

SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-D 2.2]

id0103g1052700

- 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	Diesel particulate filter indicator light illuminates frequently/message "Soot Accumulation in DPF too high" is frequently indicated in TFT LCD	• "Soot Accumulation in DPF too high" is displayed frequently in the TFT LCD. (with TFT LCD) • Diesel particulate filter indicator light illuminates frequently. (without TFT LCD)
4	Diesel particulate filter indicator light flashes/message "DPF Inspection Required" is indicated in TFT LCD	• "DPF Inspection Required" is displayed in the TFT LCD. (with TFT LCD) • Diesel particulate filter indicator light flashes. (without TFT LCD)
5	Wrench indicator light illuminates/message "Drain Water from Fuel Filter" is indicated in TFT LCD	• "Drain Water from Fuel Filter" is displayed in the TFT LCD. (with TFT LCD) • Wrench indicator light illuminates. (without TFT LCD)
6	Master warning light illuminates	• Master warning light illuminates.
7	Charging system warning light illuminates/message "Charging System Inspection Required" is indicated in TFT LCD	• "Charging System Inspection Required" is displayed in the TFT LCD. (with TFT LCD) • Charging system warning light illuminates. (without TFT LCD)
8	Engine oil warning light illuminates/message "Engine Oil Pressure Inspection Required" is indicated in TFT LCD	• "Engine Oil Pressure Inspection Required" is displayed in the TFT LCD. (with TFT LCD) • Engine oil warning light illuminates. (without TFT LCD)
9	Will not crank	• Starter does not work.
10	Hard to start/long crank/erratic start/erratic crank	• There is ignition, but the engine does not run under its own power. • Long period of time required before the engine starts.
11	Engine stalls-after start/at idle	• Stalling occurs if vehicle is left idling under no load. • Stalling occurs when load (electric, A/C) is applied during idling. • Stalling occurs if the accelerator pedal is depressed from an idling condition when accelerating from a stop.
12	Cranks normally but will not start	• Cranking occurs but no ignition.
13	Engine runs rough/rolling idle	• Idle speed lower than the specification. • Idling speed unstable, increases/decreases.
14	Fast idle/runs on	• Engine speed continues at fast idle after warm-up. • Engine runs after ignition is switched off.
15	Low idle/stalls during deceleration	• Engine speed decreases when the accelerator pedal is released. • Stalls during deceleration with the accelerator pedal fully released. • When the accelerator pedal is fully released, vehicle stalls directly after vehicle stops.
16	Engine stalls/quits, engine runs rough, misses, buck/jerk, hesitation/stumble, surges	• Stalling occurs while driving with the throttle open.
17	Lack/loss of power-acceleration/cruise	• Engine speed increase delays when the accelerator pedal is fully depressed.
18	Knocking/pinging-acceleration/cruise	• Knocking sound occurs from the engine.
19	Poor fuel economy	• Fuel economy is unsatisfactory.
20	Emission compliance	• Fails emissions test.
21	High oil consumption/leakage	• Oil consumption is excessive.
22	Cooling system concerns-overheating	• The engine coolant temperature is abnormally high.
23	Cooling system concerns-runs cold	• Engine does not reach normal operating temperature.
24	Excessive black smoke	• Compared to previously, black smoke in the exhaust gas abnormally high.
25	Fuel odor (in engine compartment)	• Fuel odor from inside/outside of cabin or engine compartment.
26	Engine noise	• Engine noise from under bonnet.
27	Vibration concerns (engine)	• Vibration from under bonnet or driveline.
28	A/C does not work sufficiently	• A/C compressor magnetic clutch does not engage when A/C switch is turned on.
29	A/C is always on or A/C compressor runs continuously	• A/C compressor magnetic clutch does not disengage.
i-stop related troubleshooting item		(See SYMPTOM DIAGNOSTIC INDEX [SKYACTIV-D 2.2].)