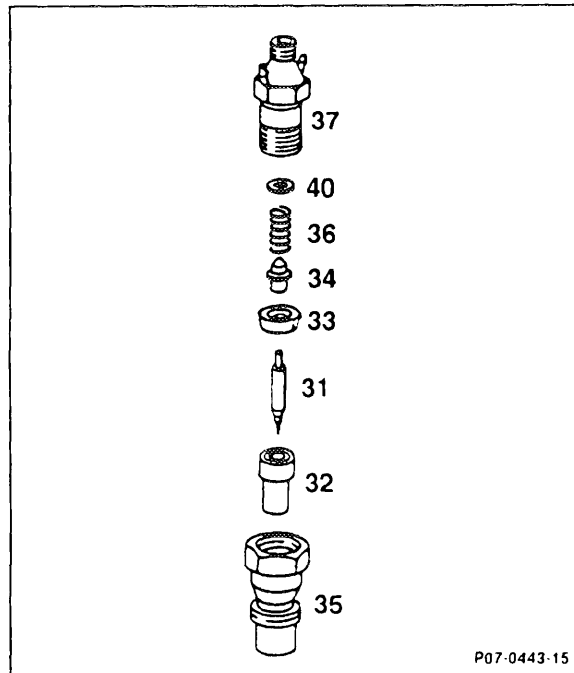


## 07.1-232 Reconditioning injectors

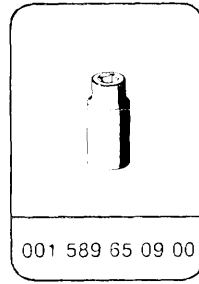
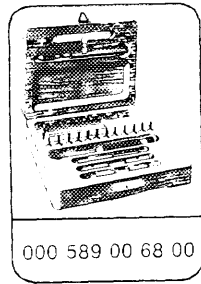
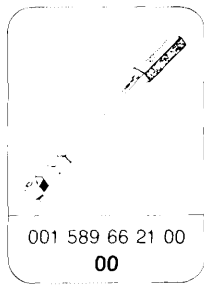
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Injectors removed (07.1-230).



Injector needle (31) . . . . .	Visual and sliding test; on hole-type pintle injectors clean center and longitudinal bores; install in the same injector body.
Injector body (32) . . . . .	remove combustion residue.
Intermediate plate (33) . . . . .	polish on surface plate.
Thrust pin (34) . . . . .	Tip must face to the upper part.
Injector clamping nut (35) . . . . .	70-80 Nm.
Compression spring (36)	
Retaining body (37) . . . . .	clamp in protective jaws.
Steel shim (40) . . . . .	adjust to injection pressure. Set value 115-125 bar for new injector or injector to be newly adjusted, at least 100 bar for used injector. Depending on the shim thickness higher or lower injection pressure. 0.05 mm produce a pressure differential of approx. 3 bar.

## Special tools



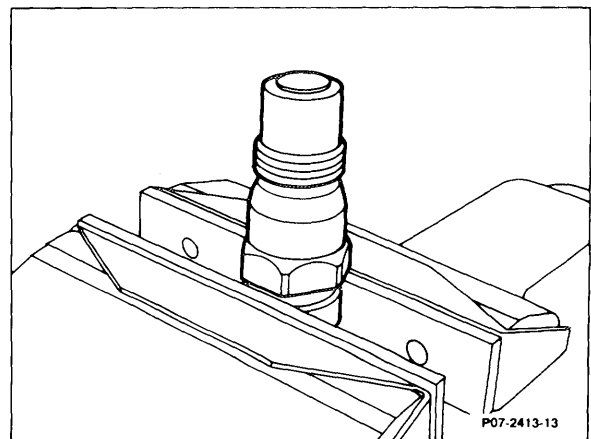
## Commercially available tool

Cleaning needles 0.18 mm dia.

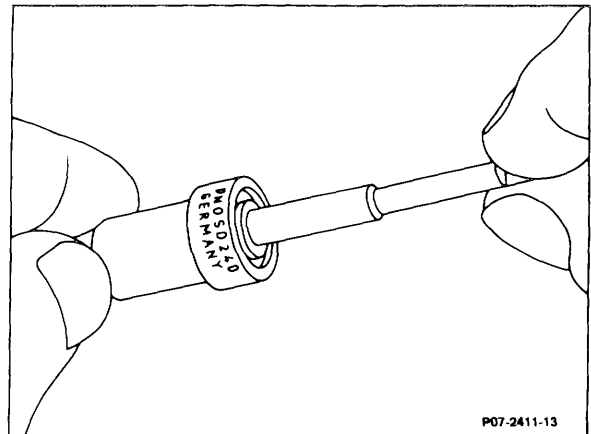
e.g. Bosch, D-7000 Stuttgart  
Order no. KDEP 2900/4

## Reconditioning

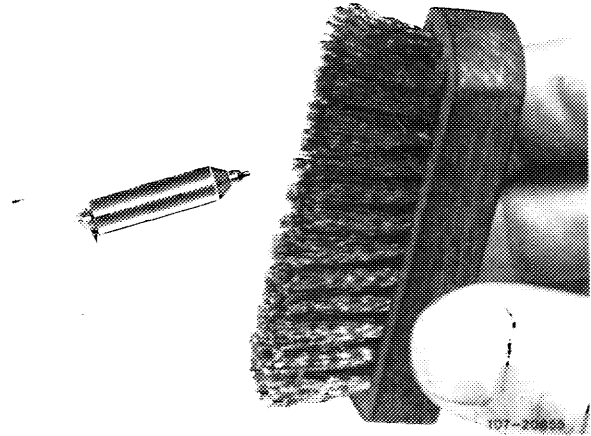
1 Dismantle by placing retaining body with protective jaws in the vise so that the bleed fuel connections are not damaged.



2 Clean, remove combustion residue on injector needle seat with the cleaning miller.

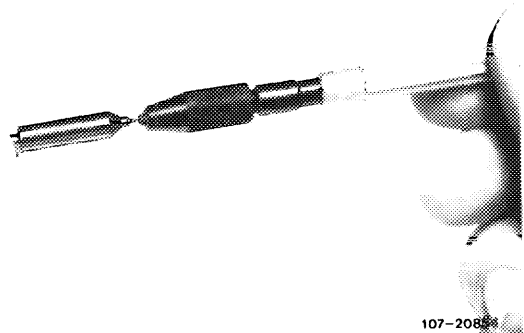


Clean injector needle and injector body with brass brush.



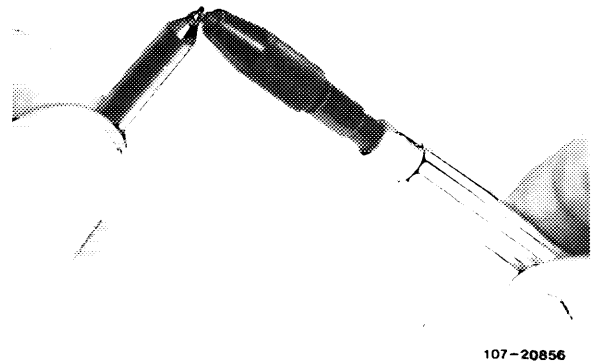
On the hole-type pintle injector additionally clean longitudinal and transverse bores.

Clean longitudinal bore with cleaning needle 0.18 mm dia.



Longitudinal bore

Clean transverse bore with cleaning needle 0.35 mm dia.

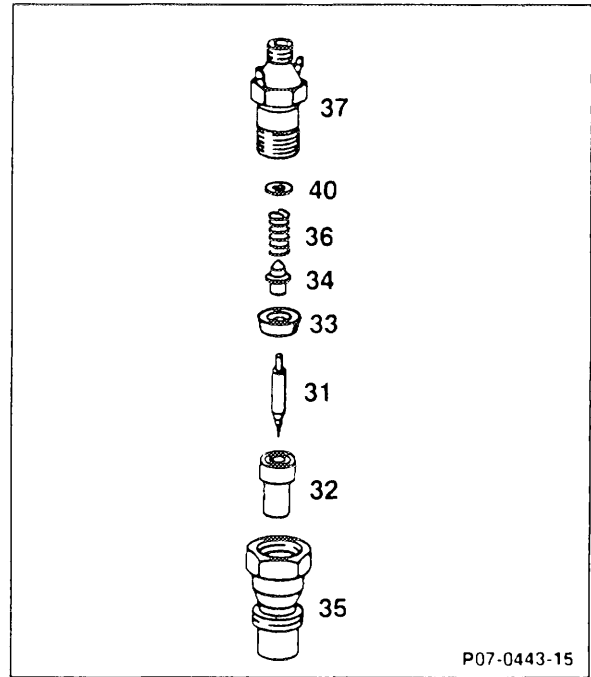


Transverse bore

### 3 Visual and sliding test.

Immerse injector in filtered diesel fuel. With the injector body held vertically, the injector needle should slide towards the injector seat by its own weight.

4 Polish intermediate plate (33) on both sides on the surface plate.



5 Assemble injector holder with injector. Depending on the shim thickness (40) higher or lower injection pressure; 0.05 mm correspond to approx. 3 bar pressure differential.

6 Check function of injector (07.1-231), adjust if required.