



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

APU DRAIN SCAVENGE PUMP - REMOVAL/INSTALLATION

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

1. General

- A. This procedure gives the instructions to remove and install the APU drain scavenge pump.
- B. The APU drain scavenge pump is attached to the APU cowling.
- C. 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
49-19-02-000-801-A	APU DRAIN SCAVENGE PUMP - REMOV- AL	AIRCRAFT WITH APU DRAIN SCAVENGE PUMP
49-19-02-400-801-A	APU DRAIN SCAVENGE PUMP - INSTAL- LATION	AIRCRAFT WITH APU DRAIN SCAVENGE PUMP



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TASK 49-19-02-000-801-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

2. APU DRAIN SCAVENGE PUMP - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the APU drain scavenge pump.

B. References

REFERENCE	DESIGNATION
AMM MPP 49-02-00/200	- MAINTENANCE PRACTICES
AMM TASK 49-15-00-000-801-A/400	APU COWLING - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	APU Cowling	Aircraft tail cone

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	Aircraft tail cone

I. Preparation

SUBTASK 841-002-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 49-02-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.

- (1) On the circuit breaker panel, open this circuit breakers and attach a DO-NOT-CLOSE tag to it:
- APU FUEL SOV.



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- (2) On the left power control and distribution box, open the APU GEN START circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (3) Put the work stand below the aircraft tail cone.
- (4) Remove the APU cowling ([AMM TASK 49-15-00-000-801-A/400](#)).

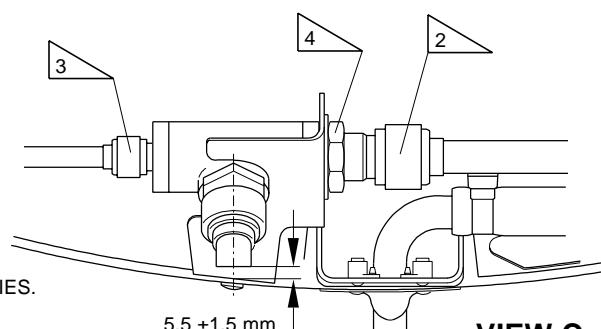
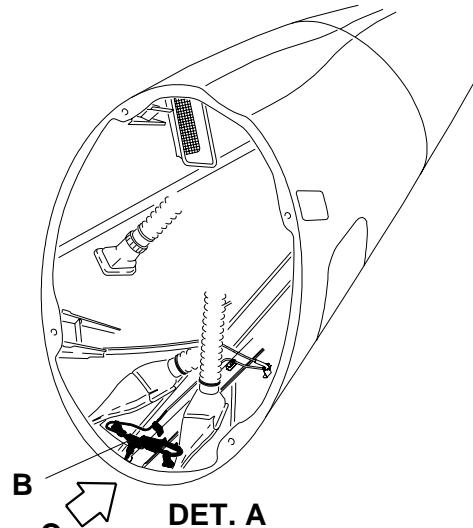
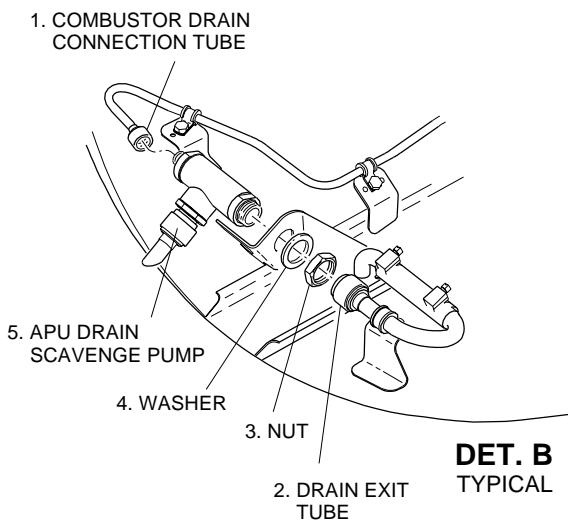
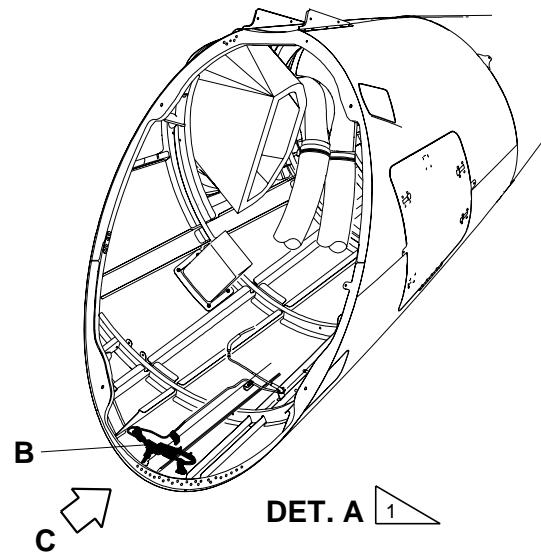
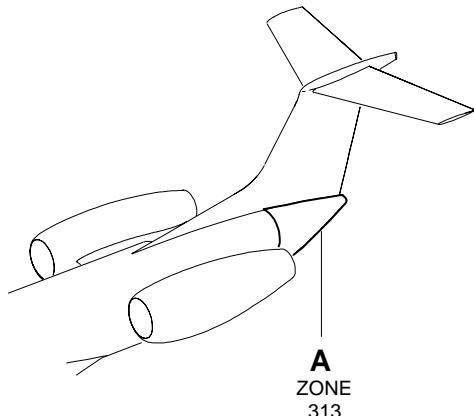
J. Removal ([Figure 401](#))

SUBTASK 020-002-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

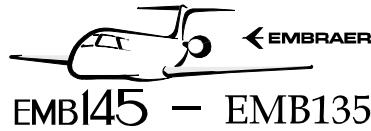
- (1) Loosen the torque and disconnect the drain exit tube (2) from the APU drain scavenge pump (5).
- (2) Loosen the torque and disconnect the combustor drain connection tube (1) from the APU drain scavenge pump (5).
- (3) Put protection caps on the disconnected parts.
- (4) Loosen the torque and remove the nut (3) and the washer (4).
- (5) Remove the APU drain scavenge pump (5) from the APU cowling.

EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C14
APU Drain Scavenge Pump - Removal/Installation
Figure 401



-  1 VALID FOR AIRCRAFT WITH APU COWLING 145-54858 SERIES.
-  2 TORQUE: 50.8 TO 56.5 N.m (450 TO 500 lb.in).
-  3 TORQUE: 15.2 TO 16.9 N.m (135 TO 150 lb.in).
-  4 TORQUE: 27.1 TO 31.6 N.m (240 TO 280 lb.in).

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TASK 49-19-02-400-801-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

3. APU DRAIN SCAVENGE PUMP - INSTALLATION

A. General

(1) This procedure gives the instructions to install the APU drain scavenge pump.

B. References

REFERENCE	DESIGNATION
AMM MPP 49-02-00/200	- MAINTENANCE PRACTICES
AMM TASK 49-15-00-400-801-A/400	APU COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313	APU Cowling	Aircraft tail cone

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

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MIL-L-23699D or MIL-L-7808K	Synthetic gas turbine oil	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Aircraft tail cone

I. Installation (Figure 401)

SUBTASK 420-002-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

WARNING: BEFORE YOU DO THE TASK, OBEY THE SAFETY PRECAUTIONS GIVEN IN AMM MPP 49-02-00/200 TO PREVENT INJURY TO PERSONS AND DAMAGE TO MATERIAL.



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CAUTION: MAKE SURE THAT THE APU DRAIN SCAVENGE PUMP INLET IS IN THE HORIZONTAL PLANE AND THAT THE GAP BETWEEN THE APU DRAIN SCAVENGE PUMP INLET AND THE APU COWLING SURFACE IS 5.5 ± 1.5 mm (0.22 ± 0.06 in).

- (1) Install the APU drain scavenge pump (5) to the APU cowling.
- (2) Lubricate the threads with the same oil as that used in the APU oil system and install the washer (4) and the nut (3). Tighten the torque.
- (3) Remove the protection caps from the disconnected parts. Make sure that the tubes are clean and not clogged.
- (4) Lubricate the threads with the same oil as that used in the APU oil system and connect the combustor drain connection tube (1) to the APU drain scavenge pump (5). Tighten the torque.
- (5) Lubricate the threads with the same oil as that used in the APU oil system and connect the drain exit tube (2) to the APU drain scavenge pump (5). Tighten the torque.

J. Follow-on

SUBTASK 842-002-A

EFFECTIVITY: AIRCRAFT WITH APU DRAIN SCAVENGE PUMP

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