

**ROBINSON**  
**HELICOPTER COMPANY**

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SERVICE BULLETIN #30

Date: 12 April 1983

To: R22 Owners and Operators

Subject: Check of Low RPM Warning System

Rotorcraft Affected: R22 Helicopters S/N 0002 thru S/N 0332

Time for Compliance: Within the next 50 flight hours.

Background: The FAA has found some R22 helicopters in service in which the low-RPM warning system would not function with the MASTER-BATT switch in the OFF position. With the switch in this position, the system is dependent on the electrical power supplied by the alternator.

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Compliance Procedure:

During ground runup, set the engine and rotor RPM at 100%, switch off the MASTER-BATT switch, leaving the ALT switch ON. Turn off all other non-essential electrical equipment, such as the heater, avionics, etc. Raise the collective slightly and reduce RPM to check the low-RPM warning system.

If the system does not function, check the output voltage from the alternator. If it is not within the limits specified in the Maintenance Manual, replace the voltage regulator and over-voltage relay with a new voltage controller, Kit KI-22, available from the factory.