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FUEL PRESSURE AND LEAKAGE TESTERS

 Mechanical testing of injection system pressure, pre-supply pressure, low pressure in CR systems and optical testing of fuel flow (air bubbles).

HIGH PRESSURE TESTER FOR GDI SYSTEMS, ANALOG



item number : GDP 400 (042150_1)

DESCRIPTION

- For quick, simple and safe static and dynamic pressure testing of the high pressure circuit on GDI * engines
- Max. Working pressure up to 400 bar
- Required, e.g.:
- to check the pressure pump when starting the engine or
- the system pressure test at changing speeds
- Universally applicable
- * GDI = gasoline engine with direct injection

- 1 test block with analog pressure manometer with GSK, NG 100, measuring range 0 ... 400 bar
- 2 flexible pressure lines, length 0.7 m
- 2 adapter
- Delivery in a sturdy plastic case

HIGH PRESSURE TESTER FOR GDI SYSTEMS, DIGITAL



item number : GDPD 400 (042151_1)

DESCRIPTION

- For quick, simple and safe static and dynamic pressure testing of the high pressure circuit on GDI * engines
- Max. Working pressure up to 400 bar
- Required, e.g .:
- · to check the pressure pump when starting the engine or
- the system pressure test at changing speeds
- Universally applicable
- * GDI = gasoline engine with direct injection

SCOPE OF DELIVERY

- 1 test block with digital pressure gauge with GSK, DM 80, measuring range 0 ... 400 bar, class: 0.5
- 2 flexible pressure lines, length 0.7 m
- 2 adapter
- Delivery in a sturdy plastic case

FUEL SYSTEM PRESSURE TESTER WITH VACUUM MANOMETER FOR PRESSURE AND VACUUM DISPLAY



item number:

LR 180_AK2_Volvocars (041620_11)

DESCRIPTION

- For quick, simple and professional testing of the supply and return pressure on injection systems for gasoline and diesel engines
- E.g. for testing and diagnosis of fuel pumps, system pressure regulators and leaks etc.
- Thanks to the special adapter combination, it can be used especially for Volvo vehicles
- Can be used almost universally in connection with other adapters
- The fuel flow can be closely observed through the plexiglass body (air bubble detection)
- The 0-600mbar precision manometer enables the display of very small pressure deviations
- Pressure and vacuum testing from -1 to +9 bar
- · All individual parts available as spare parts
- Extensive range of adapters as accessories

SCOPE OF DELIVERY

- 1 precision vacuum manometer NG 63, measuring range -1 ... + 9 bar with quick coupling
- 1 precision pressure gauge NG 63, measuring range 0 ... 600 mbar (graduation 20 mbar) with quick coupling
- 2 plexiglass bodies with quick connectors;
- 4 DPAK adapter pairs (connectable), Ø 7.89 mm, straight plug nipple, straight plug coupling;
 Ø 9.89 mm, straight plug, 90 ° plug coupling; Ø 11.8 mm, straight plug socket, straight plug connector; Ø 12.2 mm (brass) plug nipple 90 °, plug coupling straight;
- Delivery in a sturdy plastic case

FUEL SYSTEM PRESSURE TESTER WITH DIGITAL GAUGE



DESCRIPTION

- For fast, easy and professional testing of the flow and return pressure on injection systems for petrol and diesel engines
- For example, for testing and diagnosing the fuel pump, system pressure regulator and tightness, etc.
- The special adapter assembly makes it especially suitable for vehicles with plastic quick couplings according to the SAE standard
- Can be used almost universally in combination with other adapters
- The digital precision vacuum pressure gauge enables effective analysis of the measurement values
- The flow of petrol can be closely observed through a plexiglass body (identification of bubbles)
- Pressure and vacuum testing from -1 to +16 bar
- All individual parts are available as spare parts
- Premium product, made in Germany
- Extensive assortment of adapters as accessories
- optional factory calibration certificate

- 1x digital precision vacuum pressure gauge, measurement range -1 ... +16 bar, with rubber protection cap and quick coupling
- 1x plexiglass body with quick couplings
- 7 DPAK adapter pairs (coupling connection)
- DPAK 64G; Plug Ø 9.89 mm, plug length (locking) 30 mm, straight plug nipple, 90° plug coupling
- DPAK 65G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling
- DPAK 66G; Plug Ø 7.89 mm, plug length (locking) 33 mm, straight plug nipple, 90° plug coupling
- DPAK 67G; Plug Ø 9.49 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling
- DPAK 68G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, straight plug coupling
- DPAK 69G; Plug Ø 9.89 mm, plug length (locking) 24.5 mm, straight plug nipple, 90° plug coupling
- DPAK 70G; Plug Ø 11.8 mm, plug length (locking) 10.8 mm, straight plug socket, 90° plug coupling
- Ships in a rugged plastic case

SYSTEM PRESSURE TESTER FOR MECHANICAL AND ELECTRONIC FUEL INJECTION SYSTEMS



item number : LR 180/4 (041615)

DESCRIPTION

- For quick, easy and professional testing and diagnosis of mechanical and electronic fuel injection systems
- Also suitable for almost all European and Asian vehicles with the following injection systems due to the special adapter combination: K-Jetronic, KE-Jetronic, L/LH-Jetronic, Motronic, MPI, HMPI, EFI, DIGIFANT, Mono-Jetronic, Opel-Multec, Weber CFI
- Can be used almost universally in combination with other adapters
- The intermediate, adjustable 3-way valve between the warm-up regulator and fuel distributor allows for the system and control pressure to be checked and the injection system to be tested for leaks
- With release valve for emptying the residual fuel
- Measurement range 0 ... 10 bar / 0 ... 140 psi, fine graduation 0.1 bar
- Precision pressure gauge NG 100 with robust rubber protection cap and mounting hook.
 Suitable for European and Asian vehicles. Other pressure gauge measurement ranges on request
- Optionally available with ISO calibration certificate
- All individual parts are available as spare parts
- High performance quality product made in Germany
- Extensive assortment of adapters as accessories.

- 1 pressure gauge NG 100, MB 0 ... 10 bar / 0 ... 140 psi
- 1 3-way valve
- 3 hoses of 0.25 m each, with quick coupling on both sides
- 30 DPAK adapter (coupling connection)
- DPAK 1; M 4x1.5 (external thread, angle adapter)
- DPAK 2; M12x1.5 (external thread, angle adapter)
- DPAK 3; M8x1 (external thread)
- DPAK 4; M12x1.5 (external thread)
- DPAK 5; M12x1.5 (internal thread)
- DPAK 6; M8x1 (internal thread)
- DPAK 7; Ø 6 mm, Ø 8 mm (fuel hose, 2-piece)
- DPAK 8; M10x1 (external thread)
- DPAK 9; M10x1 (external thread, angle adapter)
- DPAK 11; M8x1 (internal thread)
- DPAK 12; M14x1.5 (internal thread)
- DPAK 13; M14x1.5 (external thread)
- DPAK 14; M8x1 (external thread, angle adapter)
- DPAK 19; M16x1.5 (external thread)
- DPAK 21; M10x1 (internal thread)
- DPAK 22; 7/16"- 20UNF V6
- DPAK 24; Plug connection, Ø 11 mm

- DPAK 26; 7/16"-20UNF
- DPAK 27; 7/16"-20UNF V6; (Internal thread, angle adapter)
- DPAK 28; 7/16"-20UNF V6 (internal thread, angle adapter, rotatable with angle)
- DPAK 29; VG 8 (internal thread, angle adapter, adapter with release pin)
- DPAK 30; VG 8 (internal thread, adapter with release pin)
- DPAK 31; Hose connector, Ø 8 mm, 2-piece
- DPAK 32; M14x1.5 (internal thread, with sealing cap)
- DPAK 34; Plug connection, Ø 8 mm, 2-piece
- DPAK 35; Plug connection, Ø 14 mm; 2-piece
- DPAK 36; M12x1.25 (external thread, hollow screw)
- DPAK 37; M12x1.5 (external thread, hollow screw)
- DPAK 38; M10x1 (external thread, hollow screw)
- DPAK 39; M8x1 (external thread, hollow screw)
- 1 extension hose 1.00 m, quick coupling on both sides
- 1 release valve AVE 01 with drain hose
- Ships complete in a rugged plastic case

EQUIPMENT

 ET 366 (121382) extension hose, length 3.00 m (9.8 ft), fuel resistant, with quick coupling on both sides. Used to check fuel pressure while driving.
 SPARE PARTS

- ET 104 (120508) gauge DS 100 mm with protective rubber cap and hook
- ET 136 (120590) three-way valve (connectable)
- ET 143 (120520) hose each end with coupling 0.25 m (9.8 in)
- ET 280 (121176) extension hose 1.00 m (3.3 ft)
- ET 719 (111765) extension hose 20 cm (7.9 in) with coupling and nipple DN 5
- AVE 02_LR (040780_1) drain valve for LR 180/4

SYSTEM-PRESSURE TESTER FOR FUEL INJECTION SYSTEMS (WITH 21 ADAPTERS)



item number:

LR 180/2_21 (041622_1)

DESCRIPTION

- For quick, easy and professional testing and diagnosis of mechanical and electronic fuel injection systems
- Suitable for most European and Asian vehicles with the following injection systems due to the special adapter combination: K-Jetronic, KE-Jetronic, L/LH-Jetronic, Motronic, MPI, HMPI, EFI, DIGIFANT, Mono-Jetronic, Opel-Multec, Weber CFI
- Can be used almost universally in combination with other adapters
- The intermediate, adjustable 3-way valve between the warm-up regulator and fuel distributor allows for the system and control pressure to be checked and the injection system to be tested for leaks
- Measurement range 0 ... 10 bar / 0 ... 140 psi, fine graduation 0.1 bar
- Precision pressure gauge NG 100 with robust rubber protection cap and mounting hook.
 Suitable for European and Asian vehicles. Other pressure gauge measurement ranges on request
- Optionally available with ISO calibration certificate

- All individual parts are available as spare parts
- High performance quality product made in Germany
- Extensive assortment of adapters as accessories.

SCOPE OF DELIVERY

- 1 pressure gauge NG 100, MB 0 ... 10 bar / 0 ... 140 psi; 1 3-way valve; 3 hoses of 0.25 m each, with quick coupling on both sides
- 21 DPAK adapter (coupling connection)
- DPAK 1; M 4x1.5 (external thread, angle adapter)
- DPAK 2; M12x1.5 (external thread, angle adapter)
- DPAK 3; M8x1 (external thread)
- DPAK 4; M12x1.5 (external thread)
- DPAK 5; M12x1.5 (internal thread)
- DPAK 6: M8x1 (internal thread)
- DPAK 7; Ø 6 mm, Ø 8 mm (fuel hose, 2-piece)
- DPAK 8; M10x1 (external thread)
- DPAK 9; M10x1 (external thread, angle adapter)
- DPAK 11; M8x1 (internal thread)
- DPAK 12; M14x1.5 (internal thread)
- DPAK 13; M14x1.5 (external thread)
- DPAK 14; M8x1 (external thread, angle adapter)
- DPAK 21; M10x1 (internal thread)
- DPAK 22; 7/16"- 20UNF V6
- DPAK 26; 7/16"-20UNF
- DPAK 28; 7/16"-20UNF V6 (internal thread, angle adapter, rotatable with angle)
- DPAK 29; VG 8 (internal thread, angle adapter, adapter with release pin)
- DPAK 30; VG 8 (internal thread, adapter with release pin)
- DPAK 31; Hose connector, Ø 8 mm, 2-piece
- DPAK 32; M14x1.5 (internal thread, with sealing cap)
- Ships complete in a rugged plastic case

EQUIPMENT

 ET 366 (121382) extension hose, length 3.00 m (9.8 ft), fuel resistant, with quick coupling on both sides. Used to check fuel pressure while driving.SYSTEM-PRESSURE TESTER FOR FUEL INJECTION SYSTEMS (WITH 12 ADAPTERS)



item number : LR 180/2 (041605)

DESCRIPTION

- For quick, easy and professional testing and diagnosis of mechanical and electronic fuel injection systems
- Also suitable for many European and Asian vehicles with the following injection systems due to the special adapter combination: K-Jetronic, KE-Jetronic, L/LH-Jetronic, Motronic, MPI, HMPI, EFI, DIGIFANT, Mono-Jetronic, Opel-Multec, Weber CFI
- Can be used almost universally in combination with other adapters
- The intermediate, adjustable 3-way valve between the warm-up regulator and fuel distributor allows for the system and control pressure to be checked and the injection system to be tested for leaks

- Measurement range 0 ... 10 bar / 0 ... 140 psi, fine graduation 0.1 bar
- Precision pressure gauge NG 100 with robust rubber protection cap and mounting hook.
 Suitable for European and Asian vehicles. Other pressure gauge measurement ranges on request
- Optionally available with ISO calibration certificate
 - All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

SCOPE OF DELIVERY

- 1 pressure gauge NG 100, MB 0 ... 10 bar / 0 ... 140 psi
- 1 3-way valve; 3 hoses of 0.25 m each, with quick coupling on both sides
 - 12 DPAK adapter (coupling connection)
 - DPAK 3; M8x1 (external thread);
 - DPAK 4; M12x1.5 (external thread)
 - DPAK 5; M12x1.5 (internal thread)
 - DPAK 6: M8x1 (internal thread)
- DPAK 7; Ø 6 mm, Ø 8 mm (fuel hose, 2-piece)
- DPAK 8; M10x1 (external thread)
- DPAK 9; M10x1 (external thread, angle adapter)
- DPAK 11; M8x1 (internal thread)
- DPAK 12; M14x1.5 (internal thread)
 - DPAK 13; M14x1.5 (external thread)
- DPAK 14; M8x1 (external thread, angle adapter)
- DPAK 21; M10x1 (internal thread)
- Ships complete in a rugged plastic case

EQUIPMENT

- ET 366 (121382) Extension hose 3.00 m long, fuel resistant, coupling connection on both sides (for testing the fuel pressure while driving)
- For further adapters see "DPAK adapter list"

FUEL PRESSURE TESTER (SCHRADER VALVE)



item number:

LR 180/01 (041601_1)

DESCRIPTION

- For fast, simple and professional testing of the fuel system pressure or inlet pressure on injection systems of petrol engines
- For example, for testing and diagnosing the fuel pump, system pressure regulator and tightness, etc.
- Can be used almost universally in combination with other adapters
- Pressure and vacuum testing from -1 to +9 bar
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

- 1 precision pressure gauge NG 63 -1 up to 9 bar with rubber protection cap
- 1 connecting hose 1 m with 2 quick couplings DN5
- 5 DPAK adapter (coupling connection)

- DPAK 22; 7/16"- 20UNF V6
- DPAK 29; VG 8 (internal thread, angle adapter, adapter with release pin)
- DPAK 30; VG 8 (internal thread, adapter with release pin)
- DPAK 48; 7/16"-20UNF (internal thread, with hose, length 1 m)
- DPAK 50; M8x1 (internal thread, with release pin)
- Ships in a rugged plastic case

EQUIPMENT

- ET 366 (121382) Extension hose 3.00 m long, fuel resistant, coupling connection on both sides (for testing the fuel pressure while driving)
- For further adapters see "DPAK adapter list";

FUEL SYSTEM PRESSURE TESTER WITH DIGITAL GAUGE



item number : LRD 180_AK2.1 (041620_10)

DESCRIPTION

- For fast, easy and professional testing of the flow and return pressure on injection systems for petrol and diesel engines
- For example, for testing and diagnosing the fuel pump, system pressure regulator and tightness, etc.
- The special adapter assembly makes it especially suitable for vehicles with plastic quick couplings according to the SAE standard
- Can be used almost universally in combination with other adapters
- The digital precision vacuum manometer with large display (digit height of 16 mm), integrated bar graph display, recallable MIN/MAX peak value, reset and zero function as well as display illumination enables effective analysis of the measurement values
- The flow of petrol can be closely observed through a plexiglass body (identification of bubbles)
- Pressure and vacuum testing from -1 to +16 bar
- All individual parts are available as spare parts
- Premium product, made in Germany
- Extensive assortment of adapters as accessories

- 1 digital precision vacuum pressure gauge (incl. factory calibration certificate), Measurement range: -1...+16 bar, Accuracy class: ± 0.5 % FSS, Pressure units: bar, PSI, kPa, MPa, mbar; with rubber protection cap and quick coupling
- 1x plexiglass body with quick couplings
- 7 DPAK adapter pairs (coupling connection)
- DPAK 64G; Plug Ø 9.89 mm, plug length (locking) 30 mm, straight plug nipple, 90° plug coupling
- DPAK 65G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling
- DPAK 66G; Plug Ø 7.89 mm, plug length (locking) 33 mm, straight plug nipple, 90° plug coupling
- DPAK 67G; Plug Ø 9.49 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling

- DPAK 68G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, straight plug coupling
- DPAK 69G; Plug Ø 9.89 mm, plug length (locking) 24.5 mm, straight plug nipple, 90° plug coupling
- DPAK 70G; Plug Ø 11.8 mm, plug length (locking) 10.8 mm, straight plug socket, 90° plug coupling
- Ships in a rugged plastic case

FUEL SYSTEM PRESSURE TESTER WITH COMPOUND GAUGE



item number : LR 180_AK2 (041620_2)

DESCRIPTION

- For fast, easy and professional testing of the flow and return pressure on injection systems for petrol and diesel engines
- For example, for testing and diagnosing the fuel pump, system pressure regulator and tightness, etc.
- The special adapter assembly makes it especially suitable for vehicles with plastic quick couplings according to the SAE standard
- Can be used almost universally in combination with other adapters
- The flow of petrol can be closely observed through a plexiglass body (identification of bubbles)
- Pressure and vacuum testing from -1 to +9 bar
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories

SCOPE OF DELIVERY

- 1 precision vacuum gauge NG 63, measurement range -1...+9 bar with quick coupling
- 1x plexiglass body with quick couplings
- 7 DPAK adapter pairs (coupling connection)
- DPAK 64G; Plug Ø 9.89 mm, plug length (locking) 30 mm, straight plug nipple, 90° plug coupling
- DPAK 65G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling
- DPAK 66G; Plug Ø 7.89 mm, plug length (locking) 33 mm, straight plug nipple, 90° plug coupling
- DPAK 67G; Plug Ø 9.49 mm, plug length (locking) 21 mm, straight plug nipple, 90° plug coupling
- DPAK 68G; Plug Ø 7.89 mm, plug length (locking) 21 mm, straight plug nipple, straight plug coupling
- DPAK 69G; Plug Ø 9.89 mm, plug length (locking) 24.5 mm, straight plug nipple, 90° plug coupling
- DPAK 70G; Plug Ø 11.8 mm, plug length (locking) 10.8 mm, straight plug socket, 90° plug coupling
- Ships in a rugged plastic case

SPARE PARTS

- ET 552 (111597_1) transparent body with connections
- ET 588 (111633) compound gauge DS 63 mm, range -1...+9 bar

EXTENSION HOSE



item number:

ET 366, accessories (121382)

DESCRIPTION

Accessory for fuel system pressure testers LR 180.

Extension hose, length 3.00 m (9.8 ft.)

- fuel resistant
- · with quick coupling on both sides

Used to check fuel pressure while driving.

TESTER FOR MEASURING THE INGOING PRESSURE TO A DELPHI HIGH-PRESSURE PUMP



item number:

FP 04 DELPHI (041214 2)

DESCRIPTION

- For quick, easy and professional testing of the inlet pressure for DELPHI high-pressure pumps on common rail diesel engines
- The length of the test hose allows pressure measurements during the test drive
- Pressure and vacuum testing from -1 to +5 bar
- Plug connection on both sides
- All individual parts are available as spare parts

- 1 precision vacuum pressure gauge NG 63, measurement range -1...+5 bar with rubber protection cap
- 1 test hose with T-piece, length 2.00 m
- 2 test hoses, length 0.20 m each
- Delivered in a box

FUEL SUPPLY PUMP TESTER



item number : FP 03 (041213_1)

DESCRIPTION

- For the fast, simple and professional testing and diagnosis of the fuel feed pump of petrol and diesel engines
- The test includes the following options:
- Fault in the fuel supply
- Fault on overflow valve
- Feed pump fault
- Leaking pipes / pressure loss
- Air bubbles in the system
- Test possible while driving
- Can be used almost universally in combination with other adapters
- The flow of petrol can be closely observed through the plexiglass body (identification of bubbles)
- Pressure and vacuum testing from -1 to +9 bar
- Easy assembly and disassembly thanks to quick coupling system
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

SCOPE OF DELIVERY

- 1 vacuum pressure gauge NG 63, measurement range -1...+3 bar
- 2 hoses, each 3.00 m
- 1 adapter M12x1.5 (external thread)
- 1 adapter M12x1.5 (internal thread)
- Delivered in a box

SPARE PARTS

- ET 277 (121173) compound gauge DS 63 mm,
- range -1...+3 bar with protective rubber cap
- ET 438 (121472) compound gauge DS 63 mm,
- range -1...+9 bar with protective rubber cap

FUEL SUPPLY PUMP TESTER



item number: FP 01 (041213)

DESCRIPTION

- For the fast, simple and professional testing and diagnosis of the fuel feed pump of petrol and diesel engines
- The test includes the following options:
- Fault in the fuel supply
- Fault on overflow valve
- Feed pump fault
- Leaking pipes / pressure loss
- Air bubbles in the system
- Test possible while driving
- Can be used almost universally in combination with other adapters
- The flow of petrol can be closely observed through the plexiglass body (identification of bubbles)
- Pressure and vacuum testing from -1 to +3 bar
- Easy assembly and disassembly thanks to quick coupling system
- All individual parts are available as spare parts
- Extensive assortment of adapters as accessories.

SCOPE OF DELIVERY

- 1 high quality compound gauge with solid protective rubber cap DS 63 mm (2 1/2"), range 1...+3 bar
- 2 hoses 3.00 m (10 ft) long
- 1 adapter M 12x1.5 (female thread) connectable
- 1 adapter M 12x1.5 (male thread) connectable

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