ No ☐ N/A ☐
27. Cabin divider(s) / Curtains / Door(s) CFR 23.853 Yes ☐ No ☐ N/A ☐
28. Heating system / AD's / decay test CAR 3.388 CFR 23.859 Yes ☐ No ☐ N/A ☐
29. Cabin cooling (air conditioning), Ck / CAR 3.393 CFR 23.831 Yes ☐ No ☐ N/A ☐
30. Outflow / Safety / Dump valve(s)condition CAR 3.394 CFR 23.843 Yes ☐ No ☐ N/A ☐
31. Pressurization seals /boots /gaskets condition CAR 3.396 CFR 23.831 Yes ☐ No ☐ N/A ☐
32. Glare shield painted flat black CFR 23.773 Yes ☐ No ☐ N/A ☐
33. Door latches lock CFR 23.783 Yes ☐ No ☐ N/A ☐
    a. Door sprung CAR 3.389 CFR 23.783 Yes ☐ No ☐ N/A ☐
    b. Door Seals worn CAR 3.387 CFR 23.783 Yes ☐ No ☐ N/A ☐
    c. Door slide track lock broken CAR 3.387 CFR 23.783 Yes ☐ No ☐ N/A ☐

Misc. Fuselage

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

Aircraft exterior inspection

1. Wash and clean all oil, grease and dirt from aircraft CFR 43 Appendix D Yes ☐ No ☐ N/A ☐
2. Nationality and registration marks per CFR 45.29 Check 3 inch marking per date **Jan. 1, 1983** and repaint. Over 30 years 2 or12 inch CFR 45.22(b) Yes ☐ No ☐ N/A ☐
3. Rotating beacon installation proper doubler **Required after 08-11-71** CFR 23.1401 Yes ☐ No ☐ N/A ☐
4. Anticollision light system installed CAR 3.705 CFR 91.209(b) / CFR 23.1401 Yes ☐ No ☐ N/A ☐
5. Anticollision light installed after 03/11/1996 Red or white CFR 91.206(b)(11) Yes ☐ No ☐ N/A ☐

6. AFT nav light proper color **white**	CAR 3.702 CFR 23.1385-1399	Yes ☐ No ☐ N/A ☐
7. Panel seams miss match, extra paint in front of static port	CFR 23.1325	Yes ☐ No ☐ N/A ☐
8. Static ports paint in hole or other things L/H ☐ R/H ☐	CAR 3.665 CFR 23.1325	Yes ☐ No ☐ N/A ☐
9. Static vent painted over L/H ☐ R/H ☐	CAR 3.665 CFR 23.1325	Yes ☐ No ☐ N/A ☐
10. Pitot heat indicator amber light	CFR 23.1326	Yes ☐ No ☐ N/A ☐
11. Pitot heat element operational	CFR 23.1326	Yes ☐ No ☐ N/A ☐
12. Pitot tube worn around hole Yes ☐ No ☐ Not plugged		Yes ☐ No ☐ N/A ☐
a. Air Speed Last inspection date _____	CFR 23.1325	Yes ☐ No ☐ N/A ☐
13. Static wicks missing		
a. Right wing	CFR 23.867	Yes ☐ No ☐ N/A ☐
b. Left wing	CFR 23.867	Yes ☐ No ☐ N/A ☐
c. Right elevator	CFR 23.867	Yes ☐ No ☐ N/A ☐
d. Left elevator	CFR 23.867	Yes ☐ No ☐ N/A ☐
e. Rudder	CFR 23.867	Yes ☐ No ☐ N/A ☐

Landing Gear CAR-3 and Part 23

1. Correct tire and wheel for the aircraft	CAR 3.362 CFR 23.733	Yes ☐ No ☐ N/A ☐
2. Tire service Main ____ R ☐ L ☐ Nose Tire ☐	CAR 3.362 CFR 23.733	Yes ☐ No ☐ N/A ☐
3. Tires condition wear, cuts, or weather cracking L/H ☐ R/H ☐ NLG ☐	AC 43.13 para 9-14	Yes ☐ No ☐ N/A ☐
4. Landing Gear struts leaking L/H ☐ R/H ☐ NLG☐	AC 43.13 par 9-2/4	Yes ☐ No ☐ N/A ☐
5. Landing gear struts extension L/H _____ R/H _____	AC43.13 para 9-2/4	Yes ☐ No ☐ N/A ☐
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 ☐ RH ☐	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**
Actuator cushion	Up _____	Down _____	Up _____Down____
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		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 manufactures 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 ☐ No ☐ N/A ☐
4. Perform magneto drop check	CFR 33.37	Yes ☐ No ☐ N/A ☐
5. Mag "P" lead wires not cracked or broken	CFR 33.28	Yes ☐ No ☐ N/A ☐
6. Shut down engine and check for engine oil and fuel leaks	CFR 33.25	Yes ☐ No ☐ N/A ☐
7. Engine Data plate installed	CAR 3.670 CFR 45.13	Yes ☐ No ☐ N/A ☐
8. L/H engine Make Model/Series matches TCDS	CFR 45.13	Yes ☐ No ☐ N/A ☐
9. R/H engine Make Model/Series matches TCDS	CFR 45.13	Yes ☐ No ☐ N/A ☐
10. Certification basic of components installed 337's	CFR 45.15	Yes ☐ No ☐ N/A ☐
11. Instruments CFR 23.1305 instruments		Yes ☐ No ☐ N/A ☐
a. Cylinder head temperature limitations placard	CFR 43.15	Yes ☐ No ☐ N/A ☐
b. Oil temperature check limitations placard	CFR 43.15	Yes ☐ No ☐ N/A ☐
c. Engine	CFR 23.1301	Yes ☐ No ☐ N/A ☐
d. Accessories	CFR 23.1301	Yes ☐ No ☐ N/A ☐
12. Engine cowl loose/missing hardware Location _____	CAR 3.625 CFR 23.1193	Yes ☐ No ☐ N/A ☐
13. Firewall bent, cracked, or missing fasteners	CAR 3.623 CFR 23.1191	Yes ☐ No ☐ N/A ☐
14. Firewall wire and hose grommets condition	CAR 3.623 CFR 23.1191(c)	Yes ☐ No ☐ N/A ☐
15. Firewall has corrosion	CAR 3.624 CFR 23.1191(e)	Yes ☐ No ☐ N/A ☐
16. Engine mount structure for cracks, dents, etc.	CFR 23.23	Yes ☐ No ☐ N/A ☐
17. **Retorque** cylinder base nuts and case half per manufacture recommendations		Yes ☐ No ☐ N/A ☐
18. Engine shock mount cracks, worn, hardware condition	CFR 33.33	Yes ☐ No ☐ N/A ☐
19. Flex tubing condition weather cracking, worn, etc.	CAR 3.638 CFR 23.1183	Yes ☐ No ☐ N/A ☐
20. Engine oil leaking Location _____	CAR 3.638 CFR 23.1183	Yes ☐ No ☐ N/A ☐
21. STC for Bracket air filter if installed & Form 337	CFR 21.111/1091	Yes ☐ No ☐ N/A ☐

22. Air Filter dirty/foreign particles CAR 3.605 CFR 23.1107 Yes ☐ No ☐ N/A ☐
23. Condition of baffle seals and installation Good ☐ Poor ☐ Substituted type of baffle material ☐
CAR 3.625 CFR 33.15/17/21& CFR 23.1043 Yes ☐ No ☐ N/A ☐
24. Wire chafing, fuel lines, no wires clamped under them CAR 3.681 AC 43.13-1B Yes ☐ No ☐ N/A ☐
25. Electrical wire Slack between supports **Max 1/2 inch** AC 43.13-1B fig.11.9 Yes ☐ No ☐ N/A ☐
26. Engine/Electric fuel pump condition wires, mounting Good/worn CFR 23 Yes ☐ No ☐ N/A ☐
27. Ignition harness condition Good ____ Worn ____ CFR 23 Yes ☐ No ☐ N/A ☐
28. Clean and gap spark plugs per engine manufactures recommendations Yes ☐ No ☐ N/A ☐
29. Rotate spark plugs per manufacture recommendation (One gasket required) Yes ☐ No ☐ N/A ☐
30. Starter ring broken teeth CFR 23 Yes ☐ No ☐ N/A ☐
31. Alternator/generator drive belts condition worn, cracked, broke CFR 23 Yes ☐ No ☐ N/A ☐
32. Cylinders cracked fins, rocker cover leaking 1__ 2__ 3 __ 4__ 5__ 6__ Yes ☐ No ☐ N/A ☐
33. Cylinders barrel cracked (Chrome) 1__ 2__ 3 __ 4__ 5__ 6__ Yes ☐ No ☐ N/A ☐
34. Cylinders check records for times & certifications 1__ 2__ 3 __ 4__ 5__ 6__ Yes ☐ No ☐ N/A ☐
35. Exhaust stacks cracks, defects, installation 1__ 2 __ 3__ 4__ 5__ 6__
CAR 3.615 CFR 23. 1121 and CFR 33.21 Yes ☐ No ☐ N/A ☐
36. Muffler cracked, location _____, **Recurring AD's** CAR 3.617 CFR 23.1121 Yes ☐ No ☐ N/A ☐
37. Muffler leak test to 2 psi internal pressure AC 43.13-1b Para 8-49 (d) Yes ☐ No ☐ N/A ☐
38. Rocker cover or push rods leaking oil past seals Yes ☐ No ☐ N/A ☐
39. Valve inspection (freedom of valve rockers when valves are closed)
manufacture recommendations Yes ☐ No ☐ N/A ☐
40. Preheater shroud condition cracks, vibration CAR 3.617 CFR 23.1101 Yes ☐ No ☐ N/A ☐
41. Carburetor heat box condition of holes CAR 3.617 CFR 23. Yes ☐ No ☐ N/A ☐
a. Proper hardware screws and nuts CFR 23. Yes ☐ No ☐ N/A ☐
42. Engine controls properly safetying ☐ travel ☐ AC 43.13-1B para 7-122 thru 127 Yes ☐ No ☐ N/A ☐
43. Engine case nuts torqued and right side up CFR 43 Appendix D (d)(2) Yes ☐ No ☐ N/A ☐
44. Crankcase for cracks, leaks and security of seam bolts CFR 33. Yes ☐ No ☐ N/A ☐
45. Engine mounts for corrosion, cracks **NONE Allowed** CFR 23.363 Yes ☐ No ☐ N/A ☐
46. Cowl flap control and operational limitations CAR 3.625 CFR 23.1047 Yes ☐ No ☐ N/A ☐
47. Cowl flap check for cracks CFR 43.13 Yes ☐ No ☐ N/A ☐
48. Alternate/ Ram air / Carb heat CAR 3.606 CFR 23.1093 Yes ☐ No ☐ N/A ☐
49. Turbo Waste gate (Non automatic) CFR 23.1091 Yes ☐ No ☐ N/A ☐
50. Vacuum pump lines, clamps condition Good ☐ Worn ☐ CFR 23 Yes ☐ No ☐ N/A ☐
51. Supercharger overall condition Good ☐ Bad ☐ CFR 23.1109 Yes ☐ No ☐ N/A ☐
52. Electrical wiring cracked, burned, broken CAR 3.693 CRR 23.1163(b) Yes ☐ No ☐ N/A ☐
53. Oil filter opening placard CAR 3.767 CFR 23.1557(c)(2) Yes ☐ No ☐ N/A ☐
54. Drain oil CFR 43 Appendix D Yes ☐ No ☐ N/A ☐
55. Clean oil screen CFR 43 Appendix D Yes ☐ No ☐ N/A ☐
56. Replace oil filter CFR 43 Appendix D Yes ☐ No ☐ N/A ☐
57. Check filter for metal particles in accordance with manufacture CFR 43.15, 23.1019 Yes ☐ No ☐ N/A ☐
58. Check for metal particles or foreign matter on screens and sump drain plugs
CFR 43 Appendix D Yes ☐ No ☐ N/A ☐
59. Oil drain plug/valve condition and positive locking CAR 3.574 CFR 23.1021 Yes ☐ No ☐ N/A ☐
60. Oil radiator supporting structure for security CAR 3.572 CFR 23.1023 Yes ☐ No ☐ N/A ☐
61. Oil tanks condition and free of vibration CAR 3.563 CFR 23.1013 Yes ☐ No ☐ N/A ☐
62. Hose inspection/replacement manufacture limits CFR 43.10 Yes ☐ No ☐ N/A ☐
63. Mechanic has a master orifice for differential compression tester (MFG requirement) Yes ☐ No ☐ N/A ☐
64. Differential Compression Test, 80psi /60 psi cylinder
CFR 43 Appendix D and AC 43.13-1B paragraph 8-14 Yes ☐ No ☐ N/A ☐
65. 1 ____ 2____ 3 ____ 4___ 5___ 6___ If **25%** difference check cylinder for problems.
66. Turbocharger inspect all air ducting and connections Per Manufacture Manual Yes ☐ No ☐ N/A ☐
67. Exhaust pressure check system condition and leaks 5 p.s.i. CFR 43.16 Yes ☐ No ☐ N/A ☐
68. Engine Condition perform completed run-up

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	Manufacture Maintenance Manual	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 ☐
29.	Lubricate all control rod ends and fuel system components	MFG instructions	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	CFR23.907	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 shot peen 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	Yes ☐ No ☐ N/A ☐
Mfg: KING Model: KT 76A	Yes ☐ No ☐ N/A ☐
Type of Avionics: STORMSCOPE	Yes ☐ No ☐ N/A ☐
Mfg: 3 M Model: WX 1000+	Yes ☐ No ☐ N/A ☐
Type of Avionics: GS	Yes ☐ No ☐ N/A ☐

Mfg: KING Model: KI 201	Yes ☐ No ☐ N/A ☐
Type of Avionics: AUTOPILOTS	Yes ☐ No ☐ N/A ☐
Mfg: S-TEC Model: SYSTEM 60 PSS	Yes ☐ No ☐ N/A ☐
Mfg: CENTURY Model: CENTURY II B	Yes ☐ No ☐ N/A ☐

De-Icing Systems

1.	Known Ice System:	CFR 23.1416`	Yes ☐ No ☐ N/A ☐
2.	Ice Lights work and condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐
3.	Prop De-Ice condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐
4.	De-Ice Type:	CFR 23.1416	Yes ☐ No ☐ N/A ☐
5.	Wing Tail Boots condition	CAR 3.712 CFR 23.1416	Yes ☐ No ☐ N/A ☐
6.	Boots Condition:	CAR 3.712 CFR 23.1416	Yes ☐ No ☐ N/A ☐
7.	Windshield De-Ice condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐
8.	Windshield Wipers condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐
9.	Jet Intake De-Ice condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐
10.	Pitot Heat condition	CFR 23.1416	Yes ☐ No ☐ N/A ☐

Additional Equipment

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

Special Inspections

			Hours	Months	Years
1.	Airworthiness Directives AD's	CFR 39	☐	☐	☐
2.	Engine fuel and oil lines	Per Manufacture Manual	☐	☐	☐
3.	Brake lines	Per Manufacture Manual	☐	☐	☐
4.	Air filter engine	Per Manufacture Manual	☐	☐	☐
5.	Air filter instruments	Per Manufacture Manual	☐	☐	☐
6.	Wing structural areas	Per Manufacture Manual	☐	☐	☐
7.	Hard and over weight landings	Per Manufacture Manual	☐	☐	☐
8.	Lighting strike damage	Per Manufacture Manual	☐	☐	☐
9.	Hail damage	Per Manufacture Manual	☐	☐	☐
10.	Severe Turbulence Inspection	Per Manufacture Manual	☐	☐	☐
11.	Corrosion damage Inspection	Per Manufacture Manual	☐	☐	☐

12. Radio Equipment	Per Manufacture Manual	☐	☐	☐
13. Emergency Locater Transmitter (ELT)	CFR 91.207	☐	☐	☐
14. Pitot Static	CFR 91.411	☐	☐	☐
15. Transponder	CFR 91.411	☐	☐	☐
16. Rigging checks	CFR 43 App. D	☐	☐	☐
17. New Weight and balance aircraft for compensation / hire		☐	☐	☐
18. Magneto 200, 500 and etc. coil, contacts, etc. Inspection		☐	☐	☐
19. Rigging Inspection	Per Manufacture Manual	☐	☐	☐
20. Oxygen bottles Inspection (Hydrostat)	AC 43.13-1B Chapter 9 Section 3	☐	☐	☐
21. Lubrication Inspection	Per Manufacture Manual	☐	☐	☐
22. Hose Inspection Fuel and Hydraulic	Per Manufacture Manual	☐	☐	☐
23. Compass magnetic direction (calibration)	CFR 23.1327	☐	☐	☐
24. Airspeed indicator inspections	CFR 23.1323	☐	☐	☐
25. Remove the rocker box covers and check for freedom of valve rockers (400-hour)		☐	☐	☐

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

Sample AD Compliance List

AIRWORTHINESS DIRECTIVE COMPLIANCE RECORD

N-Number _____

Make _____ **Model** _____
S/N_____

AD Number	Subject	Date and Hour of Compliance	Method of Compliance	One Time	Recurring	Next due	Authorized Signature

Sample Logbook Unairworthy Maintenance Entry

September 08, 2007.Total time 853.00 hours Tach reading 420.80 I certify that this aircraft has been inspected in accordance with an annual inspection and a list of discrepancies and unairworthy in accordance with Part 43 Appendix D items dated (insert date) has been provided for the aircraft owner or leasee.

George B. Jones IA272182

Sample Logbook Airworthy Maintenance Entry

September 08, 2007. Total aircraft time 853.00 hours. Tach reading 420.80 Replaced right main wheel bearing, P/N 19844, upper bushing in R&L landing gear frames, both brake hoses, P/N 34052, and bled brakes. I certify that this aircraft has been inspected in accordance with an annual inspection and was determined to be in airworthy condition in accordance with Part 43 Appendix D. or (Manufacture manual revision 123 date 12/14/2010

George B. Jones IA272182

FAA Web Site Links: (http://www.faa.gov)

- **Type Certificate Data Sheets (TCDS)** http://www.airweb.faa.gov/Regulatory_and_Guidance_Library/rgMakeModel.nsf/MainFrame?OpenFrameSet
- **Regulations, AC's. and & Forms:** http://www.faa.gov/mechanics/regs_policy/
- **Airworthiness Directives:** **http://rgl.faa.gov/Regulatory_and_Guidance_Library/rgAD.nsf/MainFrame?OpenFrameSet**

Life limits CFR 43.10

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

Calendar/ Hourly Life limited Items:	Years.	Hours.
Airframe		
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
Engine		
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

Special Inspection Items:	Years.	Hours.
Airframe		
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	
Propeller		
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
Engine		
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 Prxmty 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			