

**R44**

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**SERVICE BULLETIN SB-65**

**DATE:** 22 February 2008

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

**SUBJECT:** Air Conditioning Duct Wiring

**ROTORCRAFT AFFECTED:** R44 II Helicopters thru S/N 12167 equipped with air conditioning.

**TIME OF COMPLIANCE:** Within next 100 flight hours or by 31 May 2008, whichever occurs first.

**BACKGROUND:** RHC has received a report of an electrical short in the air conditioning wiring. The short was found in the A/C switch wires in the overhead duct assembly and was caused by the wires chafing against the aluminum support strap in the duct. Chafing occurred in the wiring between the aircraft headliner and connectors for the duct assembly. This Service Bulletin requires installing additional wire protection in two locations.

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**COMPLIANCE PROCEDURE:**

1. Refer to figure on page 2. Remove D796-1 duct assembly by removing screw immediately aft of rotor brake knob assembly and sliding duct forward. Disconnect map light and air conditioning switch connectors. Thread rotor brake knob through bead-chain slot and remove duct assembly.
2. In duct assembly, remove and discard ty-raps securing wiring to D797 straps. Remove and discard ty-raps on map light and overhead light wires. Visually inspect wiring. Repair or replace any wires exhibiting insulation damage. Install an approximately 6-inch section of B161-4 (1/4-inch diameter) spiral wrap tubing over unprotected map light and overhead light wires in vicinity of D797-4 strap. Secure all wiring which might touch straps with ty-raps per figure on page 2.
3. Visually inspect wiring between aircraft headliner and connectors for duct assembly. Repair or replace any wire exhibiting insulation damage. Remove and discard ty-raps from wiring and install B161-4 spiral wrap tubing over as much exposed wire as practical.

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