

Service Information No. 09 / 07**Date:** June 27, 2007**Spring in the Stop Cylinder of the Fuel Injection Pump M 43/M43C**

Our engines are equipped with two independently acting stop mechanisms which upon activation move the control racks of the fuel pumps to zero fuel injection position. This is done either by admitting compressed air to the stop cylinder of each individual injection pump or by actuation of the control shaft by the governor.

In the stop cylinder of the injection pumps a spring is mounted which in some cases caused sluggishness of the pump control racks. The root cause of this was a deflection of the spring, which finally led to deformation and fracture. In the course of further development of the pumps and by means of trials it was found that this spring can be omitted without affecting proper function because the restoring force for the control rack is only insignificantly increased by the spring.

Pumps of types G100457706, G100439906, G100401406 and G100400906 may be affected. The identification is to be found on the nameplate.

In order to avoid any possible operational disturbances due to a damaged spring we recommend you, as a precaution, to remove the control rack spring from the stop cylinder.

Note: It is not required to disassemble the pump or to open the threaded connection of the pump linkage **for removing the spring**.

Please also refer to the operating instructions, page A5.05.07.03.01.03, items 2.13.1 and 2.13.2.

Note: If you should find a damaged spring and the control rack be sluggish, please check the pump and inform your responsible dealer.

Note: When opening the threaded connection of the pump linkage in the event of a reassembly it is absolutely required to use a new self-locking nut. This nut must be tightened so that the connection has a clearance. Ease of movement of the control rod at the deflection must be ensured. If the above is not met, proper function of the fuel injection pump may be impaired again.

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- a) Remove the compressed air connection line.
- b) Loosen cheese head screws (pos. 44), remove stopper (pos. 16), stop piston (pos. 15) and cheese head screws.
- c) Remove control rack spring (pos. 18).
- d) Reassemble stop piston (pos. 15) and stopper (pos. 16) with cheese head screw (pos. 44).

