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R22 SERVICE BULLETIN SB-111

DATE: 21 November 2016

TO: R22 Owners, Operators, and Maintenance Personnel

SUBJECT: Ammeter Circuit Fuse Protection

ROTORCRAFT AFFECTED: R22 Helicopters S/N 0002 thru 4714.

TIME OF COMPLIANCE: Within next 200 flight hours or by 31 October 2017, whichever occurs first.

BACKGROUND: Earlier aircraft have no ammeter circuit fuse protection. This bulletin requires installing a fuse assembly at the ammeter shunt to protect the circuit.

COMPLIANCE PROCEDURE:

Special tools:

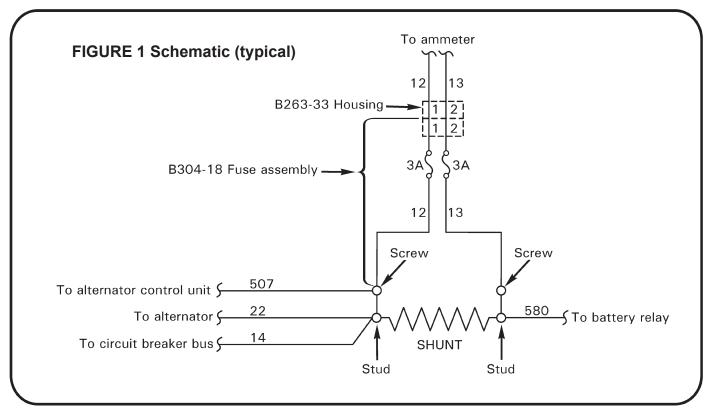
- -wire insulation stripper
- -pin/socket crimper
- 1. For each affected helicopter, order one R9041 kit from any R22 Dealer or Service Center, or order directly from RHC Customer Service (via RHC web site, fax, or phone).
- 2. Turn battery switch off. Access battery; disconnect negative (ground) cable, then positive cable from battery.
- 3. Refer to R22 Illustrated Parts Catalog Figure 96-13 dated SEP 2014 or subsequent. Locate 1465-70-104 shunt in helicopter.
- 4. Refer to Figure 1. On shunt, disconnect airframe harness -12 wire at screw and install -12 wire from B304-18 fuse assembly. Verify screw security.
- 5. On shunt, disconnect airframe harness -13 wire at screw and install -13 wire from B304-18 fuse assembly. Verify screw security.
- 6. Cut ring terminal from disconnected -12 wire, strip insulation, and crimp B263-2 socket on wire. Inspect crimp per Figure 2 and install socket into B263-33 housing position 1. Verify socket security.
- 7. Cut ring terminal from disconnected -13 wire, strip insulation, and crimp B263-2 socket on wire. Inspect crimp per Figure 2 and install socket into B263-33 housing position 2. Verify socket security.
- 8. Refer to Figure 1. Connect B304-18 fuse assembly to B263-33 housing (housings will "click" when fully mated).
- 9. Verify battery switch is off. Connect battery positive cable first, then negative (ground) cable.
- 10. Make appropriate maintenance record entries. No change to helicopter weight & balance.

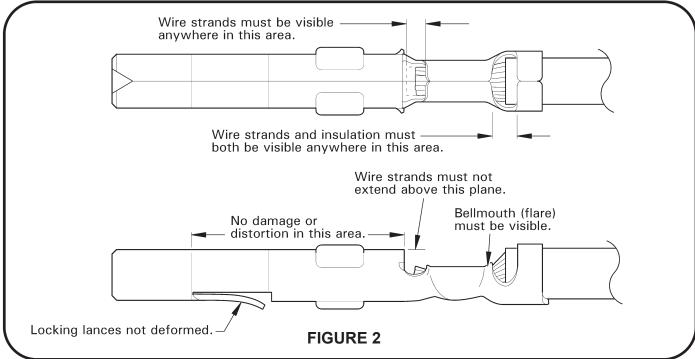
Approximate Cost:

Parts: \$33 for one R9041 kit. Kit includes (3) B263-2 sockets, (1) B263-33 housing,

and (1) B304-18 fuse assembly.

Labor: 1 man-hour.





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