



EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

FLUX DETECTOR UNIT - REMOVAL/INSTALLATION

EFFECTIVITY: AIRCRAFT WITH AHRS AH-800

1. General

- A. This section gives the procedures to remove and install the flux detector units (FDU) of the AHRS system.
- B. These procedures are applicable to the flux detector units (FDU) 1 and 2.
- C. The flux detector unit (FDU) 1 is installed in the LH wing tip and the flux detector unit (FDU) 2 is installed in the RH wing tip.
- 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
34-21-02-000-801-A	FLUX DETECTOR UNIT (FDU) - REMOVAL	AIRCRAFT WITH AHRS AH-800
34-21-02-400-801-A	FLUX DETECTOR UNIT (FDU) - INSTALLATION	AIRCRAFT WITH AHRS AH-800



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TASK 34-21-02-000-801-A

EFFECTIVITY: AIRCRAFT WITH AHRS AH-800

2. FLUX DETECTOR UNIT (FDU) - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the flux detector unit (FDU).

B. References

REFERENCE	DESIGNATION
AMM TASK 57-30-00-000-801-A/400	WING TIP - REMOVAL

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	LH or RH Wing Tip

I. Preparation

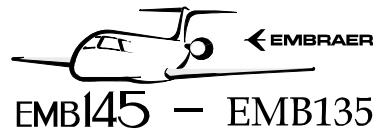
SUBTASK 841-002-A

- (1) On the Circuit Breaker Panel, open the two AHRS1 and the two AHRS2 circuit breakers and attach a DO-NOT-CLOSE tag to them.
- (2) Remove the wing tip ([AMM TASK 57-30-00-000-801-A/400](#)).

J. Removal (Figure 401)

SUBTASK 020-002-A

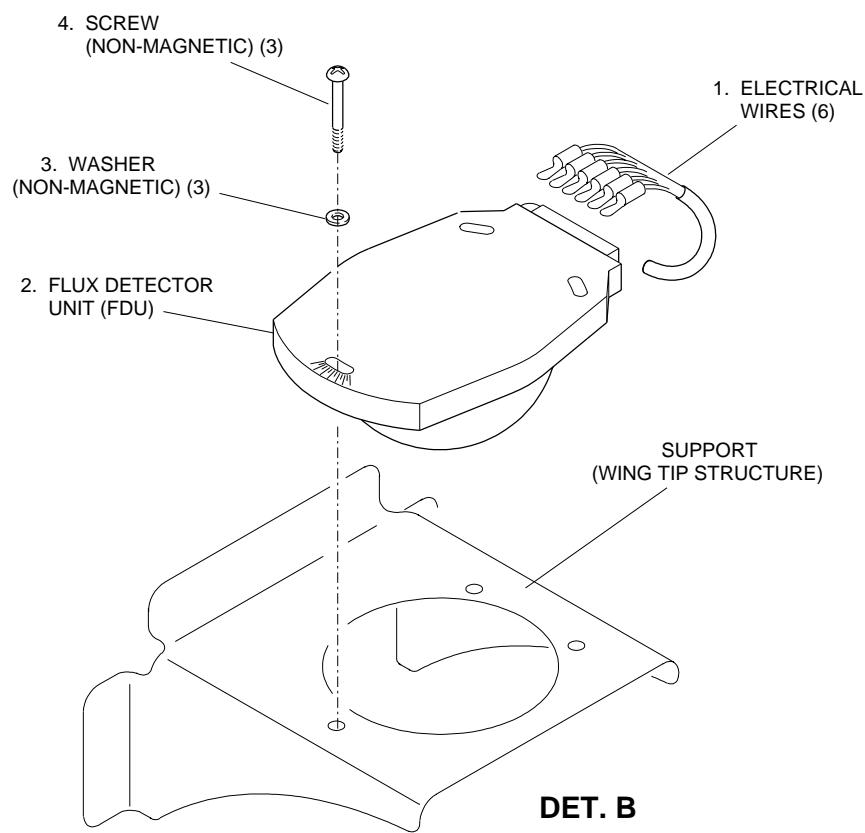
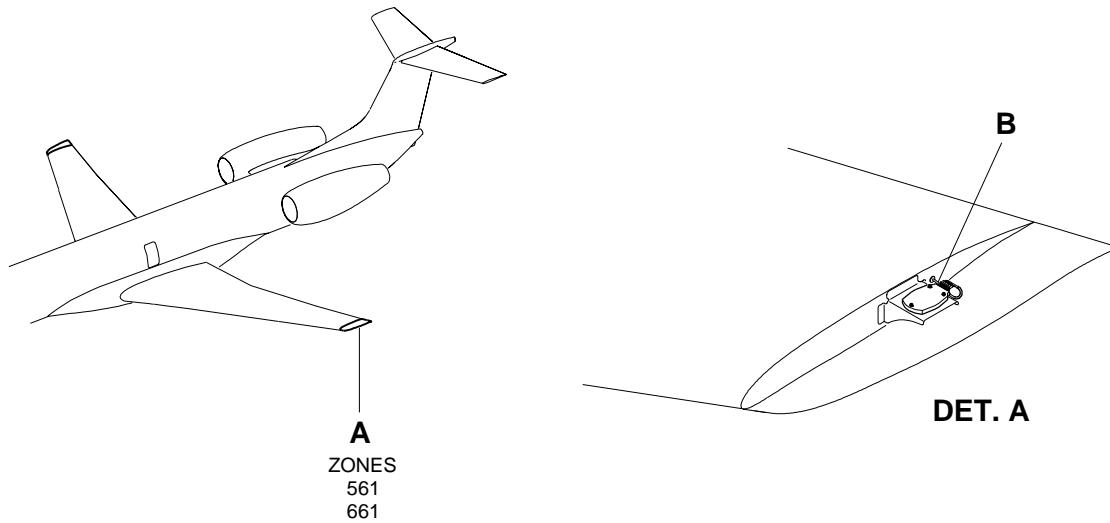
- (1) Remove and keep the three non-magnetic screws (4) and washers (3).
- (2) Carefully pull the flux detector unit (FDU) (2) out of the support, at the wing tip.
- (3) One at a time, disconnect the six electrical wires (1) from the terminal board of the flux detector unit (FDU) (2). For this, do the steps below:
 - (a) Loosen the screw that attaches the lug of the electrical wire (1) to the terminal board of the flux detector unit (FDU) (2).



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- (b) Carefully pull the lug of the electrical wire (1) out from below the screw head.
 - (c) Tighten the screw in the terminal board.
- (4) Remove the flux detector (FDU) (2).

EFFECTIVITY: AIRCRAFT WITH AHRS AH-800
Flux Detector Unit (FDU) - Installation
Figure 401



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TASK 34-21-02-400-801-A

EFFECTIVITY: AIRCRAFT WITH AHRS AH-800

3. FLUX DETECTOR UNIT (FDU) - INSTALLATION

A. General

- (1) This procedure gives the instructions to install the flux detector unit (FDU).

B. References

REFERENCE	DESIGNATION
AMM TASK 34-21-02-820-801-A/500	FLUX DETECTOR UNIT - COMPENSATION
AMM TASK 57-30-00-400-801-A/400	WING TIP - INSTALLATION

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	LH or RH Wing Tip

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) One at a time, install the six electrical wires (1) to the terminal board of the flux detector unit (FDU) (2). For this, do the steps below:

- (a) Identify the wire (1) and the position on the terminal board of the flux detector unit (FDU) (2) in which it must be installed.
- (b) Loosen the screw of the terminal board of the flux detector unit (FDU) (2).
- (c) Put the lug of the wire (1) below the screw head.
- (d) Tighten the screw in the terminal board.

- (2) Put the flux detector unit (FDU) (2) on the support at the wing tip.

- (3) Put in position the three non-magnetic screws (4) and washers (3) to attach the flux detector unit (FDU) (2). Do not tighten the screws.



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NOTE: Do not use magnetic-type screws to attach the flux detector unit (FDU).

- (4) Align the centerline (zero) of the scale in the forward hole of the flux detector unit (FDU) (2) with the centerline of the screw (4) head.
- (5) Tighten the screws (4).

J. Follow-on

SUBTASK 842-002-A

- (1) Install the wing tip ([AMM TASK 57-30-00-400-801-A/400](#)).
- (2) On the Circuit Breaker Panel, close the two AHRS1 and the two AHRS2 circuit breakers and remove the DO-NOT-CLOSE tags from them.
- (3) Do the Flux Detector Compensation ([AMM TASK 34-21-02-820-801-A/500](#)).