



**100 HOUR/ANNUAL INSPECTION GUIDE**

**B. Fuel System:**

- 1) Inspect the fuel tanks for evidence of loose rivets, bond separation, leaks, condition of gasket in the fuel caps, and proper operation of the fuel caps. \_\_\_\_\_
- 2) Inspect the fuel supply lines for condition, leaks, and security of installation. \_\_\_\_\_
- 3) Inspect the vent and drain lines for obstructions, condition, and security of installation. \_\_\_\_\_
- 4) Inspect the drain valves and the fuel shutoff valve for leaks, condition, proper operation, and security of installation. \_\_\_\_\_
- 5) Inspect the scupper bags for looseness, tears, condition, and security of installation. \_\_\_\_\_
- 6) Inspect the fuel quantity transmitter wiring and transmitter terminals for evidence of corrosion, condition, and security of installation. \_\_\_\_\_

**3. COMPONENTS**

**A. Components:**

- 1) Inspect components installed on the aircraft for condition, damage, proper operation, and security of installation. \_\_\_\_\_

**4. ENGINE**

- A.** Inspect and service the engine in accordance with the Textron-Lycoming O, HO, AIO, HIO, TIO-360 Series Operator=s Manual (60297-12). \_\_\_\_\_

**B. Lubrication System:**

- 1) Drain the engine oil coolers I/A/W para.4-8 and inspect the oil cooler(s) for condition, security of installation, and obstruction of airflow. \_\_\_\_\_
- 2) Inspect the cooler clean out doors for condition and security. \_\_\_\_\_
- 3) Inspect the scavenge oil pump for condition, security of installation, and leaks. \_\_\_\_\_
- 4) Inspect the oil lines for condition, chaffing, and security. \_\_\_\_\_
- 5) Service the engine oil I/A/W para. 4-7. \_\_\_\_\_

**C. Fuel System:**

- 1) Inspect the fuel boost pump for condition, security of installation, operation, and leakage. \_\_\_\_\_
- 2) Inspect the engine driven fuel pump for condition, security of installation, and leakage. \_\_\_\_\_
- 3) Inspect the main fuel filter for condition, security of installation, and leakage. \_\_\_\_\_

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|                                                                                                                                                  |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| 4) Inspect and clean the main fuel filter element.                                                                                               | _____ |
| 5) Inspect the fuel lines for condition, chaffing, and security.                                                                                 | _____ |
| 6) Inspect the fuel nozzle air manifolds and lines for condition and security of installation.                                                   | _____ |
| D. Fuel Servo:                                                                                                                                   |       |
| 1) Inspect the fuel servo for condition and security of installation.                                                                            | _____ |
| 2) Inspect the Automatic Mixture Control (AMC) blast tube for condition and security of installation.                                            | _____ |
| 3) Inspect the throttle and mixture controls for proper operation, condition, and security of installation.                                      | _____ |
| E. Exhaust System:                                                                                                                               |       |
| 1) Inspect the exhaust system for evidence of leaks or cracks and proper security and installation of all clamps (SDB 0122).                     | _____ |
| 2) Inspect the heat exchanger (muff heater) for evidence of leaks, cracks, condition, and security of installation.                              | _____ |
| F. Turbocharger System:                                                                                                                          |       |
| 1) Inspect the turbocharger, oil lines, and fittings for leaks, condition, and security of installation.                                         | _____ |
| 2) Inspect the turbocharger support brackets for condition and security of installation.                                                         | _____ |
| 3) Inspect the turbo inlet adaptor gasket condition, and condition security of installation (torque per SIL 0175).                               | _____ |
| 4) Inspect the exhaust pipe, air induction pipes, and clamps for condition and security of installation (SIL 0054 Revision 1 or later revision). | _____ |
| 5) Inspect the turbocharger heat shield for condition and security of installation.                                                              | _____ |
| 6) Inspect the wastegate system for proper operation and security of installation.                                                               | _____ |
| 7) Inspect the wastegate control rod for proper operation of the override detent.                                                                | _____ |
| G. Cooling System:                                                                                                                               |       |
| 1) Inspect the fan shroud for condition, alignment, worn or missing fasteners.                                                                   | _____ |
| 2) Inspect the fan shroud seal for condition.                                                                                                    | _____ |

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| 3) Inspect the cowling and baffling for condition and security of installation.                                                              | _____ |
| 4) Inspect the cooling fan for condition and security of the fan blades and proper clearance at the shroud.                                  | _____ |
| 5) Inspect the fire curtain for condition and security of installation.                                                                      | _____ |
|                                                                                                                                              |       |
| H. Starter:                                                                                                                                  |       |
| 1) Inspect starter for condition and security of installation.                                                                               | _____ |
|                                                                                                                                              |       |
| I. Alternator:                                                                                                                               |       |
| 1) Inspect alternator for condition, evidence of overheating, and security of installation.                                                  | _____ |
| 2) Inspect the alternator drive belt for condition and proper tension.                                                                       | _____ |
|                                                                                                                                              |       |
| J. Engine Mounts:                                                                                                                            |       |
| 1) Inspect the engine mounts for condition and security of installation.                                                                     | _____ |
|                                                                                                                                              |       |
| K. Engine Electrical System:                                                                                                                 |       |
| 1) Inspect the engine electrical wiring harness for chaffing, condition, proper clamping, and security of installation.                      | _____ |
| 2) Inspect the electrical component panel and components for condition and security of installation.                                         | _____ |
| 3) Inspect the engine to pylon ground strap for condition and security of installation.                                                      | _____ |
|                                                                                                                                              |       |
| L. Pylon Assembly:                                                                                                                           |       |
| 1) Inspect the pylon in the engine area for corrosion, cracks, dents, or other damage, and condition of the protective primer/epoxy coating. | _____ |
|                                                                                                                                              |       |
| M. Air Induction System:                                                                                                                     |       |
| 1) Inspect the filter container assembly for condition, proper operation of the bypass door, and security of installation.                   | _____ |
| 2) Replace the filter element.                                                                                                               | _____ |
| 3) Inspect the flex duct and fuel servo adapter for condition and security of installation.                                                  | _____ |

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- 4) Inspect the vent line and check valve for condition and security of installation.
- 5) Inspect engine access panel seal for condition.

**N. Engine Cylinder Compression:**

- 1) Inspect engine cylinders for proper compression (Refer to the latest revision of Textron-Lycoming Service Instruction No. 1191A).

Cylinder 1 \_\_\_\_\_ Cylinder 2 \_\_\_\_\_

Cylinder 3 \_\_\_\_\_ Cylinder 4 \_\_\_\_\_

**O. Engine Access Panels:**

- 1) Inspect the engine access panels for cracks, damage, condition of hinges, and worn or missing fasteners.

**5. LANDING GEAR ASSEMBLY**

**A. Crosstubes:**

- 1) Inspect the crosstube attachment clamps for deformation, corrosion, cracks, evidence of elongated bolt holes, and security of the attaching hardware (SDB 0124).
- 2) Inspect the crosstubes for damage, worn or missing hardware, and security of installation.
- 3) Inspect the crosstubes for excessive bowing (>0.5 inch/12.7 mm) while the aircraft is hanging and not sitting on ground.

**B. Landing Gear Legs and Drag Struts:**

- 1) Inspect the landing gear legs and drag struts for cracks, damage, and security of installation.
- 2) Inspect the landing gear leg fairings for condition and security of installation (280FX).

**C. Landing Gear Oleos:**

- 1) Inspect the oleos for leaks, corrosion, proper servicing, and security of installation.
- 2) Inspect the oleo fairings for condition and security of installation (280FX).

**D. Skid Tubes:**

- 1) Inspect the skid tubes for condition and security of installation.
- 2) Inspect the skid shoes for condition and security of installation.
- 3) Inspect the non-skid tape/paint for condition.