

ANSWER KEY TO CHALLENGE SHEET

FUEL SYSTEM CHALLENGE 1

Customer's Concern: When I pull up to a stop light, my car will quite often just quit running. I start it and pump on the accelerator and it will run until the next stop.

Customer Vehicle: Dodge Omni.

Possible Causes of This Challenge:

1. Carburetor idle speed solenoid disconnected or out of adjustment.
2. Carburetor idle speed circuit is plugged.
3. Vacuum leak at carburetor base, adapter, or intake manifold.
4. EGR valve is sticking open at idle.
5. PCV valve is sticking in the full open position.

Safety First Practices to Follow:

1. Hook up exhaust system to a vent hose when working in a closed shop.
2. Watch out for moving or hot parts.
3. Make sure vehicle is in Park or Neutral and parking brake is applied.
4. Do not handle ignition parts when engine is running.

Tools and Equipment Required:

1. Vehicle service information and hand tools.
2. Digital multimeter and vacuum gauge.
3. Engine diagnostic machine or oscilloscope.
4. Engine diagnostic machine or appropriate scanner.