



**ONBOARD SYSTEMS
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SERVICE BULLETIN
Document No. 159-004-00, Rev 2
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Model affected: Bell 206L, 206L-1, 206L-3, 206L-4 and 407

Subject: Cargo Hook manual release cable.

Helicopters affected: All aircraft with Onboard Systems E-72 electronic load weigh system part number 200-040-00 or 200-041-00 installed per STC SH4935NM, that do not have manual release cable P/N 268-011-00 and Load Cell P/N 210-034-01 installed.

Compliance: Mandatory within the next 100 hours of flight, or Jan. 31, 2000, whichever comes first.

Description: Under certain adverse conditions of external load being applied at angles in excess of 30 degrees from vertical, or recoil of system caused by release of load with load off the ground, or combinations of the above, the manual release cable may be pulled tight. This can damage the cable assembly or the connection fittings to which it is attached. In the worst case the cable housings or fittings may separate and cause an uncommanded release of the load.

Onboard Systems has developed a kit to retrofit the existing installations. It consists of a longer manual release cable to replace the existing cable and an electrical extension cable for the load cell.

Incorporation of this bulletin will reduce the possibility of manual release cable damage.

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

Manpower: Approximately 1.0 man-hours will be required to replace the cable assembly. Man-hours are based on hands-on time and may vary with personnel and facilities available.



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Material:

Required material. The following material is required for accomplishment of this bulletin and may be obtained from Onboard Systems.

Part number 268-011-00, Release Cable Assy, quantity 1.

Part number 270-085-00, Load Cell Extension Cable Assy, 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.

Ty-raps or lacing cord.

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 Manual Release Cable, Bell P/N 206-072-903-101, and replace with Onboard P/N 268-011-00.
3. Adjust cable for proper free play at hook per hook manufacturer and Bell maintenance manual.
4. Install Onboard P/N 270-085-00 electrical extension cable assy between load cell cable and internal harness at the Quick Disconnect bracket located on the belly of the aircraft.
5. Secure electrical wires to the manual release cable with lacing cord or ty-raps making sure that the wires are not pulled tight throughout the range of motion of the hook.
6. Ensure that the cargo hook is free to move to its full extremes and that the hook does not release uncommanded.
7. Cycle the manual release and electrical release to ensure proper operation.
8. Make appropriate log book entry.

