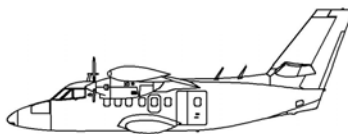




Aircraft Industries



INFORMATION BULLETIN

IB No.: L410UVP-E/546b

Concerns: L 410 UVP-E20 from S/N 2904 up to S/N 3210 inclusive and S/N 3212, 3213, 3214 (including airplanes having R letter in Serial Number).

Subject: Installation of a 1N5408 diode to the Automatic Bank Control system.

Reason: Standby of the ABC system is inactive below an airspeed of 205 km/h.

**To be carried out
at the latest by:**

During next periodic maintenance check 2 or 60 calendar days.

To be carried out by:

Organization certified for periodic maintenance of L-410 airplanes.

**Material costs
to be covered by:**

Aircraft Industries, a.s., 686 04 Kunovice, Czech Republic.

**Work costs
to be covered by:**

Operator.

**Necessary material
to be delivered by:**

Aircraft Industries, a.s., 686 04 Kunovice, Czech Republic against an order.

Bulletin becomes effective: On the day of release.

Total No. of pages: 5

A handwritten signature in blue ink, appearing to read 'Pavel Jurák', is positioned above a dotted line.

Released: Pavel Jurák
Head of airworthiness dept.

The technical content of this document is approved under the authority of DOA ref. EASA. 21J.119.

Date of release: July 16, 2019

PERFORMANCE: strongly recommended

1. INSTRUCTIONS FOR PLANNING

A. CONCERNS

1. Airplane model

L 410 UVP-E20

2. Version / S/N

Airplanes from S/N 2904 up to S/N 3210 inclusive and S/N 3212, 3213, 3214 (including airplanes having R letter in Serial Number).

3. Qualification for implementation

There are no special requirements.

4. New equipment

Not required.

B. REASON

Standby of the ABC system is inactive below an airspeed of 205 km/h.

C. APPROVAL

This bulletin has been elaborated based on data of the Design Change No. ZKB 059 710.

D. MAN-HOURS

Supposed Man-hours: 4 M-hours

E. MATERIAL - AVAILABILITY

1. New equipment

Not required.

2. Installation parts

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

3. Costs

Material: To be covered by the AI, a.s., 686 04 Kunovice, Czech Republic.

Work: To be covered by the operator.

F. SPECIAL TOOLS

Not required.

G. WEIGHT AND BALANCE

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

H. USED DOCUMENTATION

1. Drawings:

B574 895X sheet 1, 2 ABC tabs wiring diagram

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

024.30.04 024.40.00 025.21.00 027.00.00

I. AMENDED DOCUMENTATION

AFM not affected.

MS not affected.

MM not affected.

WM Supplement No. 210.

2. INSTRUCTIONS FOR IMPLEMENTATION

A. PREPARATORY WORK

- Disconnect the external power supply plug accord. to the MM, chap. 024.40.00.B.
- Remove accumulators from the airplane according to the MM, chap. 024.30.04.A.
- Remove double passengers' seats as necessary according to the MM, chap. 025.21.00, page 401.
- Open the panels of the ceiling bay in the passengers' compartment between frames 7 to 12 according to the MM, chap. 027.00.00, point 4.E.(3).

B. DISMOUNTING

- Disconnect and remove the 1410E wire from the E142 relay (between frames 10 to 11, RH – see B574 895X sheet 1 wiring diagram).

C. MOUNTING

- Solder the 1N5408 diode between terminals No. 1 and A of the E142 relay according to the B574 895X sheet 2 wiring diagram. Pay special attention to the correct orientation of the diode. Use material pos. 1, 2 of point 3.A. of this bulletin.

D. TESTS

Ground Tests

Check the ABC tabs extension:

PROP FEATHERING,

AUT. BANK CONTROL circuit breakers check ON

PCL FINE PITCH

TCL to over 35 % torque position

On the central control panel:

AUT. BANK CONTROL, AUTO FEATHER switches .. check ON

On the test panel of the left control panel:

PROP FEATHERING AUTO button press and hold

The green AUT. BANK CONTROL and AUTO FEATHER signals of both engines must light up within 5 seconds.

TCL of one engine IDLE

The green AUT. BANK CONTROL and AUTO FEATHER lights on the CWD must light off, and the white AUT. BANK CONTROL and FEATHER PUMP lights of the corresponding engine must light on for 12 to 15 seconds and amber ISOLATION VALVE light will light up to auto feathering system reset.

Propeller feathering

and opposite ABC tab extension check

CAUTION

AT LOW AMBIENT TEMPERATURES KEEP CHECK ON THE GAS GENERATOR SPEED, WHICH MUST BE AT LEAST 60 %. IF NECESSARY, INCREASE IMMEDIATELY THIS SPEED BY MEANS OF THE FUEL STOP COCK/EMERGENCY THROTTLE LEVER.

TCL of the other engine back to IDLE

On the test panel of the left control panel:

PROP FEATHERING AUTO button release

On the overhead panel:

PROP FEATHERING,

AUT. BANK CONTROL circuit breakers switch OFF and back ON

On the central control panel:

FUEL STOP COCK

/EMERGENCY THROTTLE lever OPEN

(if this lever has been used in the procedure)

Use the same procedure for the other engine.

E. FINISHING WORK

- Close the ceiling panels in the passengers' compartment according to the MM, chap. 027.00.00, point 4.E.(20).
- Install the passengers' seats acc. to the MM, chap. 025.21.00, page 401.
- Install the airplane accumulators according to the MM, chap. 024.30.04.A.
- Insert the supplement into the respective airplane manual.

3. NECESSARY MATERIAL

A. INSTALLATION PARTS DELIVERED BY THE AIRPLANE MANUFACTURER

Pos.	AI Identifier	Name	Pcs/Aircraft
1	9001 4108	1N5408 Diode	1
2	8714 3701	DR-25-1/8-0 Heat Shrink Tubing	6 cm

4. RECORD IN THE AIRPLANE LOGBOOK

Installation of a 1N5408 diode to the ABC system has been performed according to the L410UVP-E/546b IB.

Date:

Performed by:

(name and signature of verification engineer)

Elaborated by: Ing. Vlastimil Lapčík 

Checked by: Ing. Pavel Ulrich 