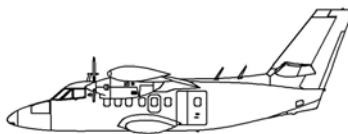




Aircraft Industries



INFORMATION BULLETIN

IB No.: L410UVP-E/490b

Concerns: L 410 UVP-E20 airplanes equipped with FA 2200 Flight Data Recorder up to S/N 3113 inclusive (including airplanes having R letter in Serial Number).

Subject: Record of the SLOW mode of pneumatic de-icing system in the FA 2200 FDR.

Reason: The SLOW mode is not recorded in the FA 2200 FDR.

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

During next periodic maintenance check 2.

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.

Bull. becomes effective: On the day of release.

Total No. of pages: 6

A handwritten signature in blue ink, appearing to read 'Jurák', is written over 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: February 12, 2018

PERFORMANCE: mandatory

1. INSTRUCTIONS FOR PLANNING

A. CONCERNS

1. Airplane type

L 410 UVP-E20

2. Version / S/N

As per operator's requirement.

3. Qualifications for implementation

- Airplanes equipped with the FA 2200 Flight Data Recorder.
- L410UVP-E/130a MB must be implemented on airplanes up to S/N 2915 incl. and S/N 2919, 2920, 3001, 3003.

4. New equipment

Not required.

B. REASON

The SLOW mode of pneumatic de-icing system is not recorded in the FA 2200 FDR.

C. DESCRIPTION

Installation of a wire between the airframe de-icing control box (on the RH control panel) and the K111 or K109 terminal block (on the bulkhead No. 21).

D. APPROVAL

This bulletin has been elaborated based on data of design change No. ZKB 058 742.

E. MAN-HOURS

Supposed Man-hours: 20 M-hours

F. 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: Covered by Aircraft Industries, a.s., 686 04 Kunovice, Czech Republic.

Work: Covered by the operator.

G. SPECIAL TOOLS

Not required.

H. WEIGHT AND BALANCE

The empty weight is increased by 0.14 kg (0.30 lb).

The moment at empty weight is increased by 0.43 kg·m (0.37 lb·in/100).

The centre of gravity position at empty weight is shifted by 0.001 % MAC rearward.

I. USED DOCUMENTATION

1. Drawings:

B570 270X sheet 1	FA 2200 FDR wiring diagram (valid for airplanes from S/N 3011 except S/N 3012 and 3013)
B573 949X sheet 1	FA 2200 FDR wiring diagram
B574 832X sheet 1	FA 2200 FDR wiring diagram (valid for airplanes from S/N 2904 up to 3010 inclusive and S/N 3012, 3013)

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

020.20.00	024.30.04	024.40.00	025.11.00	025.21.00	025.23.00
027.00.00	030.10.00	031.11.00	031.12.00	038.30.00	

J. AMENDED DOCUMENTATION

AFM	not affected.
MS	not affected.
MM	not affected.
WM	Supplement No. 337.

2. INSTRUCTION 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 the RH pilot seat according to the MM, chap. 025.11.00, page 401.
- Unscrew the covers on the RH side of the control panel and front cover according to the MM, chap. 031.12.00, page 401.
- Tilt the central and RH instrument panels according to the MM, chap. 031.11.00, page 403.
- Cut binding wire and disconnect a connector from the D82 airframe de-icing control box on the RH control panel. Blind the disconnected connector.
- Remove the passengers' double seats according to the MM, chap. 025.21.00, page 401.
- Remove the detachable cover from the vertical channel according to the MM, chap. 027.00.00, point 4.E.(2).

- Open the panels of the ceiling bay in the passengers' compartment according to the MM, chap. 027.00.00, point 4.E.(3).
- Remove the RH tilting ceiling panels by pulling out the clips – see the MM, chap. 025.23.00, Fig. 1, pos. 7.
- Remove the end ceiling panel.
- Remove the RH light panels – see the MM, chap. 025.23.00, Fig. 1, pos. 10.
- Remove the RH cover panel – see the MM, chap. 025.23.00, Fig. 1, pos. 13.
- Remove the ceiling panel from the toilet and/or rear baggage compartment.
- Remove the cover from the bulkhead No. 21 acc. to the MM, chap. 027.00.00, points 4.E.(4), (5), (or toilet, if installed, acc. to the MM, chap. 038.30.00) and install the B596 331N assembling floor into the bay behind the bulkhead No. 21.

B. MOUNTING

Valid for airplanes from S/N 2904 (powered with H80-200 engines):

- Install the 1342K wire, solder it to a connector (pin 10) of the D82 airframe de-icing control box and connect to the lug terminal No. 4 of K111 terminal block (on the bulkhead No. 21) according to the B574 832X (or B570 270X) sheet 1 wiring diagram. Fasten the wire to the existing cable harnesses. Use material pos. 1 to 4 of point 3.A. of this bulletin.
- Remove blind of the connector and perform the connectivity check of newly installed connection places.
- Connect the connector to the D82 airframe de-icing control box and lock it with binding wire (does not apply for airplanes which have the airframe deicing system deactivated). Use material pos. 5 of point 3.A. of this bulletin.

Valid for airplanes up to S/N 2903 inclusive (powered with M601E engines):

- Install the 1342K wire, solder it to a connector (pin 10) of the D82 airframe de-icing control box and connect to the lug terminal No. 15 of K109 terminal block (on the bulkhead No. 21) according to the B573 949X sheet 1 wiring diagram. Fasten the wire to the existing cable harnesses. Use material pos. 1 to 4 of point 3.A. of this bulletin.
- Remove blind of the connector and perform the connectivity check of newly installed connection places.
- Connect the connector to the D82 airframe de-icing control box and lock it with binding wire (does not apply for airplanes which have the airframe deicing system deactivated). Use material pos. 5 of point 3.A. of this bulletin.

C. TESTS

1. Ground Tests

- Install the airplane accumulators according to the MM, chap. 024.30.04.A.
- Check the operation of the airframe de-icing system (RECORDER switch on the overhead panel is switched on) acc. to the MM, chap. 030.10.00, page 303, points 3.E.(2) to (6) and (9) to (13) - does not apply for airplanes which have the airframe de-icing system deactivated.
- Verify record of the PNEU DE-ICING ON in SLOW/FAST modes. There must be no change in the logical level on the FA 2200 FDR input during modes switching.

2. Flight Tests

Not required.

D. FINISHING WORK

- Clean spaces where mounting works have been performed from material scraps and dirties.
- Repair damaged paintings with paint according to the MM, chap. 020.20.00.
- Remove the B596 331N assembling floor from the bay behind the bulkhead No. 21 according to the MM, chap. 027.00.00, point 4.E.(18).
- Install the cover on the bulkhead No. 21 according to the MM, chap. 027.00.00, point 4.E.(19), (or toilet, if installed, acc. to the MM, chap. 038.30.00).
- Install the ceiling panel in the toilet and/or rear baggage compartment.
- Install the RH cover panel – see the MM, chap. 025.23.00, Fig. 1, pos. 13.
- Install the RH light panels – see the MM, chap. 025.23.00, Fig. 1, pos. 10.
- Install the end ceiling panel.
- Install the RH tilting ceiling panels – see the MM, chap. 025.23.00, Fig. 1, pos. 7. Check the locking of the ceiling panels clips acc. to the MM, chap. 024.00.00, page 307.
- Close the ceiling panels in the passengers' compartment according to the MM, chap. 027.00.00, point 4.E.(20).
- Install the detachable cover on the vertical control channel on the frame No. 7 according to the MM, chap. 027.00.00, point 4.E.(21).
- Install the passengers' double seats acc. to the MM, chap. 025.21.00, page 401.
- Install the central and RH instrument panels according to the MM, chap. 031.11.00, page 402.
- Install the covers on the RH side of the control panel and front cover according to the MM, chap. 031.12.00, page 402.
- Install the RH pilot seat according to the MM, chap. 025.11.00, page 401.
- Insert the supplement into the respective airplane manual.
- Record the weight and moment changes in the "Weight and Balance Record" in section VI of the Airplane Flight Manual and update the empty weight and moment.

3. NECESSARY MATERIAL

A. INSTALLATION PARTS DELIVERED BY THE AIRPLANE MANUFACTURER

Pos.	AI Identifier	Name	Pcs/Aircraft
1	B049 310N	1342K Wire	1
2	8714 3701	DR-25-1/8-0 Heat Shrink Tubing	4 cm
3	8305 2069	Pyroplast fabric	50x700
4	8322 4115	A-A-52081-C-5 Binding Tape	6 m
5	1979 0804	Ø 0.4 mm Binding wire	0.5 m

4. RECORD IN THE AIRPLANE LOGBOOK

Installation of a wire in order to record the SLOW mode of pneumatic deicing system in the FA 2200 FDR has been performed according to the L410UVP-E/490b IB.

Date:

Performed:

(legible signature of verification engineer)

Elaborated: Ing. Vlastimil Lapčák 

Checked: Ing. Pavel Ulrich 