



SCHWEIZER SERVICE BULLETIN

B-272
18 Feb 2000

MANDATORY

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SUBJECT: INSPECTION/REPLACEMENT CRITERIA FOR CERTAIN UPPER H-FRAME BEARINGS (Schweizer P/N 269A5050-78)

MODELS AFFECTED:

- Any Model 269A, TH-55A, A-1, B & C Helicopter equipped with a 2695050-78 upper H-frame bearing manufactured by MRC Aerospace P/N MRC 207SZZ35, S/N 001 thru 250.)

NOTE

Only 2695050-78 bearings received from Schweizer Aircraft on or after 30 Apr 1999 (as spares or installed in new helicopter) are affected by this Service Bulletin. If installation date is unknown, this Service Bulletin must be performed as necessary to positively identify the installed bearing.

TIME OF COMPLIANCE:

PART I

- Within the next five hours flight time or 30 days from issue date of this Service Bulletin, whichever occurs first: Determine if suspect bearings are installed by reviewing aircraft records or by visual check using applicable steps of this Service Bulletin.
- If identified as suspect bearings, return completed Reply Card to Schweizer Aircraft Corp.

PART II

- For any affected helicopter with more than 50 hours service life on the suspect bearing - within next five hours flight time and at 50-hour intervals thereafter.
- For any affected helicopter with less than 50 hours service life on the suspect bearing - at each 50-hour interval.

PART III

- Retire bearing prior to reaching 300-hour time in service

REFERENCE: 269A, TH-55A, A-1, B & C Basic HMI (Issued: 15 Mar 1982; Revised 12 Feb 1999)

PREFACE: ● Certain 269A5050-78 bearings manufactured by MRC have excess radial and axial play between the inner and outer races. This Service Bulletin requires repetitive disassembly, inspection and relubrication and establishes a reduced life for the affected bearings.

- Failure to comply with this Service Bulletin may lead to loss of control of the helicopter, and subsequent serious injury, death and/or property damage.

PROCEDURE

PART I

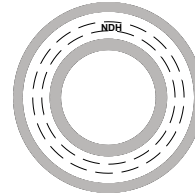
- a. To determine if suspect bearings are installed and/or prepare for bearing inspection, disassemble the belt drive transmission as necessary to gain access to the upper H-frame bearings (Basic HMI, Section 10). The forward and aft bearing clamps (caps) must be removed for inspection and cleaning.

NOTE

If excessive grease is found outside the bearing grease seals, determine that bearing has adequate lubrication.

- b. Clean grease etc. from bearing area. Read identifying numbers on bearing seal and/or race. Perform step **c.** or **d.** below, as applicable.

- c. If the bearing has (1) An inner race impression stamped NDH; (2) A green seal (darkens with age) with two concentric dashed circles and marked NDH it **is not affected** by this Service Bulletin; reassemble belt drive components (Basic HMI, Section 10); record compliance (step **i.** below).



- d. If the bearing is stamped MRC 207SZZ35, S/N 001 thru 250, it **is affected** by this Service Bulletin; comply with Part II of this publication as indicated in the time of compliance section of this bulletin. Remove belt drive covers and do not reinstall until acceptable bearings are installed (to facilitate preflight inspection). Additionally, monitor for grease loss at bearings during preflight and service bearings as required.

PART II

- e. Remove grease seals and clean both bearings (Basic HMI, Paragraph 10-40).
- f. Using a 5X magnifying glass, visually inspect both bearings according to Paragraph 10-40. Use special care when checking for damaged bearing cage and balls and raceways. Replace bearing(s) if defective with serviceable bearing(s) (Basic HMI, Section 10).
- g. Lubricate serviceable bearings (Paragraph 10-40).
- h. Reassemble belt drive components (Basic HMI, Section 10).
- i. Record compliance with this Service Bulletin in the aircraft records.

PART III

- a. Remove from service and identify unserviceable bearing and return bearing to Schweizer Aircraft for engineering evaluation. Install serviceable bearing in accordance with Basic HMI Section 10.
- b. Record compliance with this Service Bulletin in the aircraft records.

WEIGHT AND BALANCE

Weight and balance are not affected.

CUSTOMER REPLY CARD FOR SUSPECT BEARING

For Service Bulletin B-272 (269A5050-78)

Customer Name: _____ Helicopter Model: _____

Customer Address: _____ Helicopter Serial Number: _____

Bearing Part Number: **MRC 207SZZ35** _____ Bearing Serial Number: _____

Hours on Bearing at Time of Initial Inspection: _____

Mail to: Customer Service Department
Schweizer Aircraft Corp.
P.O. Box 147
Elmira, NY 14902
ATTN: Dave Roemer

Fax: (607) 739-3821