

<NAME> <Aircraft Type> Annual CI / Pre-Buy Examination Checklist

AIRCRAFT INFO	
Aircraft Serial #	
Inspection Location	
Inspection Performed By	Marc J. Zeitlin A&P #3052594
Airframe Hours (TTAF)	
Engine Hours (SMOH)	
Propeller Hours	

CONSUMABLES	DESCRIPTION
Oil	Aeroshell 15W-50, Phillips XC 20W-50, Aeroshell 100W or equivalent
Oil Filter	CH48108-1 or equivalent
Oil Test Sample Kit	Aviation Oil Analysis, Blackstone Oil Analysis or equivalent
Wheel Bearing Grease	Any good synthetic wheel bearing grease (Mobil - 1)
Nose Tire / Tube	2.50/2.80 x 4 or 10-3.50 x 4
Main Tires / Tubes	11-4.00 x 5 or 5.00 x 5
Brake Pads	Rapco, Cleveland, Matco, Grove
Brake Fluid (MIL-H-5606-H, MIL-H-83282, MIL-PRF-87257, or DOT-3, DOT-4, DOT-5)	MUST BE SAME AS ALREADY INSTALLED - MIL FLUIDS (all compatible) ARE NOT COMPATIBLE W/DOT-X ; DOT-X NOT INTERCHANGEABLE
Air Filter / Recharge Kit	
Spark Plugs - Upper	
Spark Plugs - Lower	
Solvent (FI restrictors)	Hoppes #9 Cleaner / Stoddard Solvent

LIFE LIMITED	PROCEDURE / ACTION	OUTCOME
Aircraft Cleanliness	Clean aircraft per 14 CFR Part 43 Appendix D(a) - exterior, interior, engine compartment, brakes, wheels, axles, etc.	
ELT Batteries	Per 91.207(c) - Check batt. date – test - Batt. due <XX/XX>	
ELT Remote Switch Battery	Per 91.207(c) - Check batt. date – test - Batt. due <XX/XX>	
406 MHz ELT Re-registration	Check registration date – due <XX/XX>	
FAR 91.413 Transponder /Encoder Check	2 Years - Comply if necessary - due <XX/XX>	
FAR 91.411 Static Check	2 Years - Comply if necessary - due <XX/XX>	
Left Magneto	500 hr. Inspection/Rebuild - due <XXXX hrs>	
Right Magneto	500 hr. Inspection/Rebuild - due <XXXX hrs>	
Nose Wheel Bearing Grease	200 hr. / 2 Year Lifetime - due <XXXX hrs>	
Main Wheel Bearing Grease	200 hr. / 2 Year Lifetime, or at tire replacement - due <XXXX hrs>	
Fuel Hoses (if not Teflon/SS)	1000 hr. / 8 Year Lifetime - Replace if necessary - due <XX/XX>	
Oil Hoses (if not Teflon/SS)	1000 hr. / 8 Year Lifetime - Replace if necessary - due <XX/XX>	
EI Spark Plug Ignition Wires - Top	500 hr. / 10 Year Lifetime - Replace if necessary - due <XX/XX>	
EI Spark Plug Ignition Wires - Bottom	500 hr. / 10 Year Lifetime - Replace if necessary - due <XX/XX>	

Brake Fluid (MIL-H-5606-H, MIL-H-83282, MIL-PRF-87257, or DOT-3, DOT-4, DOT-5)	5 Year Lifetime - Flush / Replace if necessary - due <XX/XX>	
Alternator Belt	5 Year Lifetime - Replace if necessary - due <XX/XX>	
Electric Fuel Pump Filter	500 hour / 2 Year Lifetime - due <XX/XX>	
O2 Tank Recertification	5 Year Lifetime - Replace if necessary - due <XX/XX>	

ITEM	PROCEDURE / ACTION	OUTCOME
Documents / Placards	<i>Examine Documents / Placards</i>	
Paperwork Envelope	Check condition, visibility per 91.203(b)	
Review AC, Registration, Op. Limits	Check all in order	
Review W&B / Equipment list	Check and update if necessary	
Review Airframe / Engine / Prop Logbooks	Check condition and compliance with FAR 91.417	
Review AD List	Comply if deemed necessary	
Review SB / Plans Changes List	Comply if deemed necessary	
Dataplate	Check condition and compliance with FAR 45.13	
"Experimental" Placard	Check condition and compliance with FAR 45.23(b)	
Instrument / Switch Labeling	Check condition	
Passenger Warning	Check condition and compliance with OL's	
Registration Markings	Check "N" numbers for compliance with FAR 45.21	

ITEM	PROCEDURE / ACTION	OUTCOME	
Canard Area	<i>Remove Front / Rear Nose Doors (canard if necessary)</i>	L	R
Static Ports	Check clear all three holes each side		
Elevator Torque Tube Attach Bolt	Check for rust/corrosion/torque – lubricate if necessary		
Elevator Inner Hinge	Check for corrosion – lubricate if necessary		
Elevator Middle Hinge #1	Check for corrosion – lubricate if necessary		
Elevator Middle Hinge #2	Check for corrosion – lubricate if necessary		
Elevator Outer Hinge	Check for corrosion – lubricate if necessary		
Elevator Center Hinge	Check for corrosion – lubricate if necessary		
Elevator Hinge Pin Set Screw	Check for rust / corrosion / torque – lubricate if necessary		
Elevator(s) Top Surface	Check for delamination / paint condition		
Elevator(s) Bottom Surface	Check for delamination / paint condition		
Elevator(s) Weight & Balance	Check for appropriate weight and balance		
Elevator Clearance to Fuselage	Check for 0.060" - 0.10" clearance		
Elevator Clearance to Canard Tip	Check for 0.060" - 0.10" clearance		
Canard Top Surface	Check for delamination / paint condition		
Canard Vortex Generators	Check condition		
Canard Bottom Surface	Check for delamination / paint condition		
Canard Cover	Check for delamination / paint condition; check fasteners		
Canard Torque Tube Weather Seal	Check condition		
NACA air inlet	Check condition		
Elevator Torque Tube	Check condition		
Elevator Torque Tube Offset	Check condition / welds		
Elevator Trim Belcrank	Check condition / welds		
Elevator Trim Davenport Spring	Check condition		
Elevator Inner Counterweight	Check condition		
Elevator Outer Counterweight	Check condition		

Elevator Outer Weight	Check for 0.060" - 0.10" clearance		
Elevator Down Hard Stop	Check		
Canard Lift Tabs / F22 Bushing	Check condition		
Lift Tab Bolt	Check condition		
Alignment Pins / Socket	Check condition		
Marker Beacon Antenna Cable	Check condition		
VOR Antenna Cable	Check condition		

ITEM	PROCEDURE / ACTION	OUTCOME	
Nose Area			
	<i>Remove Front / Rear Nose Doors</i>		
Front Nose Door	Check condition / ¼ turn fasteners / screws		
Landing / Taxi Light Lenses	Check condition – clean / polish		
Landing / Taxi Lights	Check operation / condition / alignment / bolt torque		
Ballast Weights and mounting	Check condition		
Pitot Tube	Check condition		
Nose Bumper	Check condition		
Rear Nose Door	Check condition / ¼ turn fasteners / screws		
Parking Brake Valve / Actuator	Check condition / fittings		
Battery Charge Port	Check condition / wire connections		
Piper Battery Jumper Connector	Check condition		
Jumper Solenoid and Switch	Check condition/operation		
Master Solenoid	Check condition		
Starter Solenoid	Check condition		
Voltage Regulator	Check condition		
VPX Sport / Pro	Check condition / wiring		
Nose Battery / Charging Cables	Check condition		
Ammeter Shunt / Sensor Coil	Check condition / wiring		
Nose Gear Cover	Check attachment / weather seal		
Nose Gear Mechanism	Check condition / operation – lubricate / grease if necessary		
Skyvector ADSB Receiver	Check condition / attachment / cable		
Altitude Encoder	Check condition		
Other Antennae / EFIS Boxes	Check condition / attachment / cable		
GPS Antenna	Check attachment / cable		
Transponder Antenna	Check attachment / cable		
APRS / Byonics GPS Antenna	Check attachment / cable		
Dynon EDC-10A Mag. Compass	Check condition		
ELT Mounting	Check condition		
ELT Operations	Check operation per FAR 91.207(d)		
Nose Area Wiring	Check condition / tie-wraps		
		L	R
Rudder Pedals	Check condition – lubricate if necessary		
Rudder Pedal Brake Actuators	Check condition / geometry		
Rudder Cables	Check condition		
Brake Reservoirs	Check condition / bolt torque / fluid level		
Brake Master Cylinders	Check condition / fittings		
Brake Lines	Check condition / fittings / routing		
Rudder In-Line Compression Spring	Check condition		
Nose Gear Strut	Check condition		
Nose Gear Upper Bearings - NG6A / NG6	Check condition / side play / lubricate bearings if necessary		

Nose Gear Mechanism Spring	Check condition / compression	
Upper Nose Gear Bolts (Attach Plate)	Check condition / bolt torque	
NG-3 / NG-4 Brackets	Check condition / bolt torque	
Nose Gear Lower Casting / Geometry	Check condition / bolt torque / floc fill	
Nose Gear Wheel / Tire	Check condition – inflate to 60 to 70 psi - grease wheel bearings if necessary	
Nose Gear Rotation	Check condition / rotation force level – set to 2 - 4 lb. at axle	
Nose Gear Relays / Electrics	Check condition / wiring	
External Temperature Probe	Check condition	
Nose Gear Doors	Check condition and hinge/spring operation	
Nose Gear Wheel Well / Windows	Check condition	

ITEM	PROCEDURE / ACTION	OUTCOME	
Top Fuselage / Front of Instrument Panel	<i>Remove Fuselage Top and Instrument Panel Cover (canard if necessary)</i>	L	R
Left / Right Elevator Pushrods	Check condition / play / QD's		
Left / Right Air Vents	Check condition / clean		
All Side Wiring	Check condition / tie wraps		
Elevator Pushrod	Check condition / play / QD's		
Fuse / Ground Buses	Check condition		
Alarm Relay	Check condition		
Piezo Alarm Buzzer	Check condition		
Dimmer Circuitry	Check condition		
Manifold Pressure Sensor	Check condition		
Pitch Trim Motor / Extension Screw / Relay	Check condition / clean and lubricate per manual		
Manual Pitch Trim	Check condition		
AP Pitch Servo	Check condition / wiring		
Nose Gear Emergency Extend Mechanism	Check condition		
Circuit Breakers	Check condition / wiring		
Power Panel	Check condition / wiring		
Ammeter Shunt / Sensor Coil	Check condition / wiring		
Switch Wiring	Check condition		
Instrument Wiring	Check condition		
Strobe Power Supply	Check condition		
Altitude Encoder	Check condition		
FWD side of all EFIS / EMS / Instruments	Check condition		
Top Fuselage Drain Line	Check condition		
Floor Water Drain Holes	Check condition / Clear through		
Heat Duct	Check condition		
Instrument Screws	Check condition / torque		
Hobbs Air Pressure Switch	Check condition		
Vacuum Filter	Check condition / hose clamps		
Vacuum Regulator	Check condition / hose clamps		
Vacuum Hoses	Check condition / hose clamps		
Pitot / Static lines	Check condition / hose clamps		
Fuselage Top Hinges	Check condition / lubricate if necessary		
Fuselage Top Screws	Check condition		
Instrument Panel Access Cover	Check condition		

ITEM	PROCEDURE / ACTION	OUTCOME	
Fuselage Bottom	<i>Remove Landing Gear Cover, Extend Landing Brake, Remove Wheel Pants; Aircraft on Jacks</i>	L	R
Landing Gear Strut	Check condition		
Landing Gear Strut Attach Points	Check condition		
Gear Leg / Fuselage Fairings	Check condition		
Gear Leg Fairings	Check condition		
Wheel / Brake / Brake Pads	Check condition - replace pads / grease bearings as necessary		
Tires	Check condition - inflate to 55 - 60 psi		
Axle Bolts / Nuts	Check condition		
Brake Lines	Check condition		
Brake Line Bulkhead Fittings	Check condition		
Heat Shield / Gear Leg Insulation	Check condition		
Wheel Pants	Check condition		
Rear Seat NACA air intake - exterior	Check condition		
Landing Brake Surfaces	Check condition		
Landing Brake Mechanism	Check condition – lubricate inside and out if necessary		
COM Antenna	Check condition / wiring		
NACA Scoop	Check condition		
Hellhole Access Panel	Check condition		
External Temperature Probe	Check condition		
Landing Gear Cover	Check condition		

ITEM	PROCEDURE / ACTION	OUTCOME	
Front Cockpit	<i>Remove Front Seats, Front Armrests, Front Center Console Cover, Fuel Valve Cover, All Access Panels</i>	L	R
Fuselage Side Access Door	Check condition		N/A
Seatbelts	Check condition		
Electric Seat Heaters	Check condition / operation		
Control Sticks	Check condition – lubricate if necessary		
PTT / Control Stick wiring	Check condition		
Torque Tubes/ Bearings	Check condition		
Seatbelts	Check condition		
Electric Seat Heater	Check condition / operation		
Control Stick	Check condition – lubricate if necessary		
PTT / Control Stick wiring	Check condition		
Torque Tubes/ Bearings	Check condition		
Front Pushrod Belcrank	Check condition		
Front / Rear Stick Connecting Pushrod	Check condition		
Circuit Breakers	Check condition		
Fuse / Ground Buses	Check condition		
Front Cockpit Wiring / Conduits	Check condition / tie wraps		
IP Operation - all switches, instruments, avionics operational	Check condition		
Primer / Primer Lines	Check condition		
Fixed Step	Check condition		
Retractable Step	Check condition – lubricate if necessary		
Retractable Landing Light	Check condition / operation – lubricate if necessary		
Altitude Encoder	Check condition		

ELT Mounting	Check condition	
ELT Operations	Check operation per FAR 91.207(d)	
EFIS ADHRS	Check condition / wiring	
EFIS Magnetometer	Check condition / wiring	
Manual Landing Brake Handle / Mechanism	Check condition – lubricate inside and out if necessary	
Parking Brake Actuator	Check condition	
Manual Roll Trim	Check condition – lubricate if necessary	
Electric Roll Trim	Check condition – lubricate if necessary	
Throttle / Mixture / Carb Heat Quadrant	Check condition – adjust/lubricate if necessary	
Throttle / Mixture / Carb Heat Verniers	Check condition – adjust/lubricate if necessary	
Hobbs Meter	Check condition / wiring	
Fire Extinguisher	Check condition / date / gauge / (>XX g/oz weight)	
O2 Tank Mounting / Lines / QD's	Check condition	
O2 Tank	Check condition / date	
Canopy Frame / Transparency / Windows	Check condition	
NACA Air Intake / Shutoff	Check condition	
Canopy Hold Mechanism	Check condition	
Canopy Gas Spring / Lock	Check condition	
Canopy Latch / Safety Catch Mechanism	Check condition - adjust if necessary	
Canopy Seal	Check condition	
Canopy / Gear / Throttle Warning Circuit	Check operation/condition	
Canopy Hinges / Screws	Check condition	
Fuel Valve	Check condition - lubricate if necessary	
Fuel Valve Handle / Torque Tube	Check condition - lubricate if necessary	
Heat Cable Actuator	Check condition - lubricate if necessary	

ITEM	PROCEDURE / ACTION	OUTCOME	
Rear Cockpit	<i>Remove Rear Seats, Landing Brake Mechanism Cover, Rear Firewall Cover, Rear Armrests, Rear Center Console Covers, All Access Panels</i>	L	R
Fuel Sight Gauges - Strakes	Check condition		
Underseat Area	Check condition		
Fuel Senders	Check condition - recalibrate if necessary		
Torque Tubes / Bearings	Check condition		
Seatbelts	Check condition		
Seatback	Check condition		
Seat Bottom	Check condition		
Air Vents	Check condition / Clean		
Torque Tubes / Bearings	Check condition		
AP Roll Servo	Check condition / wiring		
Pitch Trim Motor / Extension Screw / Relay	Check condition / clean and lubricate per manual		
Control Stick	Check condition – lubricate if necessary		
PTT / Control Stick wiring	Check condition		
Throttle Quadrant	Check condition		
Seatbelts	Check condition		
Seatback	Check condition		
Seat Bottom	Check condition		
Fire Extinguisher	Check condition / date (>XX g/oz weight)		
Fuel Sight Gauge - Fuselage Tank	Check condition		
Gas Cap / Grounding Strap - Fuselage Tank	Check condition		
Fuel Sump	Check condition		

Manual Landing Brake Mechanism	Check condition - lubricate if necessary		
Electric Landing Brake Actuator and Relay	Check condition / wiring - lubricate if necessary		
Dynon EDC-10A Mag. Compass	Check condition		
Primer Lines	Check condition		
Side Fuel Lines	Check condition		
ELT Mounting	Check condition		
ELT Operations	Check operation per FAR 91.207(d)		
Rear Cockpit Wiring / Conduits	Check condition		
Actuator Cables / Fuel Lines	Check condition		
Left / Right Landing Gear Attach Bolts	Check condition		
Main Spar Condition	Check condition		
EI Backup Battery	Check condition / clean contacts if required		
Brake Lines / Bulkhead Fittings	Check condition		
Cabin Heat Valve	Check condition		
Firewall Through Holes	Check condition		
Manifold Pressure Sensor	Check condition		
Rear Ground Bus	Check condition		
Rear Essential Bus	Check condition		
Master Solenoid	Check condition		
Starter Solenoid	Check condition		
Voltage Regulator	Check condition		
Dynon Engine Monitor / wiring	Check condition		
GRT Engine Monitor / wiring	Check condition		
CGR Engine Monitor / wiring	Check condition		
Hobbs Meter	Check condition / wiring		
Battery	Check condition / clean contacts if required		
Ammeter Shunt / Sensor Coil	Check condition		
Strobe Power Supply	Check condition		
Wiring / Antennae	Check condition		
Electroair EI Control Box(es)	Check condition - timing if required		
EFII EI Control Box(es)	Check condition - timing if required		
Lightspeed EI Control Box(es)	Check condition - timing if required		
Fuel Valve / Fuel Lines	Check condition - lubricate if necessary		
Fuel Flow Sender	Check condition / wires / lines		
Electric Fuel Pump tubing / wiring	Check condition		
Electric Fuel Pump Filter	Check condition - Clean if required		

ITEM	PROCEDURE / ACTION	OUTCOME	
Strake / Wing / Winglet	<i>Remove Wing Bolt Covers, Wing Root Heat Shields, Aileron Hinge Screws (if required), Top Cowling</i>	L	R
Tie Down Anchor / Through Hole	Check condition		
Wing Top Surface	Check condition – delamination tap		
Wing Vortex Generators	Check condition		
Strake Top Surface	Check condition – delamination tap		
Wing Bottom Surface	Check condition – delamination tap		
Strake Bottom Surface	Check condition – delamination tap		
Gas Cap / Retention & Grounding Strap	Check condition		
LE Gas Drain	Check condition – fuel flow		
Aileron Top Surface	Check condition – delamination tap		
Aileron Bottom Surface	Check condition – delamination tap		

Aileron Cove Clearance	Check for 0.060" - 0.10" clearance		
Aileron Tip Clearance	Check for 0.060" - 0.10" clearance		
Aileron Root Clearance	Check for 0.060" - 0.10" clearance		
Aileron Hinges / Screws / Studs-Nuts	Check condition		
Aileron Weight and Balance	Check aileron weight and balance		
Aileron Deflection	Check aileron deflection		
Gurney Flap	Check condition		
Trim Tab	Check condition		
Three Vortilons	Check condition / alignment		
Trailing Edge Fences	Check condition / alignment		
Wing Attach Fittings / Taper Pins / Bolts	Check condition – lubricate if necessary		
Wing Bolts	Check condition – lubricate if necessary		
Wing Retention Pin System	Check condition – lubricate if necessary		
Winglet Outer Surface	Check condition – delamination tap		
Winglet Inner Surface	Check condition – delamination tap		
Rudder Outer Surface	Check condition – delamination tap		
Rudder Inner Surface	Check condition – delamination tap		
Rudder Tip Clearance	Check for 0.060" - 0.10" clearance		
Rudder Root Clearance	Check for 0.060" - 0.10" clearance		
Rudder Deflection	Check for XXX" deflection at full rudder pedal throw		
Internal Rudder Belhorn / Cable Attach	Check condition		
External Rudder Belhorn / Cable Attach	Check condition		
Rudder Return Spring	Check condition – lubricate if necessary		
Rudder Hard Stop	Check condition		
Rudder Hinges / Screws / Studs-Nuts	Check condition		
Baggage Pods	Check condition		
Baggage Pod Mounting Points	Check condition		
Wing Root Heat Shields	Check condition		
Aileron Torque Tube / U-joint	Check condition – lubricate if necessary		
Aileron WR Torque Tube Bushing / Bearing	Check condition		
Aileron Torque Tube Belcrank	Check condition – lubricate if necessary		
Aileron Pushrod - Wing Root	Check condition		
Aileron Pushrod Belcrank / Hard Stops	Check condition – lubricate if necessary		
Nav. / Strobe Light	Check condition		
Rudder Cable Nylaflo Entrance	Check condition		

ITEM	PROCEDURE / ACTION	OUTCOME
Engine Compartment	<i>Remove Upper and Lower Cowling, Spinner</i>	
Engine Mount	Check condition / examine for cracks	
Engine Mount / Firewall Attach Bolts	Check condition - torque	
Conical Mounts / Attach Bolts	Check condition - tighten if necessary	
Dynafoal Mounts / Attach Bolts	Check condition - tighten if necessary	
Firewall Insulation / Metal Cover	Check condition	
Firewall Through Holes	Check condition	
Engine Case Bolts	Check condition - torque	
Brake Reservoirs	Check condition / bolt torque / fluid level	
Brake Master Cylinders	Check condition / fittings	
AP Roll Servo	Check condition / wiring	

Electric Wright-Hanka Roll Trim System	Check condition / wiring	
Vacuum Pump / Hoses	Check condition	
Firewall Ground Bus	Check condition	
Voltage Regulator	Check condition	
Alternator Mounting	Check condition	
Starter Mounting / Flywheel & Gear Teeth	Check condition	
Alternator / Starter Wiring	Check condition	
Magneto / Wiring	Check condition / timing	
Tachometer Cable	Check condition	
Lightspeed EI Coils	Check condition	
Electroair EI System / Coils	Check condition	
EFII EI Coils	Check condition	
Ammeter Shunt / Sensor Coil	Check condition	
Ignition Wires	Check condition	
EGT Probes / Wires	Check condition	
CHT Probes / Wires	Check condition	
Starter Solenoid	Check condition	
Fuel Hoses	Check condition	
Primer Lines	Check condition	
Fuel Valve	Check condition - lubricate if necessary	
Gascolator	Check condition – check fittings	
Fuel Flow Sender	Check condition / wires / lines	
Fuel Pressure Sender	Check condition / wires / lines	
Electric Fuel Pump tubing / wiring	Check condition	
Electric Fuel Pump Filter	Check condition - clean if required	
Fuel Pump - Engine	Check condition	
Fuel Injector Servo Inlet Screen	Check condition – clean if required	
Spider Fuel Lines / Fittings / Manifold	Check condition – check fittings	
Purge Valve	Check condition – check fittings	
Sniffle Valve	Check condition – check fittings	
Fuel Injectors	Check condition – braze joints, clamps	
Fuel Injector Restrictors	Remove / clean at 500 hrs & every 100 hours or CI thereafter	
Fuel Injector Drain Lines	Check condition	
Bendix Servo	Check condition – check fittings	
Precision Airmotive Servo	Check condition – check fittings	
Airflow Performance Servo	Check condition – check fittings	
Ellison Throttle Body	Check condition – check fittings	
MS Carburetor	Check condition – check fittings	
MS Carburetor Temperature Sender	Check condition / wires / lines	
Oil Cooler	Check condition	
Oil Cooler Louvers / Cable	Check condition	
Oil Filter / Screen	Check condition	
Oil Hoses	Check condition	
Oil Pump Intake Screen	Check condition - clean if necessary	
Oil Pressure Switch - Hobbs	Check condition	
Oil Pressure Sender / Wires	Check condition	
Oil Temperature Sender / Wires	Check condition	
Oil Quick Drain	Check for leaks	
Oil Level	Check level	
Valve Cover Gaskets	Check condition	
Valve Lash	Check / Adjust O-235 to 0.010" Cold (0.006" - 0.012")	
Valve Cover Screws	Check torque	
Crankcase Vent Line	Check condition	

Crankcase Vent Line PCV Valve	Check condition - disassemble and clean through hole	
Oil Separator / Collector	Check condition / drain oil if necessary	
Throttle Actuator Cable	Check condition – lubricate if necessary	
Mixture Actuator Cable	Check condition – lubricate if necessary	
Purge Valve Actuator Cable	Check condition – lubricate if necessary	
Prop Actuator Cable	Check condition – lubricate if necessary	
Carb Heat Actuator Cable	Check condition – lubricate if necessary	

ITEM	PROCEDURE / ACTION	OUTCOME	
Engine Compartment, Continued			
Exhaust System	Check condition		
Heat Muff / SCAT Tubing	Check condition		
Manifold Pressure Sensor Tubing	Check condition		
Air Filter Box	Check condition		
Air Filter	Check condition		
Aluminum Baffling	Check condition - Patch as necessary		
Soft Baffling	Check condition - Patch as necessary		
Spark Plugs	Remove - Check condition - clean, measure resistance and gap to XXX as required or replace		
Engine Cylinder Compression & Borescope Notes	Borescope Notes: 1) 2) 3) 4)	Cylinder Compression	
		1	XX/80
		2	XX/80
		3	XX/80
		4	XX/80
Alternator / Belt	Check condition / tension		
Prop Extension Bolts	Check condition		
Prop Bolts	Check condition - torque - re-safety wire if necessary		
Propeller	Check condition – fill nicks w/JB Weld		
Propeller Tracking	Check track within ± 1/16"		
Propeller Balance	Dynamic Balance if necessary		
Spinner	Check condition – alignment marks		
Top Cowl	Check condition		
Bottom Cowl	Check condition		
		L	R
Aileron Torque Tubes / Belcranks / Firewall Bushings	Check condition – lubricate if necessary		
Aileron Firewall Pushrods / Quick	Check condition		
Aileron Pushrod Belcrank / Hard Stops	Check condition – lubricate if necessary		
Rudder Cable	Check condition		
Rudder Belcrank to Brake MC Cable	Check condition		
Rudder In-Line Compression Spring	Check condition		
Rudder Pulleys / Cable Keepers	Check condition – lubricate if necessary		
Rudder Cable Belcranks	Check condition – lubricate if necessary		

ITEM	PROCEDURE / ACTION	OUTCOME
Operation		
Inspection Panels / Fairings	Check security	
Brake System	Check operation	
Oil Temperature / Pressure	Check within limits	
Aux. Fuel Pump	Check pressure within limits	
Ignition Switch(es)	Magneto / EI grounding check	
Magnetos / EI's	Check operation	
Alternator	Check voltage / amperage	
Fuel Level / Flow Gauges	Check operation	
Static Runup	Check RPM	
Idle RPM	Check RPM	
Shutoff RPM	Check for rise on leaning before cutoff	
Fuel Selector	Check for engine cutoff in OFF position	
Engine Area	Check for fuel, oil, hydraulic leaks after shutdown	
Cowling	Reinstall - check security	