

User's manual

Universal Cooling System Tester

61185



Illustration similar, may vary depending on model

Read and follow the operating instructions and safety information before using for the first time.

Technical changes reserved!

Illustrations, functional steps, and technical data may deviate insignificantly due to continuous further developments.

Updating the documentation

If you have suggestions for improvement or have found any irregularities, please contact us.



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Introduction

Thank you for choosing to purchase this quality product. To minimise the risk of injury, we ask you to always take some basic safety precautions when using this product. Please read this operating manual carefully and make sure that you understand it. Keep these operation instructions in a safe place.

Safety instructions

- This instruction manual does not replace your maintenance book, which contains further information requiring to be read first. Without this further car manufacturer's information, the cooling system cannot be re-filled successfully.
- Pay attention when opening the cooling system (e.g., the expansion tank). It is under pressure so that hot coolant can squirt out. Only open the system with the motor being cold. **Burning hazard!**
- Before removing a component, release pressure first.
- Top up the coolant to the required level after performing the pressure test/repair, then check it for non-freeze effect.
- When working on a running motor, do not wear loose clothes; these might be seized by one of the moving components. **Risk of injuries!**

Leak test

Cooling system

1. Remove the lid of the radiator/expansion tank.
2. Choose the adaptor that fits the type of your vehicle, then connect it with the radiator/expansion tank (Fig. 1).
3. Connect a manual pump to the adaptor (Fig. 1).
4. With the help of the pump, build up a pressure of 0.7–1 bar (10–15 psi) (Fig. 2).

ATTENTION: Do not allow the pressure to exceed 2.4 bar (35 psi). Observe the pressure display. If the value displayed lowers, a leakage is likely to be in the cooling system. Leakages become noticeable with the pressure falling and with water escaping from the leaking spot.

Radiator cap

1. Remove the radiator cap.
2. Choose a suitable adaptor that you connect to the radiator cap.
3. Choose a suitable cooler adaptor that you connect to the pump.
4. Apply the pump several times observing the pressure display to know if there might be a leakage (Fig. 3).
5. Compare the pressure value displayed with the pressure value of the radiator cap.

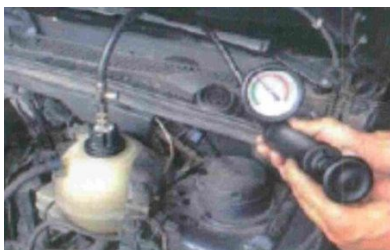


Figure 1



Figure 2



Figure 3

Filling the cooling system

1. Open the bonnet, then fix the vacuum pump to the bonnet with hooks.
2. Remove the lid of the radiator/expansion tank. Drain the coolant present to a suitable container. For further information, refer to the car manufacturer's maintenance book.
3. Attach an adaptor suitable for the type of your vehicle or the universal adaptor to the expansion tank (Fig. 4, 5).



Figure 4



Figure 5

4. Make sure that the valve 3 is set to the "ON" position and the valve 7 to the "OFF" position (Fig. 6).
5. Connect the vacuum pump to a compressed air source and set the on/off switch to on (Fig. 7). With the air pressure being 50–60 cmHg or 0.7–0.8 bar (20–25 inHg), set the valve 3 to the "OFF" position (Fig. 8).
6. Connect the coolant hose with the vacuum pump and place to end of the hose into a container filled with coolant.
7. Make sure that the valve 3 is set to the "OFF" position before beginning to fill in coolant.
8. Make sure that the hose is filled with coolant.
9. Set the valve 7 to the "ON" position to allow the coolant to be sucked out of the container (Fig. 9).
10. When the pressure displayed has fallen to 0, enough coolant has been filled in. Otherwise, the procedure can be repeated.



Figure 6



Figure 7



Figure 8

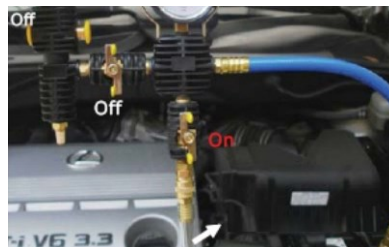


Figure 9 | arrow = coolant hose connection point



Maintenance and storage

Connect a manual pump to the adaptor. Apply the pump several times to allow the remaining coolant to be removed through the adaptor.

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