

INSTRUCTIONS FOR:
**FUEL INJECTION PRESSURE TEST SET -
TEST PORT**

MODEL No: **VSE211.V3**

Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- ❑ **WARNING! DO NOT** use this kit or the components from this kit on diesel fuel systems or high pressure petrol injection systems (in excess of 145psi). Ensure you have read and understood the safety aspects of dealing with the fuel injection system and petrol in general before commencing.

IMPORTANT: Always refer to the vehicle manufacturer's service instructions, or proprietary manual to establish the current procedure and data. These instructions are provided as a guide only.

- ❑ **WARNING! Ensure all Health and Safety, local authority, and general workshop practice regulations are strictly adhered to when using product.**
- ✓ Maintain tools in good and clean condition for best and safest performance. **DO NOT** use test kit if damaged.
- ✓ Account for all tools and parts being used and do not leave them in, or on the engine after use.
- ✓ Ensure you have read and understood the safety aspects of dealing with the fuel injection system and petrol in general before commencing.



Fuel Hazards:

- ❑ **WARNING!** Petrol fumes and battery gases are explosive.
- ✗ **DO NOT** smoke or allow an open flame or sparks in the work area.
- ✓ Keep a dry chemical (class B) fire extinguisher near to the working area.
- ✓ Avoid fire hazard by using caution when disconnecting fuel lines and installing adaptors - some spillage is inevitable.
- ✓ When connecting to or disconnecting from a fuel system, relieve pressure from system and wrap a cloth around the fuel line fitting to absorb any fuel leakage. Wipe up fuel spills immediately.

Fuel Leaks

- ✓ Constantly check gauge and adaptor connections for leakage. If you see leakage turn off the ignition or disable the fuel pump, relieve fuel pressure if necessary and correct leaks before continuing.
- ✗ **DO NOT** let fuel drip or spill onto a hot engine.
- ✓ Wipe up fuel spills immediately.
- ✓ When using tee adaptors, secure hose with hose clamps to ensure leak-free connections.
- ✓ Check all adaptor sealing washers and 'O' rings are in good condition before use.
- ✗ **DO NOT** allow fuel to remain in the adaptors or hoses after use.

Personal / Operation

- ✓ Wear approved eye protection. A full range of personal safety equipment is available from your Sealey dealer.
- ✓ Keep yourself, clothing and test equipment away from all moving or hot engine parts.
- ✓ Do not wear jewellery and tie back long hair.
- ✓ Before performing a test with the engine running (unless the manufacturer's manual states otherwise), set the parking brake and place the gear selector in neutral or park, and block the drive wheels.
- ✓ Exhaust gas contains deadly poisonous gases. The test area must be well ventilated - route the exhaust gas outdoors.
- ✓ Before repairing the fuel system, turn off the ignition switch and disconnect the battery per manufacturer's procedure.
- ✓ Never disconnect the battery whilst the engine is running.

2. INTRODUCTION

Comprehensive kit of adaptors and fittings for modern Schrader test port fuel injection systems. Components fitted with quick coupling system and safety valve to prevent inadvertent discharge of fuel under pressure. Kit supplied with large high pressure gauge reading 0-145psi and 0-1000kPa. Gauge has hanging hook and protective bumper. Pressure release valve fitted with long drain hose allows safe recovery of fuel.

Supplied in carry-case.



3. OPERATION

3.1 RELIEVING FUEL SYSTEM PRESSURE.

NOTE! The following instructions are intended as a guide only. Always adhere to manufacturer's procedures for relieving system pressure.

- 3.1.1 Before disconnecting the fuel lines to connect adaptors and pressure gauge to fuel system, the fuel system pressure must be relieved, this will prevent fuel spraying when a joint is disconnected.
- 3.1.2 Switch off ignition, loosen the fuel tank cap to relieve tank pressure, then re-tighten.
- 3.1.3 To relieve fuel pressure, it is necessary to prevent the fuel pump operating, whilst still allowing both injection and ignition systems to operate.
- 3.1.4 The procedure may simply require the fuel pump relay, fuse or electrical supply to be disconnected; **some models have two fuel pumps - make sure both are disabled.**
- 3.1.5 Once pump(s) is/are disabled, run the engine until it stalls, and then crank over 5 to 10 times after it has stalled.

On some electronic fuel injection systems, removing the fuel pump fuse disables both the fuel pump and the injectors. In this case refer to manufacturer's procedure.

- ☐ **WARNING! DO NOT** assume that pressure in the fuel system has been relieved. When disconnecting, wrap a cloth around the fuel line fitting to absorb any fuel leakage.

3.2 CONNECTION AND USAGE.

- 3.2.1 With the engine off and the fuel system pressure relieved, install the correct adaptor into the fuel system at the point to be tested and connect to the quick coupler on the gauge hose ensuring the locking collar is in position.

NOTE! Use a cloth around the fittings to absorb any fuel.

- 3.2.2 Re-connect the fuel pump(s).
- 3.2.3 Start engine and allow to idle.
- 3.2.4 Read the fuel pressure on the gauge and compare to the manufacturer's specification.
- 3.2.5 Turn off the engine.
- 3.2.6 Place the end of the clear tube in a suitable container and push the relief button to depressurise the system.
- 3.2.7 Remove the tester and adaptors from the fuel line.
- 3.2.8 Restore fuel line to original condition, restart the engine and check the system for leaks.

GM Schrader Hose



Ford Schrader Hose



Fuel Bolt With Seal



Single Ended, Re-Useable Hose End



Double Ended, Re-Useable Hose End

Parts support is available for this product. To obtain a parts listing and/or diagram, please log on to www.sealey.co.uk, email sales@sealey.co.uk or phone 01284 757500.

NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. **IMPORTANT:** No liability is accepted for incorrect use of this product.

WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.

INFORMATION: For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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