Simple injection-nozzle **testing** – EPS 100

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Bosch-Diagnostics

ESI[tronic] Software | Prüftechnik | Service Training | Technische Hotline

EPS 100 – Injection-nozzle testing **made easy**

EPS 100

The Bosch injection-nozzle tester has a wide range of applications:

- Testing and adjustment of injection-nozzle opening pressure
- Assessment of the injection spray regarding shape and atomization (injection-spray image)
- Checking for leaks in injection nozzles, and checking the chatter properties on two-stage nozzle holders, stage holders and UI/UP applications

Compared to the predecessor model EFEP 60H, due to better dial reading accuracy (1 bar), and improved manometer measuring accuracy, the possible overall measuring inaccuracy has improved on the EPS 100 from +/-4 bar to +/-2.4 bar. This allows the smallest leaks to be analyzed and excluded. Possible vibration of the engine in idling can thus be avoided.
Design improvements have resulted in the inner leakage of the EPS 100 being considerably lower than that of the EFEP 60H. This has the advantage that within the framework of leakage testing on two-stage nozzle holders and unit injectors etc., the generated pressure does not drop.

Extraction Unit EPS 738

This extraction unit is used in combination with nozzle testers to keep environmental damage down to a minimum, and to prevent health hazards, when testing injection nozzles in the workshop. The unit draws in the oil mist which is generated when testing injection nozzles.

Principle of functioning:
Vacuum is used to draw in the atomized fuel. This adjustable vacuum is generated by compressed air which causes the oil mist to condense via a filter. An annular lamp is fitted which permits precise observation of the nozzle spray. The unit can be inclined towards the front to permit better observation of the injection chamber. An oil-level indicator shows when the collector must be emptied.

Facts and figures

Calibration Set for the EPS 100

Workshops which have been certified according to ISO 9000 need the Calibration Case 1 688 130 194 in order to check the Nozzle Tester EPS100 in line with the stipulations of ISO 8984. It contains all the components required for checking.

Technical data EPS 100

EPS 100 scope of delivery	
• Test-pressure line M 14 x 1.5 / M 12 x 1.5	1 680 750 014
• Test-pressure line M 14 x 1.5 / M 14 x 1.5	1 680 750 008
• Pressure gauge 0 – 40 MPa 100 dia., quality class 0.6 M 20 x 15	1 687 231 211
Optional extras	
• Reducing fitting M 14 x 1.5 / M 16 x 1.5	1 680 750 087
• Reducing fitting M 14 x 1.5 / M 18 x 1.5	1 680 362 000
• Reducing fitting M 14 x 1.5 / M 22 x 1.5	1 680 362 001
• Reducing fitting M 14 x 1.5 / M 24 x 1.5	1 680 362 044
• Reducing fitting M 14 x 1.5 / M 26 x 1.5	1 680 362 002
• Reducing fitting M 14 x 1.5 / M 27 x 1.5	1 680 362 045
• Extraction unit 230 V/50 Hz (EPS 738)	0 684 200 702
• Nozzle needle test kit for hole pintle nozzle	1 688 130 153
• Metal oil tank with lid	1 685 400 029
• Illuminated magnifier, among other things, for checking the nozzle-needle seat in the nozzle body	1 987 600 005
• UI / UP Adapter Kit	1 687 010 147
• **For nozzle sizes:**	P, R, S, T
• **Pressure gauge/bar:**	0 – 400
• **Pressure gauge/Pascal:**	0 – 40 MPa
• **Connection thread for test-pressure line:**	M 14 x 1,5
• **Weight:**	4 kg
• **Order number:** EPS 100	0 684 200 704

Bosch – **skilled partner** for workshop business

Developments from Bosch stand for innovative progress in automobile manufacturing

Geared to the growing proportion of electronics in the vehicle, Bosch offers workshops the suitable testing technology for all sizes of company and service concepts. Sturdy, innovative, state-of-the-art automobile technology: Computer-assisted diagnosis systems help in finding any fault more quickly and more reliably. The modular layout - using future-oriented technologies – enables broad networking and efficient use of comprehensive information from the ESI[tronic] software. Mobility and user-friendly user guidance support the workshop in reliable and timesaving diagnosis.

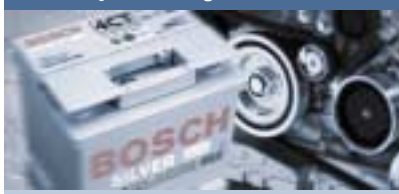
AA/PDT2 - WAW 4456 GB 04.05

ECU Diagnostics KTS

Engine System Testing FSA

Emissions Analysis BEA

Diesel System Testing EPS



Battery Service BAT

Brake Testing BSA

Wheel Alignment FWA

Air Conditioning Service ACS

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