



SERVICE BULLETIN

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SERVICE BULLETIN No. 007LG-32-2

LANDING GEAR - EXTENSION AND RETRACTION - CONTROL AND INTERFACE

LANDING GEAR CONTROL AND INTERFACE UNIT - AMENDMENT A

INTRODUCTION OF ALTERNATIVE PROTECTION BOARD

1. **Planning Information**

A. **Effectivity**

Landing Gear Control and Interface Units (LGCIUs), Part No: 007LG027D, all serial numbers.

B. **Concurrent Requirements**

Not Applicable.

C. **Reason**

The 007LG02 hardware standard LGCIU uses a Protection Board which is now obsolete and further stocks cannot be obtained. To ensure continued product support an alternative Protection Board is required.



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D. Description

The 007LG02 standard LGCIU uses Protection Board, PNR: 007-LG-01-0200.

The 007LG03 standard LGCIU uses a Protection Board, PNR: 007-LG-02-0180 which has been approved as an alternative for the Protection Board, PNR: 007-LG-01-0200.

In the 007LG02 standard LGCIU, the Protection Board is incorporated within the next higher assembly Rear Module, PNR: 007-LG-01-0210.

The replacement of the Protection Board, PNR: 007-LG-01-0200 with Protection Board, PNR: 007-LG-02-0180 will change the Rear Module Assembly to PNR: 007-LG-03-0110.

The Rear Module Assembly, PNR: 007-LG-03-0110 has now common applicability to the 007LG02 standard and the 007LG03 standard LGCIU.

E. Compliance

Compliance with this Service Bulletin is "on condition" and is only required when the new standard of protection board is fitted to a 007LG02 standard LGCIU, for example if the Protection Board is identified as faulty and needs to be replaced to repair the LGCIU. The change is identified and recorded as Amendment A.

The manufacturer will accomplish this Service Bulletin on LGCIUs returned for repair, if such repair involves replacement of the old standard of Protection Board. If necessary, Operators may also carry out the replacement procedure.

F. Approval

The technical content of this Service Bulletin has been approved under the authority of the 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, other materials and general administration work for the task are not included. The estimated time necessary to embody this Service Bulletin is as follows:

1. Disassembly and Assembly: 1 hr.
2. Final Test: 2 hrs.



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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 EDES: 007-LG/19, Revision 1, Introducing Amendment A.

Ultra Electronics LGCIU Component Maintenance Manual (CMM) ATA Ref. No. 32-31-83 (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 will have this Service Bulletin embodied on LGCIUs returned for repair, if such repair involves replacement of the old standard of Protection Board.



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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-02-0180	Protection Board	007-LG-01-0200	1	\$4300 (World List Price 2010)	Two Way PNR Change
007-LG-03-0110	Rear Module Assembly	007-LG-01-0210	1	N/A	Reworked Part
29981-451-0-8 (Brady B428 or equivalent)	Label – Self Adhesive	N/A	1	N/A	N/A

(2) Material Supplied by the Operator (Consumables)

(a) Standard Material

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

(b) Specific Material

No specific material is required.

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 Service Bulletin.



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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 PROCESURES 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 Rear Module.

B. Rear Module Disassembly

- (1) Refer to the LGCIU CMM ATA Ref. 32-31-83, DISASSEMBLY page 3001.
- (2) Disassemble Rear Module as instructed in Paragraph 3 and remove Protection Board.
- (3) Discard faulty Protection Board.

C. Rear Module Assembly

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, ASSEMBLY page 7001.
- (2) Reassemble the Rear Module Assembly as instructed in Paragraph 3 using new Protection Board (PNR: 007-LG-02-0180).



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D. Rear Module Re-identification

- (1) Locate Rear Module identification label (Refer to Figure 1).
- (2) Note the Rear Module Serial Number.
- (3) Create new identification label with the following information:

PN: 007-LG-03-0110

Serial No: As noted in paragraph 3. D. (2) suffixed with "Amdt A"

Revision No: 2
- (4) Remove original identification label.
- (5) Fit new identification label.

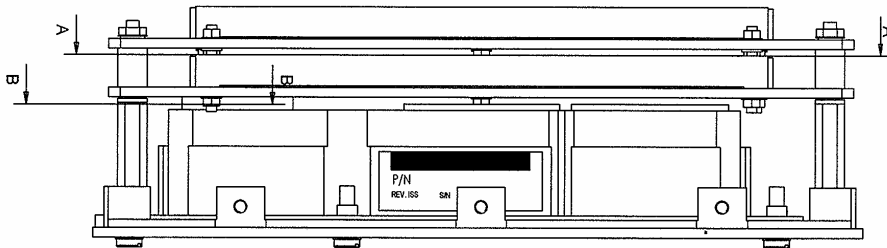


Figure 1 – View of Rear Module Showing Location of Identification Label

E. LGCIU Assembly

- (1) Refer to the LGCIU CMM, ATA Ref. 32-31-83, ASSEMBLY page 7001.
- (2) Reassemble the LGCIU, as instructed in Paragraph 4.



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F. LGCIU Amendment Identification

- (1) Endorse the LGCIU Amendment label (CMM Page 10012, Fig 1, Item 180) to Amendment A.

G. 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.



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4. Notification

After accomplishment of this Service Bulletin, the Operator must tell the Ultra Electronics Controls this 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 Ultra Electronics Controls Customer Services at:

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

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