

## IGNITION SYSTEM

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### TROUBLESHOOTING

The ignition system has two sub-systems; one for the No. 1 cylinder and one for the No. 2 cylinder. Determine which sub-system is faulty, then proceed to the detailed tests below.

#### Engine cranks but will not start

1. Engine stop switch OFF.
2. No spark at plugs.
3. Faulty transistorized spark unit.
4. Faulty pulse generator.

#### No spark at plug

1. Engine stop switch OFF.
2. Poorly connected, broken or shorted wires.
  - Between ignition switch and engine stop switch.
  - Between spark unit and engine stop switch.
  - Between spark unit and ignition coil.
  - Between ignition coil and plug.
  - Between spark unit and pulse generator.
3. Faulty ignition coil.
4. Faulty ignition switch.
5. Faulty spark unit.
6. Faulty pulse generator.

#### Engine starts but runs poorly

1. Ignition primary circuit.
  - Faulty ignition coil.
  - Loose or bare wire.
  - Intermittent short circuit.
2. Secondary circuit.
  - Faulty plug.
  - Faulty spark plug wire.

#### Timing advance incorrect

1. Faulty pulse generator.
2. Faulty spark unit.