

4/27/15

CONDITION INSPECTION #3AC 90-89B
Appendix 1**APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION**

AIRCRAFT IDENTIFICATION:

R-V-14A

TYPE/SN.

140253

ENGINE

N NUMBER

MODEL/SN.

Y10-390-EXP 98

N412RS

PROPELLER

PROPELLER

MODEL/SN.

TOTAL TIME

71.3

A/F TOTAL TIME

83.3

ENGINE TOTAL
TIME

71.3

OWNER

R. SPATZ

GENERAL:

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
REGISTRATION/AIRWORTHINESS/OPERATION LIMITATIONS	✓			
AIRCRAFT IDENTIFICATION PLATES INSTALLED	✓			
EXPERIMENTAL PLACARD INSTALLED	✓			
WEIGHT AND BALANCE/EQUIPMENT LIST (updated for each flight)				
RADIO LICENSE	N/A			
WINGS: REMOVE INSPECTION PLATES/FAIRINGS	✓			
GENERAL INSPECTION OF THE EXTERIOR/INTERIOR WING	✓			
FLIGHT CONTROL BALANCE WEIGHTS FOR SECURITY	✓			
FLIGHT CONTROL PROPER ATTACHMENT (NO SLOP)	✓			
FLIGHT CONTROL HINGES/ROD END BEARINGS	✓			
FLIGHT CONTROLS PROPERLY RIGGED/PROPER TENSION	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
INSPECT ALL CONTROL STOPS FOR SECURITY	✓			
TRIM CONTROL PROPERLY RIGGED	✓			
TRIM CONTROL SURFACES/HINGES/ROD END BEARINGS	✓			
FRAYED CABLES OR CRACKED/FROZEN/RATCHETING PULLEYS	✓			
SKIN PANELS DELAMINATE/VOIDS (COIN TEST)	✓			
POPPED RIVETS/CRACKED/DEFORMED SKIN	✓			
FABRIC/RIB STITCHING/TAPE CONDITION	N/A			
LUBRICATION	✓			
WING ATTACH POINTS	✓			
FLYING/LANDING WIRES/STRUTS FOR SECURITY	N/A			
CORROSION	✓			
FOR U/L AIRCRAFT CHECK	N/A			
FLIGHT CONTROL BOLTS/PINS FOR SAFETY AND	✓			
WING/STRUT/CABLE ATTACHMENTS AND HARDWARE FOR SAFETY AND CONDITION	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
FUEL SYSTEM: CORROSION	✓			
FUEL LINES FOR CHAFING/LEAKS/SECURITY/CONDITION	✓			
SUMP ALL FUEL TANKS FOR WATER OR DEBRIS	✓			
FUEL CAPS FOR SECURITY	✓			
FUEL PLACARD	✓			
FUEL VALVE/CROSS FEED/FOR OPERATION AND SECURITY	✓			
CLEAN FUEL FILTERS/GASCOLATOR/FLUSH SYSTEM				
INSPECT FUEL TANK VENT SYSTEM	✓			
LANDING GEAR:				
INSPECT STRUTS/TORQUE LINKS FOR ATTACHMENT	✓			
INSPECT STRUTS FOR PROPER EXTENSION	✓			
INSPECT FOR HYDRAULIC LEAKS	✓			
CHECK ALL BUSHINGS FOR WEAR/FREE PLAY	✓			
CHECK LUBRICATION	✓			
INSPECT WHEELS FOR ALIGNMENT				
WHEEL/TIRES FOR CRACKS AND SERVICEABILITY	✓			
WHEEL BEARINGS FOR LUBRICATION	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
INSPECT FOR CORROSION	✓			
INSPECT NOSE GEAR FOR CRACKS AND TRAVEL	✓			
INSPECT TAIL WHEEL FOR CRACKS AND TRAVEL	N/A			
PERFORM GEAR RETRACTION TEST/CHECK INDICATOR LIGHTS	N/A			
EMERGENCY GEAR RETRACTION SYSTEM	N/A			
CHECK TIRE PRESSURE	✓			
BRAKE LINING WITHIN LIMITS	✓			
BRAKE DISKS FOR CRACKS, WEAR, AND DEFORMITY	✓			
BRAKE HYDRAULIC LINES FOR LEAKS AND SECURITY	✓			
FUSELAGE: REMOVE INSPECTION PLATES AND PANELS	✓			
INSPECT BULKHEADS AND STRINGERS FOR POPPED RIVETS	✓			
INSPECT FOR DELAMINATED SKIN/VOIDS (COIN TEST)	N/A			
INSPECT THE SECURITY OF ALL INTERNAL LINES	✓			
INSPECT WINDOWS/CANOPY FOR CRACKS AND FIT	✓			
INSPECT DOOR OR CANOPY LATCHING MECHANISM	✓			
INSPECT FIRE WALL FOR DISTORTION AND CRACKS	✓			
INSPECT RUDDER PEDALS AND BRAKES FOR OPERATION AND SECURITY	✓			
INSPECT BEHIND FIREWALL FOR LOOSE WIRES AND	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
CHECK CONTROL STICK/YOKE FOR FREEDOM OF	✓			
CHECK FLAP CONTROL OPERATION	✓			
CHECK CABLE AND PULLEYS FOR ATTACHMENT AND OPERATION	✓			
PERFORM FLOODLIGHT CARBON MONOXIDE TEST				
ENSURE THE COCKPIT INSTRUMENTS ARE PROPERLY MARKED	✓			
INSPECT INSTRUMENTS, LINES, FOR SECURITY	✓			
CHECK/CLEAN/REPLACE INSTRUMENT FILTER	N/A			
INSPECT COCKPIT FRESH AIR VENTS/HEATER VENTS FOR OPERATION AND SECURITY	✓			
INSPECT SEATS, SEAT BELTS/SHOULDER HARNESS FOR SECURITY AND ATTACHMENT	✓			
CORROSION				
CHECK BALLISTIC PARACHUTE INSTALLATION PER MANUFACTURER	N/A			
RECOMMENDATIONS	N/A			
EMPENNAGE/CANARD				
REMOVE INSPECTION PLATES AND FAIRINGS	✓			
INSPECT CANARD ATTACH POINTS FOR SECURITY	N/A			
INSPECT VERTICAL FIN ATTACH POINTS	✓			
INSPECT ELEVATOR/STABILIZER ATTACH POINTS	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
INSPECT HINGES/TRIM TABS/ROD ENDS FOR ATTACHMENT	✓			
INSPECT EMPENNAGE/CANARD SKIN FOR	✓			
INSPECT ALL CONTROL CABLES, HINGES AND PULLEYS	✓			
INSPECT ALL CONTROL STOPS	✓			
FOR ULTRALIGHT: CHECK ALL ATTACHMENT POINTS AND CONTROL FOR SAFETY CONDITION	N/A			
ENGINE: PERFORM COMPRESSION TEST #1 ____ #2 ____ #3 #4 #5 #6	N/A			
CHANGE OIL AND FILTER (CHECK FOR METAL)	✓			
INSPECT IGNITION HARNESS FOR CONDITION AND	✓			
CHECK IGNITION LEAD CIGARETTES FOR	✓			
CLEAN AND GAP SPARK PLUGS	✓			
CHECK MAGNETO TIMING/POINTS/OIL SEAL/DISTRIBUTOR				
INSPECT ENGINE MOUNT/BUSHINGS	✓			
INSPECT ENGINE MOUNT ATTACHMENT BOLT TORQUE	✓			
INSPECT ALTERNATOR/GENERATOR ATTACHMENT	✓			
CHECK ALTERNATOR/GENERATOR BELT CONDITION	✓			
INSPECT CYLINDERS FOR CRACKS/BROKEN FINS/EXHAUST	✓			
INSPECT ENGINE BAFFLES FOR CRACKS/CONDITION	✓			
CHECK FOR OIL LEAKS INSPECT VACUUM PUMP AND LINES	✓			
INSPECT OIL VENT LINES	✓			
INSPECT ALL CABIN HEAT/CARB HEAT /DEFROSTER DUCTS	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
INSPECT CARBURETOR FOR SECURITY & CLEAN INLET	✓			
INSPECT INTAKE HOSES/SEALS FOR SECURITY/LEAKS	✓			
INSPECT THROTTLE/MIXTURE/CARB HEAT/CONTROL FOR PROPER TRAVEL AND SECURITY	✓			
INSPECT CARB HEAT AIR BOX FOR CRACKS/OPERATION	N/A			
INSPECT CONDITION OF FLEXIBLE FUEL AND OIL LINES	✓			
INSPECT OIL COOLER FOR LEAKS AND CONDITION	✓			
CHECK EXHAUST SYSTEM FOR ATTACHMENT & CONDITION	✓			
CHECK MUFFLER/INTERNAL BAFFLE/FOR SECURITY	✓			
CHECK EXHAUST PIPES/FLANGES FOR SECURITY &	✓			
REPACK EXHAUST GASKETS AS REQUIRED	N/A			
CHECK COWLING FOR CRACKS AND SECURITY	✓			
FOR ULTRALIGHT: CHECK CARB BOOTS ON 2-CYCLE ENGINES FOR CRACKS	N/A			
CHECK SAFETIES ON EXHAUST SPRINGS	N/A			
PERFORM 2-CYCLE COMPRESSION TEST TO CHECK SEALS	N/A			
ENSURE SPARK PLUG CAPS ARE SAFETIED ON INVERTED	N/A			
PROPELLER: CHECK SPINNER AND BACK PLATE FOR CRACKS	✓			
INSPECT FOR CRACKS/STONE DAMAGE/NICKS	✓			
CHECK FOR DELAMINATION (WOOD/COMPOSITE BLADES)	N/A			
CHECK PROP BOLTS TORQUE/SAFETY WIRE	✓			
CHECK FOR OIL LEAKS (CRANKCASE NOSE SEAL)	✓			
GREASE LEAKS (CONSTANT SPEED PROP)	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
CHECK PROPELLER GOVERNOR FOR LEAKS AND	✓			
CHECK PROP TRACK	✓			
CHECK PROP BALANCE (WOOD PROP)	N/A			
ELECTRICAL	✓			
SPARE FUSES AVAILABLE				
BATTERY SERVICED AND FREE FROM CORROSION	✓			
BATTERY BOX FREE FROM CORROSION	✓			
ELT BATTERY FREE FROM CORROSION AND CURRENT	✓			
CHECK LANDING LIGHT OPERATION	✓			
CHECK POSITION LIGHTS OPERATION	✓			
CHECK ANTI COLLISION LIGHT FOR OPERATION	✓			
INSPECT ALL ANTENNA MOUNTS AND WIRING FOR	✓			
CHECK ALL GROUNDING WIRES (ENGINE TO AIRFRAME, WING TO AILERON/FLAP, ETC.)	✓			
INSPECT RADIOS/LEADS/WIRES FOR ATTACHMENT & SECURITY	✓			
INSPECT CIRCUIT BREAKERS/FUSES PANELS FOR	✓			
OPERATIONAL INSPECTION: VISUAL INSPECTION OF THE ENGINE/PROPELLER	✓			
ALL INSPECTION PANELS AND FAIRINGS SECURE	✓			
PERSONNEL WITH FIRE BOTTLE STANDING BY	✓			
BRAKE SYSTEM CHECK	✓			
PROPER FUEL IN TANKS	✓			
ENGINE START PROCEDURES	✓			

APPENDIX 1. SAMPLE CHECKLIST FOR A CONDITION INSPECTION (Continued)

S = SATISFACTORY U = UNSATISFACTORY (correct all unsatisfactory items prior to flight)	Builder/Inspector			
	S	U	S	U
OIL PRESSURE/OIL TEMPERATURE WITHIN LIMITS	✓			
VACUUM GAUGE CHECK	N/A			
MAGNETO CHECK/HOT MAG CHECK	✓			
IDLE RPM/MIXTURE CHECK	✓			
STATIC RPM CHECK	✓			
ELECTRICAL SYSTEM CHECK	✓			
COOL DOWN PERIOD/ENGINE SHUT DOWN	✓			
PERFORM OIL, HYDRAULIC, AND FUEL LEAK CHECK	✓			
PAPERWORK: AIRWORTHINESS DIRECTIVES / SERVICE BULLETINS	✓			
RECORD FINDINGS AND SIGN OFF INSPECTION AND	✓			
MAINTENANCE IN AIRCRAFT LOG BOOKS	✓			

- INSTALLED NEW SPARK PLUGS
- INSTALLED NEW AIR INTAKE FILTER
- INSTALLED NEW ENGINE OIL & FILTER (PRIOR TO INSPECTION)
- ENGINE COMPRESSION TEST NOT PERFORMED DUE TO ENGINE NOT YET BROKEN-IN

R. SPATZ

9/23/22