

R44

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SERVICE BULLETIN SB-33

DATE: 3 May 1999

TO: All R44 Owners, Operators, and Service Centers

SUBJECT: C051-1 or -2 Belt Tension Actuator

ROTORCRAFT AFFECTED: R44 Helicopters S/N 0001 thru 0598 and 0600.

TIME OF COMPLIANCE: Within next 100 flight hours or by 31 July 1999, whichever occurs first.

BACKGROUND: RHC has received C051 actuators which have buckled due to overtensioning of the drive vee-belts. Normally, the actuator fuse will prevent an overtension due to a malfunction. However, in some cases, a vibrating switch may allow the actuator to gradually overtension without blowing the fuse. Switch vibration can be aggravated by an out-of-balance cooling fan. RHC has designed an electronic time delay which prevents the actuator motor from running until the switch contacts have been closed for approximately 1/4 second. The time delay will prevent the actuator from overtensioning and also prolong actuator switch life.

COMPLIANCE PROCEDURE:

1. Order KI-145 kit.
2. Install D602-1 Actuator Time Delay per kit instructions.
3. Verify correct actuator fuse is installed. Buss AGC 3 fuse for C051-1 actuator (14 volt) or Buss AGC 1 1/2 fuse for C051-2 actuator (28 volt) are the only RHC-approved fuses. Operating with any other fuse significantly increases the risk of actuator malfunction.
4. Verify fan balance per R44 Maintenance Manual Section 6.240.
5. Make appropriate maintenance record entries.

Approximate Cost:

Parts: \$40.00

Labor: 1.5 manhours.