

ANSWER KEY TO CHALLENGE SHEET

CHARGING SYSTEM CHALLENGE 3

Customer's Concern: I've been using a lot of water in my battery. The battery is only a year old so I don't think it is because of a bad battery.

Customer Vehicle: Chevrolet Impala.

Possible Causes of This Challenge:

1. Voltage regulator malfunction.
2. Defective alternator.
3. Short circuit causing the charging system to operate at full output.
4. Internal battery problem.
5. Incorrect battery for application.

Safety First Practices to Follow:

1. Wear safety glasses at all times.
2. Connect vehicle exhaust system to a vent hose in a closed shop.
3. Watch out for moving or hot parts when making under-hood inspection.
4. Follow all safety rules when using hand tools.

Tools and Equipment Required:

1. Vehicle service information.
2. Hand tools.
3. Digital multimeter.
4. Jumper wires.
5. Instrument tester variable resistor.