

ENGINE ANTI-ICING DUCT - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to do an inspection on the engine anti-icing duct.
- B. These procedures are applicable to the LH and RH engines.
- 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
30-21-05-200-801-A	ENGINE ANTI-ICING DUCT - DETAILED INSPECTION	ALL
30-21-05-200-802-A	ENGINE ANTI-ICING DUCT - BORESCOP- IC INSPECTION	ALL

TASK 30-21-05-200-801-A

EFFECTIVITY: ALL

2. ENGINE ANTI-ICING DUCT - DETAILED INSPECTION

A. General

(1) This procedure gives the instructions to do an inspection of the engine anti-icing duct.

B. References

REFERENCE	DESIGNATION
AMM TASK 30-21-01-000-801-A/400	ANTI-ICING VALVE - REMOVAL
AMM TASK 30-21-01-400-801-A/400	ANTI-ICING VALVE - INSTALLATION
AMM TASK 30-21-05-000-801-A/400	ENGINE ANTI-ICING DUCT - REMOVAL
AMM TASK 30-21-05-400-801-A/400	ENGINE ANTI-ICING DUCT - INSTALLATION
AMM TASK 71-11-01-000-801-A/400	ENGINE UPPER COWLING - REMOVAL
AMM TASK 71-11-01-400-801-A/400	ENGINE UPPER COWLING - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412AT	Upper cowling of the LH powerplant
422	422AT	Upper cowling of the RH powerplant

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	LH or RH powerplant

I. Preparation

SUBTASK 841-002-A

- (1) Remove the upper cowling to get access to the duct ([AMM TASK 71-11-01-000-801-A/400](#)).
- (2) Remove the engine anti-icing valve ([AMM TASK 30-21-01-000-801-A/400](#)).
- (3) Remove the engine anti-icing duct ([AMM TASK 30-21-05-000-801-A/400](#)).

J. Detailed Inspection of the Engine Anti-Icing Duct ([Figure 601](#))

SUBTASK 220-002-A

- (1) Do a special detailed inspection along the duct up to the Venturi tube.
 - (a) Make sure that:
Result:
 - 1 There is no piece of the broken valve or debris in the duct.
 - 2 The duct is not clogged.
 - (b) If you find debris in the engine anti-icing duct, remove debris from the duct.

K. Follow-on

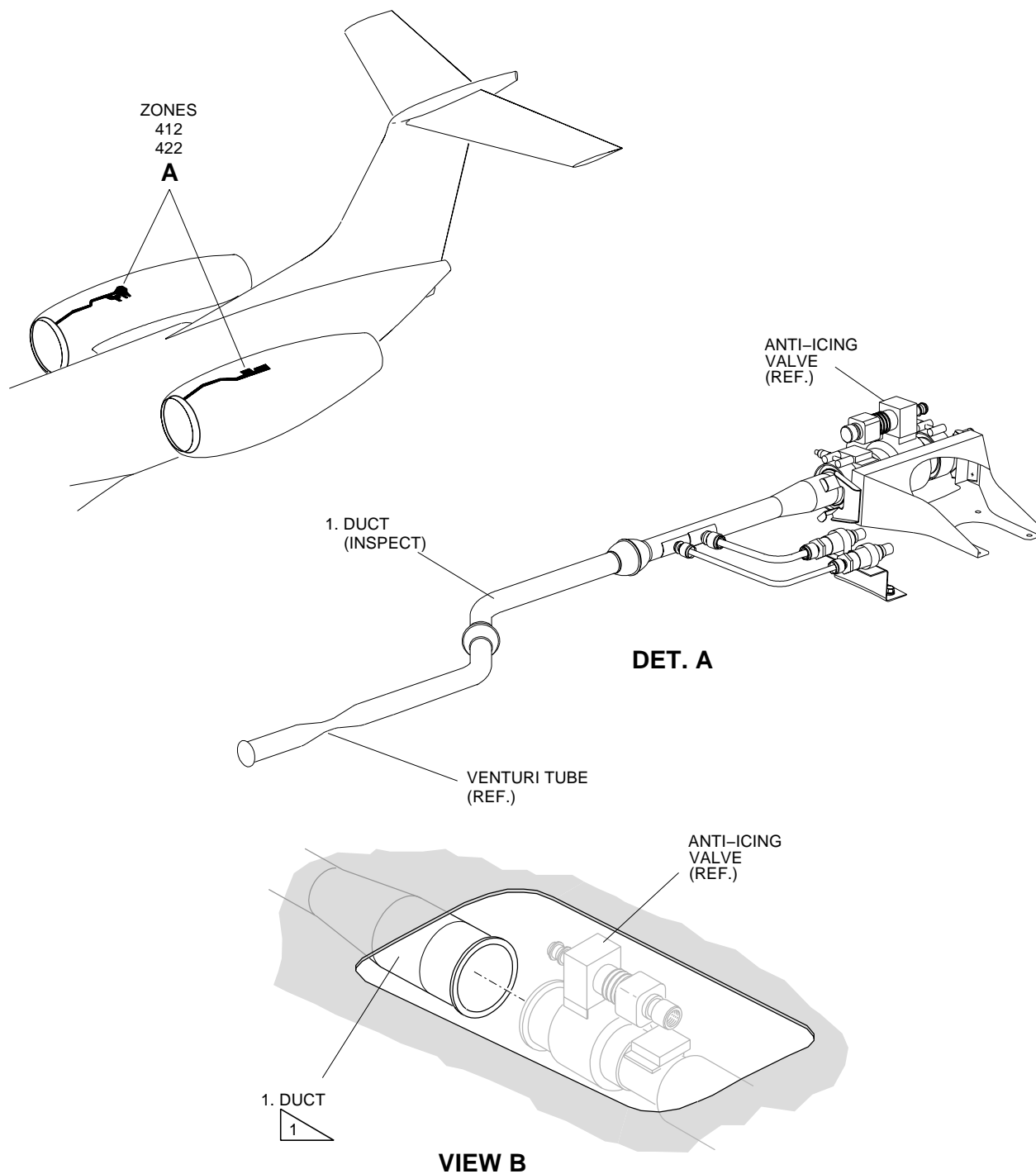
SUBTASK 842-002-A

- (1) Install the engine anti-icing duct back ([AMM TASK 30-21-05-400-801-A/400](#)).
- (2) Install the engine anti-icing valve back ([AMM TASK 30-21-01-400-801-A/400](#)).
- (3) Install the upper cowling back ([AMM TASK 71-11-01-400-801-A/400](#)).
- (4) Make sure that you did not let tools stay in the work area and that all parts are correctly installed.

EFFECTIVITY: ALL

Engine Anti-Icing Duct - Inspection

Figure 601



1 MAKE SURE THAT THE ANTI-ICING SYSTEM TUBES ARE FREE OF DEBRIS.

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TASK 30-21-05-200-802-A

EFFECTIVITY: ALL

3. ENGINE ANTI-ICING DUCT - BORESCOPIC INSPECTION

A. General

- (1) This procedure gives the instructions to do an inspection of the engine anti-icing duct with a borescope.

B. References

REFERENCE	DESIGNATION
AMM 06-43-01/101	-
AMM TASK 30-21-01-000-801-A/400	ANTI-ICING VALVE - REMOVAL
AMM TASK 30-21-01-400-801-A/400	ANTI-ICING VALVE - INSTALLATION
AMM TASK 30-21-05-000-801-A/400	ENGINE ANTI-ICING DUCT - REMOVAL
AMM TASK 30-21-05-400-801-A/400	ENGINE ANTI-ICING DUCT - INSTALLATION

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
412	412AT	Upper cowling of the LH powerplant
422	412AT	Upper cowling of the RH powerplant

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	A - Does the task	LH or RH powerplant
1	B - Helps technician A	LH or RH powerplant

I. Preparation

SUBTASK 841-003-A

- (1) Open access panel 412AT or 422AT (AMM 06-43-01/101).
- (2) Remove the engine anti-icing valve ([AMM TASK 30-21-01-000-801-A/400](#)).

J. Borescopic Inspection of the Engine Anti-Icing Duct (Figure 601)

SUBTASK 290-002-A

- (1) Put the borescopic probe in the duct.
- (2) Do a special detailed borescopic inspection along the duct up to the Venturi tube.
NOTE: Make sure that you can see all cross section of duct during the period of the duct inspection. You must move the borescope slowly to do the inspection.
- (a) Make sure that:
Result:
 - 1 There is no piece of the broken valve or debris in the duct.
 - 2 The duct is not clogged.
- (b) If you find debris in the engine anti-icing duct, do as follows:
Result:
 - 1 Remove the duct as given in [AMM TASK 30-21-05-000-801-A/400](#).
 - 2 Remove debris from the duct.
 - 3 Install the duct as given in [AMM TASK 30-21-05-400-801-A/400](#)

K. Follow-on

SUBTASK 842-003-A

- (1) Install the engine anti-icing valve back ([AMM TASK 30-21-01-400-801-A/400](#)).
- (2) Close access panel 412AT or 422AT (AMM 06-43-01/101).
NOTE: Make sure that you did not let tools stay in the work area and that all parts are correctly installed.