

**AUXILIARY FLIGHT-DATA ACQUISITION UNIT (AFDAU) / AUXILIARY FLIGHT-DATA ACQUISITION
AND MANAGEMENT UNIT (AFDAMU) - REMOVAL/INSTALLATION**

EFFECTIVITY: AIRCRAFT WITH AFDAU/AFDAMU

1. General

- A. This section gives the procedures to remove/install the Auxiliary Flight Data Acquisition Unit (AFDAU) / Auxiliary Flight Data Acquisition and Management Unit (AFDAMU) and the memory card of the AFDAMU .
- B. 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
31-31-07-000-801-A	AFDAU/AFDAMU - REMOVAL	AIRCRAFT WITH AF- DAU/AFDAMU
31-31-07-400-801-A	AFDAU/AFDAMU - INSTALLATION	AIRCRAFT WITH AF- DAU/AFDAMU
31-31-07-000-802-A	AFDAMU MEMORY CARD - REMOVAL	AIRCRAFT WITH AF- DAMU
31-31-07-400-802-A	AFDAMU MEMORY CARD - INSTALLATION	AIRCRAFT WITH AF- DAU/AFDAMU

TASK 31-31-07-000-801-A

EFFECTIVITY: AIRCRAFT WITH AFDAU/AFDAMU

2. AFDAU/AFDAMU - REMOVAL

A. General

- (1) This task gives the procedures to remove the auxiliary flight-data acquisition unit (AFDAU) / auxiliary flight data acquisition and management unit (AFDAMU).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit ceiling
272	272DR	Fuselage rear section I - Right side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, Hydraulic, Aircraft	To get access to the rear electronic compartment	

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	Rear electronic compartment/Cockpit

I. Preparation

SUBTASK 841-005-A

- (1) Put up the hydraulic platform (GSE 036) at the necessary height.
- (2) Open access door 272DR (AMM MPP 06-41-01/100).

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

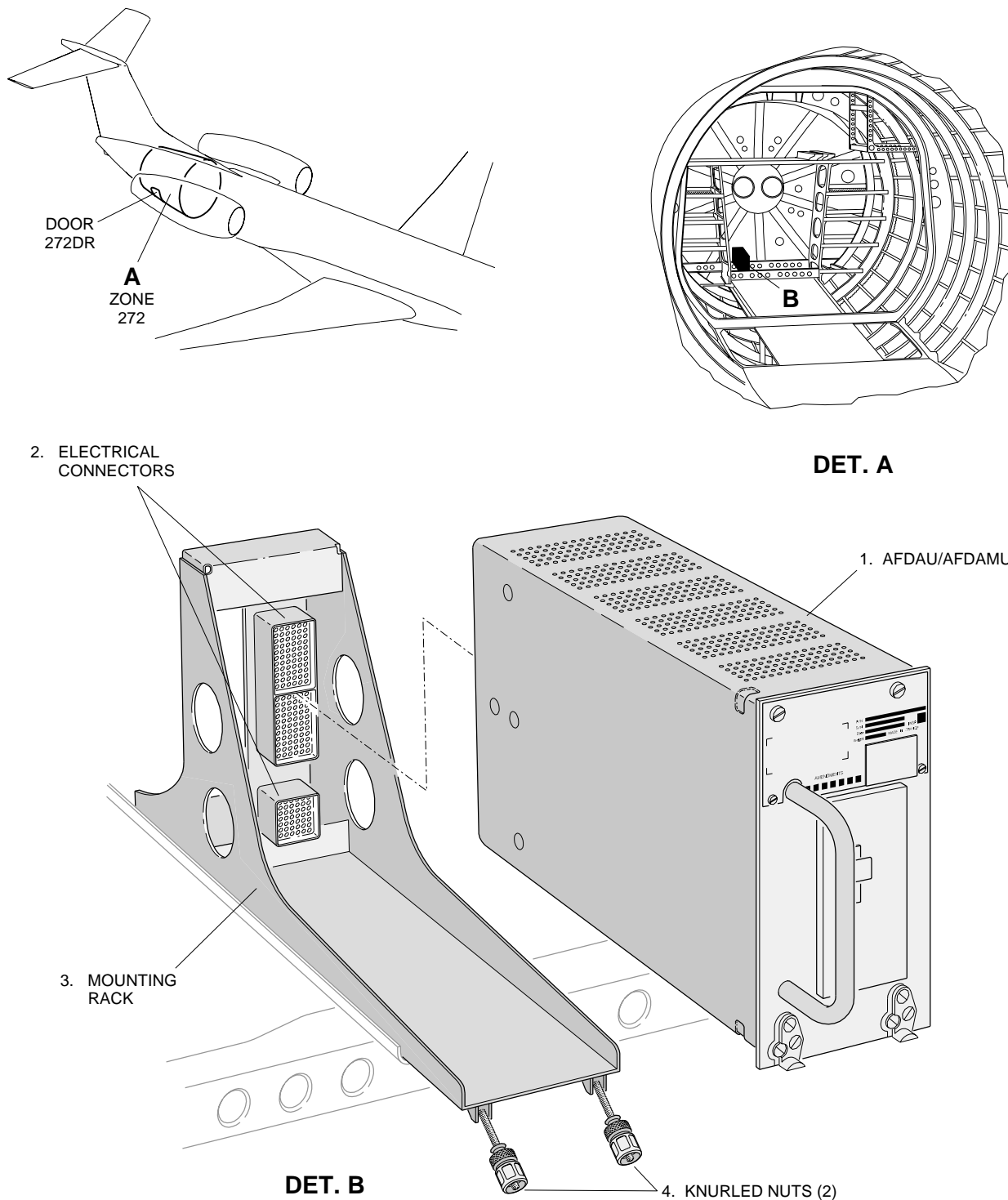
SUBTASK 020-005-A

- (1) At the cockpit, on the circuit breaker panel, open the FDAU circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) At the rear electronic compartment, loosen the two knurled nuts (4) that attach the AFDAU/AFDAMU (1) to the mounting rack (3).
- (3) Pull the AFDAU/AFDAMU (1) until it is disconnected from the electrical connectors (2).
- (4) Remove the AFDAU/AFDAMU (1) from the mounting rack (3).

EFFECTIVITY: AIRCRAFT WITH AFDAU/AFDAMU

Auxiliary flight-data acquisition unit (AFDAU) / Auxiliary Flight-Data Acquisition and Management Unit (AFDAMU) - Removal/Installation

Figure 401



145AMM310480.MCE

TASK 31-31-07-400-801-A

EFFECTIVITY: AIRCRAFT WITH AFDAU/AFDAMU

3. AFDAU/AFDAMU - INSTALLATION

A. General

- (1) This task gives the procedures to install the auxiliary flight-data acquisition unit (AFDAU) / auxiliary flight data acquisition and management unit (AFDAMU).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 31-31-07-700-801-A/500	-
AMM TASK 31-31-07-700-802-A/500	AFDAMU - OPERATIONAL TEST
AMM TASK 31-31-07-860-802-A/200	AFDAMU CONFIGURATION CARD - PROGRAMMING
AMM TASK 31-31-07-860-803-A/200	AFDAMU CONFIGURATION CARD - UPLOADING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit ceiling
272	272DR	Fuselage rear section I - Right side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, Hydraulic, Aircraft	To get access to the rear electronic compartment	

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	Rear electronic compartment/Cockpit

I. Installation (Figure 401)

SUBTASK 420-005-A

- (1) Put the AFDAU/AFDAMU (1) on the mounting rack (3).

- (2) Carefully push the AFDAU/AFDAMU (1) to the rear of the mounting rack (3).
- (3) Make sure that the electrical connectors of the mounting rack (2) and the connector of the AFDAU/AFDAMU (1) connect correctly to each other.
- (4) Tighten the two knurled nuts (4) to attach the AFDAU/AFDAMU (1) to the mounting rack (3).

J. Follow-on

SUBTASK 842-005-A

- (1) At the cockpit, on the circuit breaker panel, remove the DO-NOT-CLOSE tag from the FDAU circuit breaker and close it.
- (2) If you have AFDAU, do its operational test (AMM TASK 31-31-07-700-801-A/500).
- (3) If you have AFDAMU, do its operational test ([AMM TASK 31-31-07-700-802-A/500](#)).
- (4) If the recording capability of the AFDAMU will be used, then do the procedures to configure the PCMCIA card ([AMM TASK 31-31-07-860-802-A/200](#)) and to configure the AFDAMU ([AMM TASK 31-31-07-860-803-A/200](#)).
- (5) Close access door 272DR (AMM MPP 06-41-01/100).
- (6) Remove the hydraulic platform (GSE 036).

TASK 31-31-07-000-802-A

EFFECTIVITY: AIRCRAFT WITH AFDAMU

4. AFDAMU MEMORY CARD - REMOVAL

A. General

- (1) This task gives the procedures to remove the memory card of the Auxiliary Flight Data Acquisition and Management Unit (AFDAMU).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit ceiling
272	272DR	Fuselage rear section I - Right side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, Hydraulic, Aircraft	To get access to the rear electronic compartment	

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	Rear electronic compartment/Cockpit

I. Preparation

SUBTASK 841-004-A

- (1) Make sure that the aircraft is safe for maintenance.
- (2) Energize the aircraft with the External DC Power Supply ([AMM TASK 20-40-01-860-801-A/200](#)).
- (3) Put up the hydraulic platform (GSE 036) at the necessary height.

- (4) Open access door 272DR (AMM MPP 06-41-01/100).

J. Removal ([Figure 402](#))

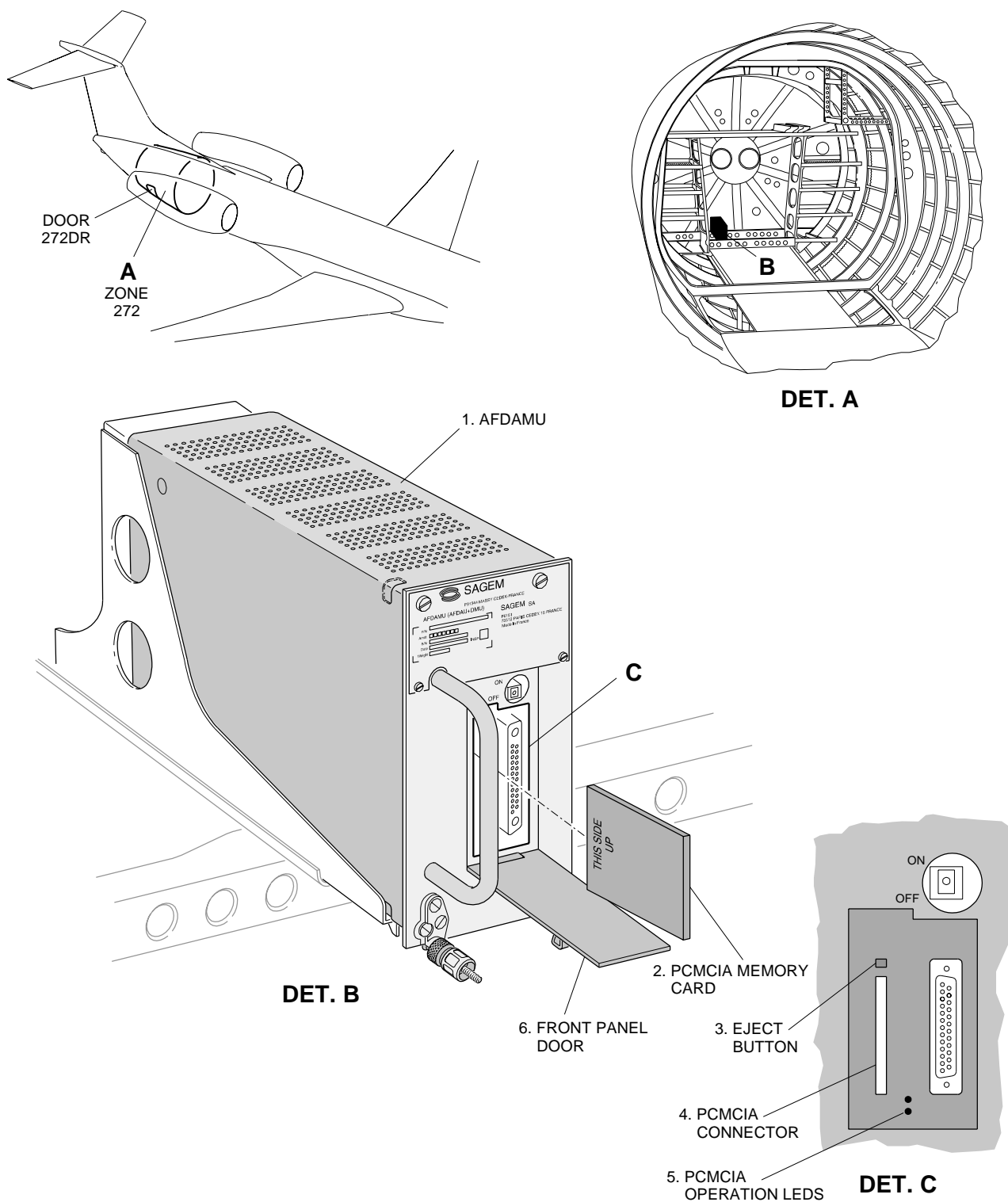
SUBTASK 020-004-A

- (1) At the rear electronic compartment, open the AFDAMU front panel door (6). Refer to figure [Figure 402](#).
- (2) Push the eject button (3) to eject the PCMCIA memory card (2) from the PCMCIA connector (4).
- (3) Remove the PCMCIA memory card (2) from the AFDAMU (1).
- (4) Close the AFDAMU front panel door (6).

EFFECTIVITY: AIRCRAFT WITH AFDAMU

Auxiliary Flight-Data Acquisition Unit (AFDAU) memory card - Removal/Installation

Figure 402



EM145AMM310624A.DGN

TASK 31-31-07-400-802-A

EFFECTIVITY: AIRCRAFT WITH AFDAU/AFDAMU

5. AFDAMU MEMORY CARD - INSTALLATION

A. General

- (1) This task gives the procedures to install the memory card of the Auxiliary Flight Data Acquisition and Management Unit (AFDAMU).

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM TASK 31-31-07-860-802-A/200	AFDAMU CONFIGURATION CARD - PROGRAMMING

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
225	225DTC	Cockpit ceiling
272	272DR	Fuselage rear section I - Right side

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 036	Platform, Hydraulic, Aircraft	To get access to the rear electronic compartment	

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	Rear electronic compartment/Cockpit

I. Installation (Figure 402)

SUBTASK 420-004-A

CAUTION: MAKE SURE THAT YOU PUT THE PCMCIA CARD IN THE CORRECT POSITION. IF YOU CANNOT INSTALL THE CARD IN THE PCMCIA CONNECTOR EASILY, REMOVE THE CARD AND TURN IT BEFORE YOU TRY TO INSTALL IT AGAIN. IF YOU CONTINUE TO INSTALL THE CARD IN THE INCORRECT POSITION, DAMAGE TO THE CARD AND TO THE AFDAMU CAN OCCUR.

- (1) Carefully put the PCMCIA memory card (2) into the PCMCIA connector (4), with the up side of the memory card turned to the AFDAMU handle.
- (2) When you put the PCMCIA memory card (2) in the AFDAMU (1), three conditions can occur with the PCMCIA operation LEDs (5), as follows:
 1. If the two PCMCIA operation LEDs (5) stay off, it is a sign that the PCMCIA memory card (2) is empty.
 2. If the green PCMCIA operation LED (5) blinks during approximately 5 seconds, it is a sign that the AFDAMU (1) loads the data frame. After that, the green LED (5) blinking stops and the LED stays on continuously: the PCMCIA memory card (2) can then be removed.
 3. If the amber LED (5) stays on during the data frame loading, it is a sign that there is a software error in the PCMCIA card (2). If this occurs, push the eject button (3) to remove the PCMCIA card (2), configure it again with a valid data frame ([AMM TASK 31-31-07-860-802-A/200](#)), and do the memory card installation steps again.
- (3) Close the AFDAMU front panel door (6).

J. Follow-on

SUBTASK 842-004-A

- (1) Close access door 272DR (AMM MPP 06-41-01/100).
- (2) Remove the hydraulic platform (GSE 036).

