# Compression & Fuel Pressure Testing Tools

## Table of Contents
- Petrol Compression
- Diesel Compression
- Diagnostic Pressure Testing
- Fuel Injection

## Key
- **P**: For use with petrol engines
- **D**: For use with diesel engines
- **Belt**: For use with belt driven engines
- **Chain**: For use with chain driven engines
- **Do Not Use Air Tools**

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[www.sykes-pickavant.com](http://www.sykes-pickavant.com)
**Petrol Engine Compression Tester**

**31400000**

- Checks cylinder compression to assist in the diagnosis of faulty valves, piston rings, cylinder heads & gaskets
- 300mm flexible rubber hose with large, shock protected, easy to read dual scale gauge, for quick and accurate checks
- Pressure relief valve allows repeated cylinder tests, without removing the gauge
- Dual threads (M14 & M18) for quick and easy connection to spark plug ports

**Specification:**
- M14 / M18 dual thread coupling
- Gauge Diameter: 83mm
- Gauge Scale: 0 - 20bar, 0 - 190psi
- Gauge to DIN16005, DIN16063, BS1780 standards

**Optional Extra - Petrol Engine Compression Tester - Extra Long Hose**

**31402000**

- Fitted with extra-long 460mm flexible rubber hose for easy access to restricted plug ports

**Spare Parts:**
- 31400500 - Service Kit for Compression Tester

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**Petrol Engine Compression Tester Kit**

**31400300**

- Comprehensive kit, based on 31400000 Petrol Compression Tester - above
- Suitable for vehicles with M10, M12, M14 and M18 Spark plug threads

**Contents:**
- Petrol Compression Tester Gauge
- Thread Chasers: M10 / M12 & M14 / M18
- Spark Plug Port Extensions: M10, M12, M14 (x2), M18
- Service Kit of non-return valves and o-rings
- Supplied in plastic case with foam insert

**Optional Extra - Extra Long Flexible Adaptor**

**31400900**

- M14 x 158mm for Ford Zetec / Duratec

**Optional Extra - Extra Long Flexible Adaptor**

**31401100**

- M12 x 380mm for Renault

**Spare Parts:**
- 31400500 - Service Kit for Compression Tester
- 31400470 - Deep Extension - M14 x 1.25 x 94mm
- 31401070 - M10 Extension - M10 x 1.0 x 57mm
- 01410070V2 - Thread Chaser - M14 / M18
- 66061270 - Thread Chaser - M10 / M12

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**Petrol Engine Compression Tester - Quick-Release Kit**

**31405000**

- Specially designed for deep seated spark plug ports with long narrow threads, as found on many modern petrol engines
- Positive lock - quick release connector, ensures adaptors cannot accidentally be left in the spark plug port (which would then become extremely difficult to remove with deep seated plug ports)
- Specially designed self-centering adaptors ensure minimal risk of cross threading when attempting to screw the compression adaptor in to the spark plug port. Without this feature, it would be very difficult to successfully fit an adaptor into a deep seated plug port
- Supplied in plastic case with foam insert

**Specification:**
- Gauge Scale: 0 - 20bar, 0 - 190psi
- Gauge Diameter: 83mm
- Gauge to DIN16005, DIN16063, BS1780 standards

**Spare Parts:**
- 31405170 - 10mm Universal QR Adaptor
- 31405370 - 14mm Universal QR Adaptor
- 31405070 - 20 bar Pressure Gauge Assembly with 500mm braided high pressure hose & QR connector
### Diesel Engine Compression Test Kit - Common Rail Diesel (CRD)

**31427500**

- Comprehensive test kit specifically designed to cover a wide range of modern CRD diesel injected engines
- Checks engine compression under cranking conditions
- Enables cylinder access through dummy injector and glow plug adaptors
- Built-in pressure relief valve enables repeat tests without dismantling

**Contents:**
- Gauge & Hose Assembly
- 15 x Dummy Glow Plugs for CRD engines
- CRD Dummy Injector and Clamps for applications where it is easier to remove the injector
- Supplied with vehicle applications list

Refer to Page 89 for kit contents / spares and applications or visit www.sykes-pickavant.com for a comprehensive range of diesel compression applications available.

**Spare Parts:**
- 31400500 - Service Kit for compression gauge
- 01421500 - Seals and Washers for dummy injectors
- 31420100 - Gauge & Hose Assembly
- 31433670 - Lock Nut
- 31427870 - Injector End

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### Diesel Engine Compression Test Kit - Standard Car Kit

**314200V2**

- Comprehensive test kit for both direct and indirect diesel injected engines
- Checks engine compression under cranking conditions
- Enables cylinder access through dummy injector and glow plug adaptors
- Built-in pressure relief valve enables repeat tests without dismantling

**Specification:**
- 560mm Rubber Hose
- Gauge Scale: 0-60bar, 0-860psi
- Gauge Diameter: 83mm
- Gauge to DIN 16005, DIN 16063, BS 1780 standards

**Contents:**
- Gauge & Hose Assembly
- 9 x Dummy Glowplugs
- 2 x Dummy Injectors
- Supplied with vehicle applications list

Refer to Page 89 for kit contents / spares and applications or visit www.sykes-pickavant.com for a comprehensive range of diesel compression applications available.

**Spare Parts:**
- 31400500 - Service Kit for compression gauge
- 01421500 - Seals and Washers for dummy injectors
- 31420100 - Gauge & Hose Assembly
- 31473070 - Elbow Connector

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### Diesel Engine Compression Test Kit - Premier Car Kit

**314295V2**

- For both direct and indirect diesel injected engines, containing a wide variety of popular dummy glow plug and injector applications. Includes additional applications (compared with Standard car kit) for Mercedes, VW / Audi, Land Rover and PSA
- Checks engine compression under cranking conditions
- Enables cylinder access through dummy injector and glow plug adaptors
- Built-in pressure relief valve enables repeat tests without dismantling

**Specification:**
- 560mm Rubber Hose
- Gauge Scale: 0-60bar, 0-860psi
- Gauge Diameter: 83mm
- Gauge to DIN 16005, DIN 16063, BS 1780 standards

**Contents:**
- Gauge & Hose Assembly
- 17 x Dummy Glowplugs
- 5 x Dummy Injectors
- Full Vehicle Applications and Spare Parts information provided

Refer to Page 89 for kit contents / spares and applications or visit www.sykes-pickavant.com for a comprehensive range of diesel compression applications available.

**Spare Parts:**
- 31400500 - Service Kit for compression gauge
- 01421500 - Seals and Washers for dummy injectors
- 31420100 - Gauge & Hose Assembly
- 31473070 - Elbow Connector
Diesel Compression Adaptor Sets

- A new range of short sets of adaptors for Diesel Compression Testing to complement existing kits
- Suitable for all previous models of SP Diesel Compression Testers
- Each set contains the appropriate adaptors for a particular engine series, which often cover more than one manufacturer
- Applications for the full range of adaptor sets are provided with each short set

**GM Opel / Mercedes**

314288SP / 314288V2*

Applications:
- Mercedes CDI 2.0, 2.1, 2.2, 2.7, 3.0, 3.2, 3.9, 4.0 (M8 & M10)
- Opel / GM 1.7DI, DTI, CDTI, 2.0 / 2.2DT, DTI, DDTI
- Also fits VW Group Common Rail 1.6, 2.0, 2.7, 3.0TDI

Spare Parts:
- 31422370 - M8 x 1.00mm Glow Plug
- 3142687V2 - M10 x 1.00mm Glow Plug
- 3142697OV2 - M10 x 1.25mm Glow Plug
- 31421970 - Glow Plug Extension Rod

**Toyota**

314289SP / 314289V2*

Applications:
- IND-TV 1.4D
  - Fitted to Auris, IQ, Corolla, Urban Cruiser, Yaris
- Mini One W17D141.4D, 1CD-FTV 2.0D-4D, 1AD-FTV 2.0D-4D, 2AD-FH / TV 2.2D-4D, IS2/200 Fitted to Toyota and Lexus

Spare Parts:
- 31420970 - M10 x 1.25mm Glow Plug
- 31427170V2 - M10 x 1.25mm Glow Plug
- 31421970 - Glow Plug Extension Rod

**PSA**

314291SP / 314291V2*

Applications:
- Citroën 1.4, 1.6, 2.0, 2.2, 2.7HDi
- Fiat Scudo Ulysse 2.0JTD, 2.2JTD, 2.2JTD
- Ford 1.4, 1.6, 2.0, 2.2TDCi
- Jaguar / Land Rover 2.2, 2.7TD
- Peugeot 1.4, 1.6, 2.0, 2.2, 2.7HDi
- Volvo 1.6, 2.0, 2.4D

Spare Parts:
- 31423170 - M8 x 1.00mm Glow Plug
- 31425270V2 - M10 x 1.00mm Glow Plug
- 31427770V2 - M8 x 1.00mm Glow Plug
- 31428570 - M8 x 1.00mm Glow Plug
- 31421970 - Glow Plug Extension Rod

**Fiat**

314292SP / 314292V2*

Applications:
- Alfa Romeo 1.3JTDM 16V, 1.6JTDM 16V, 1.9JTDM 8V, 1.9 JTDM 8V, 1.9JTDM/M 16V, 2.0JTDM, 2.4JTDM 10V, 2.4JTDM/M 20V
- Fiat 1.3MJTD 16V, 1.6JTD, 1.9 JTD/M/DM, 2.0JTDM, 2.3JTDM, 2.4JTDM, 3.0JTD
- Saab 1.9D, TiD1.9D, TiTD
- Vauxhall 1.3DTI, 1.3CDTI, 1.9CDTI, 2.0D CDTI

Spare Parts:
- 31421670 - M9 x 1.00mm Glow Plug
- 31421870 - M8 x 1.00mm Glow Plug
- 31423170 - M8 x 1.00mm Glow Plug
- 31425970V2 - M10 x 1.00mm Glow Plug
- 31421970 - Glow Plug Extension Rod

**Renault**

314293SP / 314293V2*

Applications:
- K9K 1.5DCi, F9Q 1.9DCi, D4192T 1.9D
  - Fitted on Dacia, Nissan, Suzuki, Volvo
- M9R 2.0DCi, M9T 2.3CDti
  - Fitted on Nissan, Opel / GM, Renault
- G9T 2.2DCi, Y22DTS 2.2DCi, G9U 2.5DCi, Y25DDTI 2.5DCi
  - Fitted on Nissan, Opel / GM, Renault

Spare Parts:
- 31421770 - M10 x 1.00mm Glow Plug
- 3142677V2 - M10 x 1.00mm Glow Plug
- 31427470V2 - M22 x 1.5mm Dummy Injector

**Ford**

314294V2

Applications:
- Glowplug:
  - Ford 1.8DT, TDCI, TDDI, 2.0, 2.2, 2.4, 3.2 DDDI
- Dummy Injector:
  - 2.0, 2.2, 2.4 Duratorq Diesel Injector

Spare Parts:
- 31424970 - M10 x 1.00mm Glow Plug
- 31425470V2 - M10 x 1.00mm Glow Plug
- 31428170 - M22 x 1.5mm Dummy Injector

*V2 versions exclude 31421970 - Glow Plug Extension Rod
Diesel Engine Compression Test Kit - Land Rover

31428500

- Comprehensive test kit for Land Rover diesel injected engines
- Checks engine compression under cranking conditions
- Enables cylinder access through dummy glow plug adaptors
- Built-in pressure relief valve enables repeat tests without dismantling

Contents:
(Supplied in cardboard carton)
- 0-60 bar pressure gauge and 4 x Glow Plug adaptors

Applications include:
- Defender MK3, Discovery 3 & 4, Range Rover Sport & Range Rover 3, Freelander 1 & 2, Evoque
- Other adaptors for older Land Rovers are also available on request

Refer to Page 89 for kit contents / spares and applications or visit www.sykes-pickavant.com for a comprehensive range of diesel compression applications available

Spare Parts:
- 31400500 - Service Kit for compression gauge

Diesel Engine Compression Test Kit - LCV

31428000

- A specialist kit for the LCV (van) market for both direct and indirect diesel injected engines
- Designed to work with modern LCV’s (vans) such as:
  - Citroën: Jumper / Relay 1.9D, 2.0 Hdi, 2.2Hdi, 2.5D, 2.8Hdi
  - Fiat: Ducato – 1.9D, 2.0JTD, 2.3JTD, 2.5D, 2.8D, 2.8JTD
  - Ford: Transit & Connect – 1.8D, 1.8TDci, 1.8 TDDi, 2.0Di, 2.0TDci, 2.2TDci, 2.4D, 2.4TDci, 2.5D
  - Iveco: Daily / Turbo Daily – 2.3D, 2.5D, 2.8D, 3.0D
  - LDV: Pilot / Convoy / Maxus – 1.9D, 2.3D, 2.4TDi, 2.4TDi, 2.5D, 2.5CRD
  - Mercedes: Sprinter / Vito – 2.2D, 2.2CDi, 2.3D, 2.7D, 2.9D
  - Nissan: Interstar / Primastar / Cabstar – 1.9DCi, 2.2DCi, 2.3D, 2.5DCi, 2.5D, 2.7D
  - Opel: Movano / Vivaro – 1.9DTi, 1.9CDTi, 2.2DTi, 2.5DTi, 2.5 CDTi
  - Peugeot: Expert / Boxer / Boxer 2 – 1.9D, 2.0Hdi, 2.5D, 2.8Hdi
  - Renault: Traffic / Master – 1.9D, 1.9DCi, 2.1D, 2.2DCi, 2.5D, 2.5DCi, 2.8DTi
  - Toyota: Hi-Lux / Hi-Ace – 2.5D, 2.5D4D
  - VW: Transporter / LT – 1.9D, 2.4D, 2.5SDi, 2.5TDi, 2.8D

Features:
- Selection of 10 x Dummy Glowplugs and 11 x Injector Profiles
- Dual Scale 80mm Pressure Gauge with built-in pressure relief valve
- Flexible rubber hose (355mm) for ease of access
- Suitable for both direct and indirect injection engines
- Full Vehicle Applications and Spare Parts information provided

Supplied in plastic case with foam insert

Spare Parts:
- 31400500 - Service Kit for compression gauge
- 01421500 - Seals and Washers for dummy injectors

Pressure Gauge & Hose Assembly - Diesel Compression

31420100

- 560mm Rubber Hose
- Gauge Scale: 0 - 60bar / 0 - 860psi
- Gauge Diameter: 83mm
- Gauge to DIN16005, DIN16063, BS1780 standards
- Supplied in cardboard carton

Flexible Glow Plug Hose Extension

31420300

- For inserting and removing dummy glow plugs in difficult to access areas

www.sykes-pickavant.com
## Diesel Engine Compression Test Kit - CV
**31430000**

- A starter kit of adaptors and clamping plates for checking compression on both direct and indirect Commercial Diesel Injected Engines
- Suitable for all types of heavy duty diesel engines - Industrial, Plant, Marine, Agricultural

**Specification:**
- Hose Assembly Length: 560mm
- Gauge Scale Range: 0 - 60 bar, 0 - 860 psi
- Gauge Diameter: 83mm
- Gauge to DIN16005, DIN16063, BS1780 standards

**Contents:** (Supplied in plastic case with foam insert)
- Diesel Compression Gauge
- End Adaptors x 3
- Spacers x 5
- Clamp Plates x 2
- Centre Pillar
- Elbow Connector

**Spare Parts:**
- 31400500 - Service Kit for compression gauge
- 01421500 - Seals and Washers for dummy injectors
- 314300-01 - Clamp Plate & Pillar Set

### Cylinder Leakage Tester - Petrol & Diesel
**31380000**

- An alternative to conventional compression testers, which provides a direct indication to the location of the leak by measuring the rate of loss of compression for individual cylinders
- Helps to diagnose worn and broken piston rings, burnt and leaking valves and faulty head gaskets
- Supplied with a wide variety of adaptors to fit the majority of petrol & diesel engines, on cars, LCV’s, motorcycles, marine engines etc. Can be used with additional adaptors from the Sykes-Pickavant compression testing range - petrol or diesel

**Specification:**
- Air Input Pressure: 5bar (min) - 8bar (max)
- Pressure Gauge: 70mm diameter

**Contents:**
- Glowplug Adaptors x 5
- Dummy Injectors x 4
- Spar Plug Port Extensions x 5
- Test Unit c/w airline connections
- Hose Assembly - 2mtrs
- Test Report Pad Template

**Spare Parts:**
- 31380170 - Test Unit
- 31380270 - Hose Assembly
- 31381100 - Male QC Adaptor
- 31380300 - Whistle Assembly
- 01422200 - Clamp Plate - Small

### Cylinder Leakage Tester
**31380500**

- As per kit above excluding adaptors
- Includes cylinder tester with hose
- Can be used in conjunction with current diesel compression adaptors as supplied in compression kits
- Supplied in plastic case with foam insert
- Spares as per above (31380000)
## Diesel Compression Kit Contents Comparison Table - Reference by Part Number

<table>
<thead>
<tr>
<th>Ref</th>
<th>Length mm</th>
<th>Thread</th>
<th>Make</th>
<th>Engine</th>
<th>Kit Contents</th>
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### Dummy Glow Plugs

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<th>Make</th>
<th>Engine</th>
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<td>73</td>
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<td>118</td>
<td>M22 x 1.5</td>
<td>PSA / Rover</td>
<td>1.5</td>
</tr>
<tr>
<td>31423070</td>
<td>112</td>
<td>N/A</td>
<td>Stanadyne / Transit</td>
<td>2.5D</td>
</tr>
<tr>
<td>31423870</td>
<td>174</td>
<td>N/A</td>
<td>VW / Audi</td>
<td>1.9TDi</td>
</tr>
</tbody>
</table>

### Dummy Injectors

<table>
<thead>
<tr>
<th>Ref</th>
<th>Length mm</th>
<th>Thread</th>
<th>Make</th>
<th>Engine</th>
</tr>
</thead>
<tbody>
<tr>
<td>31428870</td>
<td>154</td>
<td>M22 x 1.5</td>
<td>Ford TDCi</td>
<td>2.0 / 2.2 / 2.4</td>
</tr>
<tr>
<td>31428670</td>
<td>162</td>
<td>M10 x 1.25</td>
<td>Nissan</td>
<td>2.0D</td>
</tr>
<tr>
<td>31428770</td>
<td>145</td>
<td>M10 x 1.25</td>
<td>Toyota</td>
<td>2.0TD</td>
</tr>
</tbody>
</table>

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Email: sales@sykes-pickavant.com
Tel: 01543 679900
Catalyst Back Pressure / Vacuum Tester
31440000

- Measures the back pressure (or vacuum) via the Lambda Sensor socket, to indicate blocked or damaged catalytic converters
- A blockage usually indicates a blocked or broken catalytic converter
- Calibrated gauge scale indicates progressive pass / fail for tests at idle speed and for tests under load - coloured indication

**Specification:**
- Gauge Scale: -1 to +2 bar
- 2m heat resistant pipe for dynamic testing
- Suitable for M12 x 1.25 and M18 x 1.5 Lambda (Oxygen) Sensor sockets
- Fits most European, Asian, Japanese vehicles
- Gauge to DIN16005, DIN16063, BS1780 standards

**Contents:** (Supplied in plastic case with foam insert)
- Pressure Gauge and Hose Assembly x 1
- Lambda Sensor Socket Connectors x 2 (M12, M18)
- Thread Cleaners x 2 (M12 x 1.25, M18 x 1.5)
- Special Adaptor for Toyota Vehicles x 1
- Service Kit of Seals and Washers x 1

**Spare Parts:**
- 01410570 - Lambda Sensor Thread Restorer
- 31440270 - Lambda Sensor Socket Connector - M12
- 31440470 - Special Adaptor for Toyota Vehicles
- 31440100 - Pressure Gauge & Hose Assembly
- 01410670 - M12 x 1.25 Lambda Thread Chaser
- 31440370 - Lambda Sensor Socket Connector - M18
- 31441500 - Service Kit of Seals & Washers

Oil Pressure Test Kit
31470000

- Helps to diagnose worn oil pumps and engines, faulty oil pressure switches and pressure warning indicators
- Shock protected dual scale gauge, for quick and accurate oil pressure checks
- Permanently oil primed, long flexible hose, enables access to difficult to reach oil switch ports
- Small profile, quick coupling adaptors with built-in shut-off valve for fast secure connection
- Includes oil pressure test gauge c/w 1m oil primed hose and 10 x oil switch port adaptors
- Supplied in plastic case with foam insert

**Specification:**
- 1m flexible oil primed hose
- Gauge Scale 0 - 10 bar, 0 - 150 psi
- Gauge Diameter: 80mm
- Gauge to DIN16005, DIN16063, BS1780 standards

**Spare Parts:**
- 31471170 - R1/8 DIN 2999 Adaptor
- 31471270 - 1/8 x 27 NPT Adaptor
- 31471370 - 1/4 x 18 NPT Adaptor
- 31471470 - 3/8 x 20 UNF Adaptor
- 31471570 - 1/2 x 20 UNF Adaptor
- 31471670 - M10 x 1.0 Adaptor
- 31471770 - M12 x 1.5 Adaptor
- 31471870 - M14 x 1.5 Adaptor
- 31471970 - M16 x 1.5 Adaptor
- 31472170 - M18 x 1.5 Adaptor
- 31473070 - 90° Elbow x 1
- 31470170 - Gauge Assembly

Flexible Oil Primed Hose & Test Gauge
31470200

- 2m Oil Primed Hose & Test Gauge
- Supplied in cardboard carton
Combined Fuel Injection Pressure Test Kit for Multi-Point & Single-Point Systems (Petrol)
314860V2

- Covers a wide range of both mechanical and electronic multi-point and single point fuel injection systems, to assist in the diagnosis of common fuel injection problems
- Shock protected and fuel resistant dual scale gauge
- Relief valve for safe release of pressure
- Fits the self-test point on modern Ford & GM vehicles
- Quick coupling adaptors and hose connections, with built-in shut-off valves for fast and secure connections
- Convenient hook for suspending the gauge assembly under bonnet
- Supplied in plastic case with foam insert

Applications include:
- Check faulty regulators and fuel pumps
- Diagnose blocked filters and fuel feed lines
- Identify leaking injectors
- Determine blocked or faulty non-return valves
- Measure mechanical injection main system pressure
- Measure fuel pump delivery pressure
- Check residual pressure
- Measure regulated system pressure
- Measure mechanical injection control pressure

Spare Parts:
- 31487100 - Multi-Point Fuel Pressure Test Gauge Assembly (10bar / 145psi)
- 31487200 - Single Point Fuel Pressure Test Gauge Assembly (2bar / 30psi)
- 31487370 - T-Connector & Tap Assembly
- 31488000 - Specialist Adaptor - Ford EECIV Flexible Adaptor
- 31488500 - Specialist Adaptors (x2) - Universal M8 Quick-Connect
- 31489000 - Specialist Adaptors (x2) - Renault Plastic T-Connectors (10 / 12mm)
- 314802V2 - M8 Connector Set
- 314803V2 - M10 Connector Set
- 314805V2 - M14 Connector Set
- 10006670 - 1/4” Hose Coupler Set
- 10006770 - 5/16” Hose Coupler Set
- 10006870 - 3/8” Hose Coupler Set
- 31487070 - GM Adaptor
- 31488070 - Ford Adaptor
- 10006570 - Honda M12 x 1.25 Adaptor
- 31486470 - Land Rover M6 Adaptor

Individual Adaptors
Includes in standard MPI kits but also available separately as an add-on for older kits.
- 31488000 - Specialist Adaptor - Ford EECIV Flexible Adaptor - Petrol Apps
- 31488500 - Specialist Adaptors (x2) - Fiat / GM Quick-Connect - Petrol & Diesel Apps
- 31489000 - Specialist Adaptors (x2) - Renault Plastic T-Connectors (10 / 12mm) - Petrol Apps
### Fuel Injection Pressure Test Kit for Petrol Engine Vehicles
**314875V2**

- Universal Injection Pressure Test Kit for modern Electronic, Multi-point injection systems
- Shock protected, fuel resistant dual scale gauge – to 10bar / 145psi
- Relief valve for safe depressurisation
- Quick coupling adaptors and connectors
- Wide applications range:
  - S type, 8mm plastic push-in fittings, as used on Alfa, Audi, Citroën, Fiat, Ford, GM, Peugeot, VW etc
  - Schrader type valve test port adaptors (7/16 & 8mm) as used on Alfa, BMW, Chrysler, Ferrari, Fiat, Ford, GM, Mercedes, Mini, Volvo etc
  - Specialist Renault fittings for use on Renault 1.2 / 1.4 / 1.6 Petrol Engines - Clio, Twingo, Kangoo, Extra, Megane, Scenic etc
- Supplied in plastic case with foam insert

**Optional fittings available to suit older vehicles**

<table>
<thead>
<tr>
<th>Spare Parts:</th>
</tr>
</thead>
<tbody>
<tr>
<td>31487100 - Multi-Point Fuel Pressure Test Gauge Assembly (10bar / 145psi)</td>
</tr>
<tr>
<td>31481500 - Petrol Injection Hose Connector Set</td>
</tr>
<tr>
<td>31488500 - Quick Connector Set</td>
</tr>
<tr>
<td>31487370 - T-Connector &amp; Tap Assembly</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Optional fittings available to suit older vehicles</th>
</tr>
</thead>
<tbody>
<tr>
<td>31486370 - Double-ended QR Hose Assembly</td>
</tr>
<tr>
<td>31481870 - 7/16 Schrader valve connector</td>
</tr>
<tr>
<td>31481970 - 8mm Schrader valve connector</td>
</tr>
<tr>
<td>31485770 - M8 right angled Schrader valve connector</td>
</tr>
</tbody>
</table>

### Combined Petrol & Diesel Fuel Injection Test Kit
**31468000**

- A Universal Fuel Injection Pressure Test Kit for modern Electronic Multi-Point Injection systems – both Petrol & Diesel in one kit
- Shock protected, fuel resistant dual scale gauge to 10 bar / 145psi
- Relief valve for safe depressurisation
- Fuel tap and T-connector assembly
- Quick-coupling adaptors and connectors
- Vacuum gauge c/w hose and fittings
- Supplied in plastic case with foam insert

*This kit combines the applications from both 314875V2 - Multi-Point Petrol engine kit and 31461000 - CRD Low Pressure Test Gauge Kit.*

**Optional fittings available to suit older vehicles**

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<tr>
<th>Spare Parts:</th>
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</thead>
<tbody>
<tr>
<td>31487100 - Multi-Point Fuel Pressure Test Gauge Assembly (10bar / 145psi)</td>
</tr>
<tr>
<td>31461500 - Diesel Injection Hose Connector Set</td>
</tr>
<tr>
<td>31481500 - Petrol Injection Hose Connector Set</td>
</tr>
<tr>
<td>31488500 - Quick Connector Set</td>
</tr>
<tr>
<td>31487370 - T-Connector &amp; Tap Assembly</td>
</tr>
</tbody>
</table>
Fuel Injection Pressure Test Kit for Schrader Test Ports
31489500

• Fuel Pressure test kit containing three Schrader Test Port adaptors and flexible hose for ease of access
• Schrader test ports are the preferred method of measuring fuel pressure on vehicles with fuel rails
• Quicker and easier than breaking into fuel lines
• Supplied in cardboard carton

• Applications:
  - 8mm Schrader valve connector - as fitted on some BMW, Ford, Mini, PSA, VW Group & Volvo models
  - 7/16 Schrader valve connector - as fitted on some Chrysler, Mercedes, Vauxhall and Opel models
  - M8 Quick release Schrader valve connector - as fitted to Alfa Romeo, Fiat and new Ford Ka

Spare Parts:
- 31487100 - Multi-Point Fuel Pressure Test Gauge Assembly (10bar / 145psi)
- 31486370 - Double-ended QR Hose Assembly
- 31481870 - 7/16 Schrader valve connector
- 31481970 - 8mm Schrader valve connector
- 31485770 - M8 right angled Schrader valve connector

Fuel Injection Schrader Valve Connector Kit
31485000

• Set of three Schrader valve connectors - can be used with any SP Fuel Injection Pressure Test Kit
• Schrader test ports are the preferred method of measuring fuel pressure on vehicles with fuel rails
• Quicker and easier than breaking into fuel lines
• Applications - As per 31489500 Test Kit - above
• Supplied in vinyl wallet

Fuel Injection Schrader Valve Connector Kit for Fiat Group - 31486500

• A new Schrader valve connector for the latest type of fuel rail - can be used with any SP Fuel Injection Pressure Test Kit
• Schrader test ports are the preferred method of measuring fuel pressure on vehicles with fuel rails
• Quicker and easier than breaking into fuel lines
• Applications:
  - M8 Quick release Schrader valve connector - as fitted to Alfa Romeo, Fiat and new Ford Ka
• Supplied in vinyl wallet

VW Group Fuel Pump Pressure Test Kit for PD (Diesel) & FSi (Petrol) Engines
314925V2

• A specially designed Fuel Pressure Tester for the PD & FSi ranges of engines as used by VW Group
• 20bar Pressure Gauge – as both PD and FSi fuel pumps operate at higher pressures than normal fuel pumps
• Extra long hose assembly for ease of access – 600mm
• Includes special PD fuel pump quick connector (Diesel) and 2 x special FSi fuel pump connectors for 1.6, 1.8, 2.0 FSi engines with Bosch fuel pumps

Spare Parts:
- 31490170 - 20bar Pressure Gauge c/w 600mm hose assembly
- 31481470 - M12 male adaptor for PD fuel pump
- 31481870 - FSi adaptor (female)
- 31481870 - FSi adaptor (male)
- 31484670 - M12 x 1.5 Banjo Bolt Assembly

VW Group Fuel Pump Pressure Test Set (PD)
31492000

• A specially designed Fuel Pressure Tester for the PD range of engines as used by VW Group
• 20bar Pressure Gauge – as PD fuel pumps operate at a higher pressure than normal fuel pumps
• Extra long hose assembly for ease of access – 600mm
• Includes special PD fuel pump quick connector

Spare Parts:
- 31490170 - 20bar Pressure Gauge c/w 600mm hose assembly
- 31481470 - M12 male adaptor for PD fuel pump

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### Common Rail Diesel (CRD) Low Pressure Test Gauge Kit

**31461000**

- Measures low pressure feed from the fuel pump to the high pressure pump
- Also measures fuel return pressure where necessary
- Helps to diagnose:
  - Poor / Non- starting
  - Loss of engine power
  - Blocked filters
  - Blocked fuel pipes

**Contents:** (Supplied in plastic case with foam insert)
- 10 bar / 145psi Low Pressure Gauge assembly c/w relief valve and leak-off pipe
- 8mm & 10mm male and female connecting hoses (x6)
- Universal connectors
- Fuel Tap & T-Connector assembly with tap

**Spare Parts:**
- 31487100 - Multi-Point Fuel Pressure Test Gauge Assembly (10bar/145psi)
- 31461500 - Diesel Injection Hose Connector Set

---

### Common Rail Diesel (CRD) Fuel Return Flow Kit

**31462000**

- Designed for use on the injector return side of a CRD system
- Helps to diagnose:
  - Poor or no engine starting
  - Poor engine running
  - Poor acceleration
  - General lack of engine power
- Compact acrylic block design provides easy to read cylinder comparison (much easier to compare than with plastic bottles, due to compact design and graduation scale)
- Fuel resistant, highly flexible rubber hoses
- Suitable for solenoid injectors only

**Contents:** (Supplied in plastic case)
- Graduated acrylic measuring block for up to 6 cylinders
- Injector adaptor sets for: Bosch / Delphi / Denso / Siemens
- Set of reduction pipes for small diameter flow back ports
- Under bonnet hanging hook

**Spare Parts:**
- 31462170 - Bosch Replacement Adaptor Set (x6)
- 31462270 - Siemens Replacement Adaptor Set (x6)
- 31462370 - Denso Replacement Adaptor Set (x6)
- 31462470 - Delphi Replacement Adaptor Set (x6)
- 31482500 - Replacement Rubber Hose Set (x6)
- 31462600 - Pipe Adaptor Set

---

### Common Rail Diesel (CRD) Low Pressure Combined Kit

**31460000**

- A complete kit for low pressure testing on common rail diesel systems
- Consists of:
  - 31461000 - CRD Low Pressure Test Gauge Kit (above)
  - 31462000 - CRD Fuel Return Flow Kit (above)
**Common Rail Diesel (CRD) High Pressure Test Kit**

**31465000**

- Measures delivery pressure output from the CRD High Pressure pump (max 1700 bar) under engine cranking conditions
- High pressure test gauge allows direct connection to the high pressure pump providing cranking pressure measurement of the pump
- Electronic Sensor Tester tests the high pressure sensor signal at the sensor allowing comparison to code reader component data
- Measures common rail pressure via the vehicles electronic pressure sensor with engine running
- M12 x 1.5 / M14 x 1.5 connections
- Includes a selection of pipes and adaptors covering many applications
- Supplied in plastic case with foam insert

**Spare Parts:**
- OTC3674 - Electronic Sensor Tester
- 31465070 - High Pressure Manifold
- 31465870 - High Pressure Gauge to 1700 bar (25,000psi)

**Common Rail Diesel (CRD) High Pressure Test Set**

**31466000**

- As per 31465000 kit above excluding Electronic Sensor Tester - OTC3674
- **Contents:**
  - High Pressure Gauge to 1700 bar (25,000psi)
  - High Pressure Manifold
  - High Pressure System Connectors (x5)
- Supplied in plastic case with foam insert

**Digital Diesel Fuel Pressure Meter**

**OTC3674**

- Uses voltage to measure the high pressure from the common rail pressure sensor
- Converts signal to psi and bar
- Pressure Range: 0 - 1500 bar
- Works on 12v supply
- Ideal for making comparative pressure tests against ECU readings & actual rail pressure

N.B. Included in CRD High Pressure Test Kit - 31465000 above

**Diesel Injector Tester & Aspirator (DITA)**

**31450000**

- A mechanical pressure tester and aspirator for checking the correct operation of diesel injectors
- Tests nozzle opening pressure, injector spray pattern and correct needle seating
- Assists in the diagnosis of injector chatter and back leakage
- Suitable for testing all mechanical injectors with 12mm and 14mm screw fittings
- Bench mounted

**Safety Features:**
- Mechanically damped gauge - prevents over-pressurisation
- Built-in aspirator removes test fluid spray away from the operator
- Visual inspection of the injector spray pattern against the mirrored disc
- Safety viewing screen
- Universal clamp for holding injectors securely whilst carrying out test procedures
- Reservoir level indicator (Test fluid can be re-used)
- Complete with 12mm and 14mm quick-fit injector adaptors

**Available Tests:**
- Nozzle opening pressure
- Injector condition and chatter
- Injector spray pattern
- Injector back leakage & needle seating

**Technical Specifications:**
- Gauge Diameter: 107mm
- Gauge Scale: 600 bar / 8700psi
- Max Injector Diameter: 70mm
- Handle Length: 380mm
- Supplied with 12mm & 14mm quick-fit injector adaptors
- Dimensions: H: 330mm  W: 450mm  D: 410mm

**Spare Parts:**
- 31450500 - Injector Pipe Assembly

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### Mityvac Silverline Elite Automotive Kit
**MV8550**

- Ideal for a wide variety of workshop tasks requiring vacuum and / or pressure featuring a dual convertor to switch from vacuum to pressure
- Ideal for a wide variety of diagnostic tests which require a pressure source - e.g. EVAP sensors, Cooling system leak tests etc
- Ideal for a wide variety of workshop tasks requiring vacuum and / or pressure - e.g. Diagnostics, brake bleeding, fluid transfer, evacuation, sampling etc

**Contents:**
- Silverline Die-Cast Aluminium Vacuum & Pressure Pump to 4bar (60psi) pressure
- Large 480ml Fluid Reservoir with quick connection to pump
- Selection of 12 vacuum caps
- Diagnostic / Brake Bleeding Adaptor kit - Tubing and Tube Connectors

**Spare Parts:**
- MV8550-01 - Vacuum/Pressure Manometer
- MV8550-02 - 2 x Tubes (600mm)
- MV8550-03 - Reservoir Kit
- MV8550-04 - Tube Connectors
- MV8550-05 - Vacuum Caps
- MV8550-06 - Brake Bleeding Adaptors
- MV8550-07 - Test Adaptors Kit
- MV8550-08 - Repair Kit
- MV8550-09 - Vacuum/Pressure Pump
- MV8550-10 - Fluid Reservoir Kit
- MV8550-11 - Filter Priming Adaptors Kit

Scan the QR code to watch a video of the Mityvac Elite Automotive Kit

### Mityvac Fuel System Tester Kit
**MV5545E**

- Diagnose and pinpoint common fuel system failures including failing fuel pump, faulty pressure regulator, blocked filter(s), pinched fuel line and contaminated fuel
- Measures fuel system pressure and flow to accurately pinpoint fuel system failures
- Capable of testing both return and returnless fuel systems including electronic control
- Provides clear visualisation of fuel to detect impurities and air bubbles

**Contents:**
- 90mm high pressure gauge with rubber boot, push-button relief valve and hanging hook
- 1.2m pressure test hose
- Inline pressure test hose with ¼ turn valve
- 37 adaptors (Available individually on request)
- Pressure relief hose - User Manual

**Spare Parts:**
- MV5545-01 - High Pressure Gauge (0-8 bar)
- MV5545-02 - Connection Hose (9.5mm ID x 1.2m)
- MV5545-03 - Quick Replacement Clips (x6)
- MV5545-04 - Hose Plug (x2)

Adaptors available individually on request

Scan the QR code to watch a video of the Mityvac Fuel System Test Kit

### Mityvac Fuel Injection Cleaner System
**MV5567**

- Quickly and cleanly removes and prevents deposits on fuel injectors as well as loosening and dissolving carbon build-up in the air induction system, including the throttle plate, intake manifold and valves
- Enhances engine performance, improves fuel economy, reduces maintenance and improves emissions
- Adjustable inlet pressure regulator for use on low and high pressure fuel systems
- Pressure gauge (0-150 PSi) (0-10 bar)

**Contents:**
- Fuel Injection Cleaner Assembly with pressure regulator, gauge, valves, fittings and 950ml canister
- 1.2m long connection hose - 16 fuel injection system connectors
- Wall Mount Bracket - User Manual

**Spare Parts:**
- MV5567-01 - Canister
- MV5567-02 - Pick-up Tube & Filter Assy
- MV5567-03 - Hook & Chain Assy
- MV5567-04 - Air Inlet & Valve Assy
- MV5567-05 - Pressure Regulator
- MV5567-06 - Replacement Gasket
- MV5567-07 - Relief Valve
- MV5567-08 - Pressure Gauge
- MV5567-09 - Outlet Valve Assy
- MV5567-10 - Wall Mount Bracket
- MV5567-11 - Connection Hose

Adaptors available individually on request

Scan the QR code to watch a video of the Mityvac Elite Automotive Kit

Scan the QR code to watch a video of the Mityvac Fuel System Test Kit

Scan the QR code to watch a video of the Mityvac Fuel Injection Cleaner System