

1-³/₈"–3-¹/₂" Turbo Pressure Leakage Testers User Manual



Read Carefully Before Use
Keep for Future Reference

Safety Information

DANGER!

- Read these instructions carefully before use and only use this toolkit for its intended use, testing turbo pressure. Do not allow children or people unfamiliar with this product or these instructions to operate it. Keep children and bystanders away while using this product.
- **DO NOT** use this product while you are tired or under the influence of drugs, alcohol, or medication. **DO NOT** allow persons with impaired mental sobriety and physical capability to use this toolkit.
- **ALWAYS** ensure that the person using this tool is adequately trained and qualified for the task.
- Ensure all health and safety, local authority and general workshop practice regulations are adhered to when using these tools.
- **ALWAYS** wear safety equipment appropriate for your work. **ALWAYS** wear eye protection and heavy-duty work gloves. Other safety equipment may be necessary for your project.
- Dress properly. **DO NOT** wear loose clothing or jewelry while using this product. Keep your hair, clothing, and gloves away from any moving parts.
- Keep your work area clean and well lit. Cluttered or dark areas invite accidents.
- **DO NOT** use tools if seals or threads are damaged. This may incur false readings and personal injury.
- Maintain the tools in good, clean condition for optimum performance. Any defective seals **MUST** be replaced before use to avoid incorrect readings.
- **ALWAYS** park your vehicle on firm and level ground and turn off its engine before beginning work.
- **ALWAYS** ensure that your vehicle has been jacked up and is adequately supported with axle stands.
- Ensure fuel supply is isolated to prevent fire whilst engine is being tested.
- Ensure that the correct adapter is used for the engine/vehicle being tested.
- Always release the pressure from the gauge before disconnecting the quick release coupling.
- Account for all tools and parts being used and **DO NOT** leave them in or near the engine.
- Always refer to your vehicle's workshop manual, or a proprietary manual, to establish the correct procedure and data.
- **DO NOT** overreach. Keep proper footing and balance at all times.
- Maintain this product. Check for misalignment or binding of parts, breakage of parts, and any other condition that may affect this product's operation. If damage is detected, have this product repaired before further use.
- In case of an accident or injury, have a first aid kit and a communication device (e.g., a phone) readily available. Know the location of emergency medical facilities.
- **ALWAYS** wait till the engine and turbo have cooled to ambient temperature **BEFORE** fitting the adapters, which are plastic and may melt and get warped from engine and turbo heat.
- **ALWAYS** follow the protocols for using a workshop airline or other sources of compressed air.
- Automotive repair is an inherently dangerous activity. This manual and the separate vehicle service manual cannot cover all possible situations that may arise, and training, common sense, and care must be supplied by the operator.

Specifications

Pressure Gauge Assembly	Max. Pressure	86 psi	6 Bar
	Adapter	SAE	
Test Adapter OD	90, 85, & 80 mm	3-1/2, 3-3/8, & 3-1/8"	
	75, 70, & 65 mm	3, 2-3/4, & 2-1/2"	
	50, 55, & 60 mm	2-3/8, 2-1/8, & 1-31/32"	
	35, 40, & 45 mm	1-3/8, 1-9/16, & 1-3/4"	
Blanking Adapter OD	35, 40, & 45 mm	1-3/8, 1-9/16, & 1-3/4"	
	50, 55, & 60 mm	2-3/8, 2-1/8, & 1-31/32"	
	75, 70, & 65 mm	3, 2-3/4, & 2-1/2"	
	90, 85, & 80 mm	3-1/2, 3-3/8, & 3-1/8"	

Parts List

No.	Item	Qty.
A	Test Adapters	4
B	Blanking Adapters	4
C	Pressure Gauge Assembly	1
D	DIN Adapter	1
E	Protective Gloves (not shown)	1 Pair




Operation

1. Turn the engine off and wait till it has cooled to room temperature.
2. Locate a test point where it is easily accessible to attach the test adapter and the blanking adapter.

 It is recommended to pressurize the system to the flow of the charged air.

3. Measure the hose diameter to select the correct adapter. Fit the adapters onto the hoses to be checked. Reuse or apply new hose clamps and ensure the hose clamps are secure or torqued to your vehicle's specifications.

 Before connecting the gauge, ensure the regulator knob is fully closed to zero and the lever on the gauge is turned to its off position.

4. Connect the pressure gauge to the test adapter by holding back and releasing the sleeve on the gauge's quick coupler.
5. Connect the pressure gauge to your workshop airline or other compressed air outlet. Use the provided DIN adapter and another quick coupler as needed.
6. Slowly turn open the lever and turn the knob to set the desired pressure as stated in your vehicle's specifications. Press lock the knob when the desired pressure has been reached.
7. Carefully listen to air escaping throughout the turbo charging system. If no audible leaks are detected, apply soapy water to joints or connections. A leak will cause the soapy water to bubble.
8. If no bubble has been formed and the reading of the gauge remains stable for one minute, it indicates that the system is functioning properly. Pull unlock and turn the knob to its closed position. Remove the workshop air line from the gauge and disconnect the gauge from the test adapter. Remove test adapter and blanking adapter from your vehicle and stow everything away.

Maintenance

- Check for smooth movement and secure connections before each use. Never use this tool if any part is found to be loose, bound, worn, or damaged. Tighten, lubricate, repair, or replace all such components before further use. Only use identical parts for replacement.
- Clean the components of this toolkit after each use. Do not use caustic chemicals or harsh abrasives.
- If this kit will ever be unused for an extended period, clean all components, place them in their storage case, and store in a cool dry location inaccessible to children and away from direct sunlight.

Contact Us

Thank you for choosing our products! If you have any questions or comments, contact us at support@orionmotortech.com and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.



