

POWER PLANT - INSPECTION/CHECK**1. General**

- A. This section has the inspections and checks necessary to keep the engine compartment in a serviceable condition.

TASK 71-00-01-210**2. Engine Compartment Zonal Inspection****A. General**

- (1) The Zonal Inspection Program (ZIP) includes a series of General Visual Inspection (GVI) tasks. This section gives ZIP procedures for an zonal inspection of the engine compartment.

NOTE: An engine compartment zonal inspection is a general visual examination that includes all systems and structural components in the engine compartment area, installation, or assembly. This includes checks for evidence of degradation such as corrosion, cracks, chafing of tubing, loose duct support, wiring damage, cable wear, fluid leaks, insufficient drainage, and for other conditions that could cause corrosion/damage. This level of inspection is completed during normal lighting conditions such as daylight, hangar light, drop-light, or flashlight at approximately "arm length" inspection distance to the object. It can be necessary to remove and/or open access panels or doors to do an engine and engine compartment zonal inspection. A mirror can be necessary to enhance visual access to all exposed surfaces in the inspection area. Stands, ladders, or platforms can be necessary to get access to the area that is checked.

B. Special Tools

- (1) None

C. Access

- (1) Remove the engine cowlings. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

D. Do the Engine Compartment Zonal Inspection.

NOTE: This inspection is from the forward tip of the nose spinner to FS 100.00.

- (1) Examine the engine compartment for damage and signs of overheating. Refer to Chapter 20, High Intensity Radiated Fields (HIRF) - Inspection/Check, External Zonal Visual Inspection of Lightning and High Intensity Radiated Fields.
- (2) Examine all of the systems and structural components for damage, corrosion, cracks, loose fasteners, loose/misalignment of linkage, and correct installation.
- (3) Examine all tubing, hose, and fluid fittings for signs of leaks, damage, chafing, and correct clamp installation.
- (4) Examine all placards and markings for security of installation, legibility, and correct location.
 - (a) For the correct placards and placard locations. Refer to the Pilots Operating Handbook or Chapter 11, of the Model 208 Illustrated Parts Catalog.
- (5) Examine for contamination and look carefully for quantities of combustible material.
 - (a) Remove all of the combustible material that has collected.

NOTE: Combustible material can be fuel vapor, engine oil, and/or dust or lint that has collected.

NOTE: An inspection for contamination and combustible material meets the requirements of the Enhanced Zonal Inspection Program.

E. Restore Access

- (1) Install the engine cowlings. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

END OF TASK