



SERVICE BULLETIN

DATE: 25 JANUARY 1993

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RATE GYRO INSPECTION AND REPLACEMENT

1. PLANNING INFORMATION:

A. Summary:

Astronautics Corporation has notified McDonnell Douglas Helicopter Company (MDHC) that a limited number of rate gyros manufactured by them for the SAS system may be defective. The suspect units are serialized 008983-0001 thru 0089983-0021. Any malfunction would cause an increase in pilot workload (additional force needs to be applied to the controls) during partial power descent. MDHC requires that all operators who have helicopters equipped with any of the listed serialized rate gyros, remove those rate gyros and return them to MDHC for a replacement part.

B. Purpose:

To ensure that any possible defective rate gyro is removed and replaced on all MD500N series helicopters.

C. Models Affected:

All MD500N Series helicopters equipped with rate gyro 500N7302-1, serial numbers 008983-0001 thru 008983-0021.

D. Time of Compliance:

The requirements of this Notice shall be accomplished within 300 hours of helicopter operation after receipt of parts or no later than July 31, 1993.

E. FAA Approval:

The design engineering aspects of this notice have been shown to comply with the applicable Federal Aviation Regulations, and are FAA approved.

F. Assembly/Components Affected by this Notice:

500N7302-1 rate gyro.

G. Weight and Balance:

Not affected.

H. Reference Publications:

369D/E/F/FF/500N HMI (CSP-HMI-2) Revised 21 December 1992

PARTS/SUPPLIES			
Nomenclature	Part No.	Qty.	Source
Rate Gyro	500N7302-1	1	MDHC (Replacement rate gyros must be ordered through MDHC's Commercial Warranty and Repair Department.

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2. AIRCRAFT INSPECTION AND/OR REWORK PROCEDURE:

CAUTION When removing or installing a rate gyro, it is to be treated as a delicate instrument. Do not bump, drop, strike, tumble or jolt it as damage may occur to the gyro.

- (1). Determine the serial number of the 500N7302-1 rate gyro.
- (2). Remove all rate gyros serial numbers 008983-0001 **thru** 008983-0021 and return those rate gyros to MDHC Commercial Warranty and Repair Department for a free replacement part (see the following note).

CAUTION Rate gyros reworked by Astronautics will be identified by the letter "M" following the serial number (i.e. 008983-0021M).

- (3). Install an acceptable rate gyro.
- (4). Record compliance to this Service Information Notice in the compliance record section of the helicopter Log Book.

3. RECORDING AND COMPLIANCE:

Record compliance to this Service Information Notice in the Compliance Record section of the helicopter Log Book.

4. POINTS OF CONTACT:

For further information, contact your local MDHC Field Service Representative (refer to the latest revision of the Product Support handbook for address and telephone numbers) or contact the MDHC Warranty and Repair Department, Mesa, Arizona. Telephone: 1-800-388-6342, ext. 1-8565. Datafax: (602)891-3952.

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