

**HUGHES
SERVICE INFORMATION
LETTER**

*Supersedes Service Information
Letter No. HL-32 dated 27 August 1973

TO—All owners and operators of Hughes Helicopters

SUBJECT: METAL TAIL ROTOR BLADES - REPLACEMENT FOR FIBERGLASS
TAIL ROTOR BLADES

MODELS AFFECTED: All 500 Model 369H Series Helicopters equipped with
369A1600 Series Fiberglass Bladed Tail Rotor Assemblies

Reference

500 Series - Basic HMI, Issued 1 Oct 1972; Revision No. 5, 15 Jun 1975
500 Series - HMI Appendix A, Issued 1 Oct 1972; Revision No. 4, 15 Dec 1974
500 Series - HNI Appendix B, Issued 1 Oct 1972; Revision No. 6, 1 Aug 1976
Hughes Service Information Notice No. HN-52.1, dated 9 Apr 1973
Hughes Service Information Notice No. HN-86, dated 28 Apr 1973

The 369A1710 series fiberglass tail rotor blade assemblies will no longer be procurable when present stock is depleted. When the service life expires on presently installed fiberglass blade assemblies, they are to be replaced with metal tail rotor blade assemblies.

Instructions for replacement of tail rotor blade assemblies are provided in the above referenced maintenance handbooks. The change to the metal bladed tail rotor assembly requires installation of a 369A5518-501 tail rotor drive shaft, if not presently installed, as specified in the above referenced Hughes Notice No. HN-86. Also, a modification to the tail rotor control linkage by the addition of a bungee spring is required. Procedures for initial installation of the bungee spring are provided in the referenced Hughes Notice No. HN-52.1. A new 369A9931-5 tail rotor rigging tool is necessary when metal blades are used.

It is to be noted that incorporation of the metal tail rotor blade upgrades the tail rotor sub-assembly to the 369A1620-11 configuration, and the tail rotor assembly to the 369A1620-501 configuration. Changes in the helicopter Log Book must therefore be made to reflect the new overhaul interval (TBO) and limited life schedules applicable to the metal tail rotor and blade assemblies.

Most of the components of the existing fiberglass bladed tail rotor assembly may be used when converting to the metal bladed configuration. The parts listed on Page 3 of this Letter includes only the components required for conversion of the fiberglass blade assemblies to the metal blade configuration. A 369H90005-7 Tail Rotor

Customer Service Department - Hughes Helicopters - Culver City, California

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Conversion Kit is also available in event replacement of the complete fiberglass tail rotor subassembly with a new metal bladed tail rotor subassembly is desired.

For further information, contact your Service Center or Hughes Parts Sales Department.



Edward Koch, Manager
Customer Service Department
Hughes Helicopters

(||) Denotes portion of text added
or revised

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PARTS LIST for Conversion from Fiberglass to Metal Tail Rotor Blade Assemblies

<u>Nomenclature</u>	<u>Part No.</u>	<u>Replaces</u>	<u>Qty</u>	<u>Mfr</u>
Metal Tail Rotor Blade Components				
Blade Assembly	369A1613-3	369A1710-9/11	2	Hughes
Weight Assembly	369A1622-3	New	2	Hughes
Weight Assembly	369A1622-5	New	2	Hughes
Washer	369A1623	MS20002C6	2	Hughes
Washer	AN960PD416L	New	2	Commercial
Serial No. Plate	HS1537-1	369A4007-9	1	Hughes
Washer	HS306-227L	New	AR	Hughes
Washer	HS306-332L	New	2	Hughes
Bushing	HS610SP6244R375X675	HS610SP6244R375X375	2	Hughes
Nut	MS17826-4	AN320-4	2	Commercial
Nut	MS21043-4	NAS1291C4M	2	Commercial
Bolt	MS21250-06032	NAS626-22	2	Commercial
Pin, Cotter	MS24665-151	MS24665-151	3	Commercial
Bungee Spring Components				
Spring	369A7521	New	1	Hughes
Fitting	369A7522	New	1	Hughes
Bearing	369A7951-51	New	1	Hughes
Eyebolt	AN42B-C3A	New	2	Commercial
Washer	AN960-10L	New	3	Commercial
Washer	HS1551S290	HS1551-275	1	Hughes
Nut	MS21042-3	New	2	Commercial
Rigging Tool, Tail Rotor	369A9931-5	369A9931	1	Hughes
*Shaft Assembly, Tail Rotor Drive	369A5518-501	369A5518	1	Hughes
**Pitch Control Assembly, Tail Rotor	369H1800	369A1800-5/-7	1	Hughes
***Flight Manual Supplement	369H90005-7	New	1	Hughes

*As required; refer to Hughes Notice HN-86
 **Optional

***The 369H90005-7 Rotorcraft Flight Manual Supplement is to be considered a part of the Owners/ Flight Manual and carried in the helicopter when conversion to the metal bladed rotor assembly is accomplished.