



# SCHWEIZER SERVICE BULLETIN

B-243  
8 May 1992

MANDATORY

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**SUBJECT: CORROSION DAMAGE INSPECTION OF MAIN ROTOR DRIVE SHAFT P/N 269A5305**

**MODELS AFFECTED: All Model 269 Series Helicopters**

- TIME OF COMPLIANCE:**
- All 269A, TH-55A, 269A-1 and 269B Model Helicopters and 269C Helicopters, serial numbers 0001 thru 1522 or installed main rotor drive shafts delivered prior to 1 Mar 91; at next 12 month inspection or 12 months from issue of this Service Bulletin, whichever occurs first.
  - All 269 Series Helicopters: At each 12 month inspection in accordance with HMI Appendix B, as amended by HMI Temporary Revision R-57.

- REFERENCE:**
- 269 Series Basic HMI (Reissued: 15 March 1982; Revision 3: 8 May 1992)
  - 269 Series HMI, Appendix B (Reissued: 15 Aug 82)
  - R-57-HMI Temporary Revision 57 (8 May 92)
  - R-58-HMI Temporary Revision 58 (8 May 92)
  - R-60-HMI Temporary Revision 60 (8 May 92)
  - L-154 - Service Letter 154 (8 May 92)

**PREFACE:** Field reports indicate that some main rotor drive shafts have developed internal corrosion. This Service Bulletin provides instructions for performing corrosion inspection and treatment of the main rotor drive shaft. 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:**

- a. Remove main rotor drive shaft assembly in accordance with Basic HMI, Section 10 using Method I.
- b. Clean entire main rotor drive shaft, in accordance with Basic HMI, Section 10, as amended by Basic HMI, Revision 3.
- c. Inspect entire length (interior and exterior) of main rotor drive shaft for evidence of corrosion in accordance with the Basic HMI, Section 10, as amended by Basic HMI, Revision 3.

- d. If both exterior and interior visual inspections of painted shaft reveal no signs of corrosion:
- (1) Reassemble main rotor drive shaft assembly and install in aircraft (Basic HMI, Section 10).
  - (2) Record compliance with this Service Bulletin in the aircraft records.
- e. If either exterior or interior visual inspection of painted shaft reveals a non-correctable condition as shown in Basic HMI, Figure 10-3A, remove main rotor drive shaft assembly from service.
- (1) Assemble serviceable main rotor drive shaft assembly and install in aircraft (Basic HMI, Section 10).
  - (2) Record compliance with this Service Bulletin in the aircraft records.

**NOTE**

Service Letter 154 provides a list of facilities with the required equipment for corrosion treatment and media blasting procedures.

Schweizer Aircraft does not warrant or otherwise take responsibility for the capabilities or workmanship of any facility other than Schweizer Aircraft Corporation.

- f. If either exterior or interior visual inspection of painted shaft reveals a correctable condition as shown in Basic HMI, Figure 10-3B, or if it is difficult to determine exact condition, treat corrosion in accordance with the Basic HMI Section 10, as amended by Basic HMI, Revision 3; or return hub and shaft assembly to Schweizer Aircraft for inspection and/or repair.
- (1) Install serviceable main rotor drive shaft assembly (Basic HMI, Section 10).
  - (2) Record compliance with this Service Bulletin in the aircraft records.

**WEIGHT AND BALANCE**

Weight and balance are not affected.