



SCHWEIZER SERVICE LETTER

DL-002
6 July 1999

SUBJECT: NEW SPLINED MAIN ROTOR HUB AND DRIVE SHAFT DESIGN WITH INCREASED TIME LIFE.

MODELS EFFECTED: 269D/330SP Helicopters equipped with large Main Rotor Hub.

REFERENCE: Model 269D Basic HMI, Section 8 and 10, Revised 30 June 1999.

Schweizer Aircraft Corp. has received FAA approval for a new Splined Oil Filled Main Rotor Drive Shaft design with a new time life limitation of 1600 hours. The original 1,000 hour life limited 269A5305-139 Large Main Rotor Hub and Drive Shaft Assembly that utilizes bolts to attach the hub to the drive shaft, has been removed from production and is no longer procurable. All new Model 269D/330SP helicopters beginning with serial number 26, are being delivered with the new splined hub and shaft assembly installed. Beginning in July 1999, all spare large hub drive shaft orders will be filled with the new design.

The new design uses a nut to attach a splined large main rotor hub to a splined oil filled drive shaft assembly. This has eliminated the requirement of the hub and shaft being maintained as a matched set. With this new design, individual parts can be procured separately. Therefore, when the drive shaft reaches it's life limit, only a replacement drive shaft need be ordered. The hub, that has a 7,500 hour life limit, and associated components will remain in service.

This new installation requires no changes to rotor system components or flight controls on helicopters that have been modified to use the original large main rotor hub design. To upgrade a 269D helicopter previously equipped with a large rotor hub, order one each of all the following parts;

<u>PART NUMBER</u>	<u>DESCRIPTION</u>	<u>LIFE LIMIT</u>
269D5308-1	Oil filled main rotor drive shaft assembly	1600 hours
269D5309-1	Main rotor hub assembly	7500 hours
269D5312-7	Upper collet	On cond.
269D5312-9	Lower collet set (matched set of two)	On cond.
269D5313-1	Locknut assembly	On cond.
269D5313-5	Retention nut	On cond.
269D5314-3	Washer	On cond.

A limited number of used 269A5305-127 Small Main Rotor Hub and Shaft Assemblies remain in stock. After these stocks are depleted, the small main rotor hub will no longer be available and the helicopter must be up-graded to the current configuration. This will require the helicopter to be modified to accept the large hub design by installing the SA-269KD-013-3 Large Diameter Main Rotor Hub kit that includes the above listed parts. The Large Diameter Main Rotor Hub installation requires the use of the 269A1185-5 Long Tab Main Rotor Blade Assemblies, that in turn requires the installation of the SA-269KD-009-1 Long Tab Main Rotor Blade kit. When making these up-grades, it is highly recommended that the new 269A5050-95 Main Rotor Drive Shaft Thrust Bearing be installed. See Service Letter DL-003 for details.

SCHWEIZER AIRCRAFT CORP.


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