

ANSWER KEY TO CHALLENGE SHEET

GENERAL ENGINE DIAGNOSIS CHALLENGE 2

Customer's Concern: When I shut the truck off, the engine stutters and the whole truck vibrates.

Customer Vehicle: Ford F-150.

Possible Causes of This Challenge:

1. Idle set too high.
2. Timing out of adjustment.
3. Excessive carbon buildup in combustion chamber.
4. Broken motor mount.

Safety First Practices to Follow:

1. Do not create any sparks when working around gasoline.
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. 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. Flashlight or shop light; timing light.
3. Engine diagnostic machine or oscilloscope.
4. Vacuum gauge.
5. Appropriate scanner or test equipment.