

# **COOLING SYSTEM PRESSURE TEST KIT**

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Stock Number W89733

## **OWNER'S MANUAL**



**FOR YOUR SAFETY,**  
please read these instructions carefully and retain them for future use.

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## FEATURES

Detects internal engine leaks caused by blown head gaskets and/or cracked block or heads.

Quickly reveals external cooling system leaks.

Kit includes high quality hand pump and 12 adapters to fit the most popular domestic & import cars & light trucks.

## IMPORTANT SAFETY INFORMATION

### **WARNING!**

**READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS TOOL. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.**

1. Keep work area clean. Cluttered areas invite injuries.
2. Observe work area conditions. Do not use machines or power tools in damp or wet locations. Don't expose to rain. Keep work area well lighted. Do not use electrically powered tools in the presence of flammable gases or liquids. Do not bring combustible materials near the tools.
3. Keep children away. Children must never be allowed in the work area. Do not let them handle machines, tools, hoses or extension cords.
4. Store idle equipment. When not in use, tools must be stored in a dry location to inhibit rust. Always lock up tools and keep out of reach of children and other untrained persons. Switch off all unused electrical tools when stored. Tools are dangerous in the hands of untrained users.
5. Always wear approved eye protection when using tools. If raising dust, wear a suitable mask.
6. Work Safe. Do not wear loose clothing or jewelry that could become caught by moving parts, causing injury. Operate tool a safe distance from yourself and others in the work area. Keep proper footing and balance at all times. Do not reach over or across running machines, hoses, etc.
7. Do not operate any tool if under the influence of alcohol or drugs. Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs. If there is any doubt, do not operate any tool.
9. Use only those accessories that are designed for use with tools. For example, with impact wrenches do not use ordinary sockets. Use impact sockets for all air tools.
9. Check for damaged parts. Before using any tool, any part that appears damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment and binding of moving

## IMPORTANT SAFETY INFORMATION

parts; any broken parts or mounting fixtures; and any other condition that may affect proper operation. Any part that is damaged should be properly repaired or replaced by a qualified technician.

10. Maintenance. For your safety, maintenance should be performed regularly by a qualified technician using original PERFORMANCE TOOLS® replacement parts. Failure to do so can lead to accidents for the operator. Use of any other parts will void the warranty. Only use accessories intended for use with this tool. Approved accessories are available from Performance Tool®. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

**WARNING:** This product and its packaging contain a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

**WARNING:** The warnings, cautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator. Read and understand all of the instructions provided in the instruction manual of this product, as well as, any other tool (s) used with this product.

## TESTING

Before using this tool for inspection, test the pump first by pumping a few times to see if the pump works properly. When testing, **DO NOT** pump over 20PSI.

During the inspection, when pumping the pump handle, always make sure applying the force straight into the pump rather than angled. Angled pressure may cause leaking in the pump. (See below)



**STRAIGHT FORCE**



**ANGLED FORCE**



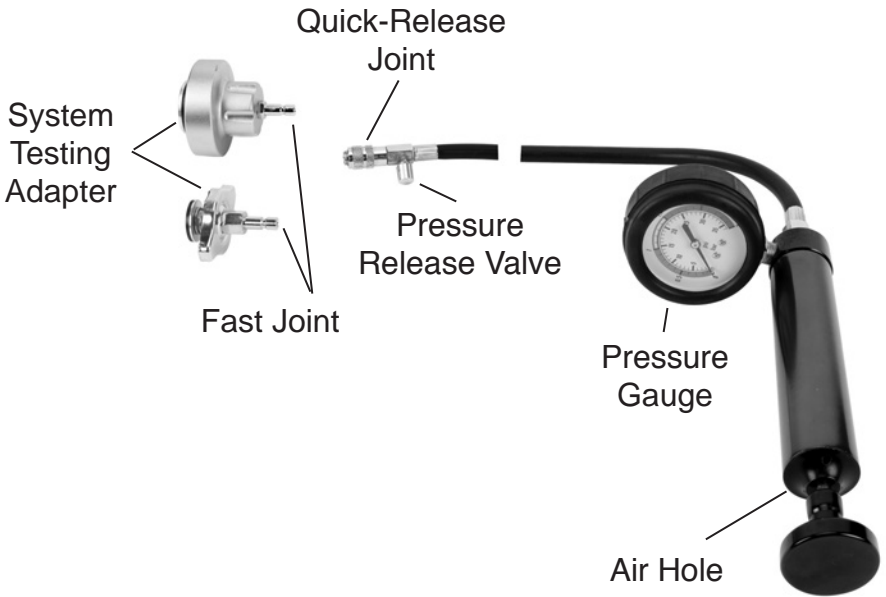
## OPERATION

1. Refer to the vehicle's service manual for specific radiator pressure testing instruction.
2. After the vehicle's cooling system has cooled, loosen the vehicle's radiator cap slowly to relieve any excess pressure before removing the cap completely. Never open the cooling system while it is hot. Serious injury could result.
3. Select the proper adapter and configuration of the stationary seat accessories. Securely attach the adapter to the filler neck of the radiator or expansion tank.
4. Attach the quick connector of the hand pump onto the adapter.
5. Rapidly pump the hand pump handle while watching the pressure gauge. Pressurize the radiator up to the optimal pressure only - **DO NOT OVER PRESSURIZE THE RADIATOR**. Ideal readings should range between 15-20PSI (1.03-1.37BAR).
  - a) Gauge holds steady – If gauge hand holds at the same pressure number for 2 minutes, there are no serious leaks in the system.
  - b) Gauge drops slowly – Indicates the presence of the small leaks or seepage.
  - c) Gauge drops quickly – Indicates serious leakage is present.
6. Once the test is complete, release the air pressure by pressing the pressure release valve on the hand pump. Then disconnect the quick coupler and adapter assembly.

## MAINTENANCE

- 1) After testing, connect the pump head with testing adaptor as actual test manner, operator pump several times to dissipate moisture and/or coolant remaining in the adaptor and pump set.
- 2) Oil the hand pump in order to lubricate the piston.
- 3) Make sure to store the radiator pressure tester kit in its carrying case and keep the kit in a clean, dry, safe location out of reach of children and other unauthorized person.

# COOLING SYSTEM PUMP



**CAUTION: MAX PRESSURE CAN NOT EXCEED 20 PSI (1.37BAR), OTHERWISE IT WILL DAMAGE THE RADIATOR.**



# REPLACEMENT PARTS LIST

#	Part #	Description
1	W89733-1	Handhold Pump Set
2	W89733-2	Benz, Ford, Light Truck, JIS 123 Series, Gm(Buick), Jeep
3	W89733-3	Peugeot, JIS 124 Series (Mitsubishi, Nissan, Mazda, Toyota, Subaru, Infiniti, Geo, Suzuki, Isuzu, Lexus)
4	W89733-4	JIS 125 Series (Honda, Toyota, Suzuki, Mitsubishi)
5	W89733-5	Medium Truck, Gm(Cadillac)
6	W89733-6	Opel, VW, Ford, BMW 245, Saab, Jaguar
7	W89733-7	Volvo, Saab, Audi, Citroen, Renault, Fiat, Peugeot, Alfa, Jeep
8	W89733-8	New VW
9	W89733-9	VW T4, New Audi (A4,A5,A6), BMW 345
10	W89733-10	BMW
11	W89733-11	Audi, VW
12	W89733-12	Ford, International, GM, Rover
13	W89733-13	Mercedes Benz
14	W89733-14	Needle Thermometer
N/A	W89733-15	Gasket For #2 Adapter
N/A	W89733-16	Gasket For #3 Adapter
N/A	W89733-17	Gasket For #4 Adapter
N/A	W89733-18	Gasket For #5 Adapter
N/A	W89733-19	Gasket For #6 Adapter
N/A	W89733-20	Gasket For #7 Adapter
N/A	W89733-21	Gasket For #8 Adapter
N/A	W89733-22	Gasket For #9 Adapter
N/A	W89733-23	Gasket For #10 Adapter
N/A	W89733-24	Gasket For #11 Adapter
N/A	W89733-25	Gasket For #12 Adapter
N/A	W89733-26	Gasket For #13 Adapter
N/A	W89733-27	Hose for Pump with Coupler
N/A	W89733-28	Seal Kit for Handle Pump

# is marked on tool and storage case.

## LIMITED WARRANTY

PERFORMANCE TOOL® extends only the following warranties, and only to original retail purchasers. These warranties give specific legal rights. Except where prohibited by local law, the law of the State of Washington governs all warranties and all exclusions and limitations of warranties and remedies. There may be other rights which vary from state to state.

PERFORMANCE TOOL® warrants the product to be free from defects in materials and workmanship under normal use and service. A defective product may be returned for a free replacement within 90 days from the date of purchase, provided that product is returned to place of purchase immediately after discovery of defect. After 90 days and up to one year from date of purchase, PERFORMANCE TOOL® will replace at no charge any parts which our examination shall disclose to be defective and under warranty. These warranties shall be valid only when a sales receipt showing the date of purchase accompanies the defective product or defective part (s) being returned.

These warranties exclude blades, bits, punches, dies, bulbs, fuses, hoses, and other consumables which must be replaced under normal use and service. These warranties shall not apply to any product or part which is used for a purpose for which it is not designed, or which has been repaired or altered in any way so as to affect adversely its performance or reliability, nor shall these warranties apply to any product or part which has been subject to misuse, neglect, accident or wear and tear incident to normal use and service.

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The laws on limitation of implied warranties may differ from state to state, so the above limitations may not apply in all cases.

PERFORMANCE TOOL® shall not be liable for consequential, incidental or special damages resulting from or in any manner related to any product, or to the design, use, or any inability to use the product. The sole and exclusive remedy for a defective product or part shall be the repair, or replacement thereof as provided above. The laws on limitation of remedies or on consequential, incidental or special damages may vary from state to state, so the above limitations may not apply in all cases.

Check out the collection of automotive tools we offer.