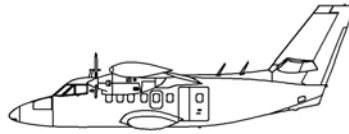




Aircraft Industries



INFORMATION BULLETIN

IB No.: L410UVP-E/494b

Concerns: L 410 UVP-E20 airplanes equipped with FA 2200 Flight Data Recorder up to S/N 3015 inclusive and S/N 3017, 3018, 3019, 3101, 3104, 3105 (including airplanes having R letter in Serial Number).

Subject: Modification of the LH and RH TCL connection – elimination of RAW data oscillation in the FA 2200 FDR.

Reason: Calibration of the Throttle Position L and R parameters can not be performed due to oscillation of RAW data.

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 on a request.

Bull. becomes effective: On the day of release.

Total No. of pages: 5

A handwritten signature in blue ink, appearing to read 'Pavel 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: March 20, 2018

PERFORMANCE: mandatory

1. INSTRUCTIONS FOR PLANNING

A. CONCERNS

1. Airplane type

L 410 UVP-E20

2. Version / S/N

Airplanes up to S/N 3015 inclusive and S/N 3017, 3018, 3019, 3101, 3104, 3105 (including airplanes having R letter in Serial Number).

3. Qualifications for implementation

Airplanes equipped with the FA 2200 Flight Data Recorder.

4. New equipment

Not required.

B. REASON

Calibration of the Throttle Position L and R parameters can not be performed due to oscillation of RAW data.

C. DESCRIPTION

Installation of 277K and 278K wires between the V229 and V230 connectors and the V117 and V118 grounds in the engine nacelles.

D. APPROVAL

This bulletin has been elaborated based on data of design changes No. ZKB 058 541, ZKB 059 087.

E. MAN-HOURS

Supposed Man-hours: 10 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 on a request.

3. Costs

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

Work: Covered by the operator.

G. SPECIAL EQUIPMENT

- ROSE Analysis Unit (RAU), P/N 17TES0055 (or equivalent laptop computer) with ROSE/RI software, version 3.9 or higher, P/N 17TES0321 (CD ROM).
- Computer Interface Communication Cable CICC/2, P/N 17TES0070 with Cable Adapter, P/N 17TES0072 or Computer Interface Communication Cable CICC/3, P/N 17TES0075 with CAT5 Crossover Ethernet Cable, P/N 024-98-00368.
- Read out Support Equipment/Recorder Interface (ROSE/RI) software system operator's manual, P/N 165E1696-02.

H. WEIGHT AND BALANCE

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

I. USED DOCUMENTATION

1. Drawings:

B570 270X sheet 2	FA 2200 FDR wiring diagram (valid for airplanes from S/N 3011 except S/N 3012 and 3013)
B573 949X sheet 2	FA 2200 FDR wiring diagram (valid for airplanes up to S/N 2903 inclusive)
B574 832X sheet 2	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.:

020.20.00 024.30.04 024.40.00 031.35.00 054.00.05

J. AMENDED DOCUMENTATION

AFM not affected.
MS not affected.
MM not affected.
WM Supplement for S/N of the airplane.

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 B062 500LP lower covers of engine nacelles according to the MM, chap. 054.00.05, page 401.
- Cut binding wire and disconnect the V229 and V230 connectors in the engine nacelles. Blind the connectors.
- Open the small door (FDR) on the bulkhead No. 21.

B. MOUNTING

- Install the 277K wire, solder it to the V229 connector (pin 3) and connect to the V117 ground according to the B570 270X or B573 949X or B574 832X sheet 2 wiring diagram. Fasten the wire to the existing cable harness. Use material pos. 1 to 3 of point 3.A. of this bulletin.
- Install the 278K wire, solder it to the V230 connector (pin 3) and connect to the V118 ground according to the B570 270X or B573 949X or B574 832X sheet 2 wiring diagram. Fasten the wire to the existing cable harness. Use material pos. 1 to 3 of point 3.A. of this bulletin.
- Remove blinds of the connectors and perform the connectivity check of newly installed connection places.
- Reconnect the V229 and V230 connectors and lock them with a binding wire. Use material pos. 4 of point 3.A. of this bulletin.

C. FA 2200 FDR DATABASE PARAMETERS UPDATE - CALIBRATION

- Install the airplane accumulators according to the MM, chap. 024.30.04.A.
- Perform the Throttle Position L and R parameters calibration acc. to the MM, chap. 031.35.00 point (B1), page 353.6 and points (19), (20), pages 353.57, 353.60. The procedure shall be provided by the authorized person with full administrator's level access to all ROSE/RI software functions only. Any operation with software according this procedure by the untrained person is strictly prohibited!
- Run ROSE/RI software under the administrator permission on ROSE Analysis Unit (RAU), P/N 17TES0055 (or equivalent laptop computer) with ROSE/RI software, version 3.9 or higher. Select the existing database for appropriate airplane on main menu item „Select Aircraft Configuration“. The database file name is typically saved as LET 410 Aircraft_XXXXXX where XXXXXX means full serial number of the aircraft.
- Options not available during an unprivileged user Login will be displayed in grey and will not be selectable. A level of expertise with the Flight Data Recorder system, a clear understanding of flight data parameters, and access to the Airplane Flight Data Parameter Source List is required prior to performing the steps of the database parameters updating procedure.

D. TESTS

1. Ground Tests

Not required.

2. Flight Tests

Not required.

E. 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.
- Install the B062 500LP lower covers of engine nacelles according to the MM, chap. 054.00.05, page 401.
- Close the small door (FDR) on the bulkhead No. 21.
- 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	B049 312N	Set of 277K, 278K wires	1
2	8714 3701	DR-25-1/8-0 Heat Shrink Tubing	4 cm
3	8322 4105	A-A-52081-B-5 Lacing Tape	2 m
4	1979 0804	Ø 0.4 mm Binding wire	1 m

4. RECORD IN THE AIRPLANE LOGBOOK

Modification of the LH and RH TCL connection has been performed according to the L410UVP-E/494b IB.

Date:

Performed:

(legible signature of verification engineer)

Elaborated by: Ing. Vlastimil Lapčák 

Checked by: Ing. Pavel Ulrich 