

OMNIPOL

PRAHA - ČESKOSLOVENSKO



AVIA
NÁRODNÍ PODNIK
PRAHA

SERVICE BULLETIN

IT IS NECESSARY TO CARRY OUT!

M 137 A/12a
M 137 AZ/7a
No. M 337 A/6a
M 337 AK/3a

CONCERNS: Modification of the venting ball valve in the cover of the injection pump fuel chamber LUN 5150.01.

REASON: Due to the presence of the significant amount of the resinous materials in the used fuel and also due to the problems with cleaning the fuel passage after the long-time stop in operation, the drosseling of fuel flow can take place, causing the filling of injection pump by air.

- MEASURES:**
1. The modification will be carried out directly by the producer of injection pumps, for pumps released after 12.7.1985 (i.e. from production number 851-026).
 2. The modification will be carried out after 12.7.1985 by producer of pumps, for pumps of earlier production being in repair at producer (e.g. warranty repair, overhaul etc.).
 3. Injection pumps stored at engine producer factory or at engine repair shops will be modified there, according to the enclosed drawing and instruction.
 4. In case of pumps mounted on the engines at aircraft producer (or stored there), the modification will be carried out by the aircraft producer according to the enclosed drawing and instruction.
 5. In case of pumps mounted on the aircraft in ČSSR and abroad (or stored there) the modification will be carried out by user of the aircraft according to the enclosed drawing and instruction.

MATERIAL: The respective amount of 12x18 ČSN 9310.3 sealing washers will be stored at the injection pump producer.

ENCLOSED: Instruction for modification of the bottom ball valve in fuel chamber cover. Drawing of the original and modified designs of ball valve in fuel chamber cover.

COSTS: No costs arise.

BULLETIN COMES IN FORCE: From the day of approval by the State Aviation Inspection.

Prague, 16.7.1985

..... M. Adamec m.p.
Engine producer's representative

..... Ing. B. Homola m.p.
Customer's representative

..... Ing. J. Toman m.p. 18.7.1985
State Aviation Inspection

..... J. Kaplan m.p.
OMNIPOL

Instruction for modification of the ball valve in the fuel chamber cover of the injection pump LUN 5150.01

- A. Disconnecting the all connectors of injection pump and taking the pump off the engine.
- B. Dismounting, modification and mounting of the upper venting valve.
1. Screw off the upper venting valve Yh-043-Ak equipped with two sealing washers 12x18 ČSN 02 9310.3 and connector Yh-044-Ak from the fuel chamber cover, by means of spanner 17 mm.
 2. Take off the third sealing washer 12x18 ČSN 02 9310.3 under the connector of by-pass pipe of venting system.
 3. Fix the set Yh-043-Ak into the vice of the drilling machine for the hexagonal part and carefully drill off the brass plug leading the drill through the eccentric hole \varnothing 2 mm. For drilling use the drill \varnothing 5,5 mm, depth max. 5,5 mm. After drilling the hole \varnothing 5,5 mm take off the brass plug together with a ball \varnothing 6,35 from the hollow bolt. Clean and eliminate the fins after drilling.
 4. Drill or hammer 3 marks of \varnothing 1,5 on the 3 surfaces of hexagonal parts of the hollow bolt (surfaces without securing holes). Clean the fins by file. The marks distinguish the original and modified designs of valves only.
 5. Wash the hollow bolt in clean technical gasoline and blow it by pressed air.
 6. Put the sealing washer 12x18 ČSN 02 9310.3 under the by-pass pipe (on the chamber cover).
 7. On the modified hollow bolt put the sealing washer 12x18 ČSN 02 9310.3, connector Yh-044-Ak and the another sealing washer 12x18 ČSN 02 9310.3. This complet set into the connector of the by-pass pipe and with a sealing washer situated according to the p. 6, screw the hollow bolt by hand into the fuel chamber cover, then fix it by means of spanner 17 mm. Take care of the possible M 12x1,5 thread deterioration in the fuel chamber cover due the influence of the by-pass pipe.
- C. Mounting the injection pump on the engine.
- D. Connecting the all tubes to the connectors of the injection pump, testing of sealing, securing the connections.

Original design

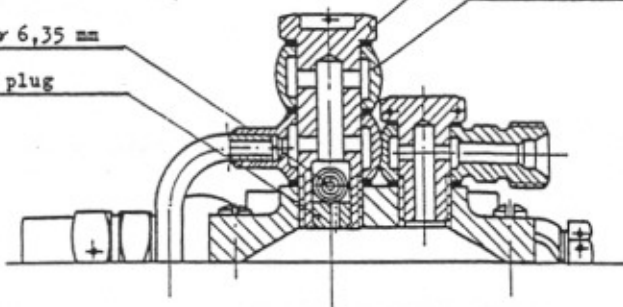
(with a ball \varnothing 6,35 mm in the bottom valve)

Ball \varnothing 6,35 mm

Brass plug

Yh-043-Ak

Yh-044-Ak



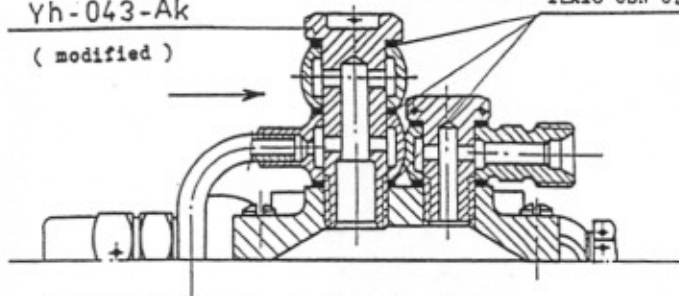
Modification of the bottom valve

(without a ball \varnothing 6,35 mm and brass plug)

Yh-043-Ak

(modified)

12x18 ČSN 02 9310.3



Put 3 centred marks on the hollow bolt.