ROBINSON
HELICOPTER COMPANY
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SERVICE BULLETIN SB-37

DATE: 17 January 2000

TO: All R44 Owners, Operators, and Service Centers

SUBJECT: Aft C121-25 Push-Pull Tube Contact with Mast Fairing Rib

ROTORCRAFT AFFECTED: R44 Helicopters S/N 0653, 0655, 0661, 0664, 0665, 0667 thru 0678, 0680 thru 0683, 0686 thru 0695, 0698, and 0709.

TIME OF COMPLIANCE: Within next 25 flight hours or by 29 February 2000, whichever occurs first.

BACKGROUND: RHC has received reports of the aft C121-25 push-pull tube rubbing the mast fairing middle rib. Enlarging the rib hole will provide necessary clearance.

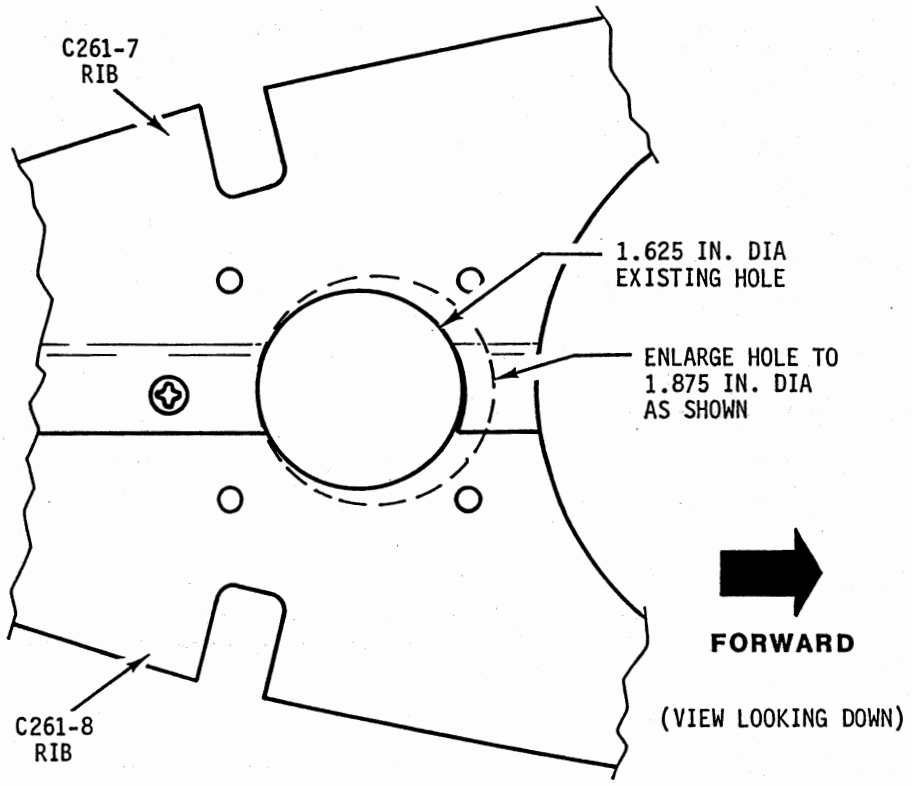
COMPLIANCE PROCEDURE:

NOTE: Use R44 Maintenance Manual (MM) change 7 dated 6 Dec 99 or later and R44 Illustrated Parts Catalog (IPC) revised 6 Dec 99 or later.

1. Remove mast fairing skin.
2. Refer to R44 MM Section 2.120. Inspect aft C121-25 push-pull tube for damage at C261-7 and -8 mast fairing middle rib. Repair and touch-up or replace tube as required.
3. Remove NAS6605 bolts connecting forward C121-25 push-pull tubes to forward hydraulic servos.
4. Remove mast fairing middle rib and aft white plastic grommet from helicopter.
5. Securely assemble both halves of middle rib without aft grommet.
6. With a 1.875 inch diameter circular template (a socket with an outside diameter of 1.875 inch will work), layout and mark the boundary of the hole enlargement as shown in figure on page 2.
7. Using a rotary file, nibbler, or similar tool, enlarge hole from 1.625 to 1.875 inch diameter along boundary marked in preceding step.
8. Disassemble rib. Deburr and polish enlarged hole edge and prime with zinc-chromate or epoxy primer.
9. Insert each forward push-pull tube through appropriate rib hole, position rib around static mast tube, and secure rib halves together with original fasteners.

-OVER-

10. Install NAS557-28A grommet in enlarged hole.
11. Connect forward push-pull tubes to hydraulic servos. Torque bolts and palnuts per R44 MM Section 1.320 and torque stripe.
12. Install mast fairing skin.
13. Make appropriate maintenance record entries.



Approximate Cost:

Parts: No charge.

Labor: 1.5 manhours.

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.