

SERVICE LETTER #26

DATE: 15 April 1986

SUBJECT: Battery terminal misalignment

ROTORCRAFT AFFECTED: Helicopters S/N 002 thru S/N 545

TIME OF COMPLIANCE: At the next periodic inspection, the next battery servicing, or battery replacement, whichever occurs first.

BACKGROUND: RHC has been informed by Gill Battery Co. that as of Feb. 1985 their G-25 batteries were reduced in height by approximately .30 inches. Due to the height of the cable terminal cutout in the battery box this variation in battery height could cause the cable terminals to misalign. If severe, this terminal misalignment could lead to failure of the battery lugs.

It has also been found that replacement batteries from Rebat, Concorde and Exide can vary in overall height.

The following procedure should be used to check the cable terminals and battery lugs at the next 100 hour, annual, battery servicing or battery replacement.

INSPECTION PROCEDURE

1. Remove the battery box lid. Loosen the wing-nuts on the battery lugs allowing the cable terminals to sit at their natural free standing positions.
2. If the cable terminals sit within 1/8 inch of the top of the battery lug, no modification is required.
3. If the cable terminals sit more than 1/8 inch above the top of the battery lugs, modification of the cable terminals and/or battery box will be required.
4. The cable terminals may be bent down approximately 1/8 inch to improve their alignment. If the cable terminals still sit more than 1/8 inch above the top of the battery lug the battery box must be modified.
5. To modify the battery box, the height of the cable terminal cutout in the battery box must be lowered. Use a half round file or rasp to lower the cutout until the cable terminals are within 1/8 inch of the top of the battery lug.
6. Tighten the wing-nuts on the battery lugs and reinstall the battery box lid.