



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

DUAL IRS - FAN - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedure to remove/install the IRS fan.
- B. The IRS 1 fan is installed on the left side of the electronic compartment.
- C. The IRS 2 fan is installed on the right side of the electronic compartment.
- D. The access to the IRS 1 fan and IRS 2 fan is got through 113CZ access panel in the electronic compartment.
- 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
34-27-03-000-801-A	IRS FAN - REMOVAL	ALL
34-27-03-400-801-A	IRS FAN - INSTALLATION	ALL



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TASK 34-27-03-000-801-A

EFFECTIVITY: ALL

2. IRS FAN - REMOVAL

A. General

- (1) This task gives the procedure to remove the IRS fan.
- (2) The IRS fans are installed on the related IRS mounting racks.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 29-10-00-860-802-A/200	HYDRAULIC SYSTEM - PRESSURIZATION WITH EMDP
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 34-27-01-000-801-A/400	IRU - REMOVAL
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	LH Electronic Compartment
214	113CZ	RH Electronic Compartment

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	Electronic Compartment

I. Preparation

SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the IRS 1 and/or IRS 2 circuit breakers and attach a DO-NOT-CLOSE tag to them.



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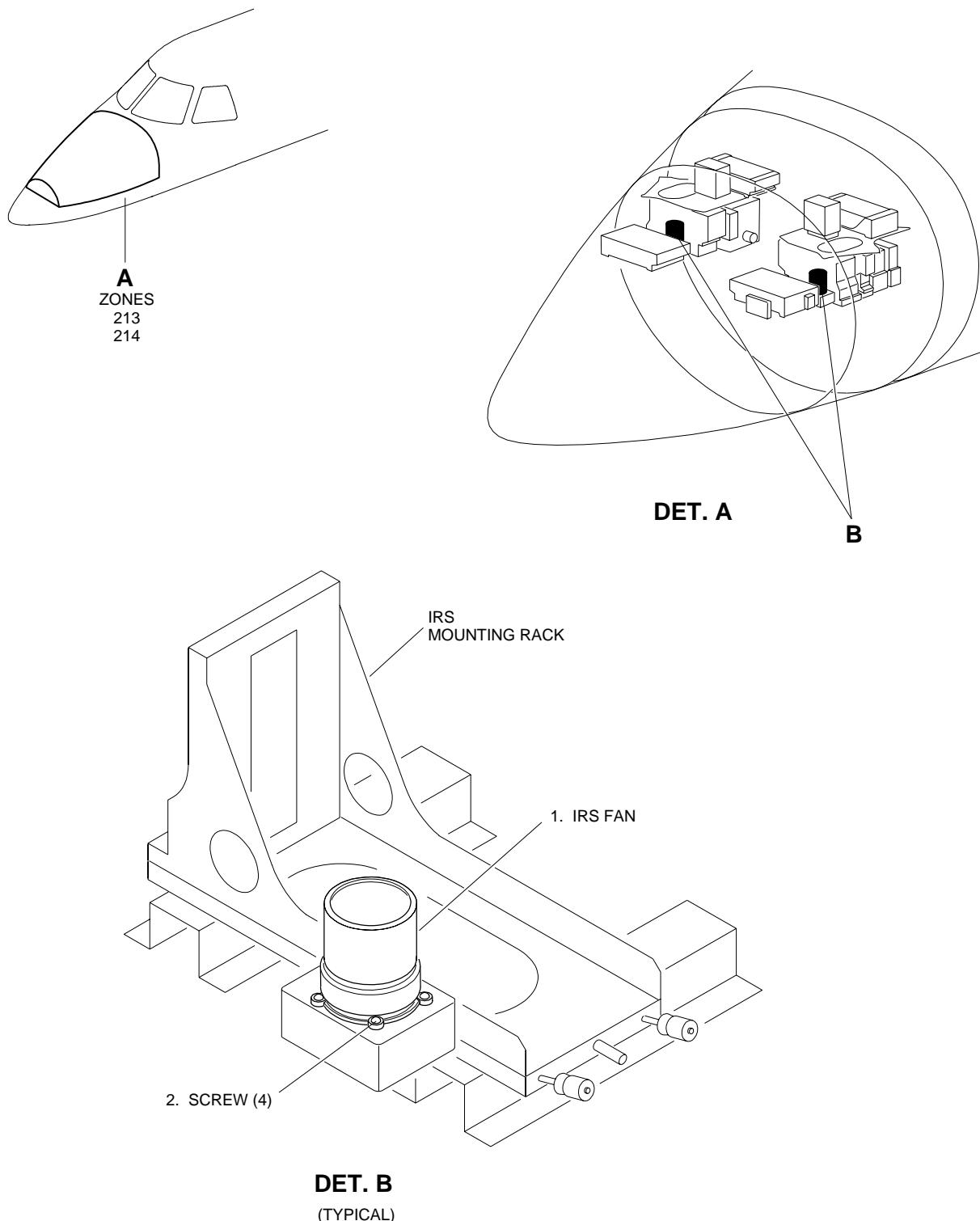
- (2) On aircraft PRE-MOD [SB145-32-0036](#), make sure that the pressure in hydraulic system 1 is fully released ([AMM TASK 29-10-00-860-802-A/200](#)).
- (3) On aircraft POST-MOD [SB145-32-0036](#), install the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (4) Open access door 113CZ (AMM MPP 06-41-01/100).
- (5) Remove IRS 1 and/or IRS 2 ([AMM TASK 34-27-01-000-801-A/400](#)).

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

SUBTASK 020-002-A

- (1) Remove the fan filter (Pull the tab to disconnect the filter from the fan).
- (2) Disconnect the two wires (one red and one black) that come out of the fan housing.
- (3) Turn the rim clamps until the flat edge of each clamp points to the fan.
- (4) Disconnect the fan from the mounting plate.

EFFECTIVITY: ALL
 IRS Fan - Removal/Installation
 Figure 401



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TASK 34-27-03-400-801-A

EFFECTIVITY: ALL

3. IRS FAN - INSTALLATION

A. General

- (1) This task gives the procedure to install the IRS Fan.
- (2) The IRS fans are installed on the related IRS mounting racks.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
AMM TASK 34-21-01-400-801-A/400	AHRS COMPUTER - INSTALLATION
AMM TASK 34-27-03-700-801-A/500	IRS FAN - OPERATIONAL TEST
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
213	113CZ	LH Electronic Compartment
214	113CZ	RH Electronic Compartment

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	Electronic Compartment

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Put the fan in position on the mounting tray. Make sure that the AIRFLOW arrow on the fan points down.



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- (2) Attach the fan to the base of the tray with three rim clamps. Make sure that the flat edge of the rim clamp points away from the fan.
- (3) Connect the red wire to a 28 V DC source.
- (4) Connect the black wire to the ground source.

J. Follow-on

SUBTASK 842-002-A

- (1) Install IRS 1 and/or IRS 2 ([AMM TASK 34-21-01-400-801-A/400](#)).
- (2) Close access panel 113CZ (AMM MPP 06-41-01/100).
- (3) On aircraft POST-MOD [SB145-32-0036](#), remove the safety pin of the NLG door solenoid valve ([AMM TASK 32-00-02-910-801-A/200](#)).
- (4) On the circuit breaker panel, close the IRS 1 and/or IRS 2 circuit breakers and remove the DO-NOT-CLOSE tag from them.
- (5) Do the IRS fan operational test ([AMM TASK 34-27-03-700-801-A/500](#)).