

[2002 GMC Truck Sonoma Pickup - 4WD](#) | [Blazer, S10 Pickup, Jimmy, Sonoma \(VIN S/T\) Service Manual](#) | [Engine](#) | [Engine Electrical](#) | [Description and Operation](#) | **Document ID: 691727**

Symptoms - Engine Controls

Important Preliminary Checks

Checks	Action
Before Using This Section	Before using this section, you should have performed the Diagnostic System Check-Engine Controls. Several of the following symptom procedures call for a careful visual and physical check. The visual and physical checks are very important. These checks can lead to correcting a problem which may save valuable time.
Visual and Physical Checks	• Check the powertrain control module (PCM) grounds for being clean, tight, and in their proper location. Refer to Powertrain Control Module Description. • Check the vacuum hoses for splits, for kinks, and for proper connections, as shown on the Vehicle Emission Control Information label. • Check thoroughly for any type of leak or restriction. • Check for air leaks at all the mounting areas of the intake manifold sealing surfaces. • Check the ignition wires for the following conditions: - Cracking - Hardness - Proper routing - Carbon tracking • Check the wiring for the following items: - Proper connections - Pinches - Cuts • The following symptom tables contain groups of possible causes for each symptom and cover several engines. The following symptom tables cover several engines. The order of these procedures is not important. If the scan tool readings do not indicate the problems, then proceed in a logical order, easiest to check or most likely to cause first. In order to determine if a specific vehicle is using a particular system or component, refer to Powertrain Control Module Connector End Views for an application.
Symptom	1. Verify the customer complaint. 2. Locate the correct symptom table. 3. Check the items indicated under that symptom. 4. Use the following tables when diagnosing a symptom complaint. • Intermittent Conditions • Hard Start • Surges/Chuggles • Lack of Power, Sluggishness, or Sponginess • Detonation/Spark Knock • Hesitation, Sag, Stumble

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| <ul style="list-style-type: none">• Cuts Out, Misses• Poor Fuel Economy• Rough, Unstable, or Incorrect Idle and Stalling• Dieseling, Run-On• Backfire |
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