

2003 Chevrolet Silverado 1500 5.3L



Vehicle Application:	2003 Chevrolet Silverado 1500 5.3L, GAS, Vin T, Eng Cfg V8
Customer Concern:	The engine is misfiring on one bank only.
Tests/Procedures:	<p>1. Perform a fuel injector balance test for all cylinders. If a fuel injector concern exists, it is possible to misfuel an entire bank of the engine, causing multiple cylinders on the same bank to misfire even though the root cause is a single fuel injector. The engine computer recognizes all the extra oxygen and adds fuel to the engine bank. This is verifiable by higher injector pulse on the affected bank.</p> <p>2. Use the scan tool to turn off the fuel enable. This is found using the special functions/output controls of the scan tool. This will maintain fuel trim numbers at 0%. Check for the entire bank to stop misfiring and concentrate on a single cylinder misfire. The single cylinder misfire can be the cause of the O2 sensor showing lean exhaust.</p> <p>3. Check for excessive exhaust backpressure. This can affect only one bank if equipped with 2 catalytic converters. This is often verifiable by reduced injector pulse on the affected bank.</p> <p>4. Swap the position 1 O2 sensors side to side to see if the misfires move to the other bank of the engine. If so, replace the O2 sensor.</p> <p>5. Remove bank 1 spark plugs, check for rich or lean plug condition, clean or replace.</p> <p>6. Disconnect both front O2 sensors, road test. This will also keep the fuel trim numbers at 0%, similar to step #2.</p> <p>7. Remove both front O2 sensors and road test. This will verify that the exhaust is not only slightly restricted.</p>
Potential Causes:	Restricted Exhaust System Lean Misfiring Cylinder Oxygen Sensor
Diagnostic Codes:	None

Confirmed Fix Summary ▼

- 1 - Catalytic Converter
- 1 - Right Catalytic Converter

2002 Chevrolet Silverado 1500, 5.3L, FLEX, Vin Z, Eng Cfg V8 *	Catalytic Converter
Catalytic Converter - left cat stopped up	
2003 Chevrolet Silverado 1500, 5.3L, GAS, Vin T, Eng Cfg V8 Right Catalytic Converter 80,000 miles	Right Catalytic Converter

- Confirmed Fix - Exact Vehicle Match

- Confirmed Fix - Similar Vehicle Match

* - Indicates a Similar Vehicle - Not an exact match to the vehicle selected