AIRPLANE SERIAL NUMBER	REGISTRATION NUMBER	ENGINE SERIAL NUMBER	PROPELLER SERIAL NUMBER

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 1 of 8)

WARNING: FAILURE TO CONSULT APPLICABLE VENDOR PUBLICATION(S), WHEN SERVICING OR INSPECTING VENDOR EQUIPMENT INSTALLED IN PIPER AIRCRAFT, MAY RENDER THE AIRCRAFT UNAIRWORTHY. (SEE SERVICE MANUAL - INTRODUCTION - SUPPLEMENTARY PUBLICATIONS.)

NOTE: Review Notes 1, 2, 3, and 4, before beginning this event.

PROPELLER, DETAILED

WARNING: USE EXTREME CAUTION WHEN ROTATING PROPELLER BY HAND; PROPELLER MAY KICK BACK. PRIOR TO ROTATING PROPELLER ENSURE BOTH MAGNETO SWITCHES ARE OFF (GROUNDED). IF MAGNETOS ARE NOT GROUNDED, TURNING PROPELLER MAY START ENGINE.

[ ] 1. Inspect spinner and backplate for cracks, dents, missing screws, and security.
[ ] 2. Inspect blades for nicks and cracks.
[ ] 3. If constant speed propeller installed, inspect for grease and oil leaks.
[ ] 4. If constant speed propeller installed, lubricate propeller per Lubrication Chart, Section II.
[ ] 5. Inspect spinner mounting brackets for cracks and security.
[ ] 6. Inspect propeller mounting bolts for security and safety. If safety is broken, re-torque and safety.
[ ] 7. If fixed pitch propeller installed, inspect hub for cracks and corrosion.
[ ] 8. If constant speed propeller installed, inspect hub parts for cracks and corrosion. (See Note 31.)
[ ] 9. If constant speed propeller installed, rotate blades of propeller and check for tightness in hub pilot tube. (Refer to Section VII.)
[ ] 10. Inspect complete propeller and spinner assembly for security, chafing, cracks, deterioration, wear, and correct installation.

ENGINE, DETAILED

WARNING: IF MAGNETOS ARE NOT GROUNDED, TURNING PROPELLER MAY START ENGINE. USE EXTREME CAUTION WHEN ROTATING PROPELLER BY HAND; PROPELLER MAY KICK BACK. PRIOR TO ROTATING PROPELLER ENSURE BOTH MAGNETO SWITCHES ARE OFF (GROUNDED).

NOTE: Read Note 5 prior to completing this group.

[ ] 1. Remove engine cowling and inspect for internal and external damage.
[ ] 2. Clean and inspect cowling for cracks, distortion, and loose or missing fasteners.
[ ] 3. Drain oil sump.
[ ] 4. Clean suction oil strainer at oil change. Inspect strainer for foreign particles.
[ ] 5. Clean pressure oil strainer or change full-flow (cartridge-type) oil filter element. Inspect strainer or element for foreign particles. (See Note 6.)
[ ] 6. Inspect oil temperature sender unit for leaks and security.
[ ] 7. Inspect oil lines and fittings for leaks, security, chafing, dents and cracks.
[ ] 8. Clean and inspect oil radiator cooling fins.
[ ] 9. Fill engine with oil per information on cowling or in Lubrication Chart, Section II.

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 2 of 8)

ENGINE, DETAILED (CONT.)

CAUTION: USE CAUTION NOT TO CONTAMINATE VACUUM PUMP WITH CLEANING FLUID. (REFER TO LATEST REVISION OF LYCOMING SERVICE INSTRUCTION NO. 1221.)

[ ] 10. Clean engine with approved solvents.
[ ] 11. Inspect condition of spark plugs. Clean and adjust gap as required; adjust per latest revision of Lycoming Service Instruction No. 1042.

NOTE: If fouling of spark plugs is apparent, rotate bottom plugs to upper plugs.

[ ] 12. Inspect spark plug cable leads and ceramics for corrosion and deposits.
[ ] 13. Check cylinder compression. (Refer to AC 43.13-1, latest revision.)
[ ] 14. Inspect cylinders for cracked or broken fins. (See Note 7.)
[ ] 15. Inspect rocker box covers for evidence of oil leaks. If found, replace gasket; torque cover screws 50 in·lbs.
[ ] 16. Inspect ignition harness and insulators for security of mounting, tight connections, high tension leakage and continuity.
[ ] 17. Inspect magneto points for proper clearance.
(Maintain clearance at 0.018 + .006, for -20 and -200 series/0.016 for -1200 series.)
[ ] 18. Inspect magnetos for oil seal leakage. (See Note 28.)
[ ] 19. Inspect breaker felts for proper lubrication.
[ ] 20. Inspect magneto to engine timing.
[ ] 21. Remove air filter and clean per Paragraph 7-19 or 7A-16, as appropriate. Replace as required.
[ ] 22. Inspect air induction system for leaks, security and damage; repair or replace as required.
[ ] 23. Inspect all induction air and alternate heat ducts per Induction Air Inlet Duct and Alternate Heat Duct Inspection. (See Section III, Special Inspections, Procedures.) (See Note 30.)
[ ] 24. Drain carburetor and clean inlet line fuel strainer or clean fuel injector inlet line strainer. (Clean injector nozzles as required.) (Clean with acetone only.)
[ ] 25. Inspect condition and operation of carburetor heat / alternate air door and box. (See Note 26.)
[ ] 26. Inspect intake seals for leaks and clamps for tightness.
[ ] 27. Inspect primer lines for leaks and security of mounting.
[ ] 28. Inspect condition of flexible fuel lines.
[ ] 29. Inspect fuel system for leaks.
[ ] 30. Inspect vent lines for evidence of fuel or oil leakage; if present, inspect fuel pump.
[ ] 31. Inspect engine-driven and electric fuel pumps for condition and operation. Replace as required.
[ ] 32. Inspect operation of vacuum pump and security of lines. (See Notes 27 and 32.)
[ ] 33. Inspect throttle, alternate air, mixture and, if installed, propeller governor controls for security, travel, and operating condition. (See Note 19.)
[ ] 34. Inspect exhaust stacks, connections, and gaskets. Replace gaskets as required.
[ ] 35. Inspect muffler, heat exchange, and baffles per Exhaust System Inspection. (See Section III, Special Inspections, Procedures.)
[ ] 36. Inspect breather tube for obstructions and security.
[ ] 37. Inspect crankcase for cracks, leaks, and security of seam bolts.
[ ] 38. Inspect engine mounts for condition and security.
[ ] 39. Inspect engine baffles for condition and security.
[ ] 40. Inspect rubber engine shock mounts for deterioration. (Replace as required.)
[ ] 41. Inspect firewall seals.

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 3 of 8)

ENGINE, DETAILED (CONT.)

[ ] 42. Lubricate alternator idler pulley (if installed); remove front grease seal and add grease. (Refer to Lubrication Chart, Section II.)
[ ] 43. Inspect condition of alternator and starter.
[ ] 44. Inspect security of alternator and mounting.
[ ] 45. Inspect engine-mounted accessories for condition and security.
[ ] 46. Inspect condition and tension of alternator drive-belt. (See Checking Alternator Belt Tension, Section X or Adjustment of Drive Belt Tension, Section XIII if air conditioning is installed.)
[ ] 47. If installed, inspect condition of A/C compressor belt and tension. (See Adjustment of Drive Belt Tension, Section XIII.)
[ ] 48. If installed, check A/C compressor oil level. (See Note 8.)
[ ] 49. If installed, inspect A/C compressor clutch security and wiring. (See Note 9.)
[ ] 50. If installed, inspect A/C compressor mounting for cracks, corrosion, and security.
[ ] 51. Check fluid in brake reservoir. Fill as required.
[ ] 52. Inspect and lubricate all controls per Lubrication Chart, Section II.
[ ] 53. Install engine cowling.

CABIN AND COCKPIT, ROUTINE

[ ] 1. Inspect landing, navigation, strobe, cabin and instrument lights for operation, condition and security.
[ ] 2. Inspect fuel valve drain lever cover for security. Verify door opens and closes freely and prevents operation of lever when closed.

FUSELAGE AND EMPENNAGE, ROUTINE

[ ] 1. Inspect fwd baggage door, latch and hinge for damage, operation and security.
[ ] 2. Inspect battery, box and cables. Flush and clean area as required and fill battery per instructions on box and in Electrical System, Section X.
[ ] 3. If installed, inspect refrigerant level in sight gauge of receiver-dehydrator.
[ ] 4. If installed, inspect air conditioner condenser air scoop for condition and rigging. (See Note 12.)
[ ] 5. Remove, drain and clean fuel strainer bowl and screen located in the bottom of selector valve.

RIGHT WING, DETAILED

[ ] 1. Remove inspection plates and fairings.
[ ] 2. Inspect wing surfaces and tips for damage and loose rivets, and condition of walkway.
[ ] 3. Inspect ailerons for surface damage or irregularities (i.e. - skin cracks, distortion, dents, corrosion, and excessive paint build up); structural defects (i.e. - loose or missing rivets); misrigging or structural imbalance; hinge damage, excessive wear, freedom of movement and proper lubrication; and attachment points for missing or worn hardware. (See Note 17.)
[ ] 4. Inspect aileron hinge pins for condition and security.
[ ] 5. Inspect aileron control stops to ensure stops have not loosened and locknuts are tight.
[ ] 6. Inspect aileron cables and cable terminals, turnbuckles, fittings, guides, pulleys, and bellcranks for safety, condition and operation. (See Note 10.)
[ ] 7. Inspect aileron cable tension using a tensiometer. (See Note 11.)
[ ] 8. Inspect flaps for surface damage or irregularities (i.e. - skin cracks, distortion, dents, corrosion, and excessive paint build up); structural defects (i.e. - loose or missing rivets); misrigging or structural imbalance; hinge damage, excessive wear, freedom of movement and proper lubrication; and attachment points for missing, damaged or worn hardware.
[ ] 9. Inspect flap hinge bolts for condition and security. Replace as required.

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 4 of 8)

RIGHT WING, DETAILED (CONT.)

[ ] 10. Lubricate per Lubrication Chart, Section II.
[ ] 11. Inspect wing attachment bolts and brackets for security, corrosion and condition. (See Note 23.)
[ ] 12. Re-torque wing forward and aft spar attach bolts per Section IV, Figures 4-1 and 4-1B.
[ ] 13. Inspect fuel tanks and lines for leaks and water. (See Note 14.)
[ ] 14. Inspect fuel tanks for minimum octane and capacity markings.
[ ] 15. Inspect fuel tank vents for condition, security, and operation.
[ ] 16. Inspect all controls, air ducts, electrical leads, lines and attaching parts for security, routing, chafing, deterioration, wear, and correct installation.
[ ] 17. Install inspection plates and fairings.

LEFT WING, ROUTINE

[ ] 1. Inspect wing surfaces and tips for damage and loose rivets.
[ ] 2. Lubricate per Lubrication Chart, Section II.

LANDING GEAR, DETAILED

[ ] 1. Check oleo struts for proper extension and evidence of fluid leakage. See Landing Gear System, Section II.
[ ] 2. Inspect nose gear steering control and travel.
[ ] 3. Remove wheel fairings.
[ ] 4. Inspect wheel alignment.
[ ] 5. Put airplane on jacks. (Refer to Section II.)
[ ] 6. Inspect tires for cuts, uneven or excessive wear, and slippage.
[ ] 7. Remove wheels; clean, inspect and repack bearings.
[ ] 8. Inspect wheels for cracks, corrosion, and broken bolts.
[ ] 9. Check tire pressure. (See Table II-I.)
[ ] 10. Inspect brake lining and disc for condition and wear. (See Note 24 and Paragraph 6-31.)
[ ] 11. Inspect brake backing plates for condition and wear.
[ ] 12. Inspect brake lines for condition and security.
[ ] 13. Inspect shimmy dampener operation.
[ ] 14. Inspect gear forks for damage.
[ ] 15. Inspect gear struts, attachments, torque links, and bolts for condition and security. (See Note 25.)
[ ] 16. Inspect torque link bolts and bushings. Rebush as required. (See Note 22.)
[ ] 17. Inspect wheel fairings and attachments.
[ ] 18. Inspect all hydraulic lines, electrical leads and attaching parts for condition and security (i.e., routing, chafing, damage, wear, etc.).
[ ] 19. Lubricate per Lubrication Chart, Section II.
[ ] 20. Install wheel fairings.
[ ] 21. Remove airplane from jacks.

FLOATS, DETAILED (IF INSTALLED.)

[ ] 1. Inspect float attachment fittings for corrosion and security.
[ ] 2. Inspect floats for damage.
[ ] 3. Inspect pulleys and cables for corrosion and security.

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 5 of 8)

SPECIAL INSPECTIONS, AS REQUIRED

[ ] See Special Inspections Work Sheet.

OPERATIONAL INSPECTION

NOTE: Refer to Note 15 prior to starting engine or taxiing airplane.

[ ] 1. Check fuel pump and fuel tank selector.
[ ] 2. Check fuel quantity, pressure and flow readings.
[ ] 3. Check oil pressure and temperature.
[ ] 4. Check alternator output.
[ ] 5. Check manifold pressure.
[ ] 6. Check carburetor heat / alternate air.
[ ] 7. Check parking brake.
[ ] 8. Check vacuum gauge.
[ ] 9. Check gyros for noise and roughness.
[ ] 10. Check cabin heater operation.
[ ] 11. Check magneto switch operation.
[ ] 12. Check magneto RPM variation.
[ ] 13. Check throttle and mixture operation.
[ ] 14. Check propeller smoothness.
[ ] 15. Check propeller governor action.
[ ] 16. Check engine idle.
[ ] 17. Check annunciator lights.
[ ] 18. Check electronic equipment operation.
[ ] 19. If installed, check operation of Autopilot, including automatic pitch trim, and manual electric trim. (See Note 16.)
[ ] 20. If installed, check air conditioner compressor clutch operation.
[ ] 21. If installed, check air conditioner condenser scoop operation.

GENERAL

[ ] 1. Aircraft conforms to FAA Specifications.
[ ] 2. Latest revision of applicable FAA Airworthiness Directives complied with.
[ ] 3. Latest revision of applicable manufacturer's Service Bulletins, Letters, and Instructions complied with. (See Table III-III.)
[ ] 4. Current and correct Pilot's Operating Handbook or Airplane Flight Manual is in the airplane.
[ ] 5. Appropriate entries made in the Aircraft and Engine Log books.
[ ] 6. Registration Certificate is in the aircraft and properly displayed.
[ ] 7. Radio Station FCC License is in the aircraft and properly displayed.
[ ] 8. Aircraft Equipment List, Weight and Balance and FAA Form(s) 337 (if applicable) are in the aircraft and in proper order.
[ ] 9. Operational inspection and run-up completed.
[ ] 10. Aircraft cleaned and lubricated after wash (as required).
[ ] 11. Event Inspection Record completed.
[ ] 12. Discrepancy Record completed.
[ ] 13. Equipment Change and Overhaul Record completed.

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 6 of 8)

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AIRPLANE SERIAL NUMBER	REGISTRATION NUMBER	ENGINE SERIAL NUMBER	PROPELLER SERIAL NUMBER

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 7 of 8)

INSPECTION COMPLETED

I certify that this aircraft has been inspected in accordance with PIPER AIRCRAFT CORPORATION 50 Hour Progressive Inspection Event No. 4, and is approved for return to service. Pertinent details of this inspection are on file at this facility under:

Repair Order No. _____

Total Time: _____ Date: _____

Signed: _____ Repair Station No.: _____

AIRPLANE SERIAL NUMBER	REGISTRATION NUMBER	ENGINE SERIAL NUMBER	PROPELLER SERIAL NUMBER

EVENT INSPECTION WORK SHEET

EVENT #4 (Sheet 8 of 8)

Event #4 Inspection Discrepancy Report

Aircraft Time: _____ Engine Time: _____

Date: _____ Work Order No.: _____

Item No.	Discrepancy	Corrective Action	Mechanic Signature