



Aircraft Industries



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Aircraft Industries, a.s. / Na Záhonech 1177 / Kunovice 686 04 / Czech Republic

SERVICE BULLETIN

SB No. **L-410/041b**

Aeroplane Type: **L-410**

Revision No. **IR**

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Classification: Recommended

Subject: Installation of a ball valve into return pipe from an engine drainage sump.

Supersedure: N/A

1. PLANNING INFORMATION

A. APPLICABILITY

L 410 UVP-E20 aeroplanes up to S/N 3220 inclusive.

B. CONCURRENT REQUIREMENTS

None.

C. REASON

To prevent fuel leakage from the fulfilled fuel tanks when the ambient temperature rises.

D. COMPLIANCE TIME

As per operator's requirement.

E. MANPOWER

Supposed Man-hours: 3 M-hours

F. MATERIAL

Will be delivered by the aeroplane manufacturer 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

B562 500LP sheet 1	Fuel system installation in the wing
B562 527LP	Lid
B562 658LP sheet 1, 7	Fuel system installation in the wing
B564 527LP	Lid assembled

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

020.12.00 020.20.00 024.30.04 024.40.00

L. AFFECTED DOCUMENTS

AFM not affected
MS not affected
MM not affected
WM not affected

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.
- Drain fuel from the fuel system.
- Remove access lids from upper wing skin between ribs 6 and 7.

B. CHECK OR INSPECTION

None.

C. DISASSEMBLY

- Loosen screws and disconnect the venting hose and fuel return hose from the middle fuel tank. Blind the holes.
- Unscrew nuts and screws and remove lids pos. 28, Dwg No. B562 500LP sheet 1. Keep connecting material for reassembly.
- Remove pos. 2, 5, 7, Dwg No. B562 527LP from the lids and enlarge the original hole $\varnothing 10$ mm to $\varnothing 30$ mm. Deburr the holes and treat them by Bonderite M-CR 1200S Aero according to the MM, chap. 020.12.00 and coat by primer acc. to the chap. 020.20.00. Use material pos. 1 or 2 of point 3.B. of this bulletin.

D. ASSEMBLY

- Install the elbow pipe pos. 3, sealing ring pos. 6, screw pos. 4 and ball pos. 8 on the original lids according to the Dwg No. B564 527LP, Detail I. Secure the screw by Loctite 243 and fix the ball by a split pin pos. 9. Use material pos. 1 to 5 of point 3.A. of this bulletin and pos. 3 of point 3.B.
- Install back the lids pos. 28, Dwg No. B562 658LP sheet 1. Make conductive connection according to the View U7, sheet 7. Use original connecting material.
- Remove blinds and connect the venting hose and fuel return hose to the middle fuel tank. Carefully tighten the screws of hose sleeves.

E. TESTS

1. Ground Tests

None.

2. Flight Tests

None.

