INSTURMENTATION - ELECTRICAL

CHT/EGT gauge— Check accuracy with hot oil and candy thermometer. Check ELT for operation and battery replacement date. Pitot/static systems— Check for leaks. Check radio antenna connections. Oil Temp/Pressure— Check accuracy. Check low oil pressure light. Tachometer— check accuracy. Service filter for gyro instruments. Fuel Pressure— Check accuracy. Service battery. Check wiring for chafing. Check lights— Nav, Landing Strobe, Cockpit
FUSELAGE GROUP
 Check condition of fuselage skin and for delamination.
WING AND CANARD GROUP
Check surfaces for damage, delamination Check fuel tanks for leaks, water. Check Nav. Lights, strobes for operation, security. Check rudder hinges, bell horn and attachments. Check winglet skin for damage, delamination. Check elevator hinges and attachments. Check elevators for proper mass balance— if modified. Check ailerons for proper mass balance— if modified. Check ailerons, hinges, cables, pulleys and bell cranks for damage and operation. Lubricate. Remove both wings and inspect glass around spar and attach fittings for cracks, delaminations.

Type of Inspe	ection:	Inspector	
Registration		Serial No.:	Date://_
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		PROPELLE	R GROUP
	Check propel Inspect Prop Fill nicks a Clock the pr	ller tracking, 1/16" max peller extension for cra and clean	
		ENGINE	GROUP
		-	
	Clean oil ir Check oil li Inspect oil Check and cl	lean or replace air filt	
	and secu	urity. re, throttle, carb heat	controls for security and
		function. Lubricate. to wiring. Check that m	mags are cold with switches
	Check that to dead cer		oling clicks at or after top
	Check Magnet		
		e of valve cover screws.	
		st system for cracks, le e and cowl, inspect cowl	
	Inspect vacu		und lasteriels.
		buretor heat box.	
		rter and alternator, bel	
		nkcase, check for loose	
		ap spark plugs (.018"),	reverse top to bottom.
		excessive oil leakage.	ble all seems the seeins
		l; check for cracks/ sto	tly all around the engine
	Perform comp		ow 60/80 inspect internal
		sion readings: 1:	2: 3: 4:
			rops and ground, idle speed
	-1	cutoff	

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	FUEL SYSTEM
	Check that the fuel caps seal securely. Inspect fuel valve for proper function. Re-lub if necessary. Inspect gascolator, clean filter, safety Inspect fuel tank vent system— open, no leaks. Check fuel lines for chafing. Inspect and clean carburetor finger screen. Carburetor float bowl— disassemble and check for contamination. Inspect float, needle valve and seat for gummy substances. Pressure check fuel system with electric pump on for leaks and pressure 2-8 psi.
	MAIN GEAR
+	
	Adjust brakes and test for proper function. Service fluid. Recheck rudder travel— 5.5" to 6.5". Double check that all attach bolts and axle bolts are installe and secured. Check tires for proper inflation— 40 psi mains and nose wheel Pack wheel bearing with grease and safety Check brake line for heat damage, brittleness, insulation. Check brake mechanism for safetying Check brake pucks for wear. Double check for proper main tire toe—in (1/4°-1/2° per side) Check main gear strut attachment (per CP 47 Pg 9).
	NOSE GEAR
	Nose gear tier inflation, 40 psi. Grease wheel bearing. Check axle nut for security and proper installation. Check Shimmy damper friction adjustment (2-4 lb side force.). Check for damage, wear. Grease worm gear and worm with light grease. Check safetying and security on all actuating mechanism hardware. Verify nose gear warning micro switch activates in last 1/10 of NG50 travel. Hold nose up and cycle gear with a 10 lb load to simulate air
	drag to verify proper function and locking. Verify over center condition on NG50.

CONTROL SYSTEM

CONTRICT DADIAN.
Check that canopy sponge seals are in place and that canopy locking handle in adjusted so it must be forced forward to lock. Check hinges for damage, safety catch operation, rig for equal pressure snugness. Remove canard— inspect rudder pedals, battery, now gear
retract mechanism, canard lift tabs, elevator torque tubes, elevator balance weights for freedom and security. Check elevator and aileron push rods for proper installation (spacers, washers, bolt, locknuts, clevis pins and safety clips installed properly, not worn out.
Check elevator and aileron push rods for freedom of movement throughout control travel. Check pitch, roll and yaw trim mechanisms for proper function and freedom of movement.
Check elevator and aileron hinge attachment screws for safety and jam nut installation Check elevator and aileron for freedom of movement throughout range without binding or chafing.
Check rudder pedals for freedom of movement, cable attachments, and positive return to neutral. Check rudder pulleys for free rotation and cable guard installation (cotter pins on pulley brackets).
Check cable clearance throughout control travel. Check brake actuating cable freedom. Check all rod ends— reject any with evidence of bent tangs. Check cables, control rods for chafing.
Check for minimum (1/16") clearances around all mass balances. COCKPIT GROUP
Inspect for cleanliness and loose equipment Inspect canopy seal, hinges, latches & safety catch Inspect canopy for condition, breakage. Inspect seat belts, and mountings. Check pitch trim control operation and installation. Check flight controls for installation and operation. Check instruments, lines, attachments & markings.
 Inspect cabin heater.

Lubricate controls.