



## **SERVICE BULLETIN**

**Ultra Electronics, Precision Control Systems  
417 Bridport Road, Greenford, Middlesex, UB6 8UE  
United Kingdom  
(CAGE: K8081)**

**Telephone: +44 (0) 20 8813 4444 Fax: +44 (0) 20 8813 4351  
Email: support@ultra-controls.com**

# **SERVICE BULLETIN No. 007LG-32-13**

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

### **INTRODUCTION OF DIGITAL BOARD PART NUMBER: 007-LG-04-0060 - AMENDMENT D**

#### **1. Planning Information**

##### **A. Effectivity**

Landing Gear Control and Interface Units (LGCIUs), PNR: 007LG049G.

##### **B. Concurrent Requirements**

Not Applicable.

##### **C. Reason**

This Vendor Service Bulletin (VSB) introduces a new Digital Board PNR: 007-LG-04-0060.

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### D. Description

Ultra Electronics, Precision Control Systems has identified that the LGCIU PNR: 007LG049G is being subjected to complications under certain aircraft power transitions which the LGCIU Processor operates incorrectly. The only recovery method available during these power transition occurrences is performing a hard reset of the LGCIU 28VDC supply.

This VSB introduces a Digital Board that is modified to configure automatically during a power cycle and so resets correctly during an aircraft power transient occurrence.

Digital Board, PNR 007-LG-04-0040 will be modified and given a new PNR: 007-LG-04-0060 and the change is recorded and identified on the LGCIU as Amendment D.

### E. Compliance

Compliance with this Service Bulletin is "Recommended" to prevent operational disruptions caused by aircraft power transients.

Ultra Electronics, Precision Control Systems will accomplish this Service Bulletin on LGCIUs that are returned for a standard repair, if such repair involves replacement of the Digital Board, PNR: 007-LG-03-0040 or amendment embodiment, if requested.

### F. Approval

The modification procedures described in this VSB are reviewed and technically accepted by Airbus Design office to apply to the Airbus fleet affected.

This VSB does not contain any change information that revises the equipment definition covered by Airbus approved modifications.

### G. Manpower

The time estimates given in the Service Bulletin are based on the direct labour to do the work. The estimates do not include the time to prepare, plan or inspect the work. Also procurement of parts and general administration work for the task are not included. The estimated time necessary to embody this Service Bulletin is as follows:

1. Disassembly: 1 man hour.
2. Assembly: 1 man hour.
3. Final Test: 2 man hours.



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H. Weight and Balance

None.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not Applicable.

J. References

Equipment Definition Evolution, EDES 007-LG/37, Issue 1, Introducing Digital Board PNR: 007-LG-04-0050 and 007-LG-04-0060.

Ultra Electronics Precision Control Systems, LGCIU, Component Maintenance Manual Ref. No. 32-31-83 (Latest Revision).

K. Other Publications Affected

Not applicable

L. Interchangeability of Parts

Fully interchangeable.

2. Material Information

A. Material – Price and Availability

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

Availability: Contact Ultra Electronics, Precision Control Systems for availability.



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### B. Industry Support Information

- (1) The Digital Board, PNR: 007-LG-04-0060 is available for purchase as a spare. This amendment can be embodied to LGCIUs upon request. Digital Boards replaced during standard repair of the unit; normal conditions and warranty terms will apply.

- (2) Notification.

After accomplishment of this VSB, the Operator must supply Ultra Electronics, Precision Control Systems with the following data:

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

Send this data to:

Customer Support Manager,  
Ultra Electronics, Precision Control Systems  
417 Bridport Road, Greenford, Middlesex,  
UB6 8UE  
United Kingdom

- (3) Further Information.

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

Ultra Electronics, Precision Control Systems  
417 Bridport Road, Greenford, Middlesex  
UB6 8UE  
United Kingdom

Telephone: +44 (0) 20 8813 4444      Fax: +44 (0) 20 8813 4351  
Email: [support@ultra-controls.com](mailto:support@ultra-controls.com)



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### C. Material Necessary for Each Component(Unit)

The following parts from Ultra Electronics, Precision Control Systems are necessary to accomplish this VSB.

#### (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>
007-LG-04-0060	Digital Board	007-LG-04-0040	1	\$8,098.17 (World List Price 2017)	Two Way PNR Change

#### (2) Material Supplied by the Operator (Consumables)

##### (a) Standard Material

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

##### (b) Specific Material

Nil.

### D. Material Necessary for Each Spare

Not applicable.

### E. Re-identified Parts

Not applicable

### F. Tooling – Price and Availability

No special tools are required to accomplish this VSB.



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### 3. Accomplishment Instructions

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

Full description of the procedures is described in the LGCIU CMM, ATA Ref. 32-31-83 (Latest Revision).

#### A. LGCIU Disassembly

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, DISASSEMBLY page 3001.
- (2) Disassemble the LGCIU as instructed in Paragraph 2 and remove Digital Board, PNR: 007-LG-04-0040.

#### B. LGCIU Assembly

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, ASSEMBLY page 7001.
- (2) Reassemble the LGCIU fitting Digital Board, PNR: 007-LG-04-0060, as instructed in Paragraph 4.

#### C. Re-Identification of Parts

- (1) On the Amendment Label (CMM IPL, Fig 1, Item 180) strike through Label "D" to indelibly identify the LGCIU as Amendment D.

#### D. Final Test

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, TESTING AND FAULT ISOLATION page 1001.
- (2) Perform a full acceptance test on the LGCIU as instructed in TESTING AND FAULT ISOLATION page 1001.