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Россия (495)268-04-70

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CYLINDER LEAKAGE TESTERS FOR PETROL AND DIESEL ENGINES

- Each individual cylinder or combustion chamber in petrol (gasoline) and diesel engines can be diagnosed by measuring the engine pressure loss.
- The magnitude of the loss of pressure and the location can be determined through the controlled feeding of compressed air into the combustion chamber.
- Escaping air or blowing noises in the intake or exhaust area
- Possible defects: leaking inlet or outlet valves. Escaping air at the crankcase ventilation, oil filler neck or oil dipstick tube
- Possible defects: wear of piston, piston rings, cylinder track or defective cylinder head gasket.
- Air bubbles in the cooling water expansion tank or in the combustion chamber of the adjacent cylinder
- Possible defects: leaking cylinder head gasket, cracks in the cylinder head.
- Note: Further adapters for use of the test devices in different engines can be found in the service area in the "Adapter list for compression and pressure loss testing units" for download

COMPRESSION AND PRESSURE LOSS TESTER



item number :
DRV-KP-Kit 01 (041122_1)

DESCRIPTION

- Test set for measuring the compression pressure and for performing a pressure loss measurement
- Suitable for petrol engines due to the special adapter combination
- Also suitable for diesel engines in conjunction with other adapters
- Compression pressure measurement enables quick and easy diagnosis of each individual cylinder

- The measured value provides information about the condition of various components such as valves, piston rings, cylinder liners etc.
- The engine pressure loss measurement enables extended diagnosis of each individual cylinder or combustion chamber by determining the air outlet
- The magnitude of the loss of pressure can be determined through the controlled feeding of compressed air into the combustion chamber
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- The OT 01 upper dead point gauge allows for the quick and precise determination of the top dead centre of the cylinder to be tested

SCOPE OF DELIVERY

- 1 DRV 05 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap.
- 1 test hose with quick coupling, length 1.00 m
- 1 KP 80 compression tester with precision pressure gauge NG 80 (0...40 bar) with solid rubber protection cap.
- 1 adapter (flexible) KPA 08 for spark plug thread M10x1 (petrol engines)
- 1 adapter (flexible) KPA 09 for spark plug thread M12x1.25 (petrol engines)
- 1 adapter (flexible) KPA 10 for spark plug thread M12x1.25 (petrol engines)
- Ships in a rugged plastic case

DIGITAL ENGINE PRESSURE-LOSS TESTER IN METAL HOUSING



item number :
DRVD 02 (041105_1)

DESCRIPTION

- Each individual cylinder or combustion chamber in petrol and diesel engines can be diagnosed by measuring the engine pressure loss
- The magnitude of the loss of pressure can be determined through the controlled feeding of compressed air into the combustion chamber
- The digital pressure gauge enables quick and convenient reading of the measurement value
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- With switch for increasing the air flow rate, makes it easier to listen to and pin-point existing leaks
- Simple application and operation.

SCOPE OF DELIVERY

- 1 engine pressure-loss tester DRVD 02
- 1 standard test hose, 1.00 m long (3 ft), with quick coupling
- 1 connectable adapter ZKS 01.1, with spark plug thread M 14x1.25 and M 18x1.5
- Delivered in paper box

DIGITALE ENGINE PRESSURE-LOSS TESTER



item number :
DRVD 05 (041106_1)

DESCRIPTION

- Engine pressure-loss tester for petrol and diesel engines for connection to the workshop's compressed air supply
- The measuring instrument shows the percentage pressure loss of the cylinder
- Digital precision pressure gauge NG 80 including stable rubber protection cap
- Quick and easy diagnosis of each individual cylinder or combustion chamber
- Universally suitable for petrol and diesel engines (in connection with further adapters)
- The digital precision pressure gauge allows a quick evaluation of the measurement result – it shows the pressure loss of the cylinder in percentages
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure-loss tester with pressure control valve and digital precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5
- Delivered in a box

ENGINE PRESSURE-LOSS TESTER PETROL ENGINES



item number :
DRV 05_Otto-Set (041113_8)

DESCRIPTION

- Quick and easy diagnosis of each individual cylinder or combustion chamber
- Universally suitable for petrol engines
- Also suitable for diesel engines in conjunction with other adapters
- The special pressure gauge allows a quick evaluation. If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter ZKS 01.1 for spark plug threads M14x1.25 and M18x1.5 (petrol engines)
- 1 adapter (flexible) KPA 08 for spark plug thread M10x1 (petrol engines)
- 1 adapter (flexible) KPA 09 for spark plug thread M12x1.25 (petrol engines)
- 1 adapter (flexible) KPA 10 for spark plug thread M12x1.25 (petrol engines)
- Ships in a rugged plastic case

ENGINE PRESSURE-LOSS TESTER



item number :

DRV 06 (041121_1)

DESCRIPTION

- Version with additional pressure gauge for measuring the inlet pressure
- Quick and easy diagnosis of each individual cylinder or combustion chamber
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure loss tester with pressure inlet manometer NG 50 (0 ... 16 bar), pressure control valve and precision pressure gauge NG 80 with solid rubber protection cap
- 1 test hose 1.00 m with quick coupling w. pressure control valve
- 1 adapter ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5
- Delivered in a box

SPARE PARTS

- ET 381 (121397_1) test hose 1,00 m (3 ft) long with quick coupling and thread G 1/4
- ET 412 (121447_1) gauge DS 80, scale with %-indication and protective rubber cap
- ET 57.7 (120102_9) plastic case (DRV 05 only)

ENGINE PRESSURE LOSS TESTER



item number :

DRV 05.3 (041119)

DESCRIPTION

- Suitable for motorcycles through special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy diagnosis of each individual cylinder or combustion chamber
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure-loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5
- 1 adapter KPA 01_Motorcycle, for spark plug thread M12x1.25 (long thread)
- 1 adapter KPA 02_Motorcycle, for spark plug thread M10x1 (long thread)
- Delivered in a box

ENGINE PRESSURE-LOSS TESTER



item number :

DRV 05_FORD (041113_7)

DESCRIPTION

- Suitable for Ford vehicles due to the special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy diagnosis of each individual cylinder or combustion chamber
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation
- Other vehicle or customer-specific set combinations on request

SCOPE OF DELIVERY

- 1 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter (70 mm) ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5 (petrol engines)
- 1 adapter (200 mm) ET 37.3 for spark plug thread M14x1.25 (petrol engines)
- 1 adapter ZKD 26 for spark plug thread M10x1 (diesel engines)
- 1 adapter ZKD 40 for spark plug thread M8x1 (diesel engines)
- Ships in a rugged plastic case

ENGINE PRESSURE-LOSS TESTER



item number :

DRV 05_KIA (041113_4)

DESCRIPTION

- Suitable for Kia vehicles due to the special adapter combination
- Universally suitable for petrol and diesel engines in connection with further adapters
- Quick and easy diagnosis of each individual cylinder or combustion chamber
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- The OT 04 upper dead point gauge allows for the quick and precise determination of the top dead centre of the cylinder to be tested
- Simple application and operation
- Other vehicle or customer-specific set combinations on request

SCOPE OF DELIVERY

- 1 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter ZKD 21 for injector bore \varnothing 16.5 / \varnothing 7.5 (diesel engines)
- 1 adapter ZKD 23 for spark plug thread M10x1.25 (diesel engines)
- 1 adapter ZKD 24 for spark plug thread M10x1.25 (diesel engines)
- 1 adapter ZKD 25 for spark plug thread M10x1 (diesel engines)
- 1 adapter (70 mm) ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5 (petrol engines)
- 1 adapter (200 mm) ET 37.3 for spark plug thread M14x1.25 (petrol engines)
- 1 adapter KPA 10 (200 mm; flexible), M14x1.25 (petrol engines)
- 1 OT 04 upper dead point gauge (Plexiglas cylinder, hose with quick coupling)

ENGINE PRESSURE-LOSS TESTER



item number :

DRV 05 (041113)

DESCRIPTION

- Quick and easy diagnosis of each individual cylinder or combustion chamber
- Universally suitable for petrol and diesel engines (in connection with further adapters)
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable

- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure loss tester with pressure control valve and precision pressure gauge NG 80 with stable rubber protection cap
- 1 test hose with quick coupling, length 1.00 m
- 1 adapter ZKS 01.1 for spark plug thread M14x1.25 and M18x1.5
- Delivered in a box

ENGINE PRESSURE-LOSS TESTER IN METAL HOUSING



item number :
DRV 02 (041103)

DESCRIPTION

- Quick and easy diagnosis of each individual cylinder or combustion chamber
- Universally suitable for petrol and diesel engines (in connection with further adapters)
- The special pressure gauge allows a quick evaluation
- If the pointer is not in the green area, the measured pressure loss is not acceptable
- Before carrying out the test, the maximum permissible pressure loss of the engine is set (approx. 23%) by connecting it to the workshop's compressed air supply
- A switch for increasing the air flow rate, makes it easier to listen to and pin-point existing leaks
- Simple application and operation

SCOPE OF DELIVERY

- 1 engine pressure-loss tester DRV 02
- 1 standard test hose, 1,00 m long (3 ft), with quick coupling
- 1 connectable adapter ZKS 01.1 with spark plug thread
- M 14x1.25 and M 18x1.5

SPARE PARTS

- ET 287 (121183) test hose with connectable adapter ZKS 01.1
- ET 339 (121355) adjusting nozzle
- ZKS 01.1 (040341_1) adapter with spark plug thread M 14x1.25 und M 18x1.5

UPPER DEAD POINT GAUGE



item number :
OT 01 (041311_1)

DESCRIPTION

- To achieve the optimum adjustment of ignition timing, the piston's upper dead point has to be found.
- This is particularly difficult, if ignition timing marks are indistinct.

- The upper dead center can be found easily via acoustic signal.
- The OT 04 can be used with the same adapters as for the Cylinder leakage testers DRV 05 or DRV 06.
- Used in combination with adapters from Leakage Testers.
- Finding TDC made easy.

UPPER DEAD POINT GAUGE



item number :
OT 04 (041310_1)

DESCRIPTION

To achieve the optimum adjustment of ignition timing, the piston's upper dead point has to be found.

This is particularly difficult, if ignition timing marks are indistinct.

By means of a ball in an acrylic glass-pipe with scale, the upper dead center can be found easily.

The OT 04 can be used with the same adapters as for the Cylinder leakage testers DRV 05 or DRV 06.

Used in combination with adapters from Leakage Testers

Finding TDC made easy

SCOPE OF DELIVERY

OT 04 with acrylic cylinder including 1.00 m (2.9 ft.) hose with quick coupling

SPARE PARTS

- ET 37.5 (041116_1) adapter (standard) thread M 18x1 and M 14x1.25
- ET 57.7 (120102_9) plastic case for OT 04

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