



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

ICE DETECTOR - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the ice detectors.
- B. These procedures are applicable to the 1 and 2 ice detectors.
- C. The ice detector 1 is installed on the skin of the forward fuselage, on the LH side of the cockpit.
- D. The ice detector 2 is installed on the skin of the forward fuselage, on the RH side of the cockpit.
- E. 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
30-80-01-000-801-A	ICE DETECTOR - REMOVAL	ALL
30-80-01-400-801-A	ICE DETECTOR - INSTALLATION	ALL



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TASK 30-80-01-000-801-A

EFFECTIVITY: ALL

2. ICE DETECTOR - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the ice detector.

B. References

REFERENCE	DESIGNATION
AMM SDS 24-60-00/1	

C. Zones and Accesses

Not Applicable

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	RH or LH forward fuselage skin (cockpit zone)

I. Preparation

SUBTASK 841-002-A

- (1) Open the circuit breakers below and attach a DO-NOT-CLOSE tag to them:

- ICE DETECTOR 1, on the LH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#)).
- ICE DETECTOR 2, on the RH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#)).
- ICE DETECTOR 1 and ICE DETECTOR 2, on the overhead Circuit Breaker Panel.  
DET 1: (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/DET 1).  
DET 2: (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/DET 2).



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

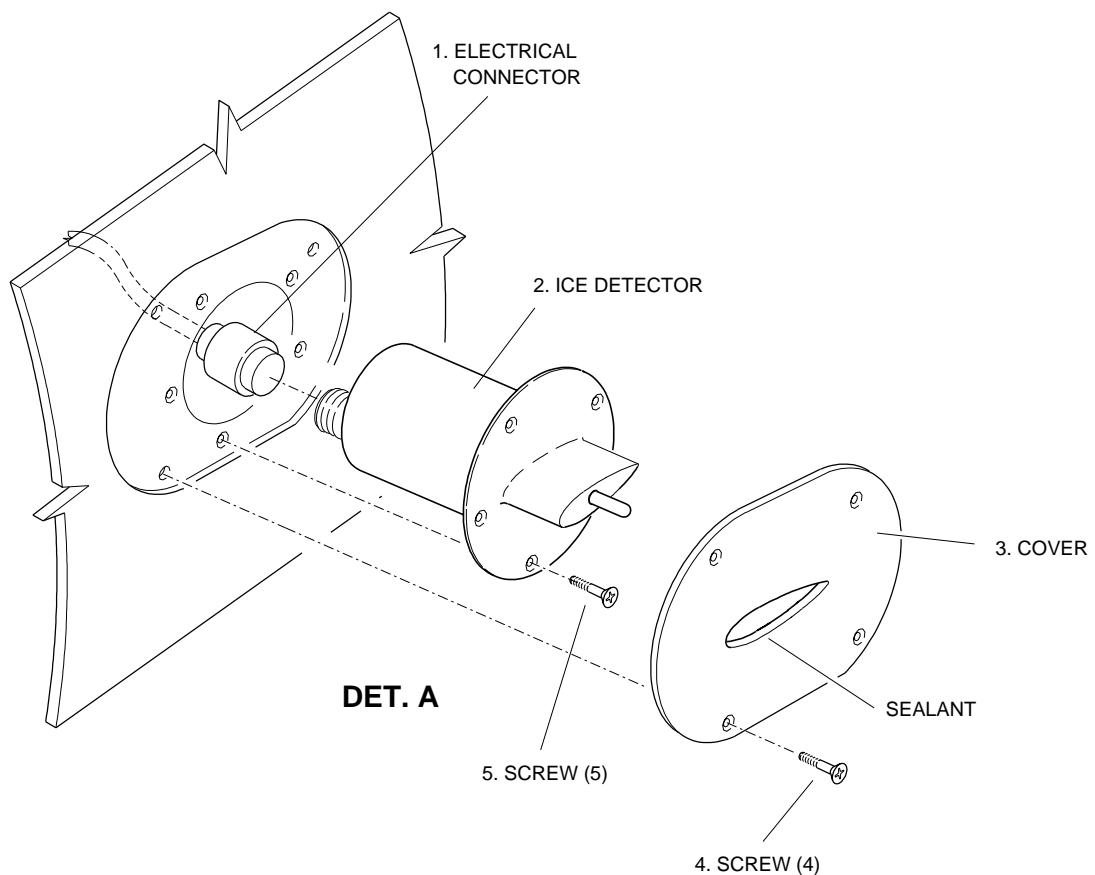
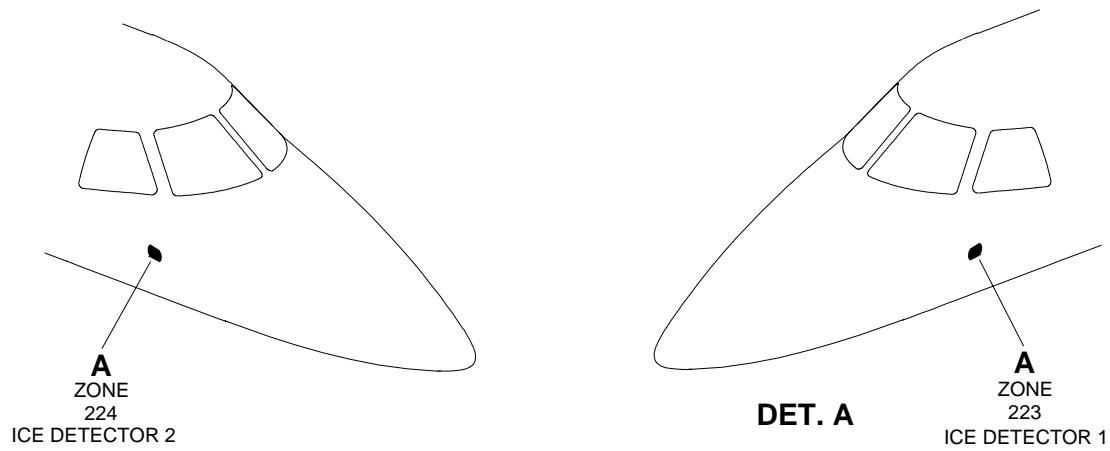
#### SUBTASK 020-002-A

- (1) Remove the four screws (4) and remove the cover (3).
- (2) Remove the five screws (5) and pull the ice detector (2).
- (3) Disconnect the electrical connector (1).
- (4) Remove the ice detector (2).

**EFFECTIVITY: ALL**

Ice Detector - Removal/Installation

Figure 401



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TASK 30-80-01-400-801-A

EFFECTIVITY: ALL

3. ICE DETECTOR - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the ice detector.

B. References

REFERENCE	DESIGNATION
AMM SDS 24-60-00/1	
AMM TASK 30-80-00-700-801-A/500	ICE DETECTION SYSTEM - OPERATIONAL TEST
SRM 51-20-01	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
MOLYKOTE DC-33 LIGHT	Silicone grease	AR
MIL-S-8802, Type II, Class B2	Sealant	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	RH or LH forward fuselage skin (cockpit zone)

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Connect the electrical connector (1) to the ice detector (2).
- (2) Put the ice detector (2) in its installation position on the skin and install the five screws (5).
- (3) Apply a thin coat of grease along the contour of the center opening of the cover (3).
- (4) Position the cover (3) on the ice detector (2) and install the four screws (4).



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J. Follow-on

SUBTASK 842-002-A

- (1) Close the circuit breakers below and remove the DO-NOT-CLOSE tags from them:
  - ICE DETECTOR 1 and ICE DETECTOR 2, on the overhead Circuit Breaker Panel.  
DET 1: (Location tip: DC BUS 1/ICE AND RAIN PROTECTION/DET 1).  
DET 2: (Location tip: DC BUS 2/ICE AND RAIN PROTECTION/DET 2).
  - ICE DETECTOR 1, on the LH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#)).
  - ICE DETECTOR 2, on the RH electrical-power control/distribution box ([AMM SDS 24-60-00/1](#)).
- (2) Do an operational test of the ice detection system ([AMM TASK 30-80-00-700-801-A/500](#)).
- (3) Apply sealant to the interface between the contour of the center opening of the cover (3) and the ice detector (2), as necessary (SRM 51-20-01).