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# ONBOARD SYSTEMS

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## TECHNICAL BULLETIN

Document No. 159-002-00 Rev 0

Model affected: 212, 412, 412EP, 412CF

Subject: Cargo hook suspension system load link, replacement of

Helicopters affected: All aircraft with load link P/N 232-009-00, item #7 on attached illustrated parts breakdown, installed into cargo hook suspension systems P/N 200-088-01 & 02. This link can be visually identified to ensure aircraft effectivity. The load link being replaced has rounded ends and the new load link has square ends. See attached drawings.

Compliance: Customer option

Description: Design enhancements to the Onboard Systems cargo hook suspension systems have resulted in the replacement of the sub-assembly load link P/N 232-009-00 with load link P/N 232-009-01. This design change has been made to limit the travel of the cargo hook suspension system upward into the hell hole.

The potential exists for the cargo hook suspension system to travel upwards into the hell hole and come to rest on the skin and/or strike plate of the aircraft. If a load is applied to the hook in this condition, the aircraft skin and/or strike plate could be damaged.

Incorporation of this bulletin will reduce the possibility of hell hole area damage.

Approval: The engineering design aspects of this bulletin are FAA/DER and Bell approved.

Manpower: Approximately 1.5 man-hours will be required to replace the load link. Man-hours are based on hands-on time and may vary with personnel and facilities available.

Material:

Required material. The following material is required for accomplishment of this bulletin and may be obtained through your Bell Helicopter Textron Supply Center.

Part number 232-009-01, nomenclature Load link, quantity 1.

Consumable material. The following material is required to accomplish this bulletin, however this material is considered consumable (bench stock) material and may not require ordering depending on the operators consumable material stock levels. The material may be obtained through you Bell Helicopter Textron Supply Center.

Part number: General purpose grease (MIL-G-3278), nomenclature grease.

Special tools: None required.

Weight and balance: Not affected

Electrical Load Data: Not affected

References: TBD

Publications affected: TBD

Accomplishment Instructions:

1. Prepare helicopter for maintenance and disconnect main battery.
2. Remove the cargo hook suspension system P/N 200-088 from the aircraft as outlined in the maintenance manual. ??
3. Remove the load link P/N 232-009-00, item # 7 on the attached illustrated parts breakdown attached.
4. Install the load link P/N 232-009-01 lubricating with grease.
5. Re-install the cargo hook suspension system as outlined in the maintenance manual or per Onboard Systems UH-1 Cargo Hook Suspension System Owner's Manual P/N 120-031-01 Rev. 3.
6. Ensure that the cargo hook is free to move to its full extremes.
7. Direct an assistant to observe the cargo hook and reset to the closed position as required.
8. Close the cargo hook release circuit breaker and position the battery switch to the ON position. Depress the cargo release switch and hold for 2 or 3 seconds. The cargo hook should release.
9. Depress the foot operated mechanical release, the cargo hook should release.
10. Cycle the slip-ring accessories several times