

**R22**

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**SERVICE BULLETIN SB-86**

**DATE:** 3 May 1999

**TO:** All R22 Owners, Operators, and Service Centers

**SUBJECT:** A121-3 & A121-7 Push-Pull Tubes rubbing

**ROTORCRAFT AFFECTED:** R22 Helicopters S/N 2858 thru 2948.

**TIME OF COMPLIANCE:** Within next 50 hours time in service.

**BACKGROUND:** RHC has received reports of A121-3 and A121-7 push-pull tubes wearing due to contact with the cabin structure between the tops of the seat backs. This condition is not apparent during operation and is not easily seen during inspections.

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**COMPLIANCE PROCEDURE:**

1. Remove A465-4 vertical inspection panel between seat backs.
2. Insert a 0.010 inch thick shim between A121-3 push-pull tube and horizontal aluminum channel forward of it. Also insert a 0.010 inch thick shim between each A121-7 push-pull tube and B238-1 bolt head aft of it. Move cyclic through full travel with full up and full down collective.
3. If push-pull tubes do not contact shims, no further action is required.
4. If any shim will not fit, or if any push-pull tube contacts a shim at any control position, attempt to increase clearance by rotating or inverting push-pull tube. Repeat clearance check.
5. If unable to obtain clearance, contact RHC for assistance. See R22 Maintenance Manual section 8.162 for wear limits.

**Approximate Cost:**

Parts: None required.

Labor: Approximately 0.5 manhour.