

Q Annual Inspection / Condition Inspection

Reg# _____ **Model** _____
S.N. _____ **Builder** _____
Tach hrs. _____ **Date** _____ Start _____
 Finished _____
Performed by _____ **Certificate** _____

<u>ENGINE</u>	<u>Checked</u>	<u>Completed</u>
Warm engine to operating temperature. (Go fly)		
Remove cowling and inspect for chafing and stains.		
Clean & inspect cowling and fasteners		
Check air intake screen.		
Check for evidence of oil leaks and fuel leaks.		
Drain oil. (Take oil sample).		
Compression test: #1 cylinder		
#2 cylinder		
#3 cylinder		
#4 cylinder		
Clean, inspect, and re-gap spark plugs.		
Check ignition timing. (For reference).		
Check plug wires condition.		
Rotate and reinstall top spark plugs.		
Pull engine forward to access rear of engine.		
Check mag points and lube cam.		
Check distributor, points, and rotor & lubricate.		

	Checked	Completed
Adjust timing if needed.		
Check magneto cooling hoses.		
Check oil screen, replace gasket, and re-safety.		
Check electrical connections; starter, gen., voltage reg., etc.		
Remove gen. & starter covers, check brushes and commutator.		
Check all nuts & bolts for torque on accessory case.		
Check engine mounts, rubber, and bolts.		
Reinstall engine, hook everything up.		
Install lower plugs.		
Replace oil. (Install new drain plug gasket & safety).		
Check fuel strainer & safety.		
Drain Carburetor bowl & clean carb. inlet screen.		
Remove heat mufflers.		
Check exhaust system for cracks and leaks.		
Reinstall mufflers.		
Check all hose connections and clamps.		
Check all fuel & oil hoses for leaks, security, chafing.		
Check rocker box covers, valve springs, and rocker arms.		
Spot check cylinder base nuts.		
Check push rod housings, seals & clamps.		
Check intake manifolds for leaks. (look for fuel stains).		
Check inter-cylinder & head baffles.		
Check carb heat valve.		
Remove & inspect spinner for wear and/or cracks. Inspect propeller.		

	Checked	Completed
Re-torque prop bolts, check tracking, & re-safety.		
Wash engine with approved solvent.		
Inspect controls for full range of movement.		
Lube engine controls.		
Run up & check for leaks.		
Replace cowling & run visual check.		
<u>FUSELAGE</u>	<u>Checked</u>	<u>Completed</u>
Check exterior for cracks or delaminations.		
Remove upholstery.		
Thoroughly clean interior. Note stains or leaks.		
Check internal integrity of fuselage wall and bulkheads.		
Check control cables, tubes, brackets, etc. aft section.		
Check aileron bellcranks & lube.		
Check aileron mass balance weights.		
Check tail cone attach brackets and bolts.		
Check reflexor and lube.		
Check battery cables and solenoid for corrosion and security.		
Service battery as required.		
Check battery box for security and venting.		
Check for fuel leaks inside cabin. Clean/replace filter.		
Drain fuel sumps.		
Check fuel primer.		
Check fuel gauges for condition and operation.		

	Checked	Completed
Check speed brake pivots, hinge, and latching.		
Check control stick for movement, wear, and cracks.		
Check canopy latch system.		
Check safety belt harness for security and condition.		
Check wiring, lines, and controls behind instrument panel.		
Check elevator trim system.		
Check instruments and vacuum system for condition and leaks.		
Check electrical system.		
Check interior lighting.		
Check instrument panel for general condition and security.		
Check instruments for proper marking and illumination.		
Check fuel filler cap and door.		
Check fuel tank decals for condition, octane, and capacity.		
Check Aux fuel tank, lines, pump & filler cap.		
<u>WINGS</u>	<u>Checked</u>	<u>Completed</u>
Check general condition, cracks, or delaminations.		
Check controls and bellcranks, nuts and bolts.		
Check elevators pivots for wear. Lube.		
Check elevators for security.		
Check aileron pivots for wear. Lube.		
Check ailerons for security.		
Check electrical wiring.		
Check position lights.		

	Checked	Completed
Check anti-collision lights.		
Check landing light.		
Check condition of main wheels and tires.		
Check brake pucks.		
Check brake rotors and calipers.		
Check axle and axle hard points.		
Check wheel bearings.		
Fill master cylinder.		
<u>TAIL ASSEMBLY</u>	<u>Checked</u>	<u>Completed</u>
Check tail cone for general condition, cracks, delams.		
Check tail wheel spring.		
Check tail wheel, bearings, swivel, and tail wheel bracket.		
Check tail wheel bolts and lube.		
Check rudder pivot points for wear and lube.		
Check rudder horn.		
Check all rudder cables for wear and adjustment.		
Check rudder cable pulleys for wear, movement, alignment.		
Check rudder pedals for security.		
Check position light.		
<u>MISCELLANEOUS</u>	<u>Checked</u>	<u>Completed</u>
Data Plate.		

	Checked	Completed
Airworthiness Certificate.		
Operating Limitations.		
Weight and Balance data.		
State registration.		
Passenger warning and Experimental placard.		
Passenger Sic Sacs.		
NASA incident reporting form.		
Transponder due date.		
Altimeter due date (If IFR).		
Static system due date (If IFR).		
E.L.T. battery replacement date.		
E.L.T. check (Within 5 minutes past the hour).		
Fire extinguisher.		
Functional ground check of radio.		
Fill out logbooks.		

Revised: 2019