

MODELS AFFECTED: 407

SUBJECT: ENGINE, HYDROMECHANICAL UNIT –
INSPECTION OF HMU DRIVE SPLINES

HELICOPTERS AFFECTED: All 407 helicopters

COMPLIANCE: As specified in Rolls-Royce Allison Commercial
Engine Bulletin CEB A-73-6030

DESCRIPTION:

Chandler Evans (CECO) has told Bell Helicopter that some Hydromechanical Units (HMU's) have been identified with more wear than permitted on the inboard spline of the main driveshaft at relatively low hours.

To make sure the inboard splines are servicable, you must comply with Rolls-Royce Allison CEB A-73-6030 on a recurring schedule. The HMU can be returned to service if you have permitted spline wear.

CECO has a rotatable pool of HMU's for units which fail the inspection.

Bell Helicopter and Rolls-Royce Allison are working with Chandler Evans to make sure that a solution to the spline wear of the HMU is completed as quickly as possible.

If it is necessary to phone or fax the Chandler Evans Customer Support Department for a HMU replacement or for more information, use the numbers that follow:

Regular business hours phone: 1-860-523-2235, 1-860-523-2236 or 1-860-523-2255

After hours or weekend phone: 1-860-236-0651

Fax: 1-860-232-1873 or 860-523-2237

If you cannot get in touch with Chandler Evans, get in touch with Rolls-Royce Allison for help at the numbers that follow:

Phone: 1-888-255-4766 (International customers use USA direct) or 1-317-230-6400

Fax: 1-317-230-4243

APPROVAL:

Not necessary.

MANPOWER:

Approximately 3.0 man-hours are necessary to do this bulletin. The man-hours are based on hands-on time and can change with the personnel and the available facilities.

MATERIAL:

Not applicable.

SPECIAL TOOLS:

As specified in CEB A-73-6030.

WEIGHT AND BALANCE:

Not affected.

ELECTRICAL LOAD DATA:

Not affected.

REFERENCES:

As specified in CEB A-73-6030.

PUBLICATIONS AFFECTED:

Not affected.

ACCOMPLISHMENT INSTRUCTIONS:

1. For the removal of the HMU, refer to chapter 73-21-01 of the Allison 250-C47B Series Operation and Maintenance Manual.
2. Do the tasks specified in the Rolls-Royce Allison CEB A-73-6030.
3. For the installation of the servicable HMU, refer to chapter 73-21-01 of the Allison 250-C47B Series Operation and Maintenance Manual.
4. Do the 407 Flight Manual Procedures that follow:
 - a) Do the PREFLIGHT and PRESTART CHECK procedures.
 - b) Do the ENGINE START procedure.
 - c) Do the FADEC MANUAL CHECK procedure.
 - d) Do the ENGINE RUNUP procedure.
 - e) Do the ENGINE SHUTDOWN procedure, use the Overspeed shutdown test.
5. Make an entry in the helicopter historical records to show that this Alert Service Bulletin is completed.
6. Make an entry in the Record of Alert Service Bulletins in the Maintenance Manual.
7. Make an entry in the Engine Log Book, HMU Assembly (yellow pages), Part III, Modification Record.
8. Return the aircraft to service.