

## PRIMARY AND SECONDARY EXHAUST DUCT - INSPECTION/CHECK

### 1. General

- A. This section has the inspections and checks necessary to keep the primary and secondary exhaust ducts in a serviceable condition.

### 2. Primary and Secondary Exhaust Duct General Visual Inspection (Alignment Check)

#### A. General

- (1) This task gives the procedures to do a general visual inspection of the primary and secondary exhaust duct alignment.

#### B. Special Tools

- (1) None

#### C. Access

- (1) Open the right upper engine cowl. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

- D. Do a Primary and Secondary Exhaust Duct General Visual Inspection (Alignment Check). Refer to Figure 601 for the applicable engine installation.

**NOTE:** The following procedure is designed to do a check of the clearance between the primary and the secondary exhaust duct.

- (1) Examine the gap between the primary and the secondary exhaust ducts.
  - (a) If necessary, remove the oil cooler shroud to get access to see the clearance.
  - (b) Make sure there is a visible clearance between the primary and the secondary exhaust ducts.
- (2) If there is interference between the primary and the secondary exhaust ducts, adjust the position of the secondary duct as follows:

**CAUTION:** Before you do a lower cowl hanger length adjustment, make sure that the cowl is supported to prevent cowl damage.

- (a) Disconnect the lower cowl hanger from the lower right cowl.
- (b) Loosen the jam nut on the lower cowl hanger and turn the clevis end of the hanger up or down, as necessary, to raise or lower the secondary duct to the desired position.
- (c) Tighten the jam nut on the hanger.
- (d) Attach the lower cowl hanger to the lower right cowl.
- (e) Examine the clearance again and adjust if necessary.

**CAUTION:** Do a check for interference between the nose gear fairing and the nose gear trunnion after you adjust the lower right cowl.

- (f) After you get the correct clearance, install the oil cooler shroud if it was removed.

#### E. Restore Access

- (1) Close the right upper engine cowl. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

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### 3. Primary and Secondary Exhaust Duct General Visual Inspection

#### A. General

- (1) This task gives the procedures to do a general visual inspection of the primary and secondary exhaust duct.

#### B. Special Tools

- (1) None

#### C. Access

- (1) Remove the engine cowl. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

- D. Do a Primary and Secondary Exhaust Duct General Visual Inspection (Refer to Figure 601 for the applicable engine installation).

- (1) Examine the primary exhaust duct and attach bolts for condition, cracks and corrosion.
- (2) Examine the secondary exhaust duct, and attach screws.

- (3) If a diffuser is installed on the secondary exhaust duct, examine the area around attachment hardware for cracks and corrosion.
- (4) Examine the exhaust deflector and retainer screws.
- (5) Examine the inboard, center and outboard secondary exhaust hanger brackets.

**NOTE:** Remove the right side lower engine cowl to get access to secondary exhaust.

E. Restore Access

- (1) Install the engine cowling. Refer to Chapter 71, Engine Cowling and Nose Cap - Maintenance Practices.

**END OF TASK**

Figure 601 : Sheet 1 : Exhaust Duct Alignment Inspection

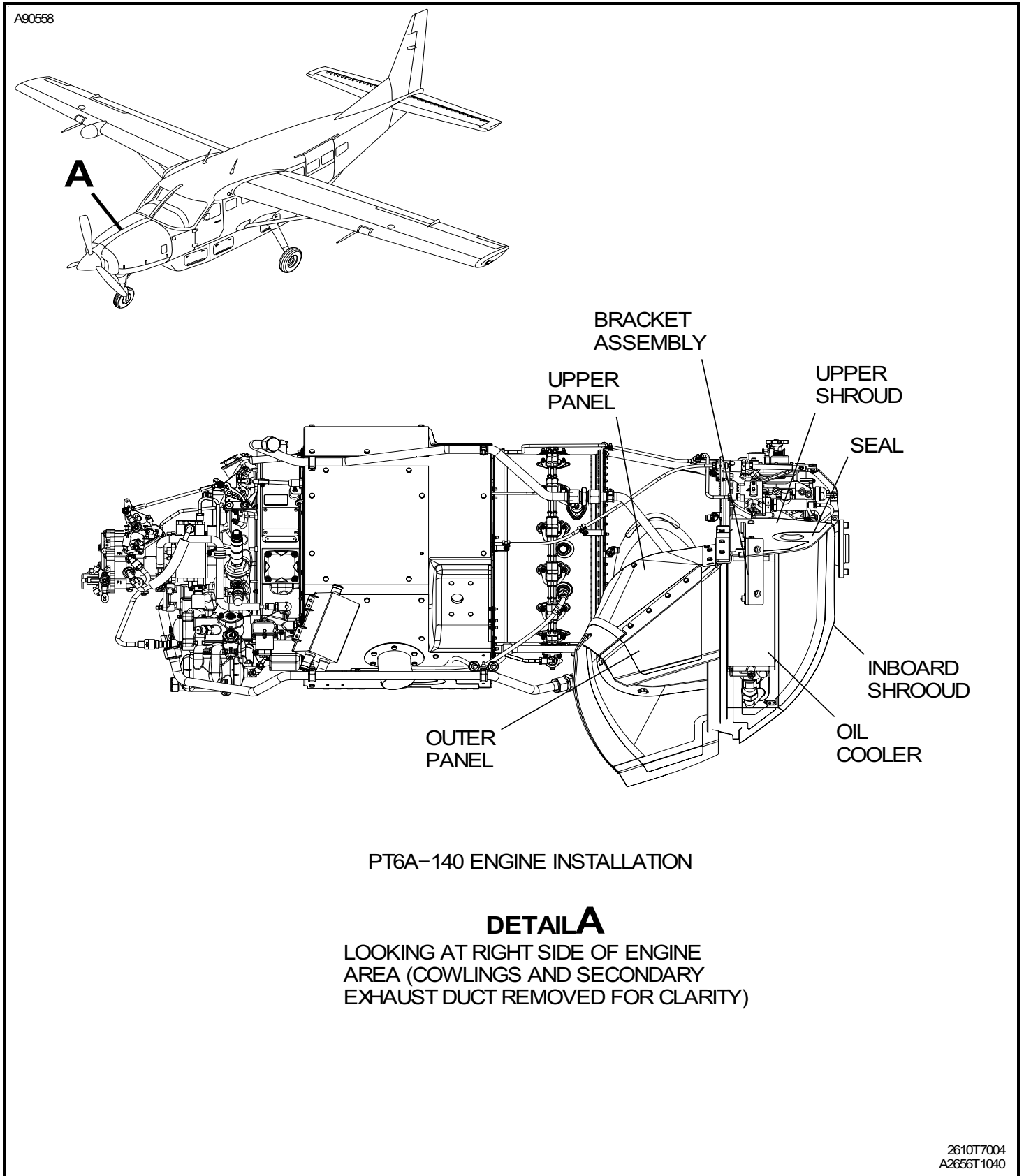
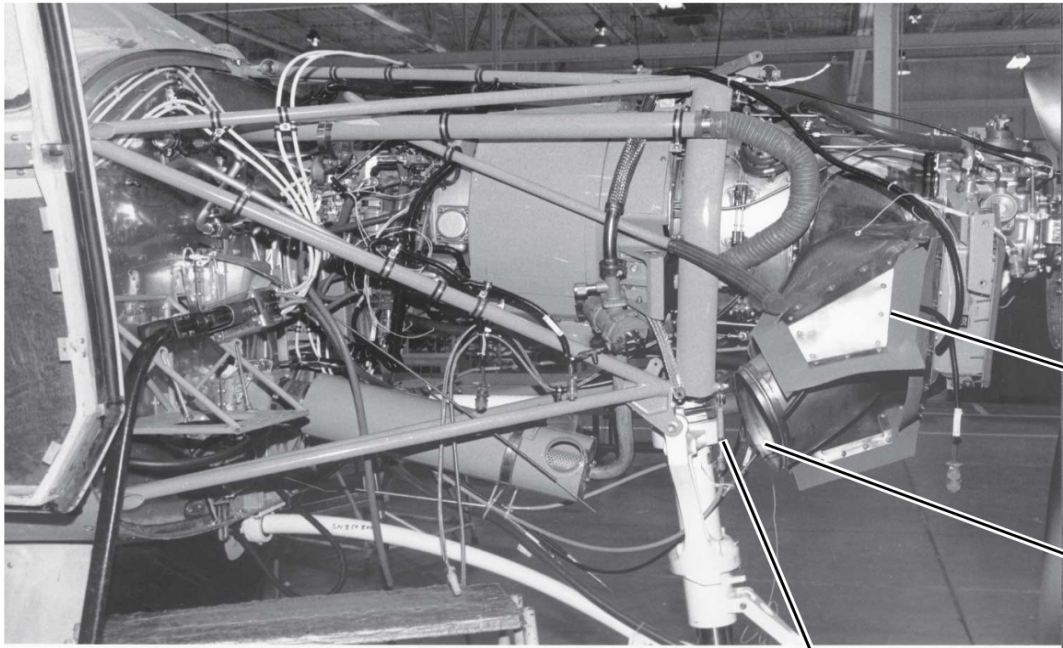


Figure 601 : Sheet 2 : Exhaust Duct Alignment Inspection

A9999



OIL COOLER  
SHROUD

PRIMARY  
EXHAUST DUCT

LOWER COWL  
HANGER

PT6A-114/PT6A-114A  
ENGINE INSTALLATION

### DETAIL A

LOOKING AT RIGHT SIDE OF ENGINE AREA  
(COWLINGS AND SECONDARY EXHAUST  
DUCT REMOVED FOR CLARITY)

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Figure 601 : Sheet 3 : Exhaust Duct Alignment Inspection

