

Starter cranks slowly/dragging, just clicks continually or intermittent, continues to run after key release

- 1.6L Nissan 200SX/NX Pulsar/Sentra 1989-99
- 2.4L Nissan 240SX/Assess/Frontier/Pickup/Stanza 1989-99
- 3.0L Infiniti I30/Mercury Villager 1993-99
- 3.0L Nissan Maxima/Pathfinder/Pickup/Quest 1990-99
- 3.3L Mercury Villager/Nissan Quest 1993-02

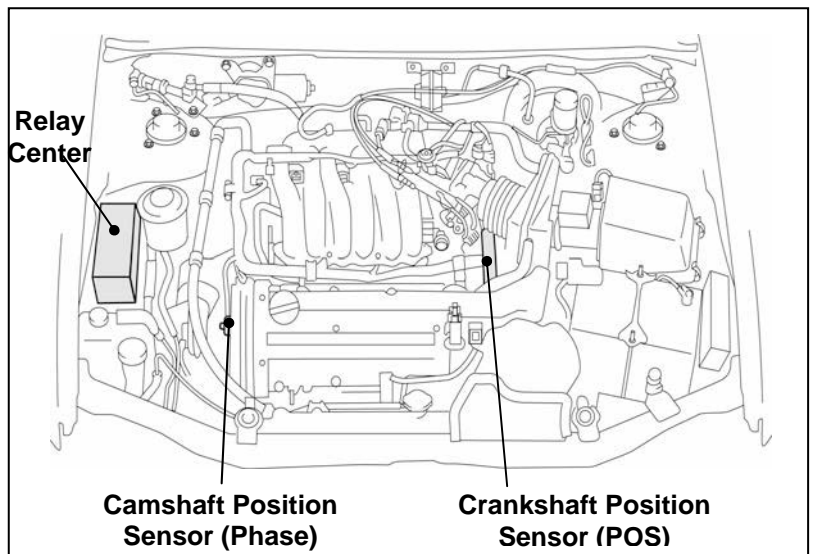
Cause: Low voltage to switch terminal on starter solenoid. Battery cable going to starter has high resistance. Low battery voltage.

Diagnostics: Normal under hood checks should include the battery state of charge, battery cables and connections, and voltage drop tests. If no problems are found, see below for additional review.

Recommended areas to review:

- Faulty ignition switch
- Faulty Inhibitor Relay(s)/Clutch Interlock relay/starter relay located in the Relay Center. *(Relay Center locations may vary)*
- Metallic debris on Camshaft Position Sensor, located at front of engine, can mislead ECU to an advance-timing mode.

- Metallic debris on Crank Position Sensor, located on oil pan facing the flywheel, can mislead the ECU to an advance-timing mode.
- Voltage drops in starting circuit – ignition to relay(s) relay to starter.



Note: Relay Centers and Sensor Locations may Vary by Application