



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

APU COWLING - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C11

1. General

- A. This section gives the procedures to remove/install the APU cowling.
- B. The APU cowling attaches to the tail cone, under the airplane empennage.
- 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
49-11-00-000-801-A	APU COWLING - REMOVAL	AIRCRAFT WITH APU T-62T-40C11
49-11-00-400-801-A	APU COWLING - INSTALLATION	AIRCRAFT WITH APU T-62T-40C11



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TASK 49-11-00-000-801-A

EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C11

2. APU COWLING - REMOVAL

A. General

(1) This task gives the necessary instructions to remove the APU cowling.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM MPP 49-00-00/200	- MAINTENANCE PRACTICES
AMM TASK 53-32-00-000-801-A/400	TAIL CONE - REMOVAL

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313		APU cowling
313	313CL	APU cowling
313	313AL	APU cowling
313	313BL	APU cowling
313	313DR	APU cowling
313	313GR	APU cowling

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

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 these circuit breakers and attach DO-NOT-CLOSE tags to them:
 - APU FUEL SOV.
- (2) On the left power control and distribution box, open the APU GEN START circuit breaker and attach DO-NOT-CLOSE tag to it.
- (3) Put the workstand below the aircraft tail cone.
- (4) For aircraft with the APU exhaust silencer installed, remove the tail cone (1) ([AMM TASK 53-32-00-000-801-A/400](#)).

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

SUBTASK 020-002-A

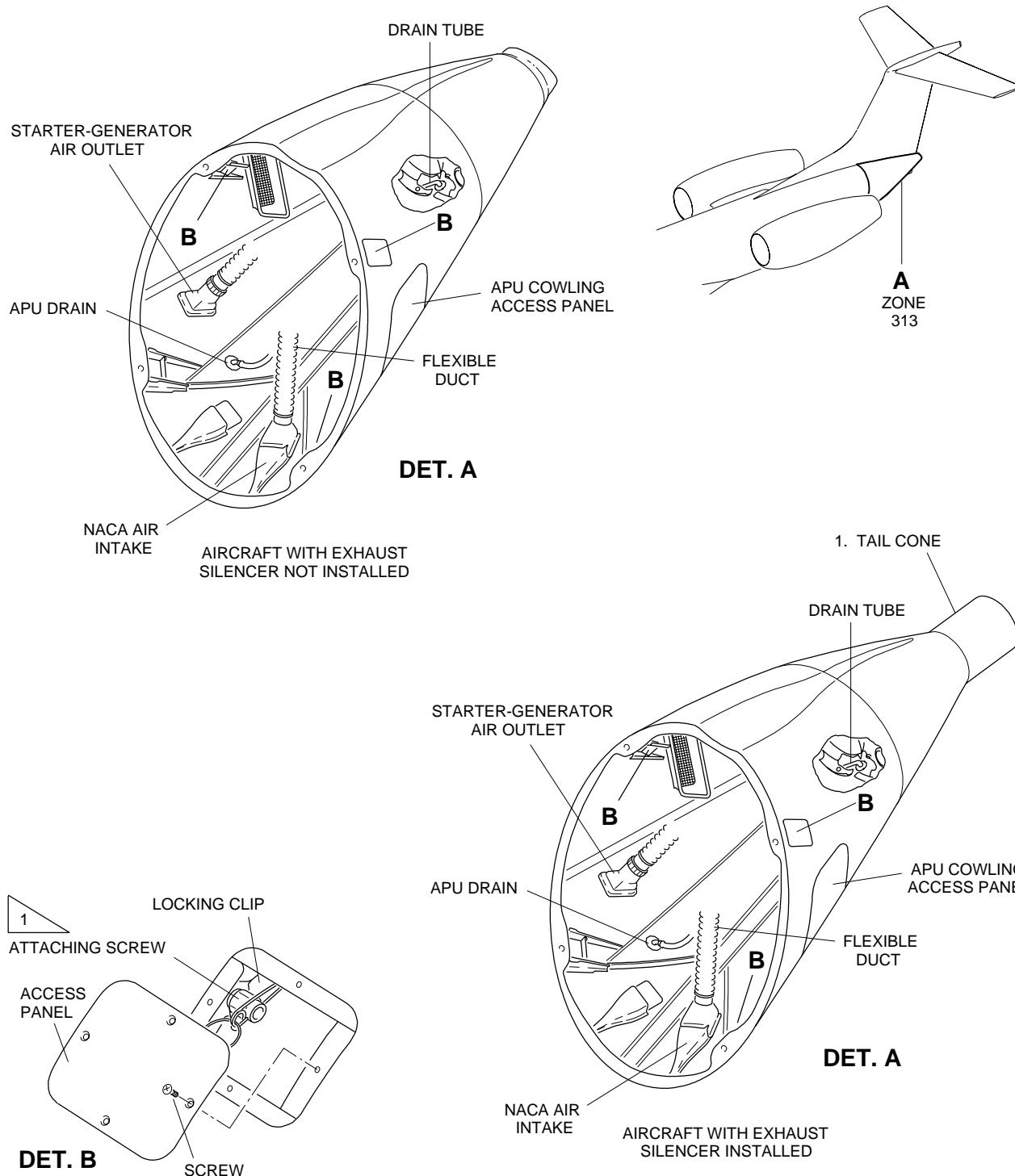
NOTE: For this procedure, the rudder must be out of its neutral position.

- (1) Open APU-cowling access panel 313CL (AMM MPP 06-42-00/100).
- (2) On the NACA air intake, loosen the clamp which attaches the vent flexible duct.
- (3) Remove the external screws that attach the APU drain.
- (4) Remove the external screws that attach the starter-generator cooling-air outlet.
- (5) Remove access panels 313AL, 313BL, 313DR and 313GR (AMM MPP 06-42-00/100).
- (6) Remove the locking clips from the four screws which attach the cowling.
- (7) Manually hold the cowling and remove its four screws.
- (8) Remove the APU cowling.
- (9) Put caps on the starter-generator air intake, outlet ducts, power-plant air intake, and exhaust gas duct.

EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C11

APU Cowling - Removal/Installation

Figure 401



 **TORQUE:** 11.3 TO 15.8 N.m (100 TO 140 lb.in)

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TASK 49-11-00-400-801-A

EFFECTIVITY: AIRCRAFT WITH APU T-62T-40C11

3. APU COWLING - INSTALLATION

A. General

(1) This task gives the necessary instructions to install the APU cowling.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-42-00/100	-
AMM TASK 49-17-00-100-801-A/700	APU DRAIN LINES - CLEANING
AMM TASK 53-32-00-400-801-A/400	TAIL CONE - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
313		APU cowling
313	313CL	APU cowling
313	313AL	APU cowling
313	313BL	APU cowling
313	313DR	APU cowling
313	313GR	APU cowling

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque Wrench	To tighten the attaching screws	

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. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Clean the APU drain lines ([AMM TASK 49-17-00-100-801-A/700](#)).
- (2) Remove the caps from the ducts, and make sure that the ducts are clean and not clogged.
- (3) **NOTE:** The aft fuselage has four dowels, which partially hold the cowling during its installation.
Put the APU cowling on the tail cone and manually hold the cowling.
- (4) Install the four screws which attach the cowling. Torque the screws to the values given in Figure 401.
- (5) Install locking clips on the screws.

CAUTION: IF THESE TOLERANCES ARE NOT OBEYED, THE APU CAN HAVE A SHUTDOWN CAUSED BY HIGH OIL TEMPERATURE.

- (6) Make sure that:

- (a) The gap between the cowling skin and fuselage skin are 1.5 ± 1.0 mm on 80% of the cowling perimeter and until 3.0 mm on 20% of cowling perimeter.
- (b) The step between the cowling skin and fuselage skin are ± 1.0 mm on 80% of the cowling perimeter and ± 1.5 mm on 20% of cowling perimeter.
- (7) Install access panels 313AL, 313BL, 313DR and 313GR (AMM MPP 06-42-00/100).
- (8) Put the vent flexible duct in position and install the attaching clamp on the NACA air intake.
- (9) Put the starter-generator air outlet in position and install the attaching screws.
- (10) Put the APU drain in position and install the attaching screws.
- (11) Install APU-cowling access panel 313CL (AMM MPP 06-42-00/100).

J. Follow-on

SUBTASK 842-002-A

- (1) For aircraft with the APU exhaust silencer, install the APU tail cone (1) ([AMM TASK 53-32-00-400-801-A/400](#)).
- (2) Remove the workstand.
- (3) Remove the DO-NOT-CLOSE tags and close these circuit breakers.
 - 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.