

## ANSWER KEY TO CHALLENGE SHEET

### FUEL SYSTEM CHALLENGE 2

**Customer's Concern:** My car won't stop running when I turn off the ignition. It finally stops running only after ten or fifteen seconds of "coughing" and "sputtering."

**Customer Vehicle:** Chevrolet Camaro

#### Possible Causes of This Challenge:

1. Idle set too high.
2. Timing out of adjustment.
3. Excessive carbon buildup in combustion chamber.
4. High idle solenoid stuck in high rpm position.
5. AC compressor clutch engage circuit is open (not causing AC compressor to cycle on when key is cycled off).

#### Safety First Practices to Follow:

1. Use appropriate fuel recovery system to empty fuel tank before removing tank.
2. Connect exhaust system to a vent hose in a closed shop.
3. Do not handle ignition components while engine is running to prevent electrical shock.
4. Be alert to manufacturer warnings of high pressure fluid.

#### Tools and Equipment Required:

1. Vehicle service information.
2. PCV system tester.
3. Digital multimeter.
4. Timing light.
5. Hand-held vacuum pump and gauge.