

ANSWER KEY TO CHALLENGE SHEET

IGNITION SYSTEM CHALLENGE 1

Customer's Concern: The engine feels like it hesitates when I try to accelerate quickly.

Customer Vehicle: Chevrolet Monte Carlo.

Possible Causes of This Challenge:

1. Broken distributor pick up coil leads.
2. Carbon tracked or damaged distributor cap.
3. Damaged distributor rotor.
4. Defective or damaged spark plug cables.
5. Excessive wide gap at spark plugs.
6. Excessive retarded ignition timing.

Safety First Practices to Follow:

1. Wear safety glasses at all times.
2. Connect vehicle exhaust system and vent hose in closed shop.
3. To prevent electrical shock, do not handle ignition components with engine running.
4. Make sure vehicle is in Park or Neutral and parking brake is set before running engine.

Tools and Equipment Required:

1. Vehicle service information.
2. Hand tools.
3. Engine diagnostic machine or oscilloscope.
4. Timing light.
5. Digital multimeter.