



## SERVICE BULLETIN

# SERVICE BULLETIN No. 6647-32-12

### LANDING GEAR - EXTENSION AND RETRACTION - CONTROL AND INTERFACE

### AMENDMENT 6 – MANUFACTURING CHANGE TO INTERNAL GROUND BLOCK CONNECTION

#### 1. Planning Information

##### A. Effectivity

AIRBUS A318, A319, A320 and A321 aircraft, all models.

Landing Gear Control and Interface Units (LGCIUs) Part Nos. 664700500A4X, all serial numbers up to and including 5154.

##### B. Concurrent Requirements

Not Applicable.

##### C. Reason

The LGCIU manufacturing procedure of connecting the wires to the internal ground block has been changed.

##### D. Description

The present procedure of connecting the 28V, 0V1 and 0V2 wires to the ground block, (Component Maintenance Manual (CMM) Fig 2, Item 130) is by ring tag and held by nuts and bolts.

This amendment will introduce pins soldered directly to the internal ground block with the wires soldered directly to the pins.



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This Service Bulletin provides information that the amendment will be embodied when the wire wrap assembly, (CMM Fig 2, Item 240, PNR: 001-LG-01-0190) is replaced with a new item (PNR: 001-LG-01-0760) during any repair procedure.

### E. Compliance

This amendment to the ground block is fitted to new production LGCIUs starting from serial number 5155.

Compliance with this Service Bulletin is optional for LGCIUs that are serial number up to and including 5154.

This Service Bulletin can only be completed with a replacement of the wire wrap assembly, PNR: 001-LG-01-0190 with wire wrap assembly PNR: 001-LG-01-0760.

Ultra Electronics Controls will include this Service Bulletin if the LGCIU repair involves replacement of the Wire Wrap assembly PNR: 001-LG-01-0190, or on request.

### F. Approval

The technical content of this document is approved under the authority of DOA Nr.EASA 21J.092.

### G. Manpower

The time necessary to embody this Service Bulletin is the same to replace the wire wrap assembly.

### H. Weight and Balance

Weight and balance are not affected.

### I. Electrical Load Data

This Service Bulletin does not change the aircraft electrical load.

### J. Software Accomplishment Summary

Not applicable



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K. References

Ultra Electronics Controls LGCIU CMM ATA Ref. No. 32-31-39 (Latest Revision)

L. Other Publications Affected

Not applicable.

M. Interchangeability or Intermixability of Parts

Accomplishment of this Service Bulletin does not affect intermixability or interchangeability.

2. Material Information

A. Material – Price and Availability

Price: The necessary material is detailed in paragraph 2.C.

Availability: Contact Ultra Electronics Controls for availability

B. Industry Support Information

Units returned to Ultra Electronics Controls can have this Service Bulletin carried out on request from Operators, or during a repair of the unit which will need a wire wrap assembly replacement. Normal conditions and warranty terms for repair items will apply.

C. Material Necessary for Each Component(Unit)

The following parts from Ultra Controls are necessary to accomplish this Service Bulletin.

(1) Material to be Purchased

<u>New PNR</u>	<u>Key Word</u>	<u>Old PNR</u>	<u>Qty</u>	<u>Unit Price</u>	<u>Inst/Disp</u>
001-LG-01-0760	Wire Wrap Assembly	001-LG-01-0190	1	\$6091	New Part



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(2) Material Supplied by the Operator (Consumables)

(a) Standard Material

Refer to the related sections of the CMM – Tools and Materials

(b) Specific Material

Not Applicable

D. Material Necessary for Each Spare

Not applicable.

E. Re-identified Parts

Not applicable

F. Tooling – Price and Availability

Not applicable

3. Accomplishment Instructions

A. General

**CAUTION:** YOU MUST WORK ON THE LGCIU ONLY UNDER CLEAN ROOM CONDITIONS. ALL WORK MUST BE CARRIED OUT AN APPROVED METAL OXIDE SEMICONDUCTOR WORK STATION, IN ACCORDANCE WITH STANDARD ANTISTATIC PROCECURES TO PREVENT DAMAGE BY STATIC DISCHARGE

Full description of the procedures is described in the LGCIU CMM, ATA Ref. 32-31-39 (Latest Revision).

B. Disassembly

(1) Refer to the LGCIU CMM, DISASSEMBLY page 301.



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- (2) Remove the wire wrap assembly PNR: 001-LG-01-0190 and discard. Use the instructions in the CMM page 301 Disassembly paragraphs 2A to 2D. NOTE: Omit step 7 in paragraph 2D which refers to connector contact repair.

### C. Re-assembly

- (1) Refer to the LGCIU CMM, ASSEMBLY page 701.
- (2) Fit wire wrap assembly PNR: No 001-LG-01-0760 (CMM, Assembly, Paragraph, 2.D.)
- (3) Reassemble the LGCIU, as instructed in the CMM, ASSEMBLY page 701.

### D. Re-identification

Endorse unit amendment label (CMM, Fig 1, Item 25) to Amendment 6.

### E. Test

- (1) Refer to the LGCIU CMM, TESTING AND FAULT ISOLATION page 101.
- (2) Perform a full acceptance test on the LGCIU as instructed in the CMM, TESTING AND FAULT ISOLATION page 101.

## 4. Notification

After accomplishment of this Service Bulletin, the Operator must tell the Ultra Controls this data:

- Service Bulletin number.
- Serial number(s) of the LGCIU(s) amended.
- Date of amendment(s).

Send this data to:

Customer Services Manager,  
Ultra Electronics Controls  
417 Bridport Road, Greenford, Middlesex,  
UB6 8UE  
United Kingdom



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5. Further information

If you need more information about this Service Bulletin, or to obtain price/delivery data, contact the Customer Services Manager at:

Ultra Electronics Controls  
417 Bridport Road, Greenford, Middlesex  
UB6 8UE  
United Kingdom

Telephone: +44 (0) 20 8813 4405      Fax: +44 (0) 20 8813 4351  
Email: [support@ultracontrols.aero](mailto:support@ultracontrols.aero)