STEELMAN®

COOLING SYSTEM TEST KIT
(OPERATING INSTRUCTIONS)
97332

WARNING: NEVER remove the radiator cap or attempt to pressurize the cooling system of a vehicle that is overheated. Be certain that engine & cooling system has been given sufficient time to cool before attempting to test or service the cooling system.

WARNING: ALWAYS wear eye protection when removing a radiator or reservoir tank cap when performing any cooling system test. NEVER remove the radiator or reservoir tank cap or attempt to pressurize the cooling system of a vehicle that is overheated. ALWAYS allow the cooling system to cool prior to attempting to perform test procedures.

COOLING SYSTEM TEST PROCEDURE

ENGINE "OFF" TEST

1. Ensure engine is cool before cautiously removing the radiator or reservoir tank cap.
2. Using the provided application chart, select the appropriate adapter and secure it in place of the removed radiator or reservoir tank cap.
3. Attach the quick coupler of the pressure pump assembly (97332-01) to the test adapter.

NOTE: The twelve (12) adapters provided in this kit represent the most commonly used radiator test adapters. In the event that the included adapters will NOT fit a given application, the Standard Radiator Adapter (97332-03) can be fitted to any conventional radiator adapter.

NEVER exceed the maximum recommended test pressure for the vehicle being tested. Exceeding the maximum test pressure range of the gauge can result in damage to the gauge assembly.

4. While viewing the test gauge, actuate the pump handle while holding body of pump until normal operating pressure has been applied to the cooling system equal to the pressure range indicated on the radiator cap of the system. In the event that the pressure cap is missing or has been damaged, refer to the manufacturer's specifications for the proper test pressure range.
5. With the system pressurized, perform a visual inspection of the entire cooling system. If the system fails to maintain pressure, a leak in the cooling system is indicated. Check for coolant leaks at the water pump seal, system hoses and hose clamped junctions. A slightly loose hose clamp or a stuck clamp that gives a false sense of tightness may be the cause of these types of leaks.

ENGINE "RUNNING" TEST

1. Ensure pressure tester is properly connected to cooling system as described in the paragraph above and that all safety precautions have been followed.
2. If engine "OFF" test has been performed prior to the engine "RUNNING" test, using the pressure relief valve on hose assembly of pump, be certain that all pressure has been released from the system.
3. With the pressure reading on test gauge at zero, start the engine.
4. Increase engine speed to 1,000 to 2,000 RPM by "Blipping" the throttle.

NOTE: If the gauge reading rises quickly and shows a pressure reading that rises above normal (approximately 10 PSI), engine may have a crack in the exhaust port or exhaust valve seat. If a crack exists between the intake & exhaust valve seats, the test gauge reading will fluctuate rapidly.

END OF TEST - PRESSURE RELIEF

WARNING: When testing procedure is complete, be certain that all pressure has been released from the system prior to attempting to remove the pressure pump assembly or the test adapter from the vehicle.

1. Using the provided pressure relief button, depress pressure relief button while monitoring test gauge on pump assembly until the pressure reading on test gauge is zero (0) PSI.
2. After all pressure has been relieved from the cooling system, carefully disconnect the hose assembly from the cooling system adapter.
3. Remove cooling system adapter from vehicle.
4. Be sure to refill the cooling system with coolant to the appropriate level, if necessary, and reinstall radiator or reservoir cap.

RADIATOR CAP TESTING

It is strongly recommended that the radiator cap be replaced as part of any thorough cooling system service/repair or every 24 months.

Should it become necessary to test the pressure cap, the Standard Radiator Adapter (97332-03) is compatible with all major brand radiator cap adapters.

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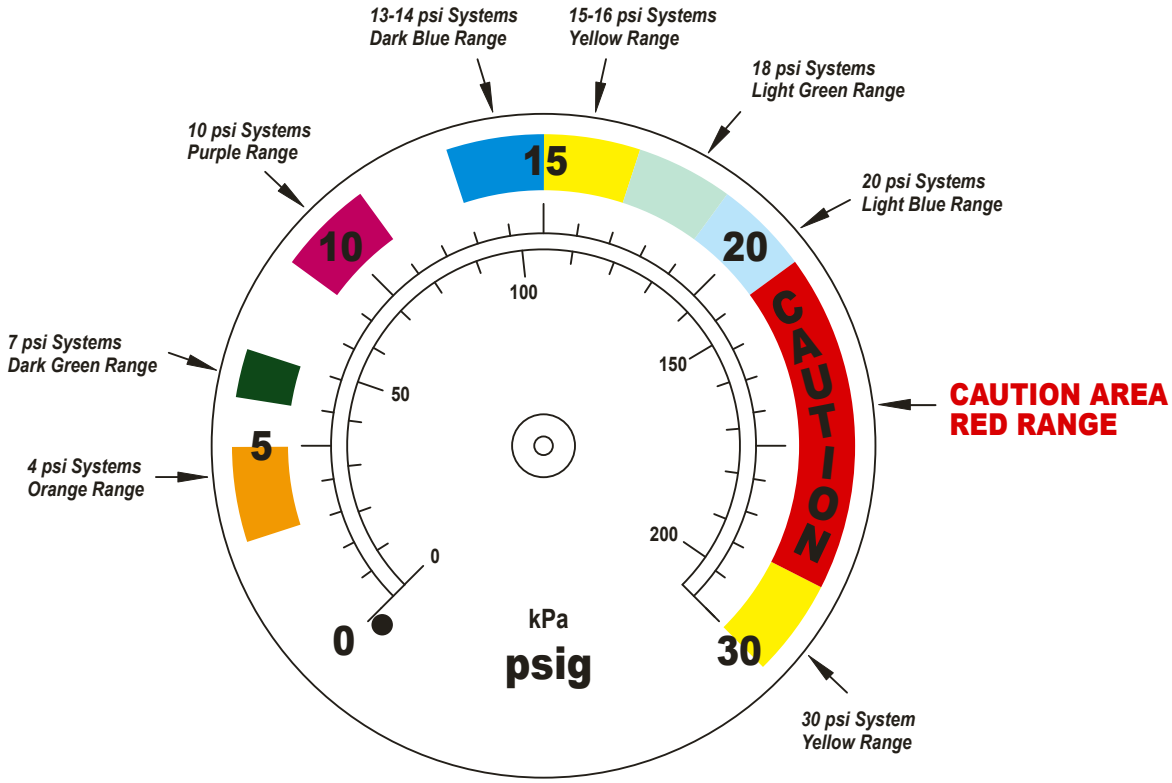

97332-00 - Temperature Probe

97332-01 - Pressure Pump Assembly with Gauge

97332-02 - 15/16" Radiator Adapter
MEDIUM TRUCK - GM (CADILLAC)

97332-03 - Standard Radiator Adapter
BENZ - FORD - LIGHT TRUCK -
JIS 123 SERIES - GM (BUICK) - JEEP

97332-04 - Import Long Neck Adapter
PEUGEOT - JIS 124 SERIES
(MITSUBISHI - NISSAN - MAZDA - TOYOTA -
SUBARU - INFINITI - GEO - SUZUKI - ISUZU - LEXUS)

97332-05 - Import Short Neck Adapter
JIS 125 SERIES
(HONDA - TOYOTA - SUZUKI - MITSUBISHI)

Expansion Tank Adapters

6	97332-06 - Internal	OPEL - VW - FORD - BMW245 - SAAB - JAGUAR
7	97332-07 - Internal	VOLVO - SAAB - AUDI - CITRON - RENAULT - FIAT - PEUGEOT - ALFA - JEEP
8	97332-08 - External	NEW VW
9	97332-09 - External	VW T4 - NEW AUDI A4, A5, A6 - BMW345
10	97332-10 - Internal	BMW
11	97332-11 - Internal	AUDI - VW
12	97332-12 - Internal	FORD - INTERNATIONAL - GM - ROVER
13	97332-13 - Internal	BENZ