

ANSWER KEY TO CHALLENGE SHEET

COOLING SYSTEM CHALLENGE

Customer's Concern: My car has been overheating for the past two weeks. I had the thermostat replaced twice, but my car still runs hot. It also is running rough.

Customer Vehicle: Ford Mustang.

Possible Causes of This Challenge:

1. External leak in cooling system (hoses, radiator, or heater core).
2. Internal leak in cooling system (cylinder head or block cracked, or intake manifold or cylinder head gaskets leaking).
3. Defective radiator cap.
4. Clogged radiator.
5. Defective water pump.

Safety First Practices to Follow:

1. Wear safety glasses at all times.
2. Never remove the radiator cap when the engine is hot.
3. Follow all safety rules when using hand tools.

Tools and Equipment Required:

1. Hand tools.
2. Combustion leak detector.
3. Cooling system pressure tester.
4. Thermometer.