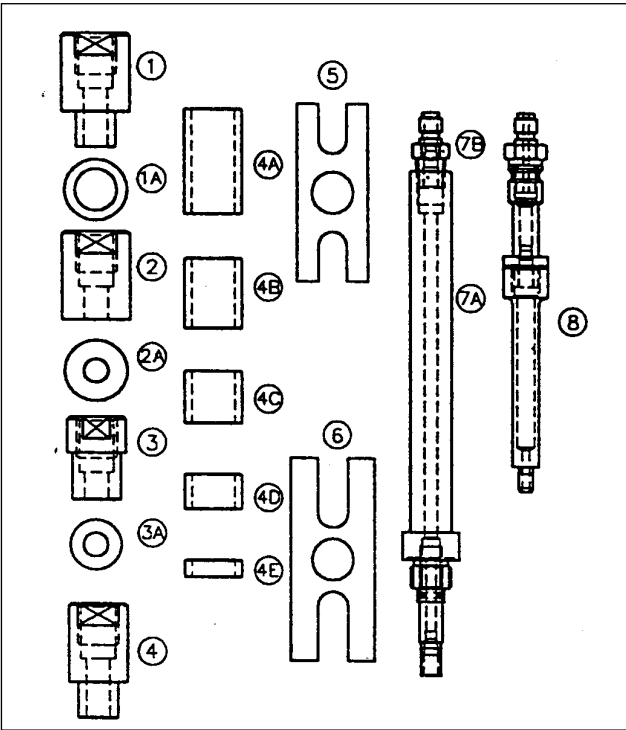


VS2041
DIESEL ENGINE COMPRESSION
TESTER ADAPTOR KIT



PARTS LIST

1	VS2041/1	ADAPTOR
1A	VS2041/1A	SEALING WASHER
2	VS2041/2	ADAPTOR
2A	VS2041/2A	SEALING WASHER
3	VS2041/3	ADAPTOR
3A	VS2041/3A	SEALING WASHER
4	VS2041/4	ADAPTOR
4A	VS2041/4A	SPACER
4B	VS2041/4B	SPACER
4C	VS2041/4C	SPACER
4D	VS2041/4D	SPACER
4E	VS2041/4E	SPACER
5	VS2041/5	BRIDGE
6	VS2041/6	BRIDGE
7A	VS2041/7A	PILLAR
7B	VS2041/7B	QUICK RELEASE ADAPTOR
8	VS2041/8	DUMMY INJECTOR

1. INTRODUCTION

The VS2041 Adaptor Kit is designed for use with Diesel Engine Compression Tester VS204 and other testers with similar quick fit connectors. This adaptor kit extends the range of applications to cover most popular commercial vehicles, fitted with flange mounted or claw held injectors. This adaptor kit has been designed to allow reproduction of the injector being removed by selection of the appropriate pieces to simulate the configuration and profile of the original injector. Special adaptors to test engines with screw-in injectors and glow plugs are included within VS204 Diesel Compression Tester Kit. A wide range of optical adaptors for both clamp type and screw-in injectors/glow plugs is also available. The information and instructions provided are for guidance only, always refer to the engine manufacturer's workshop manual for precise information and cylinder pressure data.

2. APPLICATION

Diesel engines used in commercial vehicles and agricultural, industrial and marine applications.

3. SAFETY INSTRUCTIONS

- WARNING! Ensure all health and safety, local authority, and general workshop practice regulations are strictly adhered to when using product.**
- ✓ Ensure you read, understand and apply any safety instructions which accompany the compression tester.
- ✓ Always maintain tools in good and clean condition for best and safest performance. Check hose assembly for cuts or burn marks. DO NOT use if damaged.
- ✓ Wear approved eye protection. A full range of personal safety equipment is available from your Sealey dealer.
- ✓ Wear suitable clothing to avoid snagging. Do not wear jewellery and tie back long hair.
- ✓ Use proper ventilation and avoid breathing in exhaust fumes.
- ✓ Keep a fire extinguisher to hand.
- ✓ Engine fuel delivery must be prevented by either operating engine stop lever or disconnecting fuel pump solenoid.
- ✓ Protect your hands from burns as quick release coupling and adaptors may become hot during use.
- ✓ Account for all tools and parts being used and do not leave them in or near the engine.
- x DO NOT remove the compression test equipment while engine is being cranked.

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

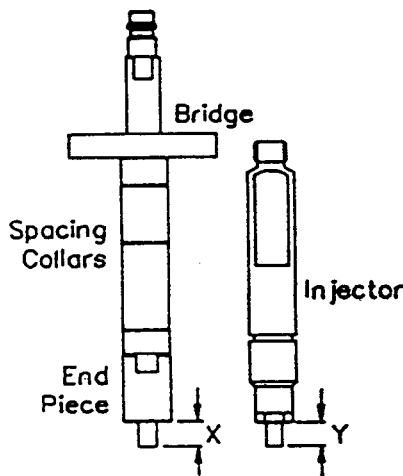
4. INSTRUCTIONS FOR USE

- ❑ **WARNING!** Ensure you read, understand and follow the safety instructions for this product. Engine fuel delivery must be prevented by either operating engine stop lever or disconnecting fuel pump solenoid.

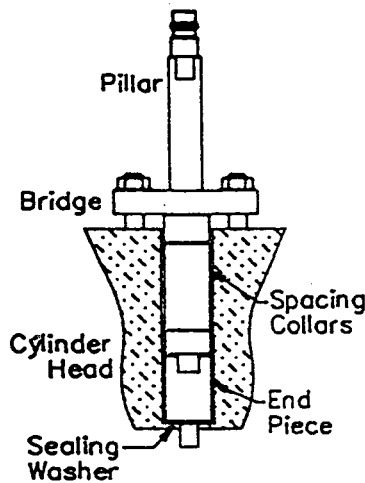
NOTE: Compression tests on diesel engines should be conducted when the engine is cold.

- 4.1. Remove the injector from the cylinder to be tested.
- 4.2. Fit a transparent pipe onto the disconnected end of the fuel line and re-direct fuel discharged into a suitable container during testing.
- 4.3. Ensure the injector port is clean. If necessary crank the engine a few revolutions to remove any loose carbon particles from the port. Select the appropriate pieces required from the adaptor kit to reproduce the profile and length of the type of injector removed. Make sure the o-ring is fitted between the piece and pillar. Build up the length of the pillar with the appropriate spacers and then fit the correct length of clamp plate. For claw held injectors use engine manufacturer's original equipment injector clamp. Use one of the sealing washers provided to seal the end adaptor in the injector port.

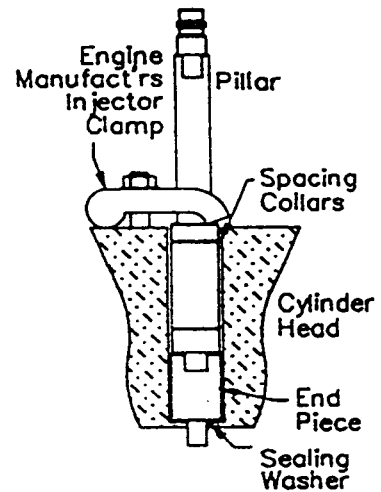
NOTE: If the injector configuration can not be reproduced, contact us to obtain details of further adaptors.



End adaptor screw to the dummy pillar with spacing collars resembling the removed injector. Depth "X" not to exceed depth "Y".



Dummy injector simulating a flange mounted injector.



Claw held injectors use with actual injector clamp.

- 4.4. Fit the dummy injector into the injector port and fasten the flange nuts over the clamp plate using the original studs. NO NOT over tighten. Fit gauge/hose assembly onto the injector pillar using the quick-release coupling.
- 4.5. Always refer to the engine manufacturer's compression figures.
- 4.6. Crank the engine over. The gauge will indicate compression of the cylinder under test and will maintain this reading until pressure relief valve is depressed. Record the result. A repeat test can be carried out if required.
- 4.7. Disconnect the compression tester and repeat the test for each of the remaining cylinders in turn. A variation in compression readings between cylinders is often a better indication of an engine problem than the absolute values of compression. Refer to the engine manufacturer's workshop manual for compression data.

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 equipment. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** Call us for a copy of our latest catalogue on 01284 757525 and leave your full name and address including your postcode.



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