

**HOT SECTION - INSPECTION/CHECK****1. General**

A. Hot section inspection is conducted with power section only removed from airplane.

**2. Hot Section Inspection/Check**

A. Inspect Hot Section.

- (1) Remove engine cowling and nosecap.
- (2) Place suitable drip pan under front section of engine to catch residue oil lost during following steps.
- (3) Remove propeller. Refer to Chapter 61.
- (4) Disconnect pressure and scavenge oil lines to oil cooler and remove cooler. Refer to Chapter 79.
- (5) Remove primary exhaust duct. Refer to Chapter 78.
- (6) Disconnect torque pressure and vent lines at top right front of engine. Refer to Chapter 77.
- (7) Remove fire detector loop. Refer to Chapter 26.
- (8) Disconnect electrical leads at propeller tachometer generator.
- (9) Remove propeller reduction gearbox drain plug/chip detector and drain oil from gearbox. Refer to Chapter 79.
- (10) At propeller governor, disconnect propeller speed control cable, propeller governor interconnect rod, and front clevis at Beta follow-up cable from reversing lever. Remove Beta follow-up cable from front attach bracket at "C" flange.
- (11) Disconnect P<sub>y</sub> reference line at propeller governor. Cap line and port.
- (12) Disconnect electrical cable at propeller overspeed governor.
- (13) Position hoist in front of engine and attach sling to propeller mounting flange with four socket head capscrews. Tighten capscrews fingertight.
- (14) Remove power section from engine. Refer to Pratt and Whitney Maintenance Manual.
- (15) Perform hot section inspection in accordance with procedures in Pratt and Whitney Maintenance Manual.
- (16) Install power section to engine. Refer to Pratt and Whitney Maintenance Manual.
- (17) Remove hoist and sling from engine.
- (18) Connect electrical leads to propeller overspeed governor.
- (19) Connect P<sub>y</sub> reference line at propeller governor.
- (20) Install Beta follow-up cable to mounting bracket "C" flange.
- (21) Connect front clevis of Beta follow-up cable and propeller governor interconnect rod to propeller reversing lever. Install propeller speed control cable to propeller governor speed lever. Check propeller control cable rigging per Chapter 77.
- (22) Install propeller reduction gearbox chip detector in sump of propeller reduction gearbox. Refer to Chapter 77.
- (23) Install electrical leads at propeller tachometer generator.
- (24) Install fire detector loop. Refer to Chapter 76.
- (25) Connect torque indicator system pressure and vent lines at top right front of engine. Bleed system as required. Refer to Chapter 77.
- (26) Install primary exhaust duct. Refer to Chapter 78.
- (27) Install oil cooler. Refer to Chapter 79.
- (28) Install propeller. Refer to Chapter 61.