

*McDonnell Douglas*  
*Helicopter Company*  
**SERVICE INFORMATION NOTICE**

NOTICE NO. HN-92  
DATE 1 March 1976  
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**SUBJECT:** FIELD MODIFICATION - MAIN ROTOR DAMPER ASSEMBLY  
PN 369A1400-603 to -605 CONFIGURATION

**MODELS AFFECTED:** All 369H Series Helicopters equipped with Subject 369A1400-603  
Uniform Three-Stage Damper Assembly  
All Subject 369A1400-603 Damper Assemblies in Spares Inventory

**TIME OF COMPLIANCE:** At Owners and Operators discretion

**PREFACE:** The information given in this Service Information Notice lists a procedure for field modification of the subject 369A1400-603 main rotor damper assembly to the later -605 configuration, to provide smoother operation without affecting the torque or damping characteristics of the original assembly. The field fix consists primarily of removing the 369A1409 disc from the bottom of the plate stack and adding it to the top of the stack.

The modification may be performed for individual 369A1400-603 main rotor dampers. For best results, however, a ship set of -603 damper assemblies should be modified.

It is to be noted that a new 369A1423-501 main rotor damper assembly is now available as replacement, when required, for existing 369A1400 series dampers. This new damper features improved leak-proof design, with lower torque, longer life, and smoother damping characteristics. Original installation of the new 369A1423-501 dampers is to be accomplished in ship sets on a one-time basis only. For further information, contact Commercial Parts Sales, Customer Service Department.

**Reference**

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 5, 15 June 1975  
500 Series - HMI Appendix C, Issued 1 October 1972; Revision No. 2, 1 June 1974

Product Support Department

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PARTS LIST

<u>Nomenclature</u>	<u>Part No.</u>	<u>Qty</u>	<u>Mfr</u>
*Plate, Identification	369A4007-87	1	HH
*Bolt	HS734-43	1	HH
*Cover	369A1403-5	1	HH
*Packing	MS28775-330	1	Commercial
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*As required			

MODIFICATION PROCEDURE

- a. Remove main rotor damper assembly from helicopter, as applicable, per Basic HMI.
- b. Cut and remove lockwire securing damper cover.

CAUTION

Damage to damper housing and distortion of cover will result if cover removal is not carefully performed.

The existing 369A1403 cover and MS28775-330 packing may be reinstalled if not damaged.

- c. Using a phenolic or hardwood wedge, gently pry damper cover from damper housing. Refer to HMI Appendix C.
- d. Drain oil from assembly into suitable container; discard oil.
- e. Cut lockwire and remove bolt. Discard any NAS564-43 bolt, if installed; retain HS734-43 bolt for reinstallation.

NOTE

Weight adjustment washers may be in place on top of spring guide. Identify all washers to aid in weight adjustment during reassembly.

- f. Lift guide, spring and keyway washer from housing.
- g. Remove stack of plates and discs; do not remove retainer or keepers.

NOTE

Clean all components; apply thin film of hydraulic oil to all parts before reassembly.

- h. Reassemble and reinstall plates and discs in same sequence, but with one exception: Install 369A1409 disc (originally at bottom of stack) at top of stack.
- i. Reinstall keyway washer, spring and spring guide; install an HS734-43 bolt and screw bolt in finger tight.

NOTE

The spring guide is to be installed with its flats perpendicular to the damper shaft arm. Hold guide in this position while tightening the bolt. Tighten the bolt until the face of the spring guide is flush with housing.

- j. Add oil; phase damper and adjust torque before final reassembly; refer to HMI Appendix C.
- k. Perform final reassembly and addition of weight adjustment washers, per HMI Appendix C.
- l. Re-mark identification plate on damper housing, to reflect the reworked -605 damper configuration.
- m. Reinstall main rotor damper on helicopter, as applicable, per Basic HMI.
- n. Record installation of 369A1400-605 damper(s), modified per this Notice, in Component Record of helicopter Log Book.

WEIGHT AND BALANCE DATA

Weight and balance not affected.