



HELICOPTERS DIVISION

TECHNICAL INFORMATION LETTER

TIL N° T-139-24-002

DATE: February 23, 2024

REV.: /

To: Leonardo Helicopters products
Owners / Operators / Service Centres

SUBJECT: AW139 Primus Epic ® system software release 7.12 or 7.14 and Automatic Flight Control System (AFCS) robustness improvement

Helicopters Affected: All AB/AW139

References

[1] ISE – “AW139 AP Disconnect Update on events and action plan” Rev.3 dated February 26th, 2018

[2] BT139-414 – “Brackets Nose Installation” dated December 16th, 2015

[3] SIL AW139-16-072 – “Commercial Policy for BT139-414” dated February 24th, 2016

[4] SB 139-500 – ““Primus Epic®” Flight Software Release 7.12 & 7.14 upgrade”, dated October 31st, 2017

[5] AD 2018-0002 – ““Primus Epic” System Software – Software Update”, dated January 4th, 2018

Dear Customer/Operator,

With the present information letter, Leonardo Helicopters (LH) would like to provide to our Customers and Operators a summary of the actions put in place by LH to improve the robustness of the Automatic Flight Control System (AFCS) on our AW139 fleet, as previously reported in the In-Service Events (ISE) Update at Reference [1].

An improved configuration of the Attitude-Heading Reference-System (AHRS) mounting tray installation has been developed and certified to improve the robustness of installation in all flight conditions, especially during phases with significant level of vibration and during abrupt manoeuvring flight.

The structural change was introduced on new built aircrafts since September 2015 and introduced on in-service fleet through the Service Bulletin (SB) SB139-414 [Reference 2] issued on December

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2015. This Service Bulletin is at Customer's Option and commercially supported by LH as reported in the Service Information Letter (SIL) at Reference [3].

In addition to the above, with "Primus Epic ®" system release 7.12 or 7.14 a software upgrade has been developed and certified to prevent potential spurious in-flight occurrences affecting specific previous versions of the Primus Epic ® SW Phase 7 (in detail: SW Phase 7 release 7.4 or 7.7 or 7.10, as applicable).

LH published the SB 139-500 [Reference 4], providing instructions for embodiment of the software 7.12 or 7.14 (depending on Helicopter's hardware configuration) on in service fleet. This Service bulletin was endorsed by EASA on January 2018 through the AD 2018-0002 [Reference 5].

Should you need any additional information, please do not hesitate to refer to your usual contact within LH Engineering Support Team.

Yours Sincerely,



Marco D'Adamo
Leonardo Helicopters
Customer Support, Services & Training
Head of Product Support Engineering