

# ROBINSON HELICOPTER COMPANY

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## SERVICE BULLETIN #38

DATE: 17 February 1984

TO: R22 Owners and Operators

SUBJECT: Main Rotor controls sticking or binding

ROTORCRAFT AFFECTED: Aircraft S/N 0002 through S/N 0393

TIME OF COMPLIANCE: Daily check by pilot unless RHC Kit KI-31 installed

BACKGROUND: On several high time R22s, binding of the collective while the cyclic is being moved has been reported. The binding occurs between the swashplate ball and its retainer. Installing kit KI-31 which includes a new ball and a modified sleeve will prevent binding.

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### PROCEDURE:

Following check to be accomplished as part of the pilot's daily pre-flight check:

1. Remove cyclic and collective frictions.
2. Roll throttle OFF into detent and hold OFF.
3. Simultaneously move cyclic through its full force-aft and left-right travel while raising and lowering collective. Smooth, free movement of controls should be felt.
4. If sticking or binding of collective is found, remove and return A017-2 swashplate and A006-3 slider tube to RHC for installation of KI-31 Kit.
5. If return to RHC is not possible, order kit KI-31 and install per section 8.413 Change 4, dated 24 February 1984, of the R22 Maintenance Manual.

Approximate cost:	Material (KI-31 Kit)	\$380
	Labor	7 manhours