



Aircraft Industries



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SERVICE BULLETIN

SB No. **L-410/002b**

Aeroplane Type: **L-410**

Revision No. **1**

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The technical content of this document is approved under the authority of DOA No. EASA.21J.119

Classification: Recommended

Subject: Installation of a fuse into the B405 628N or B591 582N emergency lighting panels.

Supersedure: Service bulletin L-410/002b Revision 1 supersedes previous bulletin L-410/002b.

1. PLANNING INFORMATION

A. APPLICABILITY

L 410 UVP-E20 aeroplanes up to S/N 3201 inclusive.

B. CONCURRENT REQUIREMENTS

None.

C. REASON

Protection of emergency lighting electrical circuit components against current overload. Revision 1 adds installation for aeroplanes with preparation or installation of an Air Ambulance.

D. COMPLIANCE TIME

As per operator's requirement.

E. MANPOWER

Supposed Man-hours: 10 M-hours

F. MATERIAL

Will be delivered by the Aircraft Industries, a.s., 686 04 Kunovice, Czech Republic against an order.

G. NEW EQUIPMENT

None.

H. SPECIAL TOOLS

None.

I. EXPENSES

To be covered by the operator.

J. WEIGHT AND BALANCE

Influence of the installation on the empty aeroplane weight and balance is negligible.

K. REFERENCE DOCUMENTS

1. Drawings

B091 449N	Emergency lighting printed board
B405 628N	Emergency lighting panel
B405 629N	Panel
B571 670X sheet 2	Emergency lighting wiring diagram
B574 355X	Modification of C110 emerg. lighting panel wiring diagram
B574 935N	Emergency lighting printed board

2. Maintenance Manual, Doc. No. Do-L410-1232.2, chap.:

024.30.04 024.40.00 033.50.03

L. AFFECTED DOCUMENTS

AFM not affected
MS not affected
MM not affected
WM Supplement No. 393

2. IMPLEMENTATION INFORMATION

A. PREPARATORY WORK

- Disconnect the external power supply plug according to the MM, chap. 024.40.00.B.
- Remove accumulators from the airplane according to the MM, chap. 024.30.04.A.
- Disconnect connectors from accumulator batteries according to the MM, chap. 033.50.03, page 401, points 1.E.(1), (2), (3) (a).

B. CHECK OR INSPECTION

None.

C. DISASSEMBLY

- Remove covers pos. 2, 3, 4, unscrew the screws pos. 6, 7, Dwg. No. B405 628N sheet 1, 2 and remove panels pos. 1. Keep removed material for reassembly.
- Disconnect step by step the 801C, 802C, 804C, 811C, 812C (C92 symbol), 803C, 806C, 807C, 809C, 815C (C93 symbol), 805C, 808C, 825C, 827C, 828C (C111 symbol), 818C, 819C, 820C, 822C, 823C, 824C (C110 symbol) wires from an appropriate terminal block and ground according to the B571 670X sheet 2 wiring diagram.

Applies to aeroplanes with preparation or installation of an Air Ambulance

- Disconnect the above mentioned wires of C92, C93, C111 symbols and the 1818C, 1819C, 1820C, 1822C, 1823C (C110 symbol) wires from an appropriate terminal block and ground according to the B574 355X wiring diagram.

D. ASSEMBLY

- Measure and make a hole \varnothing 13 mm according to the Dwg. No. B574 935N or B091 449N. Deburr the hole.
- Install a fuse holder, fuse and cap pos. 27, 28, 29 according to the Dwg. No. B405 629N. Use material pos. 1 to 3 of point 3.A. of this bulletin.
- Unsolder a wire (leading from lug terminal No. 2 of the terminal block pos. 12) from the pin 4 (B574 935N printed board) or pin 27 (B091 449N printed board) and solder it to the fuse holder terminal according to the B571 670X sheet 2 wiring diagram. Solder new wire to the second terminal of fuse holder and the pin 4 or 27 – see Fig. 1. Use material pos. 4, 5 of point 3.A. of this bulletin.

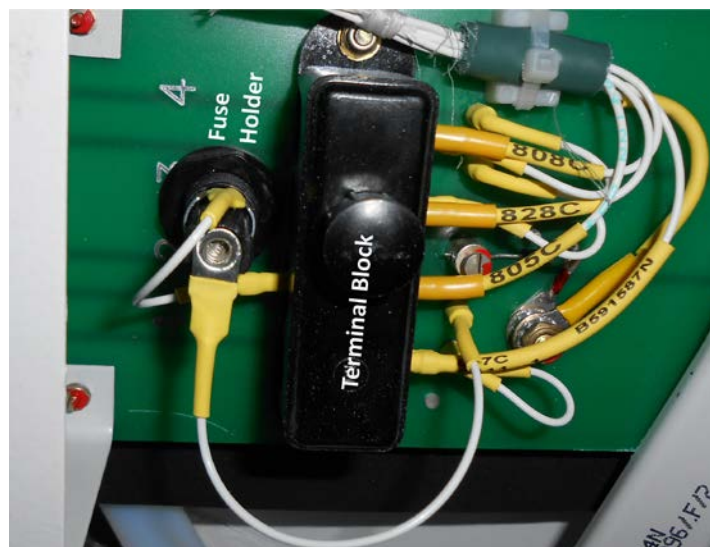


Fig. 1 Example of wiring on the B574 935N printed board

- Connect step by step the 801C, 802C, 804C, 811C, 812C (C92 symbol), 803C, 806C, 807C, 809C, 815C (C93 symbol), 805C, 808C, 825C, 827C, 828C (C111 symbol), 818C, 819C, 820C, 822C, 823C, 824C (C110 symbol) wires to an appropriate terminal block and ground according to the B571 670X sheet 2 wiring diagram.

Applies to aeroplanes with preparation or installation of an Air Ambulance

- Connect the above mentioned wires of C92, C93, C111 symbols and the 1818C, 1819C, 1820C, 1822C, 1823C (C110 symbol) wires to an appropriate terminal block and ground according to the B574 355X wiring diagram.
- Install back the panels pos. 1 by the screws pos. 6, 7 and covers pos. 2, 3, 4 according to the Dwg. No. B405 628N sheet 1, 2. Use original material.

E. TESTS

1. Ground Tests

- Connect connectors to accumulator batteries according to the MM, chap. 033.50.03, page 401, points 1.E.(4) (b), (5).
- Install accumulators into the aeroplane according to the MM, chap. 024.30.04.A.
- Switch on the BATTERY I, II; CWD AIRFRAME on the overhead panel and EMERGENCY LIGHTING switch on the LH control panel (under red cover).
Four emergency lighting panels in the passengers' compartment must come on.
- Switch off the EMERGENCY LIGHTING switch on the LH control panel.
Four emergency lighting panels in the passengers' compartment must go out.
If any panel is still lit, the fuse is blown (the panel is battery powered).

2. Flight Tests

None.

F. COMPLETION WORK

- Insert the Supplements into the respective aeroplane manuals.

3. BILL OF MATERIAL

A. MATERIAL DELIVERED BY THE AEROPLANE MANUFACTURER

Pos.	Nomenclature	Name	Pcs/Arpln
1	92319033	HTB-24M-R Fuse Holder	4
2	92319034	FTM Cap of Fuse Holder	4
3	92312747	T 200 mA Ceramic Fuse, P/N 522.710	4
4	45180002	1RA (AWG20) 0.60 Wire	0.5 m
5	87143701	DR-25 1/8" Heat Shrink Tubing	0.2 m

4. RECORD IN THE AEROPLANE LOGBOOK

Installation of a fuse into the B405 628N or B591 582N emergency lighting panels has been accomplished in accordance with the L-410/002b Revision 1 Service Bulletin.

Date:

Accomplished by:

(name and signature of authorised staff)