



# SCHWEIZER SERVICE BULLETIN

B-284.1\*  
18 Sep 2006

MANDATORY

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**SUBJECT:** MODIFICATION OF 269A4564-5 AND -7 LINEAR ACTUATORS

- MODELS AFFECTED:**
- Model 269A, A-1, and 269B helicopters equipped with 269A4564-7 Calco/CEF Industries Inc. Linear Actuators.
  - Model TH-55A's and 269C helicopter serial numbers 0001 through 1735 equipped with 269A4564-5 Calco/CEF Industries Inc. Linear Actuators.
  - All 269A4564-5 and -7 actuators in spares stock.

**TIME OF COMPLIANCE:** Within 500 hours of flight time or within 15 months from original issue date of this Service Bulletin (14 July 2005), whichever occurs first.

NOTE

The lead time for production of the SA-269K-116 modification kit is 26 weeks. A limited quantity of kits will be available in July of 2005 and these will be sold on a first come - first served bases. Due to the production lead time required, it is strongly recommended that immediately after receipt of this bulletin, a check of the actuator part number for applicability to this bulletin be made and a modification kit ordered accordingly. Orders should be placed within the next six months in order to assure actuator modification within the fifteen months compliance time.

- REFERENCE:**
- Model 269A, TH-55A, A-1, B & C Basic HMI (Issued 15 Mar 1982, Revised 02 Jun 2006).
  - CEF Industries Inc. Overhaul Manual with Illustrated Parts List, document number OM8377M2/M23.

- PREFACE:**
- There have been reports of fractures of the output shaft in certain 269A4564-5 Calco/CEF Industries Inc. linear actuators. Schweizer Aircraft suspects that this may be due to inappropriate application of a side load to the extended shaft during maintenance/inspection procedures. Failure of the shaft results in the loss of drive to the rotor system. With the exception of the voltage of the electric motor, the 269A4564-5 and 269A4564-7 assemblies are identical and both contain shafts subject to this Service Bulletin. The 269A4564-5 actuator assembly was replaced by the 269A4564-9 assembly and the 269A4564-7 assembly has been replaced by the 269A4564-11 assembly. The -9 and -11 assemblies contain a shaft with increased wall thickness and are not subject to this Service Bulletin. Installation of Schweizer Aircraft Corp. Linear Actuator Modification Kit SA-269K-116-1 in a 269A4564-5 or SA-269K-116-3 in a 269A4564-7 assembly upgrades them to -9 or -11 assemblies respectively.

\*Supersedes B-284, Dated 14 Jul 2005

- Failure to comply with this Service Bulletin may lead to loss of power to the rotor system resulting in an emergency autorotative landing.

**FAA APPROVAL:** Engineering aspects of this Service Bulletin (B-284.1) are FAA approved.

**PARTS REQUIRED:** SA-269K-116-1 or -3 Linear Actuator Modification kit.

Aeroshell 17 grease	MIL-G-21164
Lockwire	MS20995C-020

**PROCEDURE:**

- a. Check part number on Calco/CEF Industries linear actuator. All 269A4564-5 and 269A4564-7 actuator assemblies must be modified in accordance with this Service Bulletin.
- b. Remove linear actuators that are subject to this bulletin from helicopter in accordance with Basic HMI, Section 10.
- c. Modify 269A4564-5 linear actuator assembly to a 269A4564-9 actuator assembly using modification kit SA-269K-116-1 or modify 269A4564-7 actuator assembly to a 269A4564-11 actuator assembly using kit SA-269K-116-3 in accordance with installation instructions found on SA-269K-116 kit drawing.
- d. Install actuator and adjust belt drive tension in accordance with Basic HMI Section 10.
- e. Record compliance with this Service Bulletin in helicopter records.

**WEIGHT AND BALANCE**

Weight and Balance are not affected.