



Airworthiness Bulletin

AWB 31-010 Issue 2 - 26 July 2021

Failure of Honeywell DU-1080 HW3 Display Units in Leonardo AW139 Helicopters

An Airworthiness Bulletin is an advisory document that alerts, educates and makes recommendations about airworthiness matters. Recommendations in this bulletin are not mandatory.

1. Effectivity

AW139 fitted with DU-1080 HW3 LCD type display units part numbers 7036340-802 / -803 and 7036350-802 / -812.

2. Purpose

Inform operators of failures with DU-1080 HW3 display units and encourage reporting of defects with these units.

3. Criticality of failure

Failure of the Primary Flight Display (PFD) or Multi-Function Display (MFD) in the case of single pilot operations is deemed as a MINOR failure condition due to display revisionary modes.

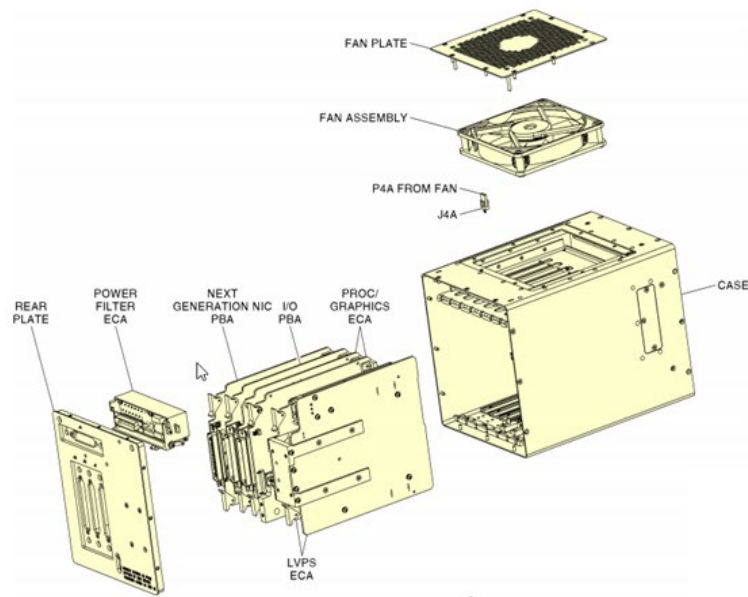
Dual failure of PFD and MFD in the case of single pilot operations is deemed as a HAZARDOUS failure condition. Failures of both PFD and MFD are determined as a common mode failure.

For definitions of MINOR and HAZARDOUS failure conditions see AC 29.1309 in FAA AC 29-2C.

4. Background

CASA has received reports from operators on poor reliability of Honeywell DU-1080 HW3 part numbers 7036340-802 / -803 and 7036350-802 / -812.

Failures of DU1080 HW3 are related to contamination of the memory chip cluster that is fitted to the M9 graphics processor.



CASA is continuing discussion with ENAC as the State of Design.

Honeywell have released two Service Bulletins (SB) aimed toward improving the reliability of the display units. The SBs introduces a modification (MOD G) that adds a parylene coating to the memory chips on the M9 graphics processor.

- SB 7036340-31-0006 - DU-1080-3 DISPLAY UNIT (DU) - UPDATE DU1080-3 (7036340-802/803).
- SB 7036350-31-0006 - DU-1080N-3 DISPLAY UNIT (DU) - UPDATE DU-1080N-3 DISPLAY UNIT (DU) (7036350-802/812).

5. Recommendations

When failure of a display unit occurs and submitting reports to CASA please provide,

- modification status,
- part number,
- note any unusual or extreme operating environmental factors,
- hours and cycles in service,
- single pilot or dual pilot operations.

6. Reporting

CASA encourages reporting of unserviceable display units via the Defect Report Service.



7. Enquiries

Enquiries with regard to the content of this Airworthiness Bulletin should be made via the direct link email address:

AirworthinessBulletin@casa.gov.au

or in writing, to:

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