

I.D. No. 0 308557  Thermometer 210mm -50 to +150 °C	I.D. No. 1 308553  Pressure pump 0-35psi (0-2.5bar) Pressure pump hose Length: 600mm	I.D. No. 2 308554  Radiator cap tester R123 & R124 (Black)	I.D. No. 2 308555  Radiator cap tester R123 & R125 (Blue)	I.D. No. 3 308503  Bayonet test cap Large
I.D. No. 4 308504  Bayonet test cap Medium	I.D. No. 5 308505  Bayonet test cap Small	I.D. No. 6 308506  M50 x 2.5 Orange	I.D. No. 7 308507  M46 x 3.0 Brown	I.D. No. 8 308508  M57.5 x 3.0 White (External thread)
I.D. No. 9 308509  M62.2 x 3.0 Pink (External thread)	I.D. No. 10 308510  M52 x 4.0 Grey	I.D. No. 11 308511  M48.4 x 3.0 Red	I.D. No. 12 308512  M52 x 3.0 Dark green	I.D. No. 13 308513  M63 x 4.0 Sky blue
I.D. No. 14 308514  M56 x 3.0 Yellow	I.D. No. 15 308515  M50 x 2.5 Coral	I.D. No. 16 308516  M45.5 x 2.5 Purple	I.D. No. 17 308517  M52.5 x 3.0 Light blue	I.D. No. 18 308518  M48.5 x 3.0 Turquoise
I.D. No. 19 308519  M33.6 x 3.0 Pink	I.D. No. 20 308520  M46 x 3.0 White	I.D. No. 21 308521  M52.5 x 3.0 Copper	I.D. No. 22 308522  M45 x 3.0 Green	I.D. No. 23 308523  M61.7 x 3.0 Pink/white (External thread)
I.D. No. 24 30851H  M32 x 2.0 Black	308559  Tapered cone adaptor universal 15-45mm	308558  Vacuum purge unit 0 to -76 cmHg (0 to -1bar) Vacuum purge hose 500mm	308562  Elbow connector 90°	308560  Coolant suction hose 1200mm Ø10mm Air bleeding hose 600mm Ø8mm
		308556  Adaptor wrench Length: 94mm		

# Cooling System Pressure Tester & Vacuum Purge Master Kit

## User Guide

36 Piece

- Comprehensive master kit enables cooling system pressure testing, radiator cap pressure testing and cooling system purge and refill
- Suitable for diagnosing coolant leaks and overheating issues on most passenger and light commercial vehicles
- 22 test cap adaptors include identification numbers and colour code for quick referencing
- Includes user guide and full vehicle application list specifically researched and developed for the Australian and New Zealand car parc
- Supplied in custom moulded plastic hard case



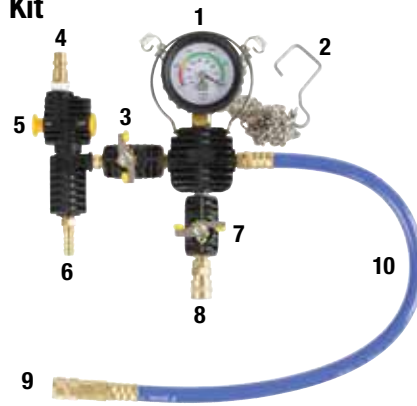
**NOTE:** Always refer the vehicles manufacture's workshop manual for prerequisite and specifications

### Important

- **WARNING!** Ensure all health and safety, local authority and general workshop practice regulations are adhered to when using these tools
- **DO NOT** use tools if seals or threads are damaged. This may incur false readings and personal injury
- Any defective seals **MUST** be replaced before use to avoid incorrect readings
- Maintain the tools in good, clean condition for optimum performance
- Ensure that a vehicle that has been jacked up is adequately supported with axle stands
- Wear approved eye protection
- Wear suitable clothing to avoid snagging, tie back long hair and **DO NOT** wear jewellery
- Ensure fuel supply is isolated to prevent fire whilst engine is being tested
- Ensure that the correct connector 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
- **WARNING!** Select neutral or 'park' if automatic transmission and keep hands clear of the rotating engine
- **IMPORTANT:** Always refer to the vehicle manufacturer's workshop manual, or a proprietary manual, to establish the current procedure and data
- These instructions are provided as a guide only
- When not in use, return all parts in the supplied case and store this in a safe, dry, childproof location
- **WARNING!** The warnings, cautions and instructions referred to in this manual cannot cover all possible conditions and situations that may occur
- It must be understood that common sense and caution are factors which cannot be built into this product, but must be applied by the operator

## Cooling System Vacuum Purge & Refill Kit

Ref no.	Description
1	Dual calibrated gauge 0 to -76 cmHg (0 to -1 bar)
2	Hanging hook (600mm)
3	Vacuum tap
4	Air inlet
5	ON/OFF Switch
6	Bleeding hose connector
7	Coolant suction tap
8	Coolant suction hose connector
9	Adaptor connector
10	Hose (500mm)



**Step 1** Ensure coolant is drained from cooling system and all hoses are secured

**Step 2** Select the suitable adaptor and fit it to vehicle

**Step 3** Ensure the vacuum purge unit is in the off position and all taps are closed (**Fig 01**)

Connect the air bleeding hose and suction hose to the unit and connect to the vehicle (**Fig 02**)

Insert the air bleeding hose into an empty container to capture any remaining coolant that may be expelled

Fully submerged the coolant suction hose into the new coolant container

**NOTE: Refer to the manufacturer's specifications for coolant ratio and capacity. The suction hose must be fully submerged at all times to prevent air from entering**

**Step 4** Switch the unit to the 'ON' position and open the vacuum tap (3)

Monitor the vacuum gauge until the pressure reaches around -60 cmHg (**Fig 03**)

Once it has reached it's maximum, close the vacuum tap and switch the unit to the 'OFF' position (5)

**Step 5** Once vacuum phase is completed with the vacuum tap in the closed position and the unit is switched 'OFF'

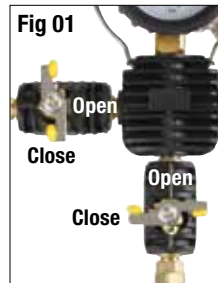
Slowly turn the suction tap (7) to the open position, new coolant will begin to draw from the suction hose into the vehicles cooling system

It will automatically stop once the vehicles cooling system is full and the gauge needle is steady

**Step 6** Close suction tap

Disconnect the workshop supply line and disconnect from vehicle

Check coolant level and top up if necessary



## Coolant Pressure Testing

Ref no.	Description
1	Dual calibrated gauge 0 - 35psi (0 - 2.5 bar)
2	Hand pump
3	Body
4	Hose (600mm)
5	Relief valve
6	Adaptor connector



**Step 1** Remove the radiator cap from vehicle and top up coolant level if necessary

**Caution: Do not open vehicle's radiator cap when it is hot**

**Step 2** Select the correct test cap adaptor and connect to the vehicle

**Step 3** Connect the pressure pump to the adaptor and ensure the connections are fitted correctly to avoid false reading

Begin to pump pressure into the vehicle's cooling system between 10 - 15 psi

**NOTE: Do exceed recommended pressure as it may further damage the vehicle's cooling system. Refer to your workshop manual for correct pressure rating**

**Step 4** Inspect for coolant leaks while the cooling system is under pressure

If a leak is detected the pressure gauge will decrease as it loses pressure

Keep topping up the pressure to ensure the vehicle's cooling system stays under pressure while inspecting for leaks

**Step 5** Once complete depress the pressure relief valve (5) until the pressure gauge reads zero and disconnect from vehicle

## Radiator Cap Testing (Bayonet type)

**Step 1** Remove the radiator cap from vehicle

**Step 2** Select the correct size radiator cap test adaptor

**Step 3** Connect adaptor to pressure pump and the radiator cap to the adaptor

**NOTE: Before testing check seals and condition of radiator cap**

**Step 4** Begin to pump to recommended pressure

**NOTE: Check radiator cap or manufacturer's manual for pressure rating**

**Step 5** Once completed depress relief valve and disconnect cap

