

DIGITAL CONTROLLER - INSPECTION/CHECK

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to retrieve or delete error codes that are stored on the Digital Controller and know the nature of the failure.
- 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
21-31-01-900-801-A	DIGITAL CONTROLLER - DATA RECORD- ING	ALL

TASK 21-31-01-900-801-A

EFFECTIVITY: ALL

2. DIGITAL CONTROLLER - DATA RECORDING

A. General

(1) This task gives the instructions to retrieve an error code with the aid of GSE 399.

B. References

REFERENCE	DESIGNATION
AMM TASK 21-31-00-700-802-A/500	-
S.B.145-21-0027	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
GSE 399	Field Text Box Kit	To retrieve or delete an error code	

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	Control pedestal

I. Preparation ([Figure 601](#)) ([Figure 602](#))

SUBTASK 841-002-A

- (1) On the overhead circuit breaker panel, open the PRESS CONTROL circuit breaker and attach a DO-NOT-CLOSE tag to it (Location tip: DC BUS 1/AIR COND/PNEU/PRESS CONTROL).
- (2) Remove the two larger attachment screws (5).
- (3) On aircraft POST-MOD. [S.B.145-21-0027](#), remove the mechanical protection (6).
- (4) Move the digital controller (1) from its installed position.
- (5) Disconnect the electrical connector (4).
- (6) Remove the digital controller (1).

- (7) Connect the digital controller cable (2) to the Digital Controller (1).
- (8) Connect the other side of the digital controller cable (2) to GSE 399 (3).

J. Check of the Failure with the Error Code Reader (Figure 601) (Figure 602)

SUBTASK 970-002-A

- CAUTION:**
- THE AUTO/MAN AND DUMP BUTTONS, ON THE FRONT OF THE DIGITAL CONTROLLER (1), MUST BE IN THE OFF POSITION TO LET THE DIGITAL CONTROLLER (1) GO TO THE SHOP MODE.
 - DO NOT CHANGE THE SETTING OF THE AUTO/MAN AND DUMP BUTTONS, THIS CAN CAUSE AN A013 ERROR TO BE RECORDED INTO THE "LAST FLIGHT" SECTION OF THE DIGITAL CONTROLLER (1).

- (1) Make sure that the digital controller cable (2) is in the correct position to start the data recording of error code.
- (2) With GSE 399 (3), read the error codes.
- (3) **NOTE:** There are 3 different memory areas in the memory management of the Digital Controller (1):
 - "Last Ground": This area contains the failure codes recorded during the last ground period.
 - "Last Flight": This area contains the failure codes recorded during the last flight.
 - "Memory": This area contains all the "Last Ground" and "Last Flight" failure codes recorded.

CAUTION: THE FAILURES CODE FOUNDED INSIDE THE MEMORY, MUST NOT BE DELETED; SPECIALLY WHEN APPEAR THE EXT1 CODE (POST-MOD. S.B. 145-21-0040).

- (4) The "Last Ground" and "Last Flight" failure codes are automatically deleted in the next pre-pressurization phase.

K. Follow-on

SUBTASK 842-002-A

- (1) Disconnect the digital controller cable (2) from the digital controller (1).
- (2) Install the electrical connector (4) to the digital controller (1).
- (3) Put the digital controller (1) in position.
- (4) On aircraft POST-MOD. S.B.145-21-0027, put the mechanical protection (6) back in position.
- (5) Attach the two attachment screws (5).

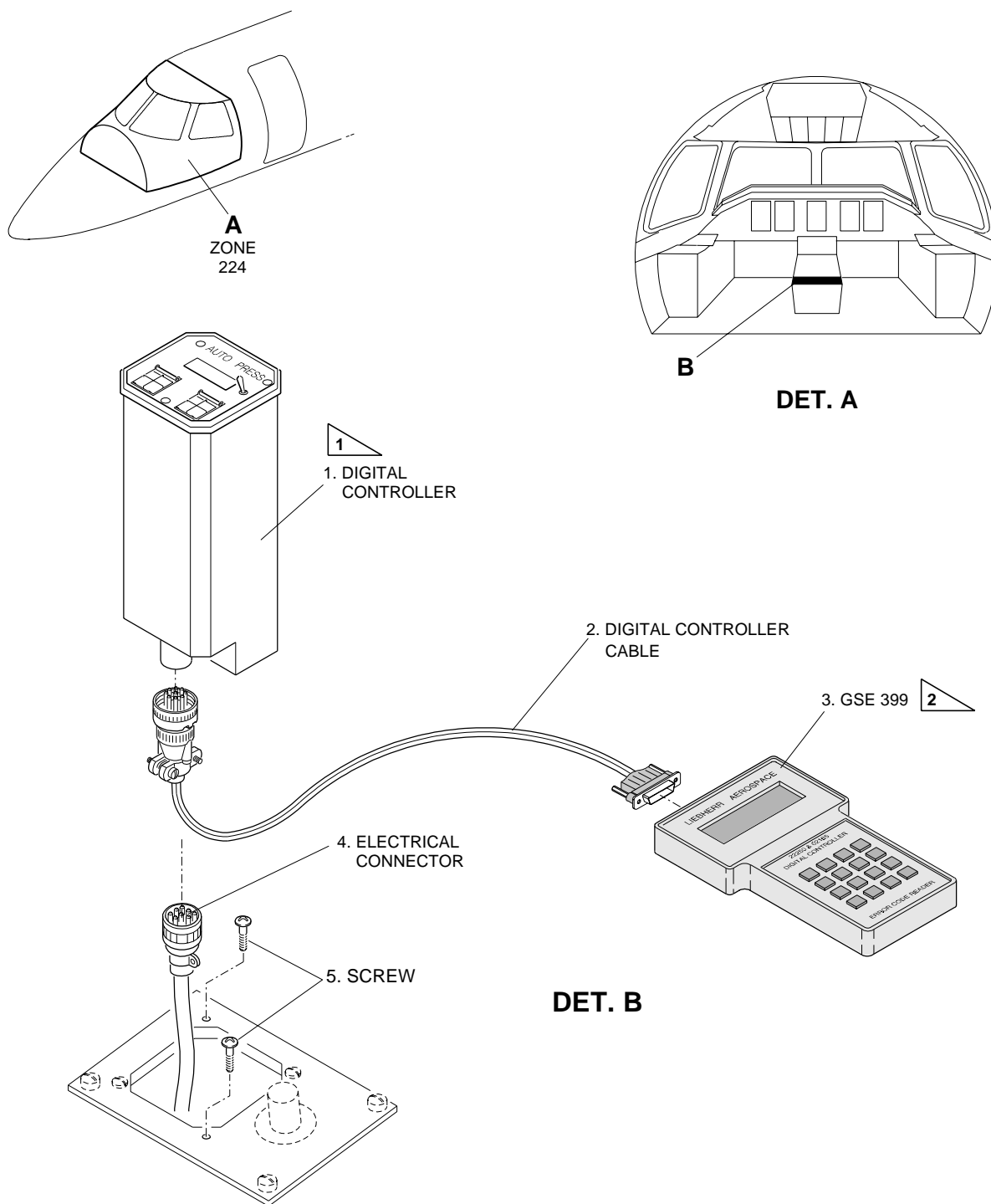


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- (6) On the overhead circuit breaker panel, remove the DO-NOT-CLOSE tag from the PRESS CONTROL circuit breaker and close it (Location tip: DC BUS 1/AIR COND/PNEU/PRESS CONTROL).
 - (7) Do AMM TASK 21-31-00-700-802-A/500.

EFFECTIVITY: PRE-MOD. S.B. 145-21-0027

Data Recording on the Digital Controller - Component Locations

Figure 601



1 POST-MOD S.B. 145-21-0027

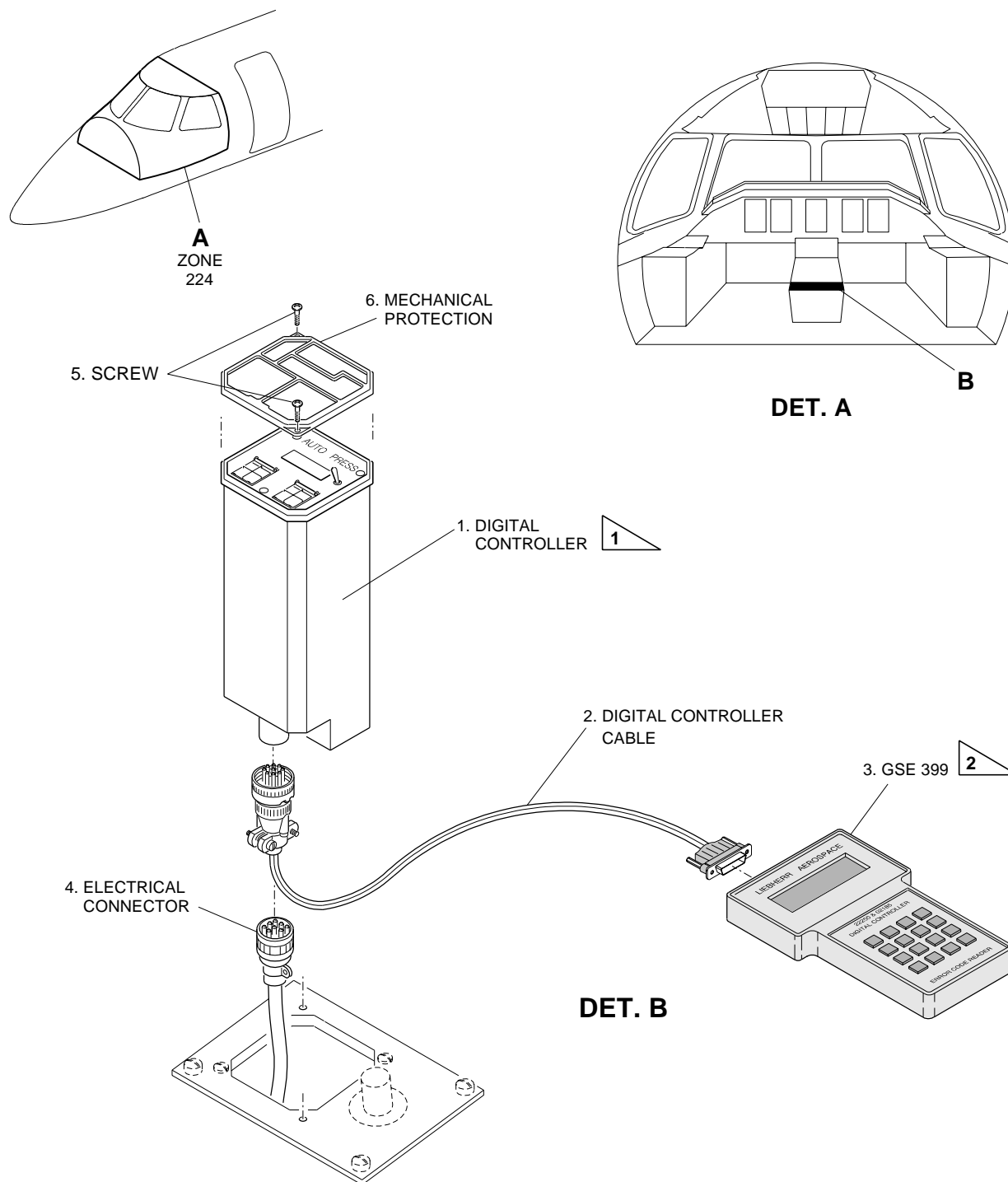
2 POST-MOD S.B. 145-21-0040

145AMM210818A.MCE

EFFECTIVITY: POST-MOD. S.B. 145-21-0027

Data Recording on the Digital Controller - Component Locations

Figure 602



1 POST-MOD S.B. 145-21-0027

2 POST-MOD S.B. 145-21-0040

EM145AMM211227A.DGN