



TURBO SYSTEM LEAKAGE TESTER

MODEL NO: VS2030.V2

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 & 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.



Refer to instruction manual



Wear a face shield



Wear protective gloves

1. SAFETY

- WARNING!** Ensure Health & Safety, local authority and general workshop practice regulations are adhered to when using this equipment.
- ✓ Read instructions thoroughly to ensure safe and effective use.
- ✓ **IMPORTANT! Read instructions in conjunction with vehicle or equipment manufacturer's workshop manual.**
- ✓ Maintain the apparatus in good condition (use an authorised service agent). Before each use check condition of each component. If any component is damaged, replace immediately. Use genuine parts only. Unauthorised parts may not function correctly and will invalidate the warranty.
- ✓ Use in a suitable work area. Keep area free from unrelated materials and ensure that there is adequate lighting.
- WARNING!** Always wear approved eye, face and hand protection when pressure leakage testing.
- ✓ Keep children and unauthorised persons away from the working area.
- ✗ **DO NOT** operate the leakage tester when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ **DO NOT** clean the equipment with solvents or other harsh chemicals.
- ✗ **DO NOT** use the leakage tester for any purpose other than that for which it is designed.
- ✓ When not in use return parts to the case, and store it in a safe, dry, childproof location.

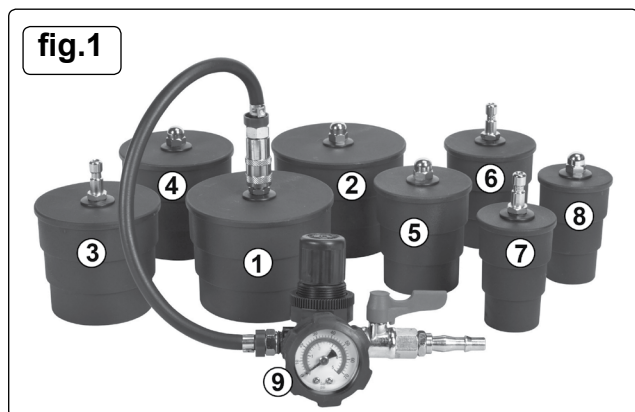
2. INTRODUCTION

Designed to charge the turbo system with a low pressure of regulated workshop mains air supply; to indicate the presence of leaks within the system. The kit includes a pressure gauge, a shut off ball valve, a pressure relief valve, a mains air male barbed quick coupler and four pairs of system stepped adaptors for use on a wide range of hose sizes. The kit can also be used on cooling system hoses. All items supplied in a storage case.

3. SPECIFICATION

Model no VS2030.V2
 Adaptor size 35-90mm
 Weight 2.52kg

4. CONTENTS

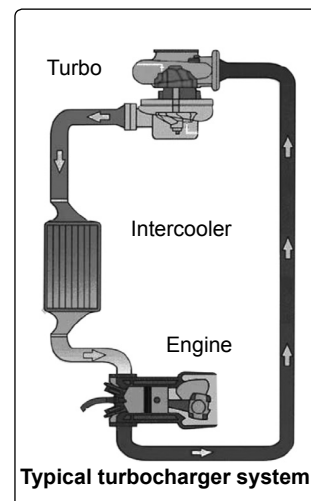
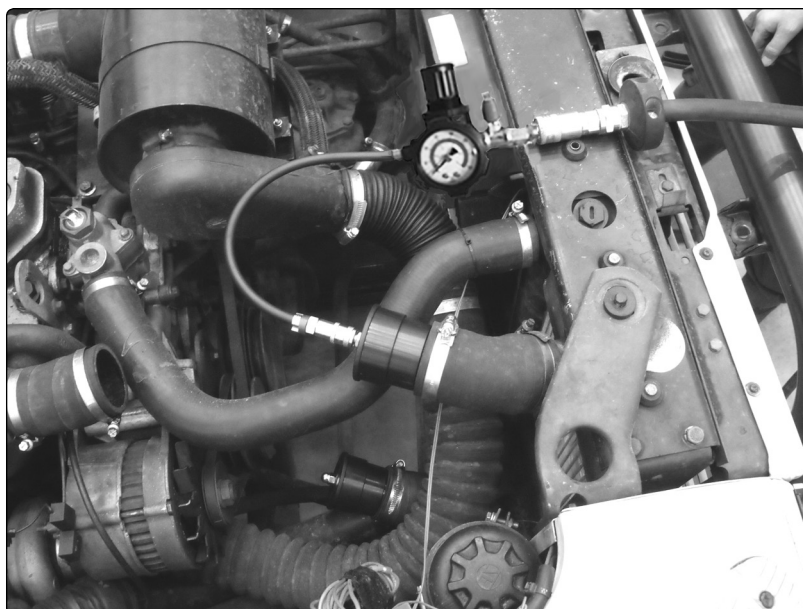
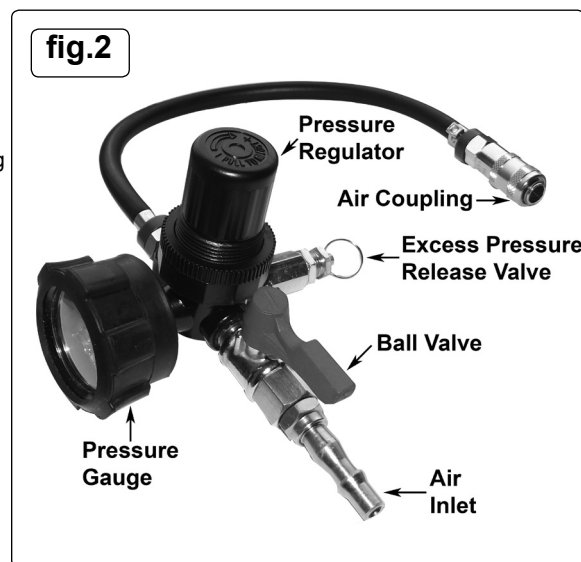


Item no.	Part no.	Diameter	Description
1	VS2030.01	80/85/90mm	Inlet adaptor c/w air coupling
2	VS2030.01A	80/85/90mm	Adaptor blank end
3	VS2030.02	65/70/75mm	Inlet adaptor c/w air coupling
4	VS2030.02A	65/70/75mm	Adaptor blank end
5	VS2030.03	50/55/60mm	Inlet adaptor c/w air coupling
6	VS2030.03A	50/55/60mm	Adaptor blank end
7	VS2030.04	35/40/55mm	Inlet adaptor c/w air coupling
8	VS2030.04A	35/40/45mm	Adaptor blank end
9	VS2030.05	N/A	Pressure gauge assembly

5. OPERATION

- 5.1. Follow the manufacturer's instructions for the removal, if required, of the device or hose to be tested. Use cloth or gloves and arm protection if the system is known to be hot.
- 5.2. Connect an air line with known air pressure to the regulator of the tester with the ball valve shut (operating lever at 90° to hose axis). **IMPORTANT! Regulate air pressure in tester to 25psi maximum.** Refer to manufacturer's manual relating to the maximum air pressure of the turbo or other system being tested. Over pressurisation may damage system components.

- 5.2.1. For example the maximum pressure in most vehicle turbo systems is approximately 15psi (1bar) up to 25psi (1.7bar). A vehicle coolant system is typically rated at 15psi.
- 5.2.2. A graduated approach to leakage testing is recommended.
- 5.3. **TEST METHOD 1, (REFER TO FIG.2):**
- 5.3.1. Select the correct air inlet adaptor and plug adaptor (fig.1) by first measuring the hose diameter. Each adaptor has three diameters to fit different sizes of hose.
- 5.3.2. Set regulator of tester to 5psi to check for large leaks with valve, open (operating handle inline with the hose axis), and with the air coupling disconnected.
- 5.3.3. Plug the outlet of the system with the appropriate blank end adaptor.
- 5.3.4. Connect the inlet adaptor, set at 5psi, to the system inlet.
- 5.3.5. Connect the air coupling to check for leaks at the pre-set (5psi). If a leak is identified audibly or if the pressure gauge pointer falls, it indicates that the system has a fault resulting in loss of pressure. Repair the leak and retest.
- 5.3.6. If no leaks are evident, regulate pressure to 10psi and repeat 5.3.5.
- 5.3.7. If no leaks are evident, regulate pressure to a maximum of 15psi or to the manufacturer's maximum pressure and retest as in 5.3.5.
- 5.3.8. If the gauge pointer remains stationary for one minute it will indicate that the system is in good working order.
- 5.3.9. Release the pressure in the system by rotating the ball valve lever to align with hose axis.
- 5.3.10. Disconnect the quick coupler, clean and return all items to carry case.
- 5.4. **TEST METHOD 2, (REFER TO FIG.2):**
- 5.4.1. Set up as in test method 1: 5.3.1. to 5.3.5.
- 5.4.2. When the system is pressurized, close the ball valve. By closing the ball valve the system is isolated from the constant air supply. The system can now be tested to ensure it is holding a constant pressure. By monitoring the pressure gauge over a period small leaks can be detected, showing as a fall in pressure within the system.



Example (left) shows the kit testing a turbo system intercooler for integrity.

6. MAINTENANCE

- 6.1. Always keep the plastic adaptors clean and free of oil and grease. Regularly clean with a solvent free cleaner. Ensure components are dry before storage.



ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.

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. Please note that other versions of this product are available. If you require documentation for alternative versions, please email or call our technical team on technical@sealey.co.uk or 01284 757505.

Important: No Liability is accepted for incorrect use of this product.

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

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