

## ANSWER KEY TO CHALLENGE SHEET

### IGNITION SYSTEM CHALLENGE 2

**Customer's Concern:** When I'm driving my car at 45 miles per hour, it seems to be missing when I begin to accelerate to a faster speed.

**Customer Vehicle:** Toyota Camry

#### Possible Causes of This Challenge:

1. Cracked or carbon-tracked ignition coil.
2. Defective spark plug cables.
3. Excessive spark plug gap or worn or fouled spark plugs.
4. Restriction in fuel line.
5. Needs tune-up.

#### Safety First Practices to Follow:

1. Do not create any sparks when working around gasoline.
2. Connect vehicle's exhaust system to a vent tube in a closed shop.
3. Make sure vehicle is in Park or Neutral and parking brake is set.
4. To prevent electrical shock, do not handle ignition components while engine is running.

#### Tools and Equipment Required:

1. Vehicle service information and hand tools.
2. Engine diagnostic machine or oscilloscope.
3. PCV system tester and a vacuum gauge.
4. Digital multimeter.
5. Timing light and appropriate scanner or test equipment.