

R66 SERVICE BULLETIN SB-08

DATE: 03 July 2013

TO: R66 owners, operators, and maintenance personnel

SUBJECT: Hydraulic Solenoid Diode

ROTORCRAFT AFFECTED: R66 helicopters S/N 0003 thru 0291.

TIME OF COMPLIANCE: Within next 100 flight-hours or by 31 October 2013.

BACKGROUND: On affected aircraft, switching the hydraulics from off to on creates a voltage spike which may cause the generator control unit (GCU) to switch the generator off. Current harnesses incorporate a diode in the hydraulic solenoid circuit to eliminate the voltage spike. This bulletin requires installing a diode assembly between hydraulic solenoid and main rotor gearbox harnesses.

COMPLIANCE PROCEDURE:

1. Order one D826-1 diode assembly and four MS3367-5-9 ty-raps as required.
2. Turn battery switch off. Remove tailcone cowling per R66 Maintenance Manual (MM) § 53-23.
3. Refer to R66 Illustrated Parts Catalog (IPC) Figure 67-25. Cut and discard ty-raps as required and disconnect D507-2 solenoid assembly wiring from F049-01 main rotor gearbox harness assembly at connectors.
4. Connect D826-1 diode's 3-pin housing to solenoid wiring and 3-socket housing to gearbox harness at connectors. Keeping diode assembly straight, secure wiring and connectors to solenoid using MS3367-5-9 ty-raps as required. Cinch ty-raps until snug without over-tightening, and trim tips flush with heads.
5. Turn battery switch on. While listening to hydraulic solenoid, move hydraulic switch from on to off and verify an audible "click" from solenoid. Turn hydraulic switch on and verify an audible "click" from solenoid. Turn battery switch off.
6. Install tailcone cowling per MM § 53.23.
7. Make appropriate maintenance record entries (no change to helicopter weight & balance).

(OVER)

Approximate Cost:

Parts: No charge for D826-1 diode assembly if ordered by 31 October 2013. Order must include helicopter serial number.

Parts may be obtained from any R66 Dealer or Service Center, or ordered directly from assigned [RHC Customer Service Representative](#) via email, fax, or phone.

Labor: 1.0 man-hour.