

TAIL ROTOR BLADE TIP WEIGHT RETENTION BOLT INSPECTION

SUMMARY:

HTC has observed Over-Torqued Tail Rotor Balance Weight Retention Bolts on fielded blades. Over-Torqued Bolts in Blades can be susceptible to stress corrosion when subjected to high loads in hostile operating environments (salt air, etc.). Failure of the bolts could result in significant Tail Rotor Vibration.

Procedures in this service notice provide owners and operators with information pertaining to inspection of Tail Rotor Blades for evidence Over-Torqued Tail Rotor Blade Balance Weight Retention Bolts.

PURPOSE:

The purpose of this notice is to inspect and, if necessary, replace the Tail Rotor Balance Weight Retention Bolts.

Failure to comply with this bulletin may result in Tail Rotor Vibration due to loss of Balance Weights as a result of failure of the Balance Weight Retention Bolts.

PART NUMBERS AND SERIAL NUMBERS AFFECTED:

500P3100-101 (STC Number SR09213RC) All Serial Numbers.

This blade is also known as MD Helicopters, Inc. Part Number 369D21640-501 and all references in MD Helicopters, Inc. CSP-HMI-2 that pertain to part number 369D21640-501 pertain to HTC part number 500P3100-101 as well.

500P3100-301 (STC Number SR01282LA) All serial Numbers.

This blade is also known as MD Helicopters, Inc. Part Number 369D21641-501 and all references in MD Helicopters, Inc. CSP-HMI-2 that pertain to part number 369D21641-501 pertain to HTC part number 500P3100-301 as well.

500P3300-501 (STC Number SR01282LA) All Serial Numbers.

This blade is also known as MD Helicopters, Inc. Part Number 369D21643-501 and all references in MD Helicopters, Inc. CSP-H-2 and CSP-H-4 that pertain to part number 369D21643-501 pertain to HTC part number 500P3300-501 as well.

500P3500-701 (STC Number SR01282LA) All Serial Numbers.

This blade is also known as MD Helicopters, Inc. Part Number 369D21642-501 and all references in MD Helicopters, Inc. CSP-HMI-2 that pertain to part number 369D21642-501 pertain to HTC part number 500P3500-701 as well.

HELICOPTER MODELS AFFECTED:

MD Helicopters, Inc. Models 369A, H, HE, HM, HS, D, E, and FF.

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TIME OF COMPLIANCE:

This bulletin shall be accomplished within 25 hours of receipt of this notice.

FAA APPROVAL:

N/A.

MANPOWER:

Approximately 0.25 man-hours will be required to accomplish this notice.

WARRANTY POLICY:

N/A

DISPOSITION OF PARTS REMOVED:

N/A

REFERENCES:

- 1) MD Helicopters, Inc. Handbook of Maintenance Instructions (CSP-H-2), Revision 17, dated May 15, 2001 or later
- 2) MD Helicopters, Inc. Appendix B (CSP-H-4), Revision 1, dated May 14, 2001 or later
- 3) MD Helicopters, Inc. Handbook of Maintenance Instructions (CSP-HMI-2), Revision 29, dated May 11, 2001 or later
- 4) MD Helicopters, Inc. Rotorcraft Log Book (CSP-RLB), Revision 2, dated February 17, 2000 or later
- 5) Maintenance Manual HTCM-002, Part Number 500P3100-101 and -301, 500P3300-501, and 500P3500-701 Tail Rotor Blades (Installation and Maintenance), Revision A, dated April 7, 2001 or later.

REQUIRED MATERIALS:

- 1) NAS1352-08-12P Screw, Quantity two (2)
- 2) Calibrated Torque Wrench with Allen Head (inch-pound scale)
- 3) 10x Magnifying Glass

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INSPECTION INSTRUCTIONS:

- 1) Remove Tail Rotor Blade Balance Weight Retention Bolts.
- 2) Observe torque required to remove bolts. If value exceeds 24 inch-pounds, bolts are scrap.
- 3) Using a 10x Magnifying Glass, visually inspect threads of bolts for cracking. If none is observed, re-install bolts and torque to between 21 inch-pounds and 24 inch-pounds total torque (15 inch-pounds to 18 inch-pounds + 6 inch-pounds Run-On Torque).

RECORDING AND COMPLIANCE:

Record compliance with this Service Bulletin in the Technical Directives and Bulletins section of the rotor blade Serviceable Component Record.

POINTS OF CONTACT:

For further information and rotor blade disposition, contact Helicopter Technology Company, LLC (HTC) at (310) 523-2750, or FAX (310) 523-2745.