

**R22 SERVICE BULLETIN SB-106**

**DATE:** 21 February 2012

**TO:** R22 owners, operators, and maintenance personnel

**SUBJECT:** Rotor Brake Switch

**ROTORCRAFT AFFECTED:** R22 helicopters S/N 0002 thru 4532.

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

**BACKGROUND:** Current production R22-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 aft cowling.
3. Refer to R22 Illustrated Parts Catalog (IPC) Figure 7-29. Remove hardware securing B049-8 harness assembly switch to B113-2 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 R22 Maintenance Manual (MM) Figure 7-16A. Install hardware securing D049-4 harness assembly switch to B113-2 link. Adjust position of switch on link so switch opens and closes when gap between B112-1 lever and B110-1 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 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 aft 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.

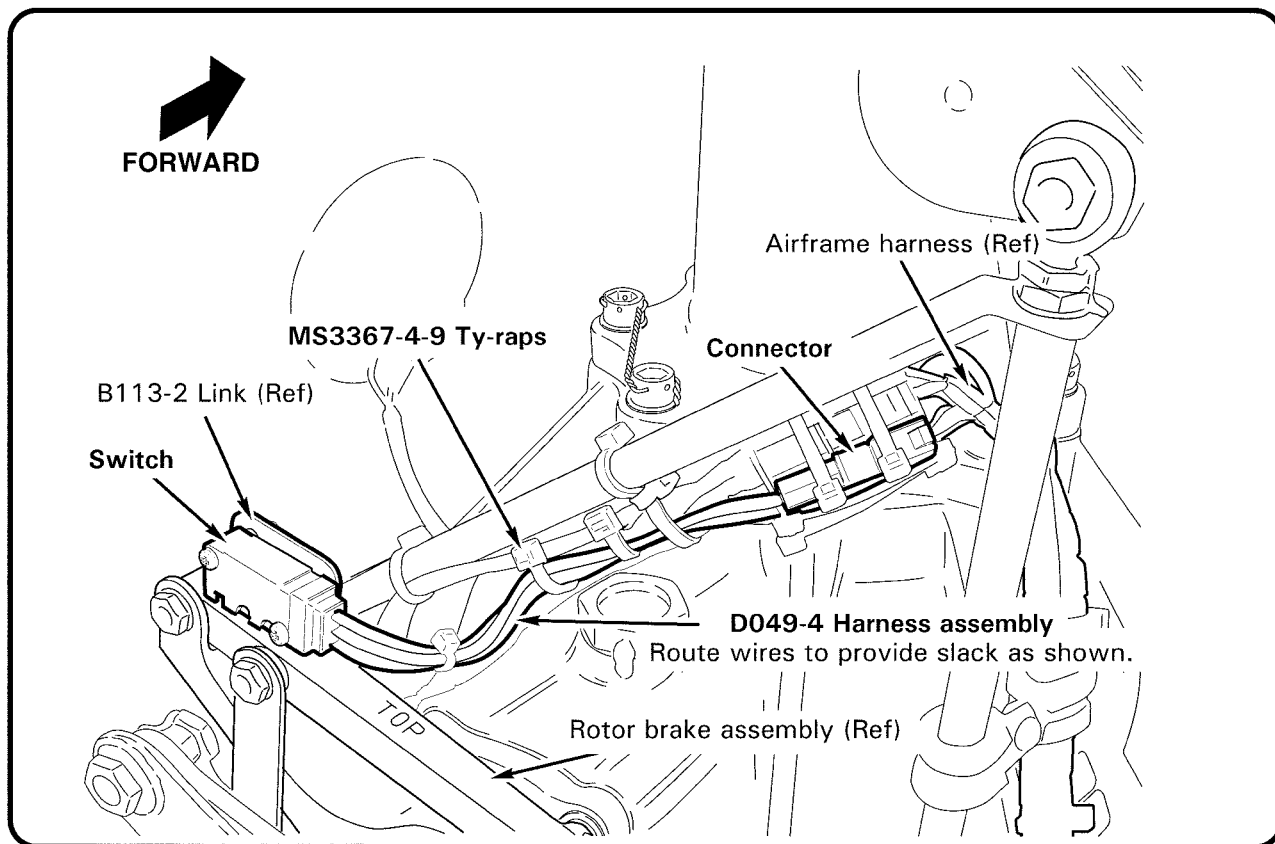
(OVER)

**Approximate Cost:**

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

Procure parts from any R22 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**