

Safety Information Bulletin Airworthiness SIB No.: 2015-24 Issued: 10 November 2015

Subject: Material degradation of lead and socket assembly of SIRS Magnetic Standby Compasses

Ref. Publications:

SIRS Service Bulletin CE2-A26-34-001 revision 4 or later

Applicability:

All operators and design (change) approval holders (DOA) and production organisation approval holders (POA) of aircraft types fitted with SIRS Magnetic Standby Compasses, having a Part Number (P/N) as identified in Appendix 1 of this SIB.

These compasses are known to be installed on, but not limited to, aircraft manufactured by manufacturers as identified in Appendix 1 of this SIB.

Description:

During normal flight operations, it was detected on two different types of aircraft that the lead and socket assemblies feeding the standby compass lighting produced fumes, and in one case small flames. The root cause of this phenomenon is still undetermined and test data are still missing to confirm or not the unsafe condition. However, investigation revealed that a batch of 216 lead assemblies manufactured in July 2011 contain bogus material, which is considered to be one of the main contributors to these incidents. After performing a detailed research, the equipment manufacturer could not identify all deliveries containing defective lead assemblies.

At this time, the safety concern described in this SIB is not considered to be an unsafe condition that would warrant Airworthiness Directive (AD) action under Regulation (EU) <u>748/2012</u>, Part 21.A.3B. However, EASA may consider the publication of an AD as a follow up to the already published PAD 15-035 when more data is available or if additional event occurs.

Recommendation(s):

All operators and affected organizations (DOA and POA) in possession of lead and socket assemblies as identified in the Service Bulletin (SB) CE2-A26-34-001 revision 4 or later, are recommended

- to replace parts listed in the SB Table 3.0,
- for other parts, to perform the visual check and insulation resistance test in accordance with the instructions of the SB and to replace all leads not meeting the visual check criteria or showing an insulation resistance less than 10KΩ.

Replaced leads should be reported to the equipment manufacturer to support ongoing investigations and be returned to them upon request.

This is information only. Recommendations are not mandatory.



In addition, operators should report to the Type Certificate or Supplemental Type Certificate holders and to the Agency any smoke, fume or flame event experienced with such lead and socket assembly referring to this SIB.

Contact(s):

For further information contact the EASA Safety Information Section, Certification Directorate. E-mail: <u>ADs@easa.europa.eu.</u>

For any question concerning the technical content of this SIB, please contact: SIRS Navigation Ltd., Compass House, Bowes Estate, Wrotham Road, Meopham, Kent DA13 0QB, United Kingdom Telephone +44 (0) 1474-816320, or +44 (0) 7710480020, Fax +44 (0) 1474-816321, E-mail: <u>support@sirs.co.uk</u>.



Appendix 1 – Affected Standby Compasses and Manufacturers of (known to be) affected Aircraft

P/N	Aircraft Manufactured by
KCA0104W	 Beechcraft Corporation (formerly Hawker Beechcraft, Raytheon Aircraft Company, Beech Aircraft Corporation) Bombardier (formerly de Havilland Canada)
KCA0104FY	Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale)
KCA0105W	 Airbus (formerly Airbus Industrie) Sukhoi Civil Aircraft, JSC Bombardier (formerly De Havilland Canada) BAE Systems (Operations) Ltd (formerly British Aerospace) Dassault Aviation (formerly Avions Marcel Dassault – Breguet Aviation) ATR-GIE Avions de Transport Régional (formerly Aerospatiale-Aeritalia, Aerospatiale-Alenia, Aerospatiale ATR-ALENIA, EADS ATR-Alenia) Gulfstream Aerospace Corp.
KCA0106W	Fokker Aircraft B.V.
KCA0112W KCA0113W	Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale)
KCA0113FY	
KCA0116W	Bell Helicopters Textron, Inc.
KCA0114W	BAE Systems (Operations) Ltd (formerly British Aerospace)
KCA0120W	Embraer S.A.
WL1001KCA1	 Bombardier (formerly De Havilland Canada, Canadair) Dassault Aviation (formerly Avions Marcel Dassault – Breguet Aviation) 328 Support Services (formerly Dornier) RUAG Aerospace Services (formerly Dornier) Pilatus Aircraft Ltd. Beechcraft Corporation (formerly Hawker Beechcraft, Raytheon Aircraft Company, Beech Aircraft Corporation) SAAB AB, Aeronautics (formerly SAAB Aerosystems)
1007KCA1	Airbus Helicopters (formerly Eurocopter, Eurocopter France, Aerospatiale)

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