

OWNER

CHECKLIST FOR A CONDITION INSPECTION

AC 90-89
AIRCRAFT IDENTIFICATION:

TYPE/SN._____ ENGINE MODEL/SN. ______

N NUMBER____ PROPELLER MODEL/SN ______

A/F TOTAL TIME____ ENGINE TOTAL TIME ______

PROPELLER TOTAL TIME _____

BUILDER **INSPECTOR** Unsat Sat Sat **GENERAL:** Unsat REGISTRATION/AIRWORTHINESS/OPERATING LIMITATIONS AIRCRAFT IDENTIFICATION PLATES INSTALLED **EXPERIMENTAL PLACARD INSTALLED** WEIGHT AND BALANCE/EQUIPMENT LIST **WINGS:** REMOVE INSPECTION PLATES/FAIRINGS GENERAL INSPECTION OF THE EXTERIOR/INTERIOR WING FLIGHT CONTROLS BALANCE WEIGHTS FOR SECURITY FLIGHT CONTROLS PROPER ATTACHMENT (NO SLOP) FLIGHT CONTROL HINGES/ROD END BEARINGS SERVICEABILITY FLIGHT CONTROLS PROPERLY RIGGED/PROPER TENSION INSPECT ALL CONTROL STOPS FOR SECURITY TRIM CONTROL PROPERLY RIGGED TRIM CONTROL SURFACES/HINGES/ROD END BEARINGS SERV. FRAYED CABLES OR CRACKED/FROZEN PULLEYS SKIN PANELS DELAMINATE/VOIDS (COIN TEST) POPPED RIVETS/CRACKED/DEFORMED SKIN FABRIC/RIB STITCHING/TAPE CONDITION LUBRICATION

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WING ATTACH POINTS			
FLYING/LANDING WIRES/STRUTS FOR SECURITY			
CORROSION			
FLIGHT CONTROL PLACARDS			
INSPECT FIREWALL FOR DISTORTION AND CRACKS			
INSPECT RUDDER PEDALS AND BRAKES FOR OPERATION AND SECURITY			
INSPECT BEHIND FIREWALL FOR LOOSE WIRES AND CHAFFING LINES			
CHECK CONTROL STICK/YOKE FOR FREEDOM OF MOVEMENT			
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			
INSPECT COCKPIT FRESH AIR VENTS/HEATER VENTS FOR OPERATION AND SECURITY			
INSPECT SEATS, SEATBELTS/SHOULDER HARNESS FOR SECURITY AND ATTACHMENT			
CORROSION			
EMPENNAGE/CANARD:			
REMOVE INSPECTION PLATES AND FAIRINGS			
INSPECT CANARD ATTACH POINTS FOR SECURITY			
INSPECT VERTICAL FIN ATTACH POINTS			
INSPECT ELEVATOR/STABILIZER ATTACH POINTS			
INSPECT HINGES/TRIM TABS/ROD ENDS FOR ATTACHMENT AND FREE PLAY (SLOP)			
INSPECT EMPENNAGE/CANARD SKIN FOR DAMAGE/CORROSION			
INSPECT ALL CONTROL CABLES, HINGES AND PULLEYS			
INSPECT ALL CONTROL STOPS			
ENGINE:			
PERFORM COMPRESSION TEST #1#2#3 #4#5#6			
CHANGE OIL AND FILTER (CHECK FOR METAL)			
INSPECT IGNITION HARNESS FOR CONDITION AND CONTINUITY			
CHECK IGNITION LEAD CIGARETTES FOR CONDITION/CRACKS			
CLEAN AND GAP SPARK PLUGS			
CHECK MAGNETO TIMING/POINTS/OIL SEAL/DISTRIBUTOR			
INSPECT ENGINE MOUNT/BUSHINGS			
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CHECK LANDING LIGHT OPERATION		
CHECK POSITION LIGHTS OPERATION		
CHECK ANTI-COLLISION LIGHT FOR OPERATION		
INSPECT ALL ANTENNA MOUNTS AND WIRING FOR SECURITY		
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 CONDITION		
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		
OIL PRESSURE/OIL TEMPERATURE WITHIN LIMITS		
VACUUM GAUGE CHECK		
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		
RECORD FINDINGS AND SIGN OFF INSPECTION AND MAINTENANCE IN LOGBOOKS		