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COMMON RAIL SYSTEM, HIGH-PRESSURE TEST

- The common rail system consists of several modules. The following components are responsible for the injection behaviour of the system:
- Solenoid-controlled injectors, which are screwed into the cylinder head
- Accumulator (rail)
- High-pressure pump
- The pressure in the system is generated independently of the injection.
- The speed of the high pressure pump is coupled to the engine speed with a fixed gear ratio.
- The injectors, which are connected to the rail via short lines, basically consist of an injection nozzle and one solenoid valve each.
- The control unit is responsible for supplying the correct current to the solenoid valves and thus controls the start and duration of the injection.
- The amount of fuel injected is proportional to the switch-on time of the solenoid valve and therefore independent of the engine or pump speed.
- The controller determines the start and duration of the injection by means of the signals from the crankshaft and camshaft speed sensor.
- The following products are used to test the start pressure of the high pressure pump as well as the pressure at changing speeds

DIGITAL MEASUREMENT TECHNOLOGY, CASE SET (EXAMPLE)



item number :
DM 100-Set (-)

DESCRIPTION

- Custom made Case Set for hydraulic measurement:
 - 2 digital manometers (different pressure ranges)
 - 4 hydraulic hoses
 - 17 Adapter
- Exemplary composition (see image) of different measuring leads and testing adapters on request.

SCOPE OF DELIVERY

- Delivery in solid plastic case

TABLE

Pressure ranges	Application
-1 to +16 bar	Vacuum, Oil Pressure, Fuel Pressure
0 to 60 bar	Compression
0 to 400 bar	Hydraulic
0 to 2.500 bar	Common Rail Hydraulic

COMMON RAIL HIGH PRESSURE TESTER WITH DIGITAL MANOMETER (2500 BAR)



item number :
CRPD 2500 (042140_1)

DESCRIPTION

- For quick, easy and safe static and dynamic pressure testing of the high pressure circuit on common rail diesel engines
- Max. working pressure up to 2500 bar
- Required, e.g. for testing the high-pressure pump when starting the engine or the system pressure test at varying speeds
- For universal use
- High performance quality product made in Germany
- All individual parts are available as spare parts

SCOPE OF DELIVERY

- 1 test block with digital pressure gauge with protective rubber cap, NG 100, measurement range 0...2500 bar
- 2 flexible high-pressure hoses M 14x1.5, length 0.50 m
- 1 adapter thread M 14x1.5 (male thread)
- 1 silicone hose, 1.00 m (3.3 ft)
- delivery in solid plastic case

COMMON RAIL HIGH PRESSURE TESTER (2500 BAR)



item number :
CRP 2500 (042131_2)

DESCRIPTION

- For quick, easy and safe static and dynamic pressure testing of the high pressure circuit on common rail diesel engines
- Max. operating pressure up to 2500 bar
- Required, e.g. for testing the high-pressure pump when starting the engine or the system pressure test at varying speeds
- For universal use
- High performance quality product made in Germany
- All individual parts are available as spare parts

SCOPE OF DELIVERY

- 1 test block with high-pressure gauge with GSK, NG 100, measurement range 0 to 2500 bar
- 2 flexible high-pressure hoses M 14x1.5, length 0.50 m
- 1 adapter thread M 14x1.5 (male thread)
- 1 silicone hose, 1.00 m (3.3 ft)
- Delivery in a stable plastic case

EQUIPMENT

- DETA (041257) Adapter thread M14x1.5 (internal thread) + M12x1.5 (external thread)
- CRPZ 01 (042114_1) Adapter thread M14x1.5 (external thread) + M12x1.5 (external thread)
- CRPZ 02 (042115_1) Diesel line rigid, 120 mm, bend 50°, M12x1.5 - M14x1.5
- CRPZ 03 (042116_1) Diesel line rigid, 120 mm, bend 90°, M12x1.5 - M14x1.5
- CRPZ 04 (042121_1) Diesel line rigid, 120 mm, bend 90° angle length 40 mm
- CRPZ 05 (042122_1) Diesel line rigid, 120 mm, bend 90°+45°, M12x1.5 - M14x1.5
- CRPZ 06 (042123_1) Diesel line rigid, 120 mm, bend 65°, M12x1.5 - M14x1.5
- CRPZ 07 (042124_1) High-pressure closure M14x1.5
- CRPZ 08 (042127_1) Diesel line 120 mm, bend 45°, M12x1.5 on both sides
- CRPZ 09 (042128_1) Diesel line 120 mm, bend 90°, M12x1.5 on both sides
- CRPZ 10 (042129_1) Diesel line 120 mm, bend 45°, M14x1.5 on both sides
- CRPZ 11 (042130_1) Diesel line 120 mm, bend 90°, M14x1.5 on both sides

PRESSURE TESTER FOR STATIC AND DYNAMIC HIGH-PRESSURE PUMP TESTING (1600 BAR)



item number :
CRP 04 (042112_1)

DESCRIPTION

- For quick, easy and safe static and dynamic pressure testing of the high pressure circuit on common rail diesel engines
- Max. working pressure up to 1600 bar
- Required, e.g. for testing the high-pressure pump when starting the engine or the system pressure test at varying speeds
- For universal use
- High performance quality product made in Germany
- All individual parts are available as spare parts

- **SCOPE OF DELIVERY**
- 1 pressure tester unit with high pressure gauge with protective rubber cap, DS 100 mm (4"), 0...1600 bar
- 2 high pressure hoses, each 0.50 m long
- 1 adapter M 12x1.5 both sides (ET 446)
- 1 solid plastic case

EQUIPMENT

- DETA (041257) adapter, thread M 14x1.5 (IG) + M 12x1.5 (AG) with closed cone
- CRPZ 01 (042114_1) adapter, thread M 14x1.5 (AG) + M 12x1.5 (AG)
- CRPZ 02 (042115_1) fuel line 120 mm, rigid, bended 50°, thread M 12x1.5 - M 14x1.5
- CRPZ 03 (042116_1) fuel line 120 mm, rigid, bended 90°, thread M 12x1.5 - M 14x1.5
- CRPZ 04 (042121_1) fuel line 120 mm, rigid, bended 90°
- CRPZ 05 (042122_1) fuel line 120 mm, rigid, bended 90 + 45°, M 12x1.5 - M 14x1.5
- CRPZ 06 (042123_1) fuel line 120 mm, rigid, bended 65°, M 12x1.5 - M 14x1.5
- CRPZ 07 (042124_1) high pressure tap, thread M 14x1.5
- CRPZ 08 (042127_1) fuel line 120 mm, bended 45°, M 12x1.5 both sides
- CRPZ 09 (042128_1) fuel line 120 mm, bended 90°, M 12x1.5 both sides
- CRPZ 10 (042129_1) fuel line 120 mm, bended 45°, M 14x1.5 both sides
- CRPZ 11 (042130_1) fuel line 120 mm, bended 90°, M 14x1.5 both sides

SPARE PARTS

- ET 369 (121385_1) high pressure gauge 100, 0...1600 bar
- ET 446 (121476_1) adapter M 12x1.5 on both sides
- ET 551 (111596_1) flexible high pressure hose, M 12x1.5, length 0,50 m

COMMON RAIL HIGH PRESSURE TESTING DEVICE WITH ANALOGUE DISPLAY (1000 BAR)



item number :

CRP 01.2 (042134_1)

DESCRIPTION

- For quick, easy pressure testing of the high pressure circuit on common rail diesel engines
- Max. operating pressure up to 1000 bar / 1400 psi
- Required, e.g. for testing the high pressure pump when starting the engine
- Universally applicable due to the different CRPZ adapters
- Precision high pressure gauge in stainless steel design, NG 63, measurement range 0...1000 bar, glycerine filled
- High performance quality product made in Germany
- All individual parts are available as spare parts

SCOPE OF DELIVERY

- 1 high pressure manometer NG 63, 0...1000 bar, glycerine-filled
- 1 DETA (041257) adapter, thread M 14x1.5 (IG) - M 12x1.5 (AG)
- 1 adapter G 1/4 - M 12x1.5
- CRPZ 01 (042114_1) adapter, thread M 14x1.5 (AG) - M 12x1.5 (AG)
- CRPZ 02 (042115_1) fuel fuel, rigid, 120 mm, bend 50°, M 12x1.5 - M 14x1.5
- CRPZ 03 (042116_1) fuel fuel, rigid, 120 mm, bend 90°, M 12x1.5 - M 14x1.5

- CRPZ 04 (042121_1) fuel fuel, rigid, 120 mm, bend 90°, angle length 40 mm
- CRPZ 05 (042122_1) fuel fuel, rigid, 120 mm, bend 90°+45°, M 12x1.5 - M 14x1.5
- CRPZ 06 (042123_1) fuel fuel, rigid, 120 mm, bend 65°, M 12x1.5 - M 14x1.5
- Supplied in a robust plastic case

DIGITAL PRESSURE TESTER WITH PLUG-IN ADAPTERS FOR THE PRESSURE AND LEAK TESTING OF COMMON RAIL SYSTEMS



item number :

CRP 02.1 (042102_2)

DESCRIPTION

- For quick and easy pressure and leak testing of common rail systems.
- The tester is directly connected to the high pressure rail sensor by means of the adapters supplied (see contents).
- The existing system pressure is shown on the display and can then be compared with the manufacturer's data.
- Two measuring ranges possible.
- range 0...1500 bar or 0...1800 bar
- measurement resolution 1 bar
- indication for defective pressure rail sensor
- fault detection indicated by a red warning LED
- automatic cut-off after 1 minute
- power supply by 9 V battery

SCOPE OF DELIVERY

- 1 basic unit CRP 02
- 1 adapter cable CRPA 01 (042103) (Mercedes vehicles)
- 1 adapter cable CRPA 02 (042104) (universal connecting plug)
- 1 adapter cable CRPA 03 (042105) (French and Italian vehicles)
- Supplied complete in a robust plastic case

EQUIPMENT

- CRPA 03.1 (042105_1) adapter cable for **DELHPI** common rail system

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