

**HUGHES  
SERVICE INFORMATION  
LETTER**

LETTER NO. HL-41

DATE 11 August 1975

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**TO—All owners and operators of Hughes Helicopters**

**SUBJECT: New Conical Type teeter bearings for tail rotor assembly.**

**MODELS AFFECTED:** Model 369H Helicopter Serial No. 0001 through 0005  
Model 369HE Helicopter Serial No. 0101E through subs  
Model 369HS Helicopter Serial No. 0001S through 0760S  
Model 369HM Helicopter Serial No. 0001 through 0004;  
0005M through 0281M.

All 369A1600 Series and 369A1620 Series Tail Rotor  
Assemblies, and 369A1719 Tail Rotor Drive Fork  
Assemblies in Spares Inventory

**Reference**

500 Series - Basic HMI, Issued 1 October 1972; Revision No. 4, 15 December 1974

A new conical type tail rotor drive fork teeter bearing, designed to reduce axial wear and play and minimize tail rotor vibrations, is now available as replacement for the existing 369A1709 bearings.

The new bearing incorporates a 369A1726 inner race and a 369A1727 outer race, with a reinforced Teflon liner bonded to the conical surface. The improved Teflon liner provides self-lubrication, with less wear between the races and longer bearing life. Shims are provided so that adjustment can be made when wear occurs.

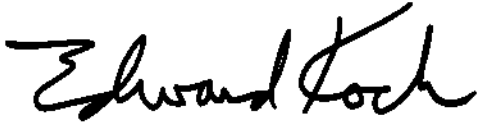
Since the new conical teeter bearing differs in size and configuration from the 369A1709 spherical bearing, the existing 369A1719 tail rotor drive fork may either be (1) replaced with a new 90-369A1728 drive fork assembly, equipped with the conical type bearings, or (2) returned to Hughes Helicopters Warranty and Repair Department on a one-time basis for rework of the bearing bores and installation of conical bearings. Subsequent replacement of the conical bearings can be accomplished in the field. Provisions for field installation of the new bearing will be included in a revision to the HMI, which will be distributed approximately 1 August 1975.

Customer Service Department - Hughes Helicopters - Culver City, California

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It is to be noted that all tail rotor and drive fork assemblies procured from or overhauled at Hughes Helicopters will incorporate the new conical teeter bearings. Spare parts supporting the old tail rotor configuration will no longer be available after existing inventories are consumed.



Edward Koch, Manager  
Customer Service Department  
Hughes Helicopters  
Division of Summa Corporation