



## **SERVICE BULLETIN**

**Ultra Electronics Controls**  
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**United Kingdom**  
**(CAGE: K8081)**

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# **SERVICE BULLETIN No. 007LG-32-7**

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

#### **INTRODUCTION OF POWER SUPPLY MODULE** **PART NUMBER: 007-LG-03-0140 - AMENDMENT B**

1. **Planning Information**

A. **Effectivity**

Landing Gear Control and Interface Units (LGCIUs), PNR: 007LG037E and 007LG038G, all serial numbers.

B. **Concurrent Requirements**

Not Applicable.

C. **Reason**

This Service Bulletin introduces a new Power Supply Module (PSM) PNR: 007-LG-03-0140.



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### D. Description

Ultra Electronics - Controls has identified a number of LGCIUs that are affected by the risk of short circuit failures within the PSM, PNR: 007-LG-03-0120 impacting the function of the LGCIU. Ultra Electronics - Controls has reviewed the LGCIU range and has identified where the affected PSMs were used.

To ensure that this production issue does not impact the in-service operation of the LGCIUs, Ultra Electronics-Controls has instigated a selective recall to correct the affected LGCIUs, refer to Vendor Service Information Letter (VSIL) K8081-32-005 for further information.

A new manufacture PSM, PNR 007-LG-03-0140 has been introduced and LGCIUs fitted with the new PSM are identified and recorded on the LGCIU as Amendment B.

The PSMs PNR: 007-LG-03-0120 affected by this issue have been modified and identified as PNR: 007-LG-03-0130; refer to VSB 007LG-32-6 for further information.

All the PSMs PNR: 007-LG-03-0120, 007-LG-03-0130 (Amendment A) and 007-LG-03-0140 (Amendment B) are two way interchangeable.

### E. Compliance

Compliance with this Service Bulletin is "on condition" and is only required when the PSM PNR: 007-LG-03-0120 is replaced with a PSM PNR: 007-LG-03-0140. The change is identified and recorded as Amendment B.

Ultra Electronics Controls will accomplish this Service Bulletin on LGCIUs that are returned for a standard repair, if such repair involves replacement of the PSM, PNR: 007-LG-03-0120. If necessary, Operators may also carry out the replacement procedure.

### F. Approval

The technical content of this document is approved under the authority of EASA Design Organisation Approval No: EASA.21J.031.

### 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:



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1. Disassembly: 30 minutes.
2. Assembly: 30 minutes.
3. LGCIU Amendment Identification: 5 minutes.
4. Final Test: 2 hours.

### 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.

### K. References

Airbus Equipment Definition Evolution Sheet 2, EDES 007-LG/30, Issue 2, Introducing Power Supply Module PNR: 007-LG-03-140.

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

VSIL: K8081-32-005 dated Oct 12 2011, Notice of Selective Recall.

VSIL: 007LG-32-6, dated Oct 21 2011, Introduction of PSM PNR: 007-LG-03-0130, Amendment A.

Under no circumstances shall the modified equipment, resulting from the application of this Service Bulletin, be installed on the aircraft type unless the corresponding modification, and if applicable, its aircraft Service Bulletin are approved.

### L. Other Publications Affected

Not applicable

### M. Interchangeability or Intermixability of Parts

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



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### 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 identified in VSIL K8081-32-005 returned to Ultra Electronics Controls for modification of PSMs will be carried out at no cost to Operators.

PSMs replaced during standard repair of the unit; normal conditions and warranty terms will apply as per Para 2. C.

#### 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>
007-LG-03-0140	Power Supply Module	007-LG-03-0120	1	\$8,486 (World List Price 2012)	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.



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E. Re-identified Parts

Not applicable

F. Tooling – Price and Availability

No special tools are required to accomplish this Service Bulletin.

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 Power Supply Module.

B. LGCIU Assembly

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, ASSEMBLY page 7001.
- (2) Reassemble the LGCIU fitting PNR: 007-LG-03-0140 standard Power Supply Module, as instructed in Paragraph 4.

C. LGCIU Amendment Identification

- (1) On the Amendment Label (CMM IPL, Fig 1, Item 180) identify the LGCIU as Amendment B.

**NOTE:** Amendment label will have to be replaced if unit was previously identified as Amendment A.



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### 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.

### 4. Notification

After accomplishment of this Service Bulletin, the Operator must supply Ultra Electronics Controls 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 Controls  
417 Bridport Road, Greenford, Middlesex,  
UB6 8UE  
United Kingdom

### 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 4444      Fax: +44 (0) 20 8813 4351  
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