

DATA ACQUISITION UNIT (DA-800) - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the data acquisition unit.
- B. Data acquisition unit 1 is installed in the area below the cockpit floor, and data acquisition unit 2 is installed in the rear electronic compartment.
- 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
31-41-01-000-801-A	DATA ACQUISITION UNIT - REMOVAL	ALL
31-41-01-400-801-A	DATA ACQUISITION UNIT - INSTALLATION	ALL

TASK 31-41-01-000-801-A

EFFECTIVITY: ALL

2. DATA ACQUISITION UNIT - REMOVAL

A. General

(1) This procedure gives the instructions to remove the data acquisition unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM SDS 24-60-00/1	
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
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114BZ	Nose landing gear compartment (RH)
123	221GF	Cockpit floor panel
272	272DR	Fuselage rear section I - right side

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	In the area below the cockpit floor, LH side, or in the rear electronic compartment, as applicable

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the EICAS DAU 1A, EICAS DAU 1B, EICAS DAU 2A, and EICAS DAU 2B circuit breakers and attach the DO-NOT-CLOSE tag to them.
- (2) (Applicable to 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) (Applicable to 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) Remove access panel 114BZ (AMM MPP 06-41-01/100) to get access to the backup battery relay box.
- (5) On the backup battery relay box, open the DAU 1/2 circuit breaker ([AMM SDS 24-60-00/1](#)) and attach the DO-NOT-CLOSE tag to it.
- (6) For data acquisition unit 1 (DAU 1) removal, open floor panel 221GF (AMM MPP 06-41-02/100).
- (7) For data acquisition unit 2 (DAU 2) removal, open access door 272DR (AMM MPP 06-41-01/100).

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

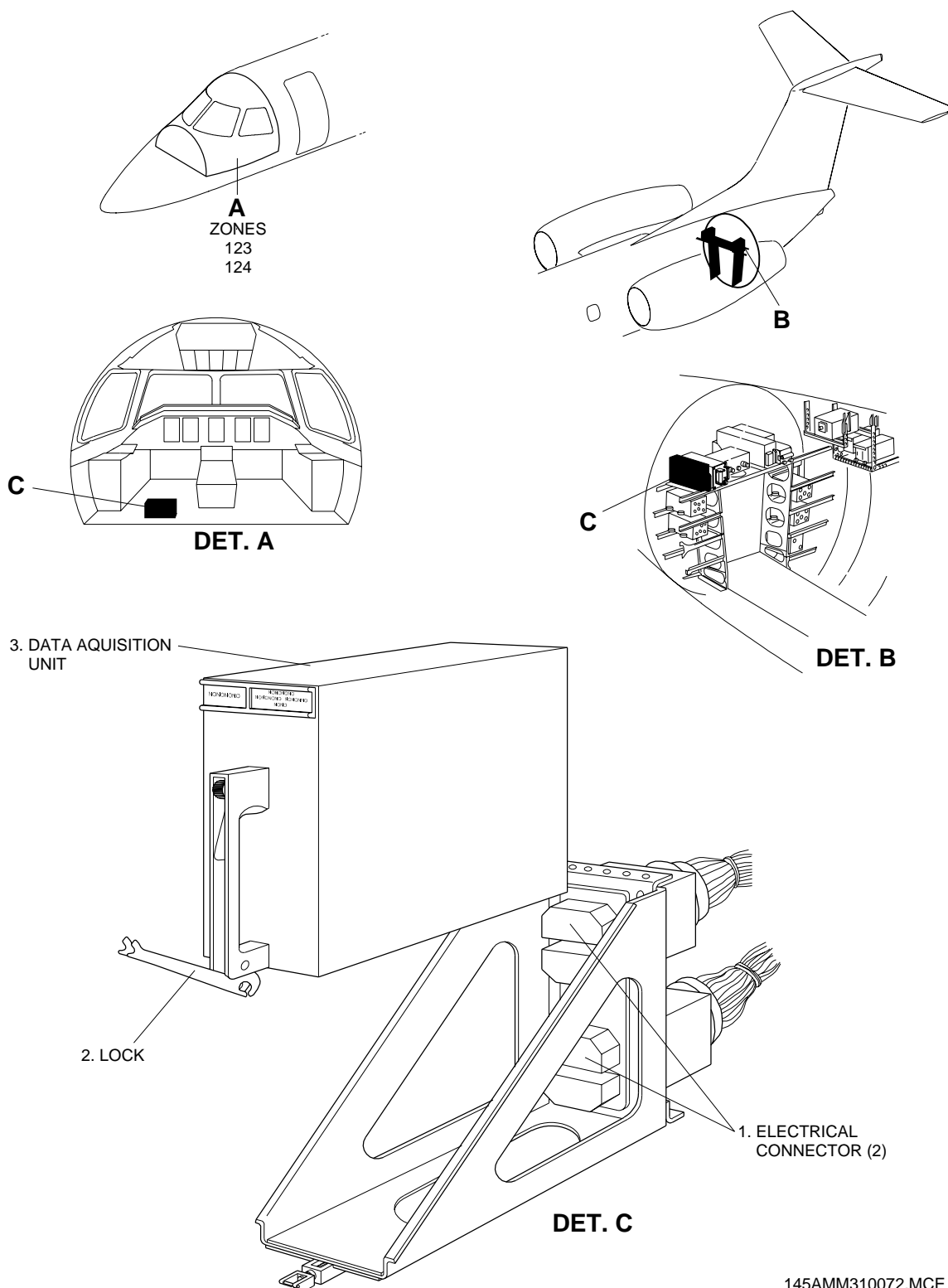
SUBTASK 020-002-A

- (1) Release the lock (2).
- (2) Pull the data acquisition unit (3) until it is disconnected from the two electrical connectors (1) attached to the mounting rack.
- (3) Remove the data acquisition unit (3).

EFFECTIVITY: ALL

Data Acquisition Unit - Removal/Installation

Figure 401



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TASK 31-41-01-400-801-A
EFFECTIVITY: ALL

3. DATA ACQUISITION UNIT - INSTALLATION

A. General

(1) This procedure gives the instructions to install the data acquisition unit.

B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
AMM MPP 06-41-02/100	-
AMM SDS 24-60-00/1	
AMM TASK 28-41-00-200-801-A/600	-
AMM TASK 31-41-00-700-801-A/500	DAU CHANNEL REVERSION - OPERATIONAL TEST
AMM TASK 32-00-02-910-801-A/200	SAFETY PIN OF THE NLG DOORS SOLENOID VALVE - INSTALLATION AND REMOVAL
IPC 31-42-01	INTEGRATED COMPUTER
SB145-32-0036	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
114	114BZ	Nose landing gear compartment (RH)
123	221GF	Cockpit floor panel
272	272DR	Fuselage rear section I - right side

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	In the area below the cockpit floor, LH side, or in the rear electronic compartment, as applicable

I. Installation (Figure 401)

SUBTASK 420-002-A

- (1) Install the data acquisition unit (3) on the mounting rack. Refer to IPC 31-42-01 for the correct DAU P/N, according to EICAS version.

CAUTION: WHEN YOU PUT THE UNIT ON THE MOUNTING TRAY, DO NOT FORCE FIT. IF MATING IS DIFFICULT, REMOVE THE UNIT AND LOOK FOR CONNECTOR PINS THAT CAN BE BENT OR OUT OF ALIGNMENT. ALSO DO A VISUAL CHECK ON THE ALIGNMENT OF THE RECEPTACLE ON THE MOUNTING TRAY.

- (2) Push the data acquisition unit (3) until it is connected to the two electrical connectors (1) attached to the mounting rack.
- (3) Attach the lock (2).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, remove the DO-NOT-CLOSE tag from the EICAS DAU 1A, EICAS DAU 1B, EICAS DAU 2A, and EICAS DAU 2B circuit breakers and close them.
- (2) On the backup battery relay box, remove the DO-NOT-CLOSE tag from the DAU 1/2 circuit breaker ([AMM SDS 24-60-00/1](#)) and close it.
- (3) Install access panel 114BZ (AMM MPP 06-41-01/100).
- (4) (Applicable to 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](#)).
- (5) Do an operational test of the DAU channel reversion ([AMM TASK 31-41-00-700-801-A/500](#)).
- (6) Do an inspection on the fuel quantity indication harness (AMM TASK 28-41-00-200-801-A/600).

NOTE: The inspection of fuel quantity indication harness is a part of Critical Design Configuration Control Limitations (CDCCL) in the Airworthiness Limitations of the Maintenance Review Board Report (MRB).

- (7) For data acquisition unit 1 (DAU 1) installation, close floor panel 221GF (AMM MPP 06-41-02/100).
- (8) For data acquisition unit 2 (DAU 2) installation, close access door 272DR (AMM MPP 06-41-01/100).