# ROBINSON
## HELICOPTER COMPANY

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## R44 SERVICE BULLETIN SB-82

**DATE:**  21 February 2012

**TO:**  R44 and R44 II owners, operators, and maintenance personnel

**SUBJECT:**  Rotor Brake Switch

**ROTORCRAFT AFFECTED:**  R44 helicopters S/N 0001 thru 2126.  R44 II helicopters S/N 10001 thru 13139.

**TIME OF COMPLIANCE:**  Within next 150 flight hours or by 31 May 2012, whichever occurs first.

**BACKGROUND:**  Current production R44-series helicopters have a more rugged, environmentally sealed rotor brake switch.  This bulletin requires replacement of earlier switches.

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**COMPLIANCE PROCEDURE:**

1.  Order one D049-4 harness assembly, and MS3367-4-9 ty-raps as required.

2.  Turn BATTERY switch OFF.  Remove tailcone cowling.

3.  Refer to R44 Illustrated Parts Catalog (IPC) Figure 5-5.  Remove hardware securing B049-8 harness assembly switch to D113-2 link, exercising care to avoid losing small NAS620-4 washers.  Cut & discard ty-raps as required, disconnect B049-8 harness from airframe harness at connectors, and discard harness.

4.  Refer to R44 Maintenance Manual (MM) Figure 7-16A.  Install hardware securing D049-4 harness assembly switch to D113-2 link.  Adjust position of switch on link so switch opens and closes when gap between D112-1 lever and D110-1 arm is 0.20-0.30 inch.  Verify switch security.

5.  Refer to Figure 1.  Connect D049-4 harness to airframe harness at connectors, routing wires to provide S-shaped slack as shown.  Install MS3367-4-9 ty-raps as required; cinch ty-raps until snug without over-tightening, and trim tips flush with heads.  Clean up debris.

6.  Install tailcone cowling.  Connect and secure antenna wiring, as applicable.

7.  Turn BATTERY switch ON and function check ROTOR BRAKE warning light.  Turn BATTERY switch OFF.

8.  Make appropriate maintenance record entries.

(OVER)

**Approximate Cost:**

Parts:  No charge for D049-4 harness assembly, if ordered by 31 May 2012.
Reference helicopter serial number.

Procure parts from any R44 Dealer or Service Center, or order directly from
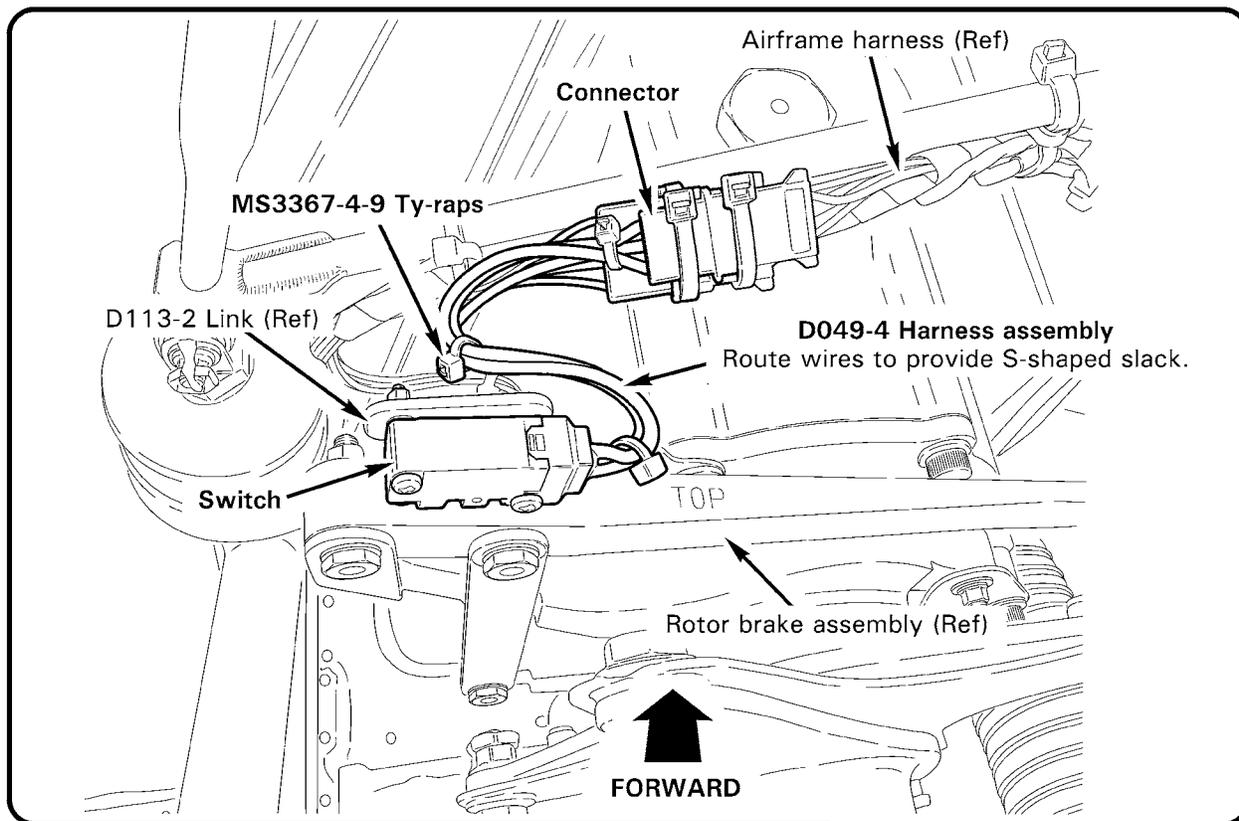assigned RHC Customer Service Representative via email, fax, or phone.

Labor:  0.7 man-hour.



**FIGURE 1**

(VIEW LOOKING DOWN)

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