



SERVICE BULLETIN

IT IS NECESSARY TO CARRY OUT !

M 137 A/11a
M 137 AZ/6a
No. M 337 A/5a
M 337 AK/2a

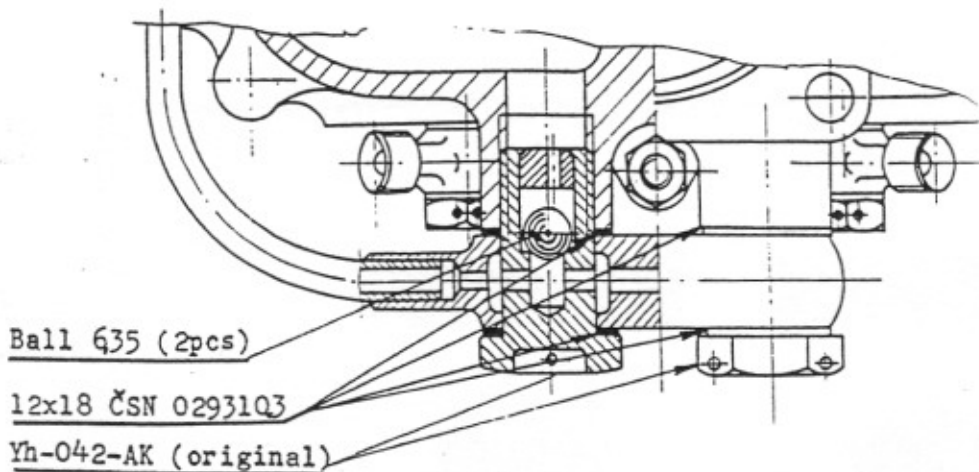
- CONCERNS:** Modification of the venting system of the LUN 5150.01 injection pumps, used on the M 137 A, M 137 AZ, M 337 A and M 337 AK aircraft engines.
- REASON:** During the aerobatic operation of the aircraft the drossing of fuel flow can take place, what causes filling of injection pump by air.
- MEASURES:**
1. The modification will be carried out directly by the producer of injection pumps, for pumps released after 1.6.1985 (i.e. from the production number 851026).
 2. The modification will be carried out after 1.6.1985 by the producer of injection pumps, for pumps of earlier production being in repair at the 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 injection 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 injection pumps mounted on the aircraft abroad (or stored there) the modification will be carried out by the user of the aircraft according to the enclosed drawing and instruction.
- MATERIAL:** The respective amount of 12x18 ČSN 02 9310.3 sealing washers will be stored at the injection pump producer.
- ENCLOSES:** Instruction for modification of the bottom ball valves and drawing of the original and modified designs of the bottom valves are component parts of this bulletin (see next pages).
- COSTS:** No costs will arise.
- BULLETIN COMES IN FORCE:** From the day of the approval by the State Aviation Inspection.
- Prague, 24. 5. 1985.
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|--|-----------------------------------|
| M. Adamec m.p. | Ing. B. Homola m.p. |
| Engine producer's representative | Customer's representative |
| Ing. I. Toman m.p. 24.5.1985 | Ing. B. Miškovský m.p. |
| State Aviation Inspection | OMNIPOL |

Instruction
for the modification of bottom ball valves
on the LUN 5150.01 injection pumps

1. Take off the securing wire from the hexagonal parts of the bottom ball valves.
2. Screw off the both bottom ball valves Yh-042-AK equipped with four sealing washers 12x18 ČSN 02 9310.3, by means of spanner 17 mm.
3. Fix step by step both bottom ball valves Yh-042-AK for their hexagonal parts into the vice of the drilling machine and carefully drill off the brass plug leading the drill through the excentric hole of \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 extract the brass plug together with the 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 mm on the 3 surfaces of the hexagonal parts of both bolts (surfaces without securing holes). Clean the fins by file. The marks distinguish the original and modified designs of valves.
5. Wash both modified hollow bolts in the clean technical gasoline and blow them out by pressed air.
6. Screw in the both modified hollow bolts carefully together with proper sealing washers 12x18 ČSN 02 9310.3 by means of twin connection of the bypassing tube of the venting system into the fuel chamber, using the spanner 17 mm.
Pay attention to the possibility of M 12x1,5 thread deterioration in hollow bolts.
7. Check the tightness of all connections of fuel chamber by overflowing the injection pump with fuel by means of overflowing pump.
8. After checking the tightness both hollow bolts are to be secured against selfturning by means of mild securing wire \varnothing 0,8 mm.

Original design

(with balls $\varnothing 6,35$ in the bottom valves)



Modification of the bottom valves

(without balls $\varnothing 6,35$ and brass plugs)

