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To address this potential unsafe condition, SAFRAN Landing Systems (SLS), published Service Bulletin (SB) 631-32-249 for MLGs fitted on ATR 42-200, ATR 42-300 and ATR 42-320; SB 631-32-250 for MLGs fitted on ATR 42-400 and ATR 42-500; and SB 631-32-251 for MLGs fitted on ATR 72 (all models), to provide inspection instructions.

For the reasons described above, this AD requires repetitive detailed visual inspections (DVI) of the affected U-joints for cracks, and, depending on findings, replacement with a serviceable part.

#### **Required Action(s) and Compliance Time(s):**

Required as indicated, unless accomplished previously:

Note 1: SLS SB 631-32-249, SB 631-32-250 and SB 631-32-251, are hereafter collectively referred to as “the applicable SB” in this AD.

Note 2: For the purpose of this AD, the affected U-joints are listed by P/N and serial number (s/n) in the applicable SB.

Note 3: For the purpose of this AD, a “serviceable part” is an ‘affected’ U-joint (see Note 2 of this AD), released to service by SLS, free of defect, with the letter “K” added on the part (on the identification plate, or in the vicinity of the P/N marking), or a new (never installed) U-joint; or a U-joint repaired in accordance with SLS Component Maintenance Manual (CMM) 32-18-28 Rev. 10 or CMM 32-18-30 (both for ATR 42-200/300/320) Rev. 8 or CMM 32-18-45 Rev. 5 or CMM 32-18-63 Rev. 6 (both for ATR 42-400/500); or CMM 32-18-34 Rev. 9 (for ATR 72), as applicable, or later revision. The information of CMM revision used for the repair should be available in the EASA Form 1 of the part filled by the affected authorized repair company.

#### **Inspection:**

- (1) Within 3 months or 500 flight cycle (FC), whichever occurs first after the effective date of this AD, and, thereafter, at intervals not to exceed 500 FC, inspect each affected U-joint (see Note 2 of this AD) in accordance with the instructions of the applicable SB.

#### **Corrective Action(s):**

- (2) If, during any inspection as required by paragraph (1) of this AD, a U-joint is found damaged, before next flight, replace the U-joint of the affected MLG with a serviceable part (see Note 3 of this AD) in accordance with the instructions of the applicable SB.

#### **Terminating Action:**

- (3) Replacement on an aeroplane of all affected U-joints with serviceable parts (see Note 3 of this AD) constitutes terminating action for the repetitive inspections as required by paragraph (1) of this AD for that aeroplane.

#### **Part(s) Installation:**

- (4) From the effective date of this AD, installation on an aeroplane of a MLG U-joint is allowed, provided the MLG U-joint is a serviceable part (see Note 3 of this AD).



**Ref. Publications:**

SAFRAN Landing Systems SB 631-32-249 Rev. 01 dated 26 June 2017.

SAFRAN Landing Systems SB 631-32-250 Rev. 01 dated 26 June 2017.

SAFRAN Landing Systems SB 631-32-251 Rev. 01 dated 26 June 2017.

SAFRAN Landing Systems CMM 32-18-28 Rev. 10 dated 02 June 2017.

SAFRAN Landing Systems CMM 32-18-30 Rev. 8 dated 02 June 2017.

SAFRAN Landing Systems CMM 32-18-45 Rev. 5 dated 02 June 2017.

SAFRAN Landing Systems CMM 32-18-63 Rev. 6 dated 02 June 2017.

SAFRAN Landing Systems CMM 32-18-34 Rev. 9 dated 02 June 2017.

The use of later approved revisions of these documents is acceptable for compliance with the requirements of this AD.

**Remarks:**

1. If requested and appropriately substantiated, EASA can approve Alternative Methods of Compliance for this AD.
2. This AD was posted on 06 July 2017 as PAD 17-097 for consultation until 03 August 2017. The Comment Response Document can be found in the [EASA Safety Publications Tool](#), in the compressed (zipped) file attached to the record for this AD.
3. Enquiries regarding this AD should be referred to the EASA Safety Information Section, Certification Directorate. E-mail: [ADS@easa.europa.eu](mailto:ADS@easa.europa.eu).
4. For any question concerning the technical content of the requirements in this AD, please contact: ATR - GIE Avions de Transport Régional, Continued Airworthiness Service, Tel.: +33 (0)5 62 21 62 21 - Fax: +33 (0) 5 62 21 67 18; E-mail: [continued.airworthiness@atr-aircraft.com](mailto:continued.airworthiness@atr-aircraft.com).

