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SERVICE BULLETIN

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SERVICE BULLETIN No. 007LG-32-14

LANDING GEAR - EXTENSION AND RETRACTION - CONTROL AND INTERFACE

INTRODUCTION OF DIGITAL BOARD PART NUMBER: 007-LG-04-0080 - AMENDMENT F DUE TO OBSOLESCENCE

1. Planning Information

A. Effectivity

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

B. Concurrent Requirements

Not Applicable.

C. Reason

This Vendor Service Bulletin (VSB) introduces a new Digital Board PNR: 007-LG-04-0080. This is due to obsolescence in the Static Random Access Memory (SRAM) (Equipment Designator IC7 and IC20) used on Digital Board, PNR: 007-LG-04-0060 is no longer available.

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D. Description

Ultra Electronics, Precision Control Systems has identified that the SRAM Device, (Equipment Designator IC7 and IC20) used on Digital Board, PNR: 007-LG-04-0060 is no longer available, therefore to ensure this obsolescence issue does not impact continued production an alternative component has been identified.

A new manufactured Digital Board, PNR: 007-LG-04-0080 has been introduced and LGCIUs fitted with the new Digital Board are identified and recorded on the LGCIU as Amendment F.

NOTE: The Digital Board PNR: 007-LG-04-0080 at Amendment F has the same functionality introduced by Amendment C (VSB 007LG-32-12) and Amendment D (VSB 007LG-32-13) to prevent operational disruptions caused by aircraft power transients.

E. Compliance

	Mandatory - Service Bulletin must be accomplished
	Recommended - Service Bulletin recommended to be accomplished to prevent significant operational disruptions
	Desirable - Service Bulletin to introduce improvements
X	Optional - Service Bulletin for convenience or option

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.

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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 Hour.
2. Assembly: 1 Hour.
3. Final Test: 2 Hours.

H. Weight and Balance

None.

I. Electrical Load Data

Not changed.

J. Software Accomplishment Summary

Not Applicable.

K. References

Equipment Definition Evolution Sheet, EDES 007-LG/50, Issue 1, Introducing Digital Board PNR: 007-LG-04-0080.

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

L. Publications Affected

Not applicable

M. Interchangeability

Two way interchangeable.

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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, Precision Control Systems for availability.

B. Industry Support Information

(1) The Digital Board, PNR: 007-LG-04-0080 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

Email: support@ultra-pcs.com

(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
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Telephone: +44 (0) 20 8813 4444 Fax: +44 (0) 20 8813 4351
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C. List of Components

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-04-0080	Digital Board	007-LG-04-0060	1	\$8,398.71 (World List Price 2020)	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. Subcomponents to be Re-Identified

Not applicable.

E. Tooling

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

F. Special Tooling

None.

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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

A. General

- (1) A full description of the procedures is detailed in the LGCIU CMM, ATA Ref. 32-31-83 (Latest Revision).

B. Preparation

- (1) Make sure that the work area, tools and equipment are clean.
- (2) Make sure any test equipment is within its calibration date.

C. Procedure

(1) LGCIU Disassembly

- (a) Refer to the LGCIU CMM, ATA Ref. 32-31-83, DISASSEMBLY page 3001.
- (b) Disassemble the LGCIU as instructed in Paragraph 2 and remove Digital Board, PNR: 007-LG-04-0060.

(2) LGCIU Assembly

- (a) Refer to the LGCIU CMM, ATA Ref. 32-31-83, ASSEMBLY page 7001.
- (b) Assemble the LGCIU fitting Digital Board, PNR: 007-LG-04-0080, as instructed in Paragraph 4.

D. Re-identification of Equipment

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

E. Test

- (1) In accordance with LGCIU CMM, ATA Ref. 32-31-83, TESTING AND FAULT ISOLATION page 1001.

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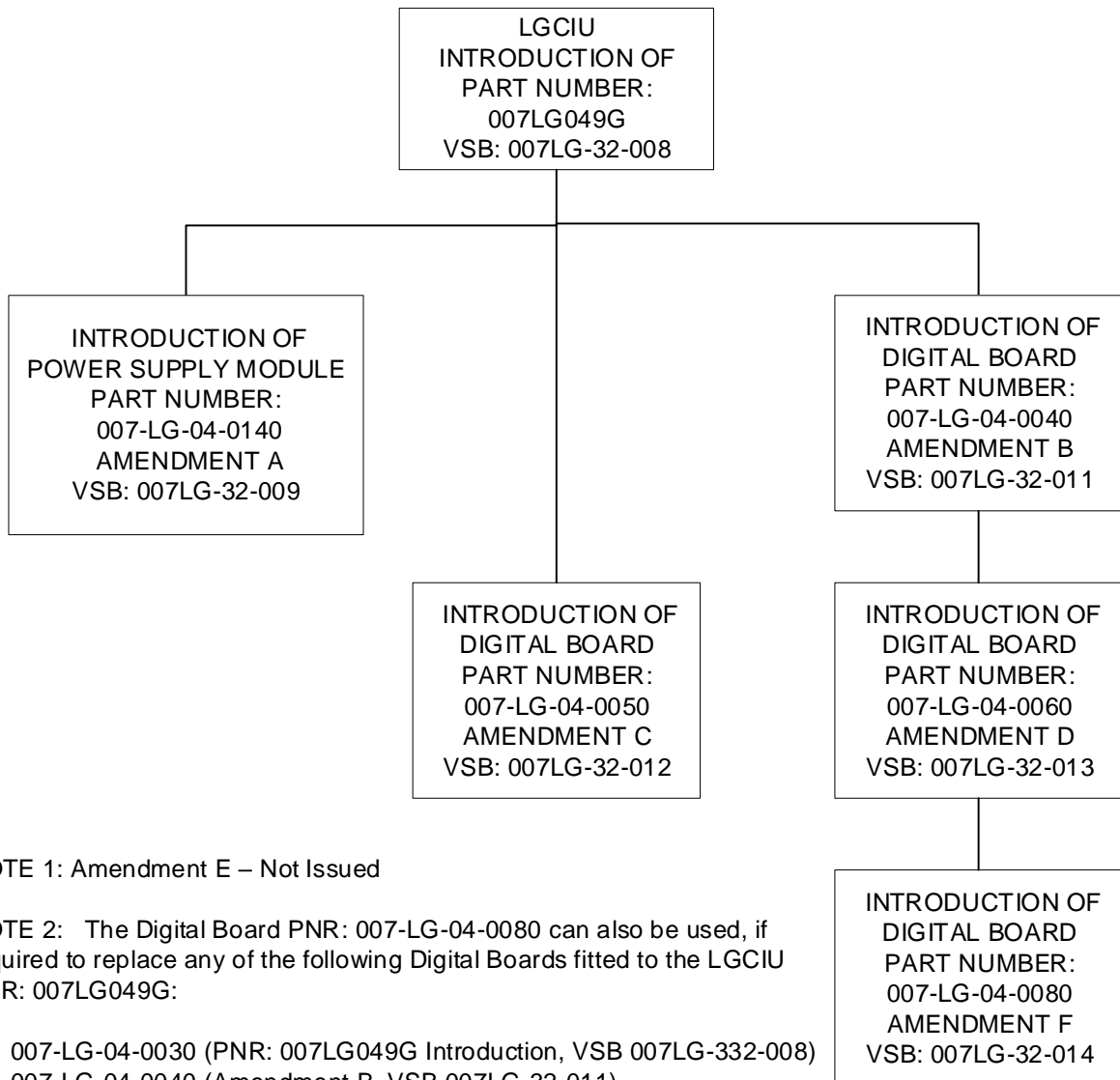
- (2) Perform a full acceptance test on the LGCIU as instructed in TESTING AND FAULT ISOLATION page 1001.

F. Close-up

- (1) Not applicable.

4. Appendix

A. Family Tree Chart of Amendment Relationships



NOTE 1: Amendment E – Not Issued

NOTE 2: The Digital Board PNR: 007-LG-04-0080 can also be used, if required to replace any of the following Digital Boards fitted to the LGCIU PNR: 007LG049G:

- 007-LG-04-0030 (PNR: 007LG049G Introduction, VSB 007LG-332-008)
- 007-LG-04-0040 (Amendment B, VSB 007LG-32-011)
- 007-LG-04-0050 (Amendment C, VSB 007LG-32-012)
- 007-LG-04-0060 (Amendment D, VSB 007LG-32-013)

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