

ภาคผนวก ๒

รายการการตรวจสอบสภาพอากาศยาน สำหรับกรณีอากาศยานอากาศยานเพื่อการทดลอง (Experimental)  
ซึ่งเป็นอากาศยานปีกแข็ง (Fixed wing Aircraft) ที่ไม่มีวิธีการตรวจสอบและบำรุงรักษาที่ออกโดยผู้ผลิต

ตัวอย่างรายการตรวจสอบอากาศยาน (Sample Checklist for a Condition Inspection)

Aircraft Identification:

Aircraft Registration	
Aircraft Make & Model	
Airframe Serial Number	
Airframe Total Time	
Engine Serial Number	
Engine Total Time	
Propeller Serial Number	
Propeller Total Time	
Owner/ Operator	

1	General	S	U	N/A
1.1	Registration/Airworthiness/Operation Limitations			
1.2	Aircraft Identification Plates Installed			
1.3	Experimental Placard Installed			
1.4	Weight And Balance/Equipment List (Updated for Each Flight)			
1.5	Radio License			
2	Wings	S	U	N/A
2.1	Remove Inspection Plates/Fairings			
2.2	General Inspection of The Exterior/Interior Wing			
2.3	Flight Controls Balance Weights for Security			
2.4	Flight Controls Proper Attachment (No Slop)			
2.5	Flight Control Hinges/Rod End Bearings Serviceability			
2.6	Flight Controls Properly Rigged/Proper Tension			
2.7	Inspect All Control Stops for Security			
2.8	Trim Control Properly Rigged			
2.9	Trim Control Surfaces/Hinges/Rod End Bearings Serv.			
2.10	Frayed Cables or Cracked/Frozen Pulleys			

2.11	Skin Panels Delaminate/Voids (Coin Test)			
2.12	Popped Rivets/Cracked/Deformed Skin			
2.13	Fabric/Rib Stitching/Tape Condition			
2.14	Lubrication			
2.15	Wing Attach Points			
2.16	Flying/Landing Wires/Struts for Security			
2.17	Corrosion			
2.18	For Ultralight Check:			
	a.) Flight Control Bolts/Pins for Safety and Condition			
	b.) Wing/Strut/Cable Attachments and Hardware for Safety and Condition			
<b>3</b>	<b>Fuel System</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
3.1	Corrosion			
3.2	Fuel Lines for Chafing/Leaks/ Security/Condition			
3.3	Sump All Fuel Tanks for Water or Debris			
3.4	Fuel Caps for Security			
3.5	Fuel Placard			
3.6	Fuel Valve/Cross Feed/ For Operation and Security			
3.7	Clean Fuel Filters/Gasolator/Flush System			
3.8	Inspect Fuel Tank Vent System			
<b>4</b>	<b>Landing Gear</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
4.1	Inspect Struts/Torque Links for Attachment			
4.2	Inspect Struts for Proper Extension			
4.3	Inspect For Hydraulic Leaks			
4.4	Check All Bushings for Wear/Free Play			
4.5	Check Lubrication			
4.6	Inspect Wheels for Alignment			
4.7	Wheel/Tires for Cracks and Serviceability			
4.8	Wheel/Tires for Cracks and Serviceability			
4.9	Wheel Bearings for Lubrication			
4.10	Inspect For Corrosion			
4.11	Inspect Nose Gear for Cracks and Travel			

4.12	Inspect Tail Wheel for Cracks and Travel			
4.13	Perform Gear Retraction Test/Ck Indicator Lights			
4.14	Emergency Gear Retraction System			
4.15	Check Tire Pressure			
4.16	Brake Lining Within Limits			
4.17	Brake Disks for Cracks, Wear, And Deformity			
4.18	Brake Hydraulic Lines for Leaks and Security			
<b>5</b>	<b>Fuselage</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
5.1	Remove Inspection Plates and Panels			
5.2	Inspect Bulkheads and Stringers for Popped Rivets and Cracked Skin			
5.3	Inspect For Delaminated Skin/Voids (Coin Test)			
5.4	Inspect The Security of All Internal Lines			
5.5	Inspect Windows/Canopy for Cracks and Fit			
5.6	Inspect Door or Canopy Latching Mechanism			
5.7	Inspect Fire Wall for Distortion and Cracks			
5.8	Inspect Rudder Pedals and Brakes for Operation and Security			
5.9	Inspect Behind Firewall for Loose Wires and Chafing Lines			
5.10	Check Control Stick/Yoke for Freedom of Movement			
5.11	Check Flap Control Operation			
5.12	Check Cable and Pulleys for Attachment and Operation			
5.13	Perform Flood-Light Carbon Monoxide Test			
5.14	Ensure The Cockpit Instruments Are Properly Marked			
5.15	Inspect Instruments, Lines, For Security			
5.16	Check/Clean/Replace Instrument Filter			
5.17	Inspect Cockpit Fresh Air Vents/Heater Vents for Operation and Security			
5.18	Inspect Seats, Seat Belts/Shoulder Harness for Security and Attachment			
5.19	Corrosion			
5.20	Check Ballistic Chute Installation Per Manufacturer Recommendations			
<b>6</b>	<b>Empennage/Canard</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
6.1	Remove Inspection Plates and Fairings			
6.2	Inspect Canard Attach Points for Security			

6.3	Inspect Vertical Fin Attach Points			
6.4	Inspect Elevator/Stabilizer Attach Points			
6.5	Inspect Hinges/Trim Tabs/Rod Ends for Attachment and Free Play (Slop)			
6.6	Inspect Empennage/Canard Skin for Damage/Corrosion			
6.7	Inspect All Control Cables, Hinges and Pulleys			
6.8	Inspect All Control Stops			
6.9	For Ultralight Check:			
	a.) All Attachment Points and Control for Safety Condition			
<b>7</b>	<b>Engine</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
7.1	Perform Compression Test #1 _____ #2 _____ #3 _____ #4 _____ #5 _____ #6 _____			
7.2	Change Oil and Filter (Check for Metal)			
7.3	Inspect Ignition Harness for Condition and Continuity			
7.4	Check Ignition Lead Cigarettes for Condition/Cracks			
7.5	Clean And Gap Spark Plugs			
7.6	Check Magneto Timing/Points/Oil Seal/Distributor			
7.7	Inspect Engine Mount/Bushings			
7.8	Inspect Engine Mount Attachment Bolt Torque			
7.9	Inspect Alternator/Generator Attachment			
7.10	Check Alternator/Generator Belt Condition			
7.11	Inspect Cylinders for Cracks/Broken Fins/ Exhaust Stains			
7.12	Inspect Engine Baffles for Cracks/Condition			
7.13	Check for Oil Leaks Inspect Vacuum Pump and Lines			
7.14	Inspect Oil Vent Lines			
7.15	Inspect All Cabin Heat/Carb Heat/Defroster Ducts for Condition			
7.16	Inspect Carburetor for Security & Clean Inlet Screen			

7.17	Inspect Intake Hoses/Seals for Security/Leaks			
7.18	Inspect Throttle/Mixture/Carb Heat/Control for Proper Travel and Security			
7.19	Inspect Carb Heat Air Box for Cracks/Operation			
7.20	Inspect Condition of Flexible Fuel and Oil Lines			
7.21	Inspect Oil Cooler for Leaks and Condition			
7.22	Check Exhaust System for Attachment and Condition			
7.23	Check Muffler/Internal Baffle/ For Security			
7.24	Check Exhaust Pipes/Flanges for Security & Attachment			
7.25	Repack Exhaust Gaskets (As Required)			
7.26	Check Cowling for Cracks and Security			
7.27	For Ultralight:			
	a.) Check Carb Boots On 2 Cycle Engines for Cracks			
	b.) Check Safeties on Exhaust Springs			
	c.) Perform 2 Cycle Compression Test to Check Seals			
	d.) Ensure Spark Plug Caps are Safetied on Inverted Engines			
<b>8</b>	<b>Propeller</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
8.1	Check Spinner and Back Plate for Cracks			
8.2	Inspect For Cracks/Stone Damage/Nicks			
8.3	Check For Delamination (Wood/Composite Blades)			
8.4	Check Prop Bolts Torque/Safety Wire			
8.5	Check For Oil Leaks (Crankcase Nose Seal)			
8.6	Grease Leaks (Constant Speed Prop)			
8.7	Check Propeller Governor for Leaks and Operation			

8.8	Check Prop Track			
8.9	Check Prop Balance (Wood Prop)			
<b>9</b>	<b>Electrical</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
9.1	Spare Fuses Available			
9.2	Battery Serviced and Free from Corrosion			
9.3	Battery Box Free from Corrosion			
9.4	ELT Battery Free from Corrosion and Current Battery			
9.5	Check Landing Light Operation			
9.6	Check Position Lights Operation			
9.7	Check Anti Collision Light for Operation			
9.8	Inspect All Antenna Mounts and Wiring for Security			
9.9	Check All Grounding Wires (Engine to Airframe, Wing to Aileron/ Flap, Etc.)			
9.10	Inspect Radios/Leads/Wires for Attachment & Security			
9.11	Inspect Circuit Breakers/Fuses Panels for Condition			
<b>10</b>	<b>Operational Inspection</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
10.1	Visual Inspection of The Engine/Propeller			
10.2	All Inspection Panels and Fairings Secure			
10.3	Personnel With Fire Bottle Standing By			
10.4	Brake System Check			
10.5	Proper Fuel in Tanks			
10.6	Engine Start Procedures			
10.7	Oil Pressure/Oil Temperature Within Limits			
10.8	Vacuum Gauge Check			

10.9	Magneto Check/Hot Mag Check			
10.10	Idle RPM/Mixture Check			
10.11	Static RPM Check			
10.12	Electrical System Check			
10.13	Cool Down Period/Engine Shut Down			
10.14	Perform Oil, Hydraulic, and Fuel Leak Check			
<b>11</b>	<b>Document</b>	<b>S</b>	<b>U</b>	<b>N/A</b>
11.1	Airworthiness Directives			
11.2	Record Findings and Sign Off Inspection and Maintenance in Aircraft Logbooks			

S - Satisfactory

U - Unsatisfactory - (All unsatisfactory items shall be corrected prior to flight)

N/A - Not Applicable

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