

COOLING SYSTEM PRESSURE TESTER

AND VACUUM PURGE KIT

INSTRUCTION MANUAL

PUSH THE LIMITS  | **MISHIMOTO**
THE WORLD LEADER IN PERFORMANCE COOLING PRODUCTS™

COOLING SYSTEM PRESSURE TESTER PARTS LIST

| PART NUMBER | DESCRIPTION |
|-------------|--|
| 1 | Hand pump with gauge |
| 1 | Filling unit |
| 2 | Thermometer |
| 2 | Universal adapter |
| 3 | Mercedes-Benz W123, W126, W124, W201, Buick Chrysler, Chevrolet, Dodge, Jeep, Oldsmobile, Pontiac |
| 3 | Filling hose |
| 4 | Acura, Chevrolet, Chrysler, Dodge, Ford, GM, Honda, Hyundai, Infiniti, Isuzu, Kia, Lexus, Mazda, Mercury, Mitsubishi, Mercedes-Benz, Nissan, Subaru, Suzuki, Peugeot, Toyota |
| 5 | Acura, Chevrolet, Dodge, Eagle, Honda, Lexus, Mercedes-Benz M-Klasse, Mitsubishi, Suzuki, Toyota |
| 6 | Cadillac, Daewoo, Ford, GM, Jaguar, Jeep, Land Rover, Mercedes-Benz, Mercury, Pontiac, Porsche, Saab, Saturn |
| 7 | Alfa Romeo, Citroen, Fiat, Mini Cooper, Peugeot, Renault, Saab, Sterling, Jeep, Volvo |
| 8 | VW Vento, T4, Passat 1996, Golf Beatle, Sharan |
| 9 | Audi A4, A5, A6, BMW345, VW Passat 1997-2002, Porsche Cayenne |
| 10 | BMW E32, E34, E36, E38, E39, E46, E90 |
| 11 | Audi 1975-1993 and VW 1975-1993 mit Aussengewinde |
| 12 | Ford Mondeo, International, Land Rover, Opel, Ssangyong |
| 13 | Mercedes-Benz (C-, E-, and S-Klasse) W140, W124, W210, W211, W215, W216, W220, R230 |
| 14 | Ford Mondeo, Focus, C-Max |
| 15 | Mazda (M3) |
| 16 | Mercedes-Benz A-Klasse W168, Vito |
| 17 | BMW E60, E63, E64, E65 |
| 18 | VW Sharan 1, 8T u, 2, 8 |
| 19 | Toyota Celica, RAV4, Previa, MR2 |
| 20 | Saab |
| 21 | Open, Fiat, Chevrolet, Buick, Cadillac, Ford (USA), Saab, GMC, Suzuki, Vauxhall, Mazda, Lincoln, Oldsmobile, Isuzu, Hummer |
| 22 | BMW, Land Rover, Mini |
| 30 | Connecting Piece R123/R124 (Black) |
| 31 | Connecting Piece R123/R125 (Blue) |
| 32 | Tool for test adapter |
| 33 | Hose |

IMPORTANT SAFETY INFORMATION

- Take care when opening the cooling system. The cooling system may be under pressure and hot coolant can spray out.
- Before dismantling the pump or the adapter release the pressure.
- Check the cooling fluid after the pressure test or repair of the correct level and frost protection.
- Take care when working on running engines. Loose or baggy clothing can be caught in rotating engine parts.

INSTRUCTIONS

1. COOLING SYSTEM LEAKAGE TEST

- 1.1. Remove the original radiator cap from the radiator or expansion tank.
- 1.2. Choose the appropriate adapter from the test set and connect it to the radiator or expansion tank.
- 1.3. Connect the hand pump to the adapter.
- 1.4. Press the test pump until a pressure of 10–15 psi is reached.

CAUTION: AVOID A PRESSURE OF 35 PSI OR MORE.

Check the pressure gauge. If the displayed value decreases, the leakage is in the cooling system. If the pressure drops or there is water loss the cooling system has a leak.

2. RADIATOR CAP LEAKAGE TEST

- 2.1. Remove the original radiator cap.
- 2.2. Choose the appropriate joint 2a or 2ba and connect it to the radiator cap.
- 2.3. Press the test pump a few times and watch the pressure gauge. The cap is defective if the pressure falls.
- 2.4. Compare the measured pressure values with the standard pressure of the radiator cap.

MAINTENANCE AND STORAGE

- Attach the test adapter to the quick coupler on the hand pressure pump. Then, press the hand pressure pump several times to push remnant water out the test adapter.
- Drop pneumatic oil into the air hold of the hand pump end to lubricate the hand pump piston.

INSTRUCTIONS CONTINUED

MMPKG-BKLT-MMTL-CPT-28_REVA

3. FILL COOLING SYSTEM

- 3.1. Open the hood and attach the vacuum pump with the hooks on the hood.
- 3.2. Remove radiator or reservoir cap. Drain coolant completely into a suitable container. The procedure can be found in the vehicle's service literature.
- 3.3. Connect a suitable vehicle specific adapter or the universal adapter to the radiator/reservoir tank.
- 3.4. Be sure that the top valve is set to "ON" and the bottom valve is set to "OFF."
- 3.5. Switch top valve to "OFF" if a pressure of 20–25 inHg (60–50smHg) is reached.
- 3.6. Connect the coolant hose to the vacuum pump and put the hose into a container filled with coolant.
- 3.7. Make sure that the top valve is in the "OFF" position before the coolant is topped up.
- 3.8. Make sure the hose is filled with coolant.
- 3.9. Switch the bottom valve to "ON" for the coolant to drain from the container.
- 3.10. If the pressure indicator has dropped to "0," the cooler should be sufficiently filled, otherwise, repeat the procedure.

IMPORTANT NOTE

The instructions do not replace the vehicle's service literature. You may find additional information in the vehicle's service literature. For all tests, vehicle-specific data should be present. Without this data, adequate results cannot be ensured.

