

EQAR DISK - MAINTENANCE PRACTICES

EFFECTIVITY: AIRCRAFT WITH EQAR

1. General

A. This section gives the procedures:

- To program the data into configuration disk.
- To load a new configuration.
- To read the flight data from the recorded disk.

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
31-33-01-000-803-A	EQAR RECORDED DATA DISK - READ- ING	AIRCRAFT WITH EQAR
31-33-01-400-803-A	EQAR CONFIGURATION DISK - UPLOAD- ING	AIRCRAFT WITH EQAR

TASK 31-33-01-000-803-A

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2. EQAR RECORDED DATA DISK - READING

A. General

- (1) This task gives the procedures for the reading of the recorded disk (which contains the flight data).
- (2) To read the recorded data on the optical disk a software compatible with the EQAR recording format is necessary.

B. References

REFERENCE	DESIGNATION
AMM TASK 31-33-01-000-801-A/400	EQAR RECORDED DATA DISK - REMOVAL
AMM TASK 31-33-01-400-801-A/400	EQAR DATA DISK - INSTALLATION

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	EQAR read out Software	To perform the read out of the EQAR data	

E. Auxiliary Items

ITEM	DESCRIPTION	PURPOSE	QTY
Commercially available	PC	To read the data	1
Commercially available	Magnetic Optical Disk Drive (ISO/IEC 15041)	To permit the reading of recorded data	1
Commercially available	SCSI interface (internal) or SCSI/Parallel port adapter if no internal SCSI is available	Connect drive to PC	1
Commercially available	Magnetic Optical Disk (ISO/IEC 15041)	Where the reading data are recorded	1

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Reads the data	Personal computer

I. Preparation

SUBTASK 841-002-A

- (1) Remove the data disk from the aircraft ([AMM TASK 31-33-01-000-801-A/400](#)).
- (2) Turn the computer on and put the data disk (which contains the flight data) into the magnetic optical drive.

J. Recorded Data Disk Reading

SUBTASK 070-002-A

- (1) The EQAR records flight data in two files, one with the ARINC-717 data and the other with the ARINC-429 data (if available). The ARINC-717 data is contained on the disk in a file folder named DATA, while the ARINC-429 data is contained on a file folder named A429. Each time the EQAR is powered up, a new flight file is created in the folder. The file is named by the TIME (month, day, hour, minute, second) when it was created.

ARINC-717 and ARINC-429 recordings from the same span of time will have corresponding file names; for example, 09122127.d01 is ARINC-717 file, while 09122127.a01 is the corresponding ARINC-429 file.

Note that the "file name" time is got from the EQAR internal clock, which does not necessarily correspond to the aircraft GMT clock time.

K. Follow-on

SUBTASK 842-002-A

- (1) If the disk is full, clear the data disk to record a new flight data.
- (2) Install the data disk in the EQAR ([AMM TASK 31-33-01-400-801-A/400](#)).

TASK 31-33-01-400-803-A

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3. EQAR CONFIGURATION DISK - UPLOADING

A. General

- (1) This task gives the procedures to load a new configuration from the configuration disk to the EQAR.
- (2) The configuration disk contains files for the EQAR to be recognized as a "configuration upload" disk.

B. References

REFERENCE	DESIGNATION
AMM TASK 20-40-01-860-801-A/200	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE
AMM TASK 31-33-01-000-801-A/400	EQAR RECORDED DATA DISK - REMOVAL
AMM TASK 31-33-01-400-801-A/400	EQAR DATA DISK - INSTALLATION

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
Commercially available	Magnetic Optical Disk (ISO/IEC 15041)	To permit the reading of configuration data	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) On the circuit breaker panel, make sure that the QAR circuit breaker is closed.

J. Configuration Uploading

SUBTASK 470-002-A

- (1) Go to the rear electronic compartment.
- (2) On the EQAR, open the front door and remove the recorded data disk from the disk drive, if installed ([AMM TASK 31-33-01-000-801-A/400](#)).
- (3) Make sure that the ON LED (green LED) and the STATUS LED (red LED) are on.
- (4) On the circuit breaker panel, open the QAR circuit breaker and, after a few seconds, close it again.
- (5) Make sure that the ON LED and STATUS LED are lighted.

NOTE: See the label attached at the back side of the EQAR door for instructions in how to put the disk into the drive.

If the disk is not in the correct position and alignment, the disk interlock will prevent full insertion. DO NOT FORCE IT.

- (6) Open the EQAR front door and insert the configuration UPLOAD disk. Do not close the door.

NOTE: If it is necessary to configure the ARINC-429 parameters refer to EQAR User Guide.

- (7) Wait for the automatic ejection of the UPLOAD disk.
- (8) Remove the UPLOAD disk.

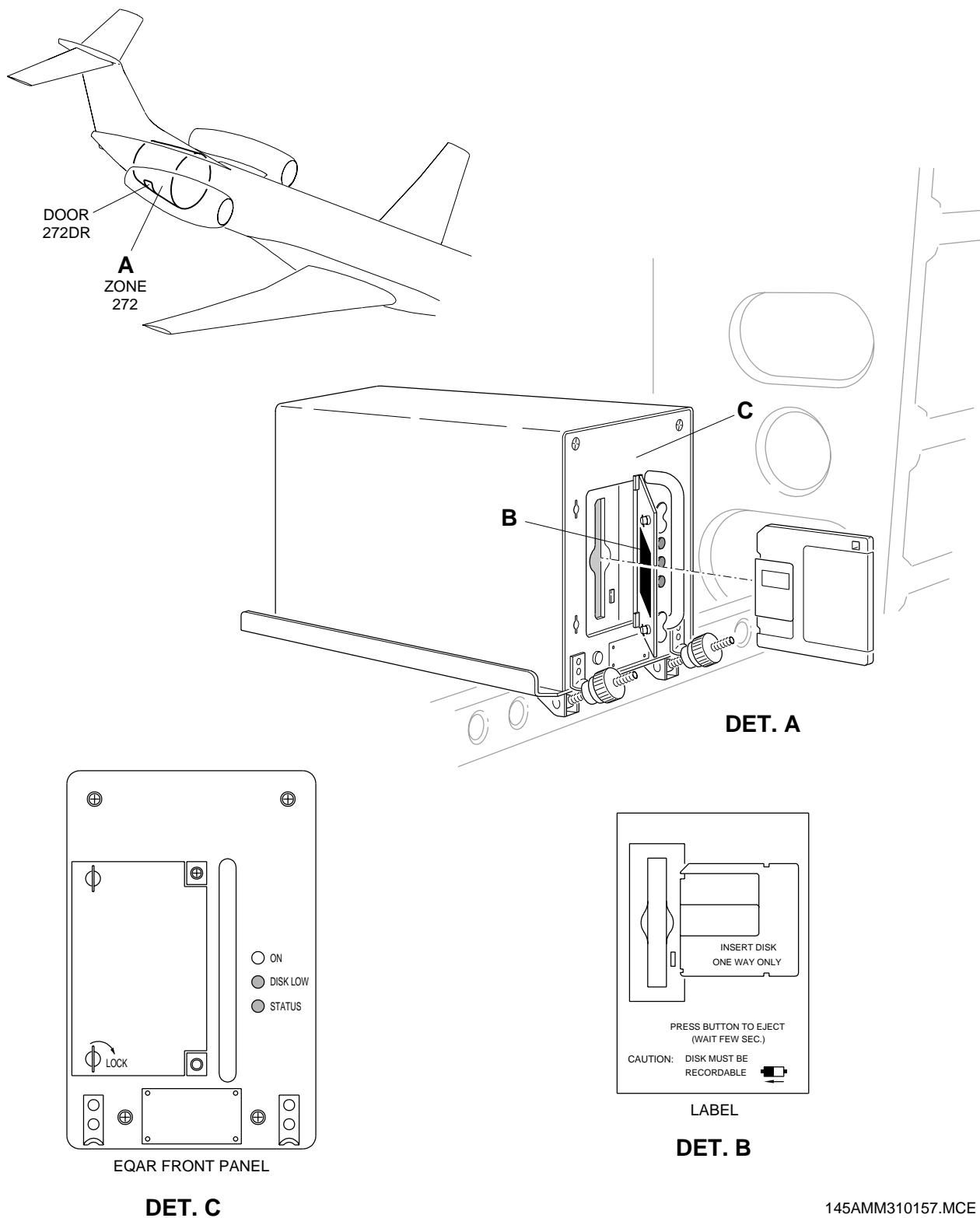
NOTE: Once the upload is completed, the power must be cycled for the EQAR to set up the new configuration data.

- (9) On the circuit breaker panel, cycle (open and close) the QAR circuit breaker.
- (10) Install the data disk in the EQAR ([AMM TASK 31-33-01-400-801-A/400](#)).

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EQAR Configuration Disk - Uploading

Figure 201



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