

EBIS W/O # 9100**AIRCRAFT 100 HOUR / ANNUAL INSPECTION**
 Date: 04 Dec 20 A/C Reg: 977CP Tach In: _____ Tach Out: 722.7 Hobbs In: _____ Hobbs Out: 889.1

This checklist should be used in conjunction with the inspection guide and service manual for the specified type and model of aircraft being serviced. Items marked with and * are only applicable to certain aircraft. Check the service manual prior to beginning inspection to check for applicability. AD's and special inspections items must be checked at every inspection.

PRE - Inspection & Hidden Damage Inspection	Technician	Inspector
1. Ensure current Tech Pubs for this aircraft		
2. Check Airworthiness Cert, Registration, Logbooks.	<u> </u>	
3. Create W/O Items in EBIS for each item above needing compliance now.	<u> </u>	
GET STARTING TACH TIME & HOBBS TIME & COMPLETE SUPPLIES CHECKLIST		

AD Research	Technician	Inspector
1. Run AD Search. Determine relevant AD's	<u> </u>	
2. logbooks: Determine which A/D's have previously been complied with.	<u> </u>	
3. EBIS: Enter A/D's needing compliance into EBIS as separate "Airworthy" items.	<u> </u>	

Pre-Inspection Items CFR Part 43, Appendix D (a)	Technician	Inspector
1. Aircraft exterior and engines cleaned for inspection	<u> </u>	
2. Remove all interior & exterior panels	<u> </u>	

Engine & Nacelles CFR Part 43, Appendix D (d)	Technician		Inspector	
	Left	Right	Left	Right
1. Engine Oil Change - Drain oil sump and oil cooler, inspect and clean screens, replace filter element and applicable, cut-open and inspect filter and refill with proper grade aviation oil.				
2. Spark Plugs - Remove, analyze, clean, test, gap and rotate top plugs-to-bottom and bottom plugs-to-top. Complete differential pressure check				
L: 1- <u>65</u> /80, 2- <u>63</u> /80, 3- <u>65</u> /80, 4- <u>67</u> /80, 5- <u>63</u> /80, 6- <u>62</u> /80				
R: 1- /80, 2- /80, 3- /80, 4- /80, 5- /80, 6- /80				
3. Cowling and/ or Cowl Flaps - Wash and inspect for cracks, dents, condition of paint and other damage. Check cowl fasteners, cowl mounted landing lights and flaps for condition, security and operation.				
4. Oil Cooler - Check for obstruction, leaks, and security of attachment				
5. Exhaust System - (normally aspirated engine) - Inspect for cracks, security and evidence of leakage. Pressure test heat exchanger for leaks.	<u> </u>	<u> </u>		<u>N/A</u>
6. Exhaust System - (turbocharged engine) - Inspect for cracks, security and evidence of leakage. Inspect couplings, seal clamps and expansion joints for condition and security.	<u> </u>	<u> </u>		



Engine & Nacelles CFR Part 43, Appendix D (d) (Continued from previous page)	Technician		Inspector	
	Left	Right	Left	Right
7. Turbocharger*				
a. Inspect mounting brackets, ducting, linkage and attaching parts for general condition, leakage or damage and security of attachment.				
b. Check waste-gate, actuator, controller, oil and vent lines, overboost relief valve and compressor housing for leakage, apparent damage, security of attachment and evidence of wear. Check waste-gate return spring for condition and security.				
c. Remove insulation blanket or heat shields and inspect for burned areas, bulges or cracks. Remove tailpipe and ducting-inspect turbine for coking, carbonization, oil deposits and turbine impellers for damage.				
d. Lube controls, waste - gate, etc., with mouse milk.				
8. Engine Cylinders, Rocker Box Covers and Push - Rod Housing - Check for damage, cracks, oil leakage security of attachment and general condition.				
9. Engine Baffles and Seals - Check condition and security of attachment.				
10. Crankcase, Oil Sump and Accessory Section - Inspect for cracks and evidence of oil leakage. Check bolts for looseness and re-torque as necessary. Check crankcase breather lines for obstruction, security and general condition.				
11. Induction System - Check security of clamps tubes and ducting. Inspect for evidence of leakage.				
12. Induction Airbox, Valves, Doors and Controls - Remove air filter and inspect hinges, door, seals and attaching parts for wear and security. Check operation. Clean and inspect air filter and re-oil if flock coated.				
13. Cold and Hot Air Hoses - Check condition, routing and security.				
14. Engine and Propeller Controls and Linkage - Check freedom of movement through full range, and contacting stops. Check for proper travel, security of attachment and for evidence of wear.				
15. Carburetor * - Drain and flush carburetor bowl and clean inlet strainer. Check general condition and security.			N/A	
16. Fuel/Air (Metering) Control Units * - Inspect linkage and controls for freedom of movement through full travel, check for evidence of leakage and clean inlet screens.				
17. Fuel Injection System * - Inspect lines, nozzles, fuel manifold and fuel control units for evidence of leakage, damage, bends to injector lines and security of attachment.				
18. Engine Primer * - Check for leakage, operation and security.				
19. Hoses, Metal Lines and Fittings - Inspect for signs of oil and fuel leaks. Check for abrasions, chafing, security proper routing, support and for evidence of deterioration.				
20. Fuel Strainer, Drain Valve and Controls - Check freedom of movement, security and proper operation. Disassemble, flush and clean screen and bowl.				
21. Auxiliary (Electric) Fuel Pump * - Check pump and fittings for condition, operation and security. Remove and clean filter (as applicable)				
22. Engine-Driven Fuel Pump * - Check for evidence of leakage, security. Check vacuum system breather line for obstruction, condition and security.				



Engine & Nacelles CFR Part 43, Appendix D (d) (Continued from previous page)	Technician		Inspector	
	Left	Right	Left	Right
23. Vacuum Pump - Check for evidence of leakage, condition and security. Check vacuum system breather line for obstruction, condition and security.			N/A	
24. Vacuum System Oil Separation * - Check and Inspect.			N/A	
25. Engine Driven Hydraulic Pump * - Check condition and security.			N/A	
26. Hydraulic Filter * - (fire-wall mounted or engine-driven pump system) - Disassemble, clean and inspect.			N/A	
27. Magnetos - Check external condition, security and electrical leads for condition. Check timing to engine. Check internal timing if engine timing requires adjustment.				
28. Ignition Harness and Insulators - Check for proper routing, Deterioration and condition of terminals.				
29. Battery, Battery Box and Cables - Check electrolyte level and inspect overboard drain tube. Clean and remove any corrosion. Check cables for routing, support, security of connections.				
30. Voltage Regulator, Alternator and Electrical Connections - Check condition and security. Check alternator belts for condition and proper adjustment.				
31. Starter, Starter Solenoid and electrical Connections - Check condition and security. Check condition of starter bushes, brush leads and communicator.				
32. Engine Mount Assembly - Check for cracks, corrosion, insulator condition and presence of lock tab washers.				
33. Engine Wire Bundle - Check for condition and security.				
34. Clean Engine				

Propeller CFR Part 43, Appendix D (d)	Technician		Inspector	
	Left	Right	Left	Right
1. Spinner and Spinner Bulkhead - Remove spinner, wash and inspect for cracks and fractures.				
2. Propeller Mounting Bolts - Inspect mounting bolts and safety wire for signs of looseness. Re-Torque mounting bolts as required.				
3. Propeller Hub - Check general condition.				
4. Propeller Blades - Inspect for cracks, dents, nicks, scratches, corrosion or other damage. Check blade tracking.				
5. Governor and Control * - Check for security, evidence of oil leaks and operation of controls.				
6. De-Ice Slip Rings, Brushes and Boots * - Check condition operation and security of attachment.				



Fuselage CFR Part 43, Appendix D (b)	Technician		Inspector	
	Left	Right	Left	Right
1. Fuselage Surface - Inspect for skin damage, loose rivets, condition of paint and check.	—	—	—	
2. Internal Fuselage Structure - Inspect bulkheads, doorposts, stringers, doublers and structure for cracks, buckles, and loose rivets, bolts and nuts.	—	—	—	
3. Main Landing Gear Structure - Check gear springs for security of attachment and structure for cracks, Loose rivets, bolts and nuts or other damage.	—	—	—	
4. Main Gear Actuator and Mechanism * - Inspect selector gears for evidence of wear, missing or broken teeth and security of attachment.	—	—	—	
5. Main Gear Actuator * - Check for evidence of leakage and security of attachment.	—	—	—	
6. Fuselage Fuel Reservoir * - Remove plug and drain water and sediment. Check for evidence of leakage.	—	—	—	
7. Fuel Selector Valve(s) - Inspect for evidence of leakage, security and check lineage for evidence of wear and security of attachment. Remove plug and drain water and sediment.	—	—	—	
8. Flight and trim Controls - Check cables, push-pull rods, bell cranks, pulleys, turnbuckles, fairleads, rub strips, etc. for proper routing, condition and security.	—	—	—	
9. Electric Wiring - Inspect for proper routing, support, security of terminal connections and condition of insulation.	—	—	—	
10. Hoses, Metal Lines and Fittings - Inspect for condition, leakage, proper routing and support.	—	—	—	
11. Fuselage Mounted Optional Equipment - Check for general condition and security of attachment.	—	—	—	
12. Antenna and Cables - Inspect for security of attachment connection and condition.	—	—	—	
13. ELT - IAW FAR 91.207d(1-4) inspect for: 1). Security of attachment, 2). Verify operation of "G" switch, 3). Check operation by verifying transmitter output, and 4). Check battery due date	DUE DATE	MAR / 21	—	
14. Placards and Date Plates - Check for presence and legibility.	—	—	—	
15. Lube	—	—	—	

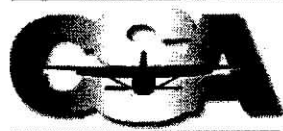
Cabin/Cockpit & Radios/Avionics CFR Part 43, Appendix D (c), (i)	Technician		Inspector	
1. Instrument, Cabin, Navigation, Beacon, Strobe and Landing Lights - Check operation, condition of lens and security of attachment.	—	—	—	
2. Switches, Circuit Breakers and Fuses - Check operation and condition. Check for required number of spare fuses.	—	—	—	
3. Instruments - Check general condition and marking for legibility.	—	—	—	
4. Instrument Panel Shock Mounts, Ground Straps, and Covers - Inspect for deterioration, crack and security of attachment.	—	—	—	
5. Instruments Lines, Fittings, Ducting and Instrument Panel Wiring - Check for proper routing, support and security of attachment.	—	—	—	
6. Vacuum System Air Filter - Clean and inspect for deterioration. Check for security of attachment.	—	—	—	



Cabin/Cockpit & Radios/Avionics CFR Part 43, Appendix D (c), (i) (Continued from previous page)	Technician	Inspector
7. Vacuum Relief Valve - Clean and inspect filter. Check for security.	—	
8. Control Column - Inspect pulleys, cables, sprockets, bearings, chains, and turnbuckles for condition, security and operation.	—	
9. Trim Controls and Indicators - Check freedom of movement and proper operation through full travel. Check pulleys, cables, sprockets, bearings, chains, bungees and turnbuckles for condition and security. Check electric trim controls for operation as applicable.	—	
10. Rudder Pedals and Linkage - Check for general condition, proper rigging and operation. Check for security of attachment.	—	
11. Brakes, Master Cylinders and Parking Brake - check master cylinders and parking brake mechanism for condition and security. Check fluid level and test operation.	—	
12. Alternate Static Source Drain * - Remove cap (open valve) and drain condensation. Check for obstructions.	—	
13. Fuel Selector Valves(s) - Check controls for detent in each position, security of attachment and for proper placarding.	—	
14. Seats, Seat Belts and Shoulder Harness - Check seat structure, rollers, seats stop and adjustment mechanism for condition, operation and security of attachment. Inspect belts for condition and security of fasteners. Check seatbelt TSO labels for presence and legibility.	—	
15. Engine Controls, Cowl Flaps Controls and Cabin - Check freedom of movement through full travel. Check friction locks for proper operation.	—	
16. Control Wheel and Control Lock - Check general condition and operation.	—	
17. Flight Controls - Check freedom of movement and proper operation through full travel with and without flaps extended.	—	
18. Wing Flap Control - Check operation through full travel and observe Flap Position Indicator for proper indication.	—	
19. Cabin Decals, Labels and Placards - Inspect for presence and legibility.	—	
20. Oxygen System * - Inspect masks, hoses, lines and fittings for condition, routing and support. Test operation and check for levels.	—	
21. Hydraulic System Power Jack * - Check reservoir fluid level and clean filter screens. Clean hydraulic filter if equipped with electro-hydraulic power pack. Clean	—	
22. Upholstery, Headliner, Trim and Carpeting - Check condition and clean as required.	—	
23. Windows, Windshield, doors and Seals - Inspect general condition. Check latches, hinges and seals for condition and security of attachment. Check windshield for distortion.	—	
24. Stall Warning System - Check Operation.	—	
25. Lube	—	
26. Inspect Fire Extinguisher - Verify dates on fire extinguisher, check that monthly sign offs have been completed. Notate date next annual inspection is due.	—	DUE DATE



Wings & Center Section CFR Part 43, Appendix D (f)	Technician		Inspector	
	Left	Right	Left	Right
1. Wings Surfaces and Tips - Inspect for skin damage, loose rivets and condition of paint.	—	—		
2. Wing Struts and Strut Fairings * - Check for dents, cracks, loose screws and rivets. Check condition of paint.	—	—		
3. Wing Spar and Wing Strut Fittings - Check for evidence of wear. Check attach bolts for indications of looseness and re-torque as required.	—	—		
4. Aileron Structure, Control Rods, Hinges, Balance Weights, bell cranks Linkage, Bolts, Pulleys and Pully Brackets - Check condition, operation and security of attachment.	—	—		
5. Ailerons and cables - Check operation and security of stops. Check cables for tension, routing, fraying, corrosion and turnbuckle safety. <u>Check travel if cable tension requires adjustment.</u> Check fairleads and rub strips for condition. TENSION <u>30</u>	—	—		
6. Flap Structure, Control Rods, Tracks, Rollers, Linkage, Bell cranks Pulleys and Pulley Brackets - Check condition, operation and security.	—	—		
7. Flaps and Cables - Check cables for proper tension, routing, fraying, corrosion and turnbuckle safety. <u>Check travel if cable tension requires adjustment.</u> TENSION <u>N/A</u>	—	—		
8. Flap Motor, Actuator and Limit Switches (electric flaps) * - Check wiring and terminals for condition and security. Check actuator for condition and security.	—	—		
9. Wing Structure - Inspect spars, ribs, skins and stringer for cracks, wrinkles, loose rivets, corrosion and other damage.	—	—		
10. Metal Lines, Hoses, Clamps and Fittings - Check for leaks condition and security. Check for proper routing and support.	—	—		
11. Electrical Wiring - Check for proper routing, condition and security.	—	—		
12. Landing Lights - Check condition and security of attachment.	—	—		
13. Fuel Tanks - Check for leaks and security. Check condition of fuel caps and placards.	—	—		
14. Fuel Tank Sump Drains - Drain water and sediment.	—	—		
15. Fuel Line Drain * - Remove plug and drain water and sediment.	—	—		
16. Fuel Tank Vent and Vent Valves - Check vents for obstructions and proper positioning. Check valve for operation. Drain water and sediment.	—	—		
17. Pitot Tube and Stall Warning Vane - Check for condition and obstructions (check pitot heater if applicable).	—	—		
18. Wing De-Ice Boots ^{TKS} - Check condition, operation and security of attachment.	—	—		
19. Wing Tips - Check general condition. Check navigation and/or strobe lights for condition of wiring and security of attachment.	—	—		
20. Lube	—	—		



Landing Gear CFR Part 43, Appendix D (e)	Technician		Inspector	
	Left	Right	Left	Right
1. Wheel Faring, Strut Fairings and Cuffs - Inspect for cracks, dents, and condition of paint.				
2. Wheels, Brake Discs and Linings - Inspect for wear, cracks, warps, dents or other damage. Check wheel through-bolts- and nuts for evidence of looseness.				
3. Tires - Check tread wear and general condition. Check for proper inflation.				
4. Brake Lines, Hoses, Clamps and Fittings - Check for leaks, condition and security.				
5. Nose Gear - Inspect torque links, steering rods, boots and wheel fairings for condition and security of attachment. Check strut for evidence of leakage and proper extension. Check strut barrel for corrosion, pitting and cleanliness. Check shimmy damper and/or bungees for operation, leakage and attach points for wear and security.				
6. Nose Gear Fork - Inspect for cracks, general condition and security of attachment.				
7. Nose Gear Steering Mechanism - Check for wear, security and proper rigging.				
8. Main Gear Struts - Inspect for cracks, dents, corrosion or other damage. Check condition of pain and axles for damage and security.				
9. Tail Wheel * - Inspect springs, pivot and cables for condition and security. Check steering mechanism, anti-swivel mechanism and cable for wear, security and proper rigging. Perform friction check.				
10. Nose Gear (or tail gear) - Attachment Structure - Inspect for cracks, corrosion or other damage. Check for security of attachment.				
11. Lube				
12. Retraction System Inspection * - The following inspections items are applicable to only retractable gear systems and are required in addition to the previous items.				
a. Retraction Mechanism - Inspect all link roads, rod ends, pivot shafts, actuators and mounting structures for evidence of wear, looseness or other damage. Check all lines, hoses and fittings for condition, proper routing and security of attachment.				
b. Gear Door and Linkages - Check doors, hinges, hinge pins and linkage for evidence of wear, other damage and security of attachment. Inspect door fit in closed position and check actuators for evidence of leakage and security of attachment.				
c. Wheel Wells - Inspect internal wheel well structure for cracks, dents, loose rivets, bolts and nuts, corrosion or other damage. Check for evidence of fuel oil or hydraulic fluid leakage. Check for debris and cleanliness.				
d. Electrical Wiring and Switches - Check for security of connections, switch operation and check gear position indicator lights for proper indication. Check wiring for proper routing and support.				
e. Rigging and Operational Switches - Perform operational check and insure proper rigging of all systems and components including down locks, up locks, doors, cycling time per service manual.				



Landing Gear CFR Part 43, Appendix D (e) (Continued from previous page)	Technician		Inspector	
	Left	Right	Left	Right
f. Emergency Hand Pump - Check operation.	—	—	—	—
g. Throttle Warning Switch(es) - Check for proper operation.	—	—	—	—

Empennage CFR Part 43, Appendix D (g)	Technician		Inspector	
	Left	Right	Left	Right
1. Vertical and Horizontal Stabilizers and Tail cone - Inspect externally for skin damage.	—	—	—	—
2. Elevator/Stabilator, Rubber, Down spring System and Trim Tab - Check structure, hinges, balance weights bolts, linkage, bell cranks, pulleys and pulley brackets for condition, operation and security. Check cables for tension, routing, fraying, corrosion and turnbuckle safety. <u>Check travels if cable require tension adjustment.</u> TENSION: 35	—	—	—	—
3. Vertical and Horizontal Stabilizers and Tail cone Structure - Inspect bulkheads, spars, ribs and skins for cracks, wrinkles, loose rivets, corrosion or other damage. Inspect vertical and horizontal stabilizer attach bolts for looseness. Re-torque as necessary.	—	—	—	—
4. Electrical Wiring - Check for proper routing, condition and security.	—	—	—	—
5. Tail Light and Rotating Beacon - Check wire terminals and security of attachment.	—	—	—	—
6. Horizontal Stabilizer De-Ice Boots * - Check condition, operation and security of attachment. TKS	—	—	—	—
7. Horizontal Stabilizer Jackscrew * - Check operation, condition and security of attachment.	—	—	—	—
8. Tips - Check tips for damage and condition of paint.	—	—	—	—
9. Lube	—	—	—	—

Misc. Items (not otherwise covered above) CFR Part 43, Appendix D (j)	Technician		Inspector	
	Left	Right	Left	Right
1.				
2.				
3.				
4.				
5.				



Post-Inspection Run-Up CFR Part 43, Appendix 43, 15 (c) (2)	Technician	Inspector
1. Check oil lever - Engine		
2. Check oil lever -Hyd System *		
3. Visual inspection of Engine Nacelle		
4. Visual inspection of Prop		
5. Visual inspection of aircraft control locks		
6. Start engine per aircraft checklist		
7. After start, check oil pressure		
8. Check voltage for stuck starter		
9. On taxi out to run-up area, check brakes		
10. Taxi to run-up area		
11. CAUTION: Do NOT run engines past 1200 RMP until temp is in the green & stable		
12. Check mags for max drop		
13. Cycle prop 3 times: Check oil, manifold pressure, RPM *		
14. Run up per aircraft POH density altitude		
15. If Turbo aircraft, allow cool-down 3 min *		
16. On shut down, preform lean mixture rise, and note		

MAKE SURE TO GET END TACH TIME & HOBBS TIME

General	Technician	Inspector
1. Aircraft inspection panels installed. Verify all tape, tags, etc. ... Removed.		
2. Pitot-Static inspection current IAW 91.411.	DUE DATE	
3. Transponder inspection current IAW 91.413.	DUE DATE	
4. All Ads complied with and documented		
5. Registration and Airworthiness Certificate is located in aircraft.		
6. Aircraft, Engine & Prop logs updated for this A/C.		
7. Compliance AD logs updated/printed for this A/C.		
8. EBIS [Maintenance] tab updated for this A/C.		
9. Work Order completed and signed off.		

COMPLETE POST INSPECTION SUPPLIES CHECKLIST