

SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5]

id0103g3800500

- Verify malfunction symptoms using the following diagnostic index, then go to the appropriate troubleshooting chart.

Diagnostic Index

—: Not applicable

No.	TROUBLESHOOTING ITEM		DESCRIPTION
1	Blown fuses		—
2	Check engine light illuminates		• Check engine light illuminates.
3	Will not crank		• Starter does not work.
4	Hard to start/long crank/erratic start/erratic crank		• Starter cranks engine at normal speed but engine requires excessive cranking time before starting. • Battery is operating normally.
5	Engine stalls	After start/at idle	• Engine stops unexpectedly at idle, after start, or both.
6	Crank normally but will not start		• Starter cranks engine at normal speed but engine will not run. • Refer to symptom troubleshooting “NO.5 ENGINE STALLS-AFTER START/AT IDLE” if this symptom appears after engine stalls. • Fuel is in tank. • Battery is in normal condition.
7	Engine oil warning light illuminates/message “Engine Oil Pressure Inspection Required” is indicated in TFT LCD		• Engine oil warning light illuminates. • Message “Engine Oil Pressure Inspection Required” is indicated in TFT LCD.
8	Engine runs rough/rolling idle		• Engine speed fluctuates between specified idle speed and lower speed and, engine shakes excessively. • Idle speed is too slow and engine shakes excessively.
9	Fast idle/runs on		• Engine speed continues at fast idle after warm-up. • Engine runs after ignition is switched off.
10	Low idle/stalls during deceleration		• Engine stops unexpectedly at beginning of deceleration or recovery from deceleration.
11	Engine stalls/quits	Acceleration/cruise	• Engine stops unexpectedly at beginning of acceleration or during acceleration. • Engine stops unexpectedly while cruising.
	Engine runs rough	Acceleration/cruise	• Engine speed fluctuates during acceleration or cruising.
	Misses	Acceleration/cruise	• Engine misses during acceleration or cruising.
	Buck/jerk	Acceleration/cruise/deceleration	• Vehicle bucks/jerks during acceleration, cruising, or deceleration.
	Hesitation/stumble	Acceleration	• Momentary pause at beginning of acceleration or during acceleration.
12	Surges	Acceleration/cruise	• Momentary minor irregularity in engine output.
	Lack/loss of power	Acceleration/cruise	• Performance is poor under load. (e.g., power down when climbing hills)
13	Knocking/pinging	Acceleration/cruise	• Abnormal combustion occurs under the condition such as the temperature in the combustion chamber is too high resulting in abnormal noise. • Knocking sound occurs from the engine compartment during acceleration.
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	• Engine runs at higher than normal temperature/overheats.
18	Cooling system concerns	Runs cold	• 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 bonnet.
22	Vibration concerns (engine)		• Vibration from under bonnet or driveline.
23	A/C does not work sufficiently		• A/C compressor magnetic clutch does not engage when A/C switch is turned on.
24	A/C is always on or A/C compressor runs continuously		• A/C compressor magnetic clutch does not disengage.
25	A/C is not cut off under wide open throttle conditions		• 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.

No.	TROUBLESHOOTING ITEM		DESCRIPTION
28	ATX concerns	Upshift/downshift/ engagement	• ATX concerns not related to engine performance.
i-stop related troubleshooting item			(See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)