

**R44**

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**SERVICE BULLETIN SB-49**

**DATE:** 11 September 2003

**TO:** All R44 Owners, Operators, and Service Centers

**SUBJECT:** Engine Alternate Air Intake

**ROTORCRAFT AFFECTED:** R44 Helicopters S/N 000 thru 1204 except S/N 1190 and 1191.

**TIME OF COMPLIANCE:** By 30 January 2004.

**BACKGROUND:** RHC has received a report of the engine air intake becoming blocked by loose clothing as ground personnel moved past the intake. Substantial damage to the induction system resulted. RHC has redesigned the air box to include a spring-loaded alternate air door in the bottom cover.

NOTE: RHC does not recommend boarding or deplaning passengers while the engine is running.

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**COMPLIANCE PROCEDURE:**

1. Order C057-8 cover assembly from RHC Customer Service
2. Open air box and remove air filter. Drill out 4 rivets in upper half of hinge securing cover to air box (older air boxes may have covers secured with screws). Discard cover. If cover was attached with screws, retain attach hardware.
3. Install C057-8 cover assembly using MS20470AD3 rivets or hardware retained in step 2. (Enlarge hinge holes as required to accommodate hardware.)
4. Install air filter and secure cover.
5. Make appropriate maintenance record entries.

**Approximate Cost:**

Parts: Current list price of \$392 for C057-8 discounted to \$180 if ordered by 30 January 2004. (No charge to helicopters covered under two-year warranty.) Order must include helicopter serial number to receive discount.

Labor: 1.0 man-hour.

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