

SERVICE BULLETIN

Service Bulletin No.	SB-ESCAPE214_002
Service Bulletin Affected Parts	Tail rotor drive shaft
Revision	Rev. 00
Issue date	13 July, 2026
Classification	Mandatory
Aircraft type / model	ESCAPE 214
Affected serial numbers	007 - 008
Prepared by	Alessandro Berion
Approved by	Roberto Lamanna

Summary

Following the detection of a straightness non-conformity on the tail rotor drive shaft, causing cyclic vibration, LAMANNA HELICOPTER prescribes the replacement of the drive shaft and the subsequent tail rotor balancing, as described in this Service Bulletin.

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1) Planning information

To obtain satisfactory results, the procedures specified in this publication must be accomplished with accepted methods in accordance with prevailing legal regulations. **LAMANNA HELICOPTER** cannot accept responsibility for the quality of work performed in accomplishing the requirements of this publication.

1.1) Applicability

Aircraft type	Serial number	Configuration / variant
ESCAPE	007 - 008	ESCAPE 214

1.2) Concurrent and related documents

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1.3) Reason

It has been found that the tail rotor drive shaft presents a straightness non-conformity, which generates a cyclic vibration during operation. This vibration prevented tail rotor balancing, as the data read by the accelerometer was distorted. The issue is resolved by replacing the shaft with a component conforming to the standard defined by LAMANNA HELICOPTER.

1.4) Subject

Replacement of the tail rotor drive shaft and perform tail rotor balancing.

1.5) Compliance

Classification: Mandatory

Time of compliance: before the next flight following receipt of this Service Bulletin. The corrective actions referred to in section 3 must be completed before returning the helicopter to service.

WARNING

Non-compliance with these instructions could result in engine damages, personal injuries or death.

1.6) Approval

The technical content of this Service Bulletin is approved under the technical responsibility of LAMANNA HELICOPTER, as manufacturer of the ESCAPE helicopter.

1.7) Labour time

Approximately 8 working hours.

1.8) Mass and balance data

Change of empty weight:	none
Change of CG:	none
Moment of inertia:	none

1.9) Electrical load data

No change.

1.10) Software / avionics configuration

No change.

1.11) References

- [1] Maintenance Manual (**MM_ESCAPE_214-ENG_Rev01**):
 - Tail rotor disassembly: Chapter 4.6.2
 - Tail rotor drive shaft disassembly: Chapter 4.8.2
 - Tail rotor drive shaft assembly: Chapter 4.8.3
 - Tail rotor assembly: Chapter 4.6.3
 - Tail rotor balancing: Chapter 5.3

1.12) Other publications affected

None.

1.13) Interchangeability of parts

Old drive shaft: Removed and rendered unusable.

2) Material information

2.1) Material

The component required to accomplish this Service Bulletin is supplied by LAMANNA HELICOPTER.

2.2) Company support information

LAMANNA HELICOPTER supplies free of charge the material required to accomplish this Service Bulletin. Labour is at the operator's expense. Technical support is provided by LAMANNA HELICOPTER, contactable at the references indicated in section 3.8.

2.3) Material requirement per aircraft

Fig.	Position	Part no.	Qty	Description	Application
1.0	A	LH212-008-001-000	1	Tail rotor drive shaft assembly	Overall helicopter assembly

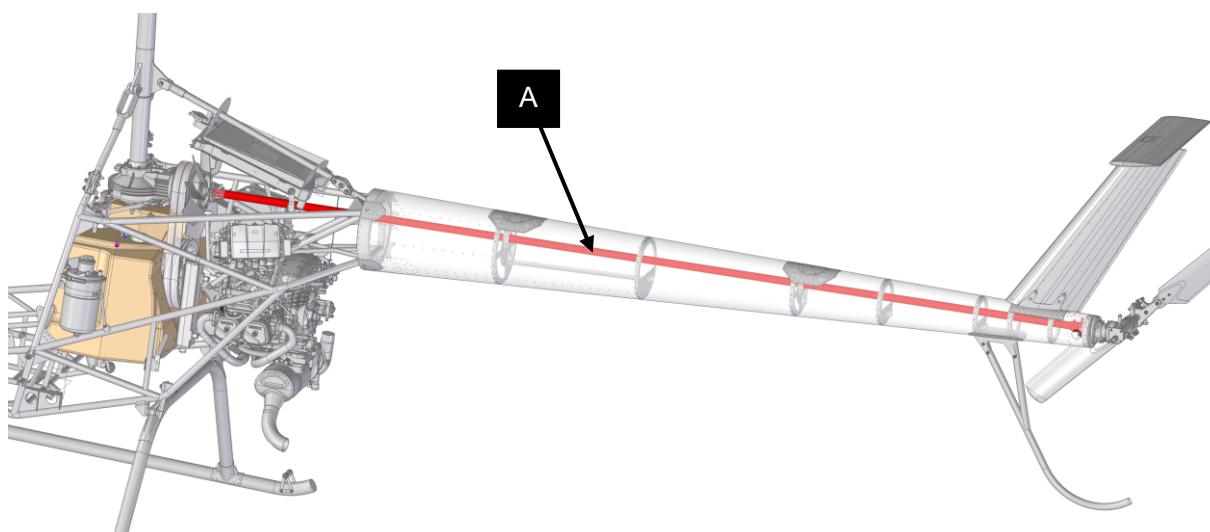


Fig. 1.0: Tail rotor drive shaft representation in the overall helicopter assembly.

Tail rotor shaft assembly representation:

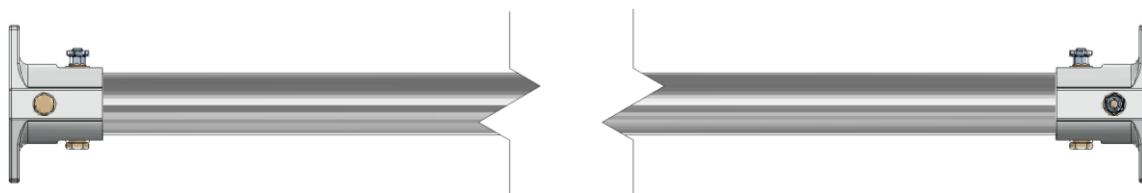


Fig. 2.0: Tail rotor shaft assembly representation.

2.4) Material requirement per spare part

The currently installed fastening hardware (screws, nuts, washers) must be reused. No new hardware is required. At LAMANNA HELICOPTER's discretion, all fastening hardware required for installation may be included in the shipped assembly; in this case, the operator is not required to purchase any hardware.

2.5) Rework of parts

None.

2.6) Special tooling, consumables, adhesives and sealants

None.

3) Instructions

NOTE

Before starting, review the entire document to ensure a complete understanding of the procedure and requirements.

3.1) Removal

Step	Procedure
1	Remove tail rotor. Refer to 1.11 References.
2	Remove tail rotor drive shaft. Refer to 1.11 References.
3	Disassemble the rear Thomas joint from the drive shaft assembly

3.2) Inspection

Step	Inspection / criterion	Limit / acceptance
1	Inspect new tail rotor drive shaft assembly (P/N LH212-008-001-000) for shipping/handling damage prior to installation.	No visible damage, deformation, or corrosion.

3.3) Installation

NOTE

Torque values for all fasteners are specified in Maintenance Manual [1], Chapter 2.5 Fastener Information, according to the applicable fastener category.

Step	Procedure
1	Assemble the rear Thomas joint to the drive shaft assembly
2	Install tail rotor drive shaft. Refer to 1.11 References.
3	Reinstall tail rotor. Refer to 1.11 References.
General	Reuse existing fastening hardware (bolts, nuts, washers) as specified in Section 2.4.

3.4) Adjustment / rigging

Perform tail rotor balancing. Refer to 1.11 References.

3.5) Finishing work

Restore the aircraft to its original operating configuration.

3.6) Functional / ground test

Perform a ground run in accordance with the applicable Maintenance Manual procedure. Verify absence of abnormal vibration on the tail rotor drive train. If abnormal vibration persists, contact LAMANNA HELICOPTER Technical Department before returning the aircraft to service.

3.7) Summary

These instructions (section 3) must be completed within the deadline specified in section 1.5. Execution of this Service Bulletin must be recorded in the aircraft logbook.

3.8) Inquiries

Inquiries regarding this Service Bulletin should be addressed to:

- technical@lamannahelicopter.com