



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

GENERATOR DUCT ASSEMBLY - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove/install the generator duct assembly.
- B. You can get access to the left generator ducts through lower cowling 413.
- C. You can get access to the right generator ducts through lower cowling 423.
- D. 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
24-31-04-000-801-A	GENERATOR DUCT ASSEMBLY - RE- MOVAL	ALL
24-31-04-400-801-A	GENERATOR DUCT ASSEMBLY - IN- STALLATION	ALL



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TASK 24-31-04-000-801-A

EFFECTIVITY: ALL

2. GENERATOR DUCT ASSEMBLY - REMOVAL

A. General

- (1) This task gives the procedure to remove the generator duct assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-000-801-A/400	ENGINE LOWER COWLING - OPENING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	413 - LH Lower cooling	LH Engine
423	423 - RH Lower cooling	RH Engine

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engines

I. Preparation

SUBTASK 841-002-A

WARNING: DO NOT OPERATE THE APU AND ENGINES.

- (1) Make sure that the GPU pushbutton, on the electrical panel, on the overhead panel, is set at OFF (the striped bar is off).
- (2) Attach a DO-NOT-SET-ON tag to the GPU pushbutton.
- (3) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, are set at OFF.
- (4) Attach a DO-NOT-SET-AUTO tag to the BATT 1 and BATT 2 switches.



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- (5) Open LH lower cowling 413 ([AMM TASK 71-12-01-000-801-A/400](#)) to remove the left generator duct assembly.
- (6) Open RH lower cowling 423 ([AMM TASK 71-12-01-000-801-A/400](#)) to remove the right generator duct assembly.

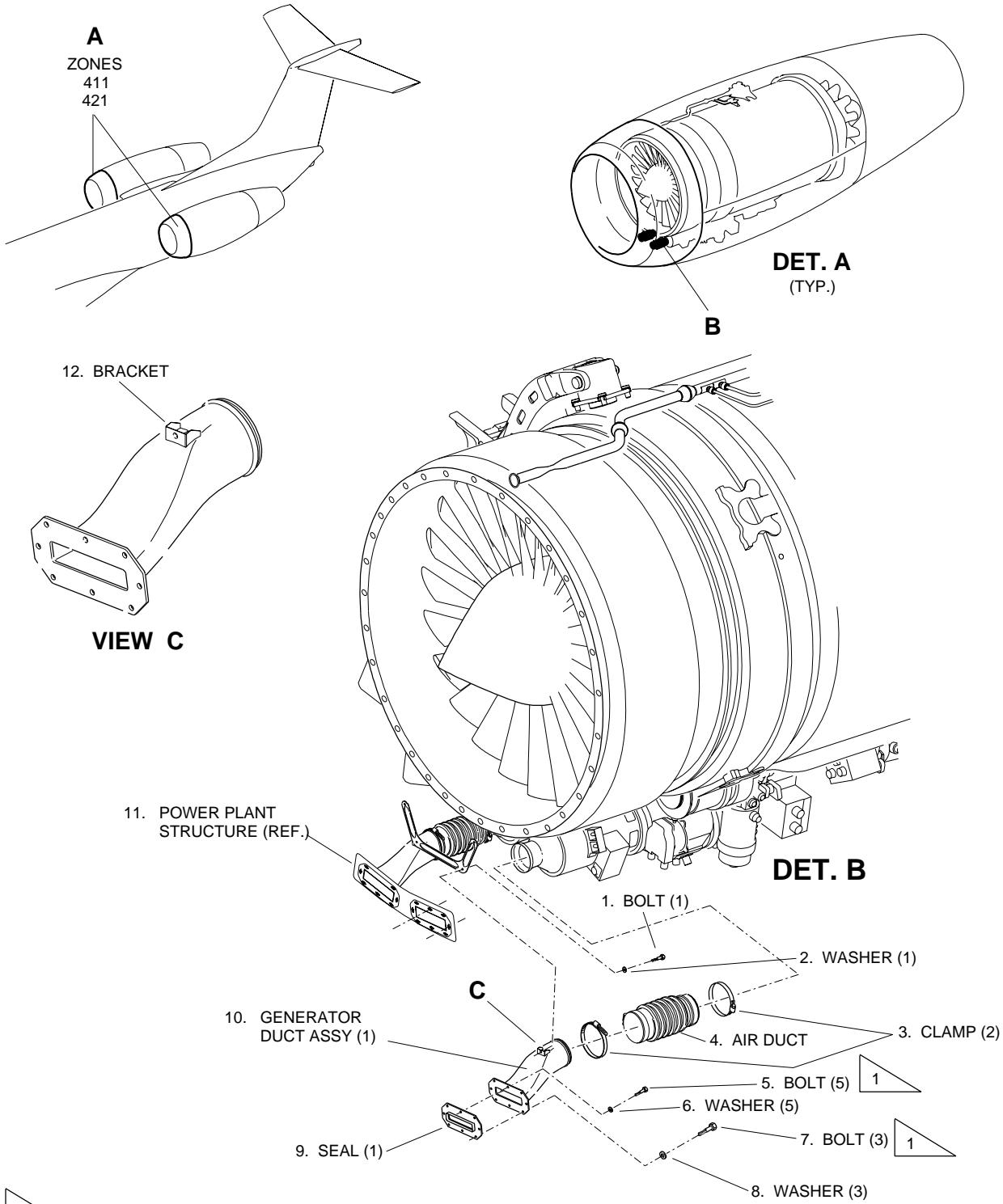
J. Removal ([Figure 401](#))

SUBTASK 020-002-A

- (1) Remove the bolt (1) and washer (2) which attach the bracket (12) of the generator duct (10) to the power plant structure (11).
- (2) Loosen the clamp (3) which attaches the air duct (4) to the generator duct (10).
- (3) Loosen the clamp (3) which attaches the air duct (4) to the main generator.
- (4) Disconnect the air duct (4).
- (5) Remove the five bolts (5), three bolts (7), five washers (6) and three washers (8) which attach the seal (9) and the generator duct (10) to the power plant structure (11).
- (6) Remove the seal (9).
- (7) Disconnect the generator duct (10).

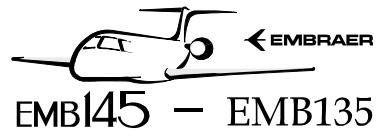
EFFECTIVITY: ALL

Generator Duct Assembly - Removal/Installation
Figure 401



APPLY TORQUE 3.95 N.m (35lb.in)

145AMM240308.MCE



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TASK 24-31-04-400-801-A

EFFECTIVITY: ALL

3. GENERATOR DUCT ASSEMBLY - INSTALLATION

A. General

- (1) This task gives the procedure to install the duct generator assembly.

B. References

REFERENCE	DESIGNATION
AMM TASK 71-12-01-400-801-A/400	ENGINE LOWER COWLING - CLOSING
IPC 54-00-00	NACELLES / PYLONS

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
413	413 - LH Lower cowling	LH Engine
423	423 - RH Lower cowling	RH Engine

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	Torque wrench (For the torque range, refer to Figure 401)	To torque the fasteners correctly	

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Engines

I. Installation (Figure 401)

SUBTASK 420-002-A

- WARNING:**
- **MAKE SURE THAT THE GPU PUSHBUTTON AND THE BATT 1 AND BATT 2 SWITCHES, ON THE ELECTRICAL PANEL, ON THE OVERHEAD PANEL, ARE SET AT OFF.**
 - **MAKE SURE THAT THE APU AND ENGINES ARE NOT IN OPERATION.**



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CAUTION: MAKE SURE THAT THE TORQUE VALUE IS APPLIED CORRECTLY.
INCORRECT INSTALLATION WILL CAUSE IMPORTANT PROBLEMS TO THE AIRCRAFT.

- (1) Tighten the five bolts (5), three bolts (7), five washers (6) and three washers (8) which attach the seal (9) and generator duct (10) to the power plant structure (11).

NOTE: If the bolts are to be replaced, make sure that the new bolts obey the specified length accurately (IPC 54-00-00).

- (2) Tighten the bolt (1) and washer (2) which attach the bracket (12) of the generator duct (10) to the power plant structure (11).
- (3) Connect the air duct (4) to the main generator.
- (4) Connect the air duct (4) to the generator duct (10).
- (5) Tighten the clamp (3) which attaches the air duct (4) to the main generator.
- (6) Tighten the clamp (3) which attaches the air duct (4) to the generator duct (10).

J. Follow-on

SUBTASK 842-002-A

- (1) Close LH lower cowling 413 or RH lower cowling 423 ([AMM TASK 71-12-01-400-801-A/400](#)) as applicable.
- (2) Remove the DO-NOT-SET-ON tag from the GPU pushbutton.
- (3) Remove the DO-NOT-SET-AUTO tag from the BATT 1 and BATT 2 switches.