

ENGINE SYMPTOM TROUBLESHOOTING [ZJ, Z6]

B3E010318881W32

- Confirm trouble symptom using the following diagnostic index, then go to appropriate troubleshooting chart.

Diagnostic Index

No.	TROUBLESHOOTING ITEM		DESCRIPTION
1	Melting of main or other fuses		-
2	MIL illuminates.		The MIL is illuminated incorrectly.
3	Will not crank		The starter does not work.
4	Hard to start/long crank/erratic start/erratic crank		The starter cranks the engine at normal speed but the engine requires excessive cranking time before starting.
5	Engine stalls.	After start/at idle	The engine stops unexpectedly at idle and/or after start.
6	Crank normally but will not start		The starter cranks the engine at normal speed but the engine will not run.
7	Slow return to idle		The engine takes more time than normal to return to idle speed.
8	Engine runs rough/rolling idle		The engine speed fluctuates between specified idle speed and lower speed and the engine shakes excessively.
9	Fast idle/runs on		The engine speed continues at fast idle after warm-up. The engine runs after the ignition switch is turned off.
10	Low idle/stalls during deceleration		The engine stops unexpectedly at beginning of deceleration or recovery from deceleration.
11	Engine stalls/quits.	Acceleration/cruise	The engine stops unexpectedly at beginning of acceleration or during acceleration. The engine stops unexpectedly while cruising.
	Engine runs rough.	Acceleration/cruise	The engine speed fluctuates during acceleration or cruising.
	Misses	Acceleration/cruise	The engine misses during acceleration or cruising.
	Buck/jerk	Acceleration/cruise/ deceleration	The vehicle bucks/jerks during acceleration, cruising, or deceleration.
	Hesitation/stumble	Acceleration	Momentary pause at beginning of acceleration or during acceleration
	Surges	Acceleration/cruise	Momentary minor irregularity in engine output
12	Lack/loss of power	Acceleration/cruise	Performance is poor under load. (e.g. power down when climbing hills)
13	Knocking/pinging	Acceleration/cruise	Sound is produced when air/fuel mixture is ignited by something other than spark plug. (e.g. hot spot in combustion chamber)
14	Poor fuel economy		Fuel economy is unsatisfactory.
15	Emission compliance		Fails emissions test.
16	High oil consumption/leakage		Oil consumption is excessive.
17	Cooling system concerns	Overheating	The engine runs at higher than normal temperature/overheats.
18	Cooling system concerns	Runs cold	The engine does not reach normal operating temperature.
19	Exhaust smoke		Blue, black, or white smoke from exhaust system

20	Fuel odor (in engine compartment)	Gasoline fuel smell or visible leakage
21	Engine noise	Engine noise from under hood
22	Vibration concerns (engine)	Vibration from under hood or driveline
23	A/C does not work sufficiently.	The A/C compressor magnetic clutch does not engage when the A/C is turned on.
24	A/C is always on or A/C compressor runs continuously.	The A/C compressor magnetic clutch does not disengage.
25	A/C is not cut off under WOT conditions.	The A/C compressor magnetic clutch does not disengage under WOT.
26	Exhaust sulphur smell	Rotten egg smell (sulphur) from exhaust
27	Spark plug condition	Incorrect spark plug condition
28	ATX concerns	Upshift/downshift/engagement ATX concerns not related to engine performance