



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

**APU OIL COOLER DUCT - REMOVAL/INSTALLATION**

*EFFECTIVITY: AIRCRAFT EQUIPPED WITH APU T-62T-40C14*

1. General

- A. This section gives the procedures to remove/install the APU oil-cooler air duct.
- B. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
49-92-01-000-801-A	APU OIL-COOLER AIR DUCT - REMOVAL	AIRCRAFT EQUIPPED WITH APU T-62T-40C14
49-92-01-400-801-A	APU OIL-COOLER AIR DUCT - INSTALLATION	AIRCRAFT EQUIPPED WITH APU T-62T-40C14



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TASK 49-92-01-000-801-A

EFFECTIVITY: AIRCRAFT EQUIPPED WITH APU T-62T-40C14

2. APU OIL-COOLER AIR DUCT - REMOVAL

A. General

- (1) Obey these instructions to remove the APU oil-cooler air duct.

B. References

REFERENCE	DESIGNATION
AMM MPP 49-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 49-15-00-000-801-A/400	APU COWLING - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313		APU

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU

I. Preparation

SUBTASK 841-002-A

**WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 49-00-00/200 TO PREVENT INJURY TO THE PERSONS AND DAMAGE TO THE MATERIAL.**

- (1) On the circuit breaker panel, open the APU FUEL SOV circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) On the left power control and distribution box, open the APU GEN START circuit breaker and attach DO-NOT-CLOSE tag to it.



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- (3) Put the workstand under the aircraft tail cone.
- (4) Remove the APU cowling ( [AMM TASK 49-15-00-000-801-A/400](#)).

J. Removal ([Figure 401](#))

SUBTASK 020-002-A

EFFECTIVITY: ALL AIRCRAFT THAT DO NOT HAVE THE NEW SERIES 145-54858 APU COWLINGS INSTALLED

- (1) Remove the air inlet duct (11).
- (2) Remove the bolt (5) and the nut (4) and then release the clamp (7) from the bracket (1). Refer to DET. B of [Figure 401](#).
- (3) Remove the bolts (9), washers (3), and nuts (2) and then remove the oil-cooler air duct (8) and the flexible air-inlet duct (6) from the APU oil cooler (10).

K. Removal ([Figure 402](#))

SUBTASK 020-002-B

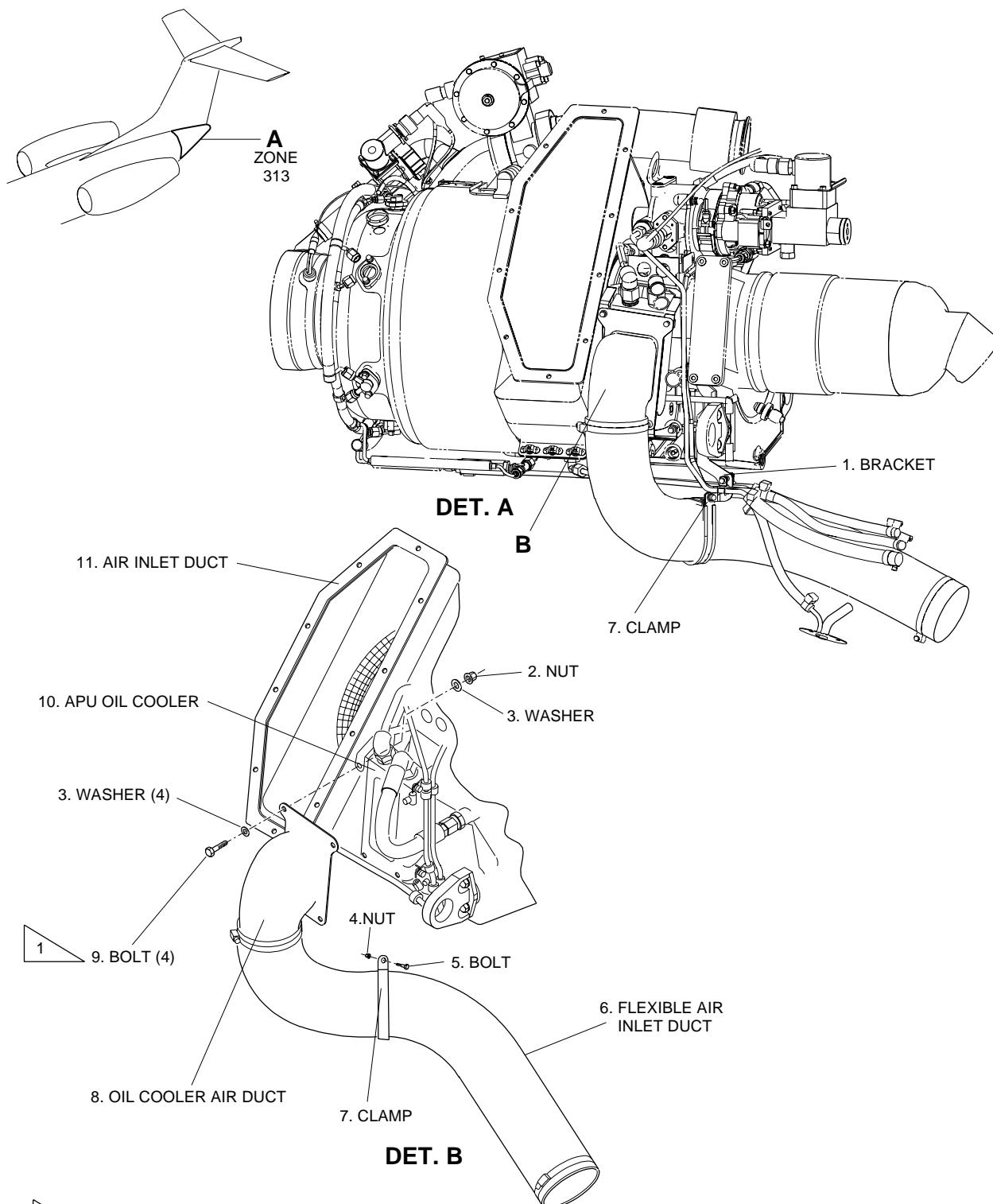
EFFECTIVITY: APU COWLING SERIES 145-54858

- (1) Remove the air inlet duct (10).
- (2) Remove the bolts (1), washers (4), and nuts (5) and then remove the oil cooler duct (2) and the bracket (9) from the air/oil cooler (3). Refer to DET. B of [Figure 402](#).
- (3) Remove the bolts (7) at the lower oil cooler bracket (8) and then remove the bracket (6) from the gearbox assembly.

**EFFECTIVITY: ALL AIRCRAFT THAT DO NOT HAVE THE NEW SERIES 145-54858 APU COWLING  
INSTALLED**

APU Oil-Cooler Air Duct - Removal/Installation

Figure 401



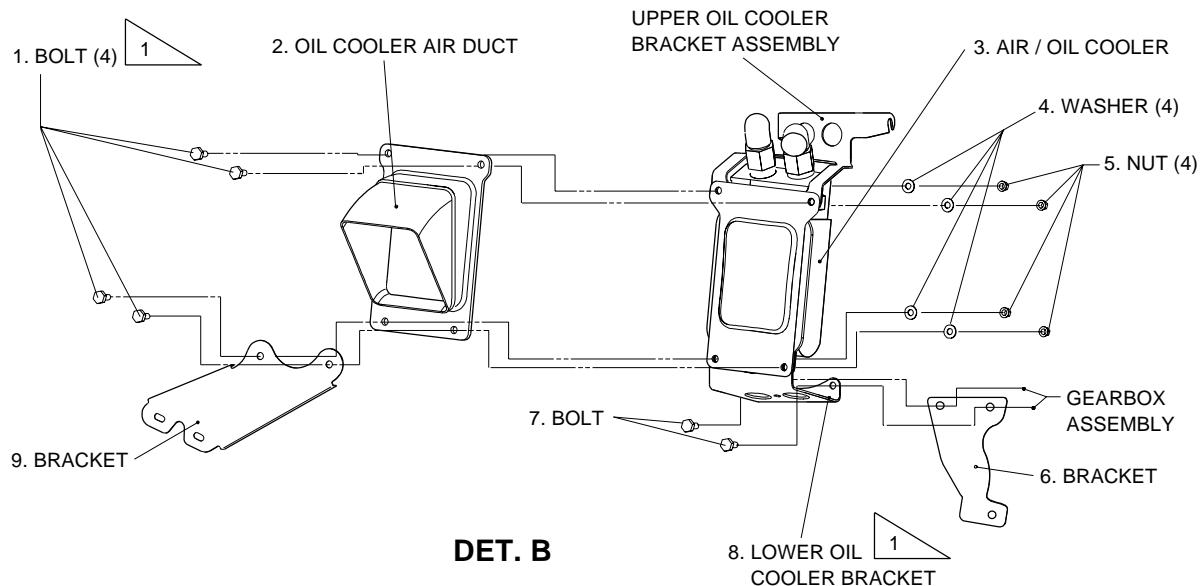
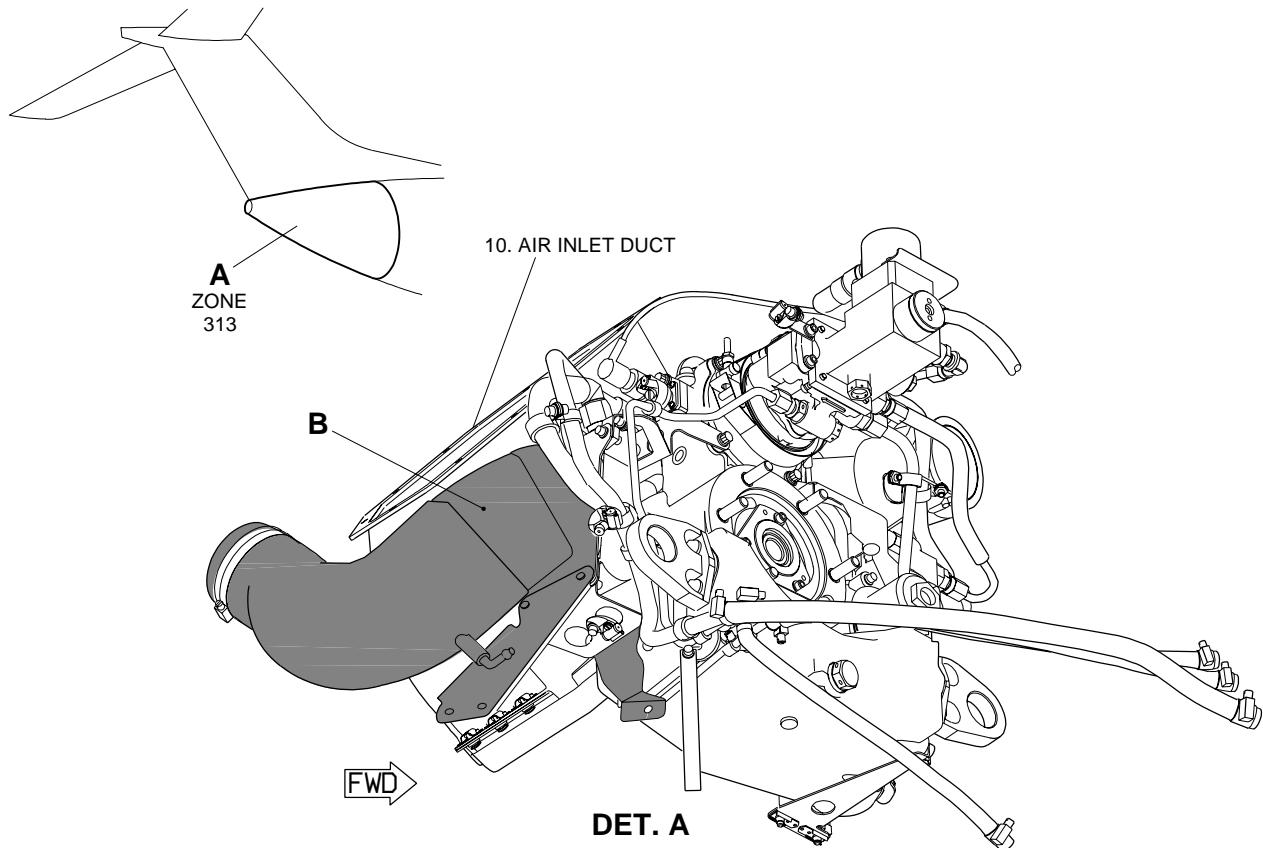
**1** TORQUE: 5.8 TO 6.3 N.m (51 TO 56 lb.in)

145AMM490315.MCE

**EFFECTIVITY: APU COWLING 145-54858 SERIES**

APU Oil-Cooler Air Duct - Removal/Installation

Figure 402



145AMM490316.MCE



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TASK 49-92-01-400-801-A

EFFECTIVITY: AIRCRAFT EQUIPPED WITH APU T-62T-40C14

3. APU OIL-COOLER AIR DUCT - INSTALLATION

A. General

- (1) Obey these instructions to install the APU oil-cooler air duct.

B. References

REFERENCE	DESIGNATION
AMM TASK 49-15-00-400-801-A/400	APU COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313		APU

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench	To torque the nuts	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Workstand	To get access to the work area	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	APU

I. Installation (Figure 401)

SUBTASK 420-002-A

EFFECTIVITY: ALL AIRCRAFT THAT DO NOT HAVE THE NEW SERIES 145-54858 APU COWLINGS INSTALLED

- (1) Install the oil-cooler air duct (8) and the flexible air-inlet duct (6) with the bolts (9), washers (3), and nuts (2) at the APU oil cooler (10). Refer to DET. B of (Figure 401).
- (2) Install the clamp (7) with the bolt (5) and nut (4) at the bracket (1).



- (3) Install the air inlet duct (11).

J. Installation (Figure 402)

*SUBTASK 420-002-B*

*EFFECTIVITY: APU COWLING SERIES 145-54858*

- (1) Install the oil cooler duct (2) and bracket (9) with the bolts (1), washers (4), and nuts (5) on the air/oil cooler (3). Refer to DET. B of (Figure 402).
- (2) Install the bracket (6) and the lower oil cooler bracket (8) with the bolts (7) at the gearbox assembly.
- (3) Install the air inlet duct (10).

K. Follow-on

*SUBTASK 842-002-A*

- (1) Install the APU cowling ( [AMM TASK 49-15-00-400-801-A/400](#)).
- (2) Remove the workstand from the work area.
- (3) On the circuit breaker panel, remove the DO-NOT-CLOSE tag and close the APU FUEL SOV circuit breaker.
- (4) On the left power control and distribution box, remove the DO-NOT-CLOSE tag and close the APU GEN START circuit breaker.

