



## AIRCRAFT MAINTENANCE MANUAL

### OPTICAL QUICK ACCESS RECORDER (OQAR) SYSTEM - ADJUSTMENT/TEST

EFFECTIVITY: AIRCRAFT WITH OQAR

#### 1. General

- A. This section gives the procedures to do the operational test of the Optical Quick-Access Recorder (OQAR).
- 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
31-34-00-700-801-A	OPTICAL QUICK-ACCESS RECORDER (OQAR) - OPERATIONAL TEST	AIRCRAFT WITH OQAR



EMB145 - EMB135

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TASK 31-34-00-700-801-A

EFFECTIVITY: AIRCRAFT WITH OQAR

2. OPTICAL QUICK-ACCESS RECORDER (OQAR) - OPERATIONAL TEST

A. General

- (1) This task gives the procedures for the OQAR operational test.
- (2) These procedures permit the OQAR status variables to be interrogated to make sure that the OQAR operates correctly.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 31-34-01-400-801-A/400	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
272	272DR	Fuselage rear section I - right side

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
1	Magnetic Optical Disk	For the check of the MO Drive	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Rear electronic compartment

I. Preparation

SUBTASK 841-003-A

- (1) Energize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Open door 272DR to get access to the rear electronic compartment.



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J. OQAR - Operational Test Procedures ([Figure 501](#))

SUBTASK 710-003-A

- (1) Do the OQAR operational test as follows:

- (a) On the circuit breaker panel, close the QAR circuit breaker.

Result:

1 The POWER ON LED comes on.

2 The OQAR automatically does its power-on self-test (POST).

NOTE: • If the OQAR shows the messages DRIVE TOO HOT or DRIVE TOO COOL and PLEASE WAIT, you possibly must wait 10 to 20 minutes until the OQAR has an operating temperature.

- If the OQAR shows INSERT DISK, insert a disk.

3 At the end of the self-test, the LED indicators (FAIL, LOW CAPACITY, and MAINTENANCE) go out of view and the time and date are shown on the displays.

- (b) Push the EXIT button to show the 01 OPERATOR menu.

NOTE: You possibly must push this key more than once.

- (c) Push the ENTER button to display the ACTIVITY menu option.

Result:

1 The display shows A\*R-Q\*.

- (d) Push the EXIT button to show the OPERATOR menu.

- (e) Push the "+" button to show the 02 STATUS menu.

- (f) Push the ENTER button to show the first menu option - AD\_TSF (ARINC data total sub-frames).

- (g) Monitor the AD\_TSF menu option for 20 seconds and make sure that it increments approximately once per second.

- (h) Push the "+" button to show the AD\_BSF (ARINC data bad sub-frames) menu option.

- (i) Monitor the AD\_BSF menu option for 20 seconds and make sure that it does not increments.

- (2) Set the time and date on the OQAR as follows:

- (a) Push the EXIT key on the OQAR front panel.

Result:

1 The 01 OPERATOR menu is shown on the OQAR display.

- (b) Push the ENTER key to access the 01 OPERATOR menu.

Result:

1 The item ACTIVITY is shown.

- (c) Use the "+" and "-" keys to select the SET\_TIME menu item.

NOTE: The current time is shown as HH:MM:SS and uses a 24-hour clock.

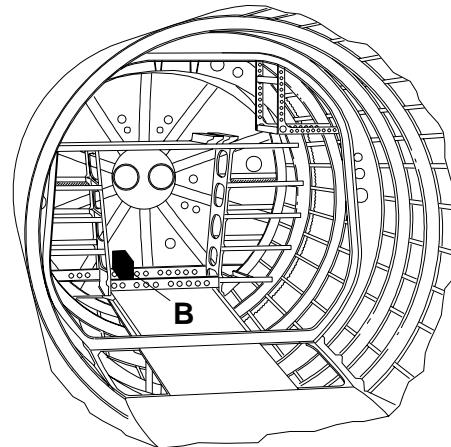
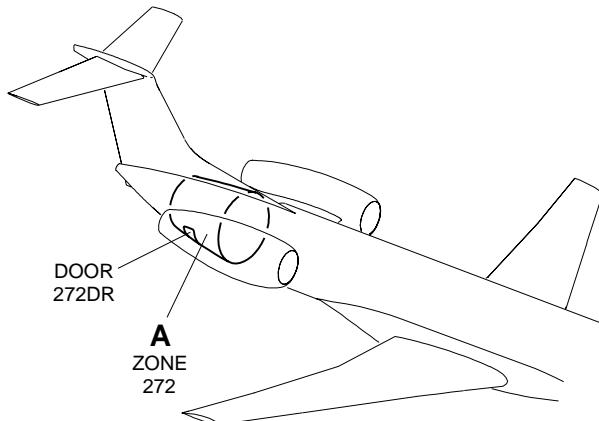
- (d) Push the ENTER key to access the SET\_TIME function.  
Result:
    - 1 The time is shown on display. The first field flashes.
  - (e) Use the "+" and "-" keys to change number that flashes.
  - (f) Push the ENTER key to move to subsequent field. (Push the EXIT key to go back to the previous field).
  - (g) When the correct time shows, push the ENTER key.
  - (h) Push the "+" key until SET\_DATE shows.  
NOTE: The current date is shown as DD / MM / YY.
  - (i) When SET\_DATE shows, push the ENTER key.
  - (j) Use the "+", "-", and ENTER keys to set the date.
  - (k) When the correct date shows, push the ENTER key.
  - (l) Push the EXIT key until the OQAR shows the time and date.
- (3) Make sure that the MO Drive subsystem operates as follows:
- (a) Open the access door and push the EJECT button to remove the optical disk.  
Result:
    - 1 The message FLUSHING xxx% is shown.
    - 2 The disk will eject.
  - (b) Install the disk again (AMM TASK 31-34-01-400-801-A/400).

**K. Follow-on**

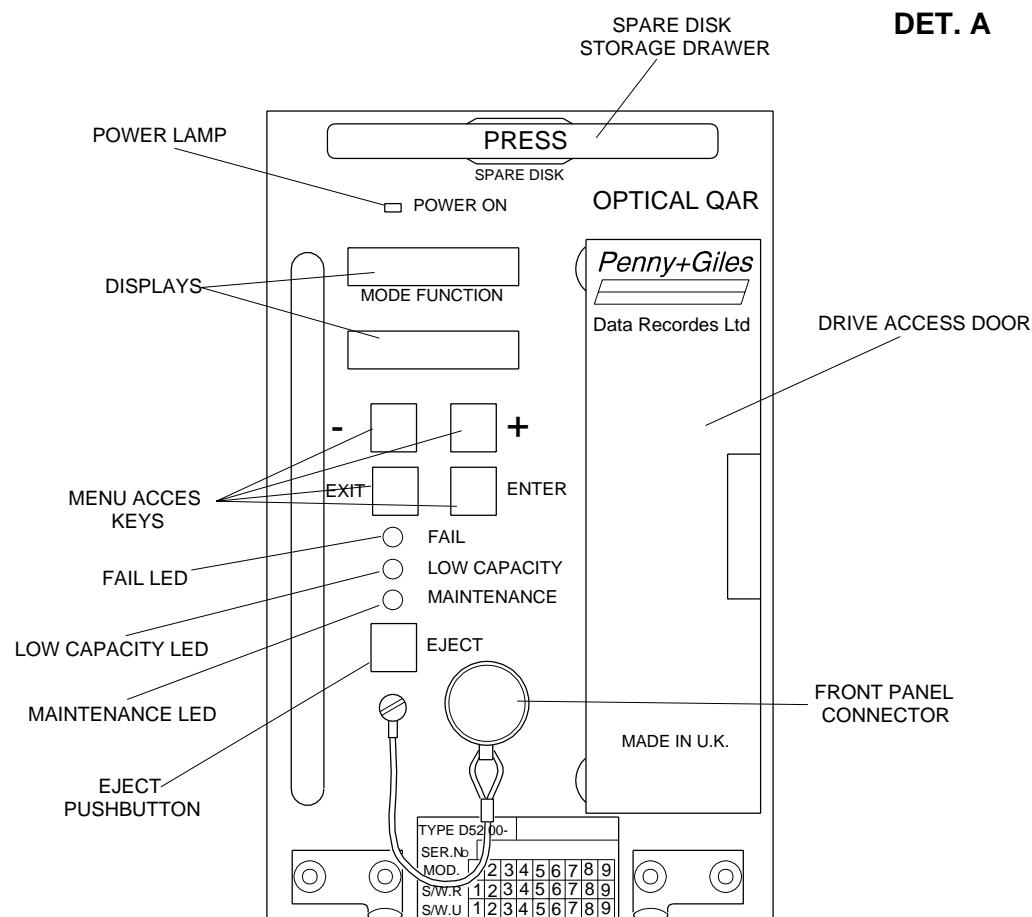
**SUBTASK 842-003-A**

- (1) Close door 272DR (rear electronic compartment door).
- (2) Deenergize the aircraft ([AMM TASK 20-40-01-860-801-A/200](#)).

**EFFECTIVITY: AIRCRAFT WITH OQAR**  
 Optical Quick-Access Recorder (OQAR) - Operational Test  
 Figure 501



**DET. A**



**DET. B**  
 OQAR FRONT PANEL

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