

Advisory Wire

REFERENCE NO:	AW300-31-0286	INFORMATION TYPE:	Maintenance
ATA:	31-31	EFFECTIVITY:	Challenger 300 (20003 to 20500) Challenger 350 (20501 to 20999)
SUBJECT:	Procedure to Clear “FDR FAIL” EICAS Message		

1. REFERENCES:

- 1.1. 905-E6524-28 – L-3 Aviation Products (L3AP) Procedure for Downloading Fault History and Clearing Latched Faults using the Portable Interface Unit (PI), P/N 17TES0043. Available on the Bombardier [Customer Portal](#)/Library/Document Type/Vendor Documents/Vendor SIL Notices.
- 1.2. Ground Support Equipment (GSE) reference number 31X-31-05 – Portable Interface Unit (PI), P/N 17TES0043

2. INTRODUCTION:

This Advisory Wire (AW) is to inform operators that the Ref. 1.1 procedure can be performed to clear the latched non-fatal faults which may cause the “FDR FAIL” EICAS message on Flight Data Recorder (FDR) that have the newer NAND type memory module.

3. DESCRIPTION:

We have recently noticed an increase of unscheduled FDR removals which are related to “FDR FAIL” EICAS messages posted on aircraft with the NAND type memory FDR installed.

L3AP has discovered that the FA2100 FDR that have the new NAND type memory module in the Crash Survivable Memory Unit (CSMU) are more prone to latch non-fatal faults, causing the “FDR FAIL” EICAS message, which can lead to unwanted maintenance actions.



Figure 1. NAND Recorder with L3 Logo on the CSUM

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The FDR built in test equipment (BITE) categorizes faults depending on the severity of the condition, as follows:

- Non-Latched Non-Fatal (NN)
- Latched Non-Fatal (LN)
- Latched Fatal (LF)

The LN faults on NAND type FDR, which may cause "FDR FAIL" EICAS message, can be cleared using the Ref. 1.1 procedure. This procedure instructs a user how to download, release and clear fault history using the Ref 1.2 PI.

However, the Ref 1.1 procedure should not be performed to continuously clear the faults if they are persistent. If the same fault reappears consistently, the FDR unit should be returned for repair.

Some LF faults on any type of the FDR may be severe enough to halt recorder operation. In this case, the FDR unit should be replaced.

4. ACTION:

In order to avoid unnecessary FDR unscheduled removals, operators may follow the Ref. 1.1, procedure for downloading fault history and clearing latched faults using the Ref. 1.2 PI, applicable to FA2100 FDR.