

**McDonnell Douglas
Helicopter Company**

SERVICE INFORMATION LETTER

LETTER NO. HL-39.3*

DATE 26 July 1976

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*Supersedes Service Information
Letter HL-39.2, dated 6 June 1975

TO—All owners and operators of Hughes Helicopters

**SUBJECT: MAIN TRANSMISSION PART NO. 369A5100-709 UPGRADED
TRANSMISSION - FACTORY AVAILABILITY FOR OVERHAUL**

**MODELS AFFECTED: 369HS Helicopter Serial No. 0101S and subsequent
369HM Helicopter Serial No. 0101M and subsequent
369HE Helicopter Serial No. 0101E and subsequent**

Reference

**Service Information Notice No. HN-56, dated 6 March 1973
Service Information Notice No. HN-61, dated 31 July 1973**

Main transmission Part No. 369A5100-705 or -705M, and 369A5100-707 or -707M currently being overhauled at Hughes are brought to the new 369A5100-709 version which features new design improvements for gear lubrication and retention of bearings.

The new -709 version transmission also provides the following product improvements incorporated in the -705M and -707M versions, which eliminate inspection requirements called out in the referenced Service Information Notices HN-56 and HN-61:

- a. The ring gear carrier is upgraded from a 369A5158 to a 369A5158-7.
- b. The ring gear, part number 369A5110-3, -5, -7 or -11, is upgraded to a 369A5110-9 or -15.
- c. The 369H5104 ring gear bolt spacer is added.
- d. The 16 each 369A5174 bolts (5/16 inch diameter) are replaced by 32 each 369H5105 bolts (3/8 inch diameter).

The drilling and tapping required to upgrade the ring gear and carrier cannot be accomplished without factory tooling.

(**█**) Denotes portion of text added or revised.

Product Support Department

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The upgraded -709 transmission is completely interchangeable with any 369A5100-705 or -705M, or 369A5100-707 or -707M transmission and is usable as noted on Model 369HS, 369HM and 369HE helicopters.



Edward Koch, Manager
Customer Service Department
Hughes Helicopters

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