Helicopter Technology Company, LLC

Service
Notice

NOTICE No.: 3100-3
DATE: 28 February 2007

TAIL ROTOR BLADE PITCH ARM BUSHING BORE FIT CHECK

SUMMARY:

Some operators have experienced an interference fit when installing the Pitch Link Stud (Pitch Change Bolt) into the Pitch Arm Bushing in Model 500/600 helicopter Tail rotor Blades. If this condition is detected, the bore of the Pitch Control Bushing on the affected Tail rotor Blade(s) needs to be reamed to eliminate this condition before the installation is made.

PURPOSE:

The purpose of this bulletin is to perform a one-time check of the fit of the Pitch Link Stud (Pitch Change Bolt) inside the Pitch Arm Bearing in the Tail Rotor Blade Assembly. Failure to comply with this bulletin may result in galling on the Pitch Link Stud (Pitch Change Bolt) upon installation into the Control Arm Bushing in the Tail Rotor Blade. Galling on the Pitch Link Stud (Pitch Change Bolt) could ultimately result in breakage of the Pitch Link Stud (Pitch Change Bolt) and loss of directional control.

PART NUMBERS AND SERIAL NUMBERS AFFECTED:

500P3100 All Variants (STC Number SR09213RC) All Serial Numbers.

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

500P3100 All Variants (STC Number SR01282LA) All serial Numbers.

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

500P3300 All Variants (STC Number SR01282LA) All Serial Numbers.

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

500P3500 All Variants (STC Number SR01282LA) All Serial Numbers.

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

HELICOPTER MODELS AFFECTED:

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

TAIL ROTOR BLADE PITCH ARM BUSHING BORE FIT CHECK

TIME OF COMPLIANCE:

This bulletin shall be accomplished upon installation of a Tail Rotor Blade. For fielded blades, this bulletin shall be accomplished at or before the next 100-Hour Inspection

FAA APPROVAL:

N/A.

MANPOWER:

Approximately 0.33 man-hours will be required to accomplish this bulletin.

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, Tail Rotor Blades (Installation and Maintenance), Revision C, dated November 22, 2004 or later.

REQUIRED TOOLS/MATERIALS:

1) 0.2498/0.2500 inch diameter Reamer with handle
2) 400 grit Wet or Dry Sand Paper.

TAIL ROTOR BLADE PITCH ARM BUSHING BORE FIT CHECK

CHECK/RE-WORK INSTRUCTIONS:

1) Upon installation of a Tail Rotor Blade: Using only light finger pressure, attempt to insert Pitch Link Stud (Pitch Change Bolt) into Bore in Control Arm Bushing (see Figure 1 below) of each Tail Rotor Blade.

   For a fielded Tail Rotor Blade: With Retention Nut un-torqued and using only light finger pressure, attempt to rotate Pitch Link Stud (Pitch Change Bolt) in Bore in Control Arm Bushing (see Figure 1 below) of each Tail Rotor Blade.

2) If no interference is felt and Pitch Link Stud (Pitch Change Bolt) moves easily, no further action is required. Perform normal installation of Pitch Link Stud (Pitch Change Bolt).

3) If interference is felt and or the Pitch Link Stud (Pitch Change Bolt) begins to bind, carefully remove Pitch Link Stud (Pitch Change Bolt). Carefully and slowly, Hand-Ream Bore. Approximately four (4) rotations of the reamer should be applied and then the fit should be re-checked. Continue in this manner until no interference is felt upon insertion of the Pitch Link Stud (Pitch Change Bolt) into Bore in Control Arm Bushing.

4) Use 400 Sandpaper to break any sharp edges around periphery of Bore.

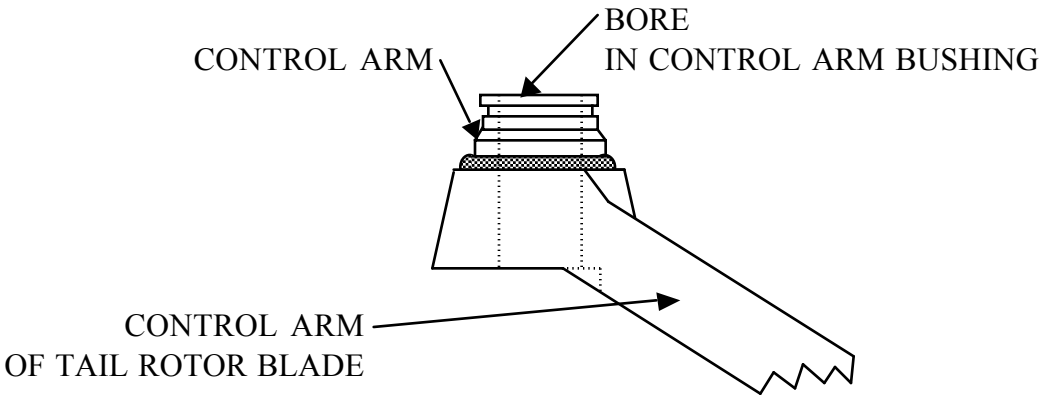

Figure 1 – Control Arm Area of Tail Rotor Blade Root Fitting

RECORDING AND COMPLIANCE:

Record compliance with this Service Notice 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.