

INERTIAL AIR SEPARATOR - INSPECTION/CHECK**1. General**

- A. This section has the inspections and checks necessary to keep the inertial air separator in a serviceable condition.

TASK 71-60-00-220**2. Inertial Air Separator Detailed Inspection****A. General**

- (1) This task gives the procedures to do a detailed inspection of the inertial air separator.

B. Special Tools

- (1) None

C. Access

- (1) Open the upper cowling doors. Refer to Engine Cowling and Nose Cap - Maintenance Practices.
(2) Remove the lower cowling panels. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

D. Do the Inertial Air Separator Detailed Inspection (Refer to Figure 601).

- (1) Put the inertial separator vanes in the bypass mode.
(2) Use a flashlight and a mirror to do an inspection of all rivets on both sides of the forward and the aft inertial separator vanes to find if rivets are loose or missing.
(a) If there are loose or missing rivets, do the Rivet Replacement in this section.
(b) If there are no loose or missing rivets, do the Restore Access in this section.

E. Rivet Replacement.

- (1) Remove the inertial separator and forward and/or aft vanes.
(2) Examine the inertial air separator vanes for loose or missing rivets.
(3) If there are missing rivets, do the steps that follow:
(a) Examine the induction air plenum and the engine inlet areas for the missing rivet(s) and debris.
(b) Examine the engine for foreign object damage (FOD). Refer to the Pratt & Whitney PT6A-114 Engine Maintenance Manual.
(4) Replace all loose or missing rivets with same type rivet. If necessary, it is possible to use the next size larger diameter rivet.
(5) Reinstall the forward and/or aft vanes.
(6) Thoroughly clean any debris from the inside of the inertial separator.
(7) Reinstall the inertial separator.

F. Restore Access

- (1) Install the lower cowling panels. Refer to Engine Cowling and Nose Cap - Maintenance Practices.
(2) Close the upper cowling doors. Refer to Engine Cowling and Nose Cap - Maintenance Practices.

END OF TASK

Figure 601 : Sheet 1 : Inertial Air Separator Detailed Inspection

