



TECHNICAL INFORMATION LETTER

TIL N° T-109SP-21-004
T-109S-21-002
T-109E-21-001
T-109L-21-001
T-119-21-002

DATE: December 14, 2021

REV.: /

To: Leonardo Helicopters products
Owners / Operators / Service Centres

SUBJECT: Inspection of Main Rotor Scissor Chain

Helicopters Affected: A109E, A109S, AW109SP, A109S with Trekker kit,
A109LUH/LOH, A119/AW119MkII

Dear Customer,

with the present letter Leonardo Helicopters (LH) wishes to provide you with advanced information on the Alert Service Bulletins (SBA) 109SP-149, 109S-105, 109L-117, 109EP-177 and 119-111 that are going to be released for subject helicopters equipped with Main Rotor (M/R) Upper and Lower Scissor Lever Assemblies P/N 109-0134-23-105 and P/N 109-0134-25-101 or P/N 109-8110-16-1 and P/N 109-0134-10-105.

During on-ground maintenance scheduled inspections and during Pilot's Daily Pre-Flight Checks of the rotating scissor for condition and security, some cases of excessive axial play on the ball bearing of the lower half of the M/R rotating scissor assy were reported. In few cases this resulted in the slippage of the ball bearing outside its seat without jeopardizing the functionality of the scissor assy.

As a consequence, LH decided, as a precautionary measure, to issue the aforementioned SBA to request a one-time check to evaluate the correct coupling between the two halves of the rotating scissor assy and to check the axial play of the ball bearing P/N NHBV6V204.

In case non-conformities are detected, the SBA will provide instructions to monitor the axial play until the replacement of the affected parts. In addition, the SBA will give additional instructions to perform qualitative and quantitative evaluations of the axial play of the ball bearing as a regular inspection task.

Inspection of Main Rotor Scissor Chain

Please be also informed that a dedicated Airworthiness Directive (AD) will be issued by EASA on the subject.

LH would like also to remind the importance to return the relevant SBA compliance form, as per the instructions of the SBA, that can be performed via the following channels:

- by e-mail to engineering.support.lhd@leonardocompany.com
- via *Leonardo Customer Portal* (My Communications section - "Service – Technical Bulletin Application").

The screenshot displays the Leonardo Customer Portal interface. At the top, there is a red navigation bar with the Leonardo logo and the text 'Leonardo Customer Portal'. Below this, a secondary navigation bar contains various menu items: News, What's New, My Communications, My Fleet, LogBooks, My Publications, My Software, Store, Heliwise, Account & Settings, Help, and Reporting. A dropdown menu is open under 'My Communications', listing options: Technical Query, Customer Commercial Query, Feedback, Technical Publication Query, Service - Technical Bulletin Application (highlighted with a green box), and Service Plan Monthly Report. Below the navigation, the main content area features a breadcrumb trail: Home > My Communications > Service - Technical Bulletin Application. The title 'Service - Technical Bulletin Application' is prominently displayed. Underneath, there are two dropdown menus: 'Last Week' and 'Sent To Leonardo'. A search bar is present with a 'NEW' button. Below the search bar, there is a 'FILTERS' dropdown. A table with various columns is shown, but it is empty, displaying 'No data available in table'. The columns include Document ID, Helicopter S/N, Service Bulletin ID, H/C Model, Revision, Part Numbers, Component S/N, Total Flight Hours, Last Flight Hours Date, Note/Description, and Creation. At the bottom of the table area, it says 'Showing 0 to 0 of 0 entries' and 'Previous Next'.

Should you need any additional information, please do not hesitate to refer to LH Engineering Services support team (engineering.support.lhd@leonardocompany.com).

Yours Sincerely,

Gabriele Bordino
Head of Product Support Engineering