
OBD DRIVE MODE [SKYACTIV-D 2.2]

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- Using the OBD Drive Mode, the monitoring item requested by OBD regulations can be easily diagnosed.
- Performing the Drive Mode inspects the OBD system for proper operation and must be performed to ensure that no additional DTCs are present.

Caution

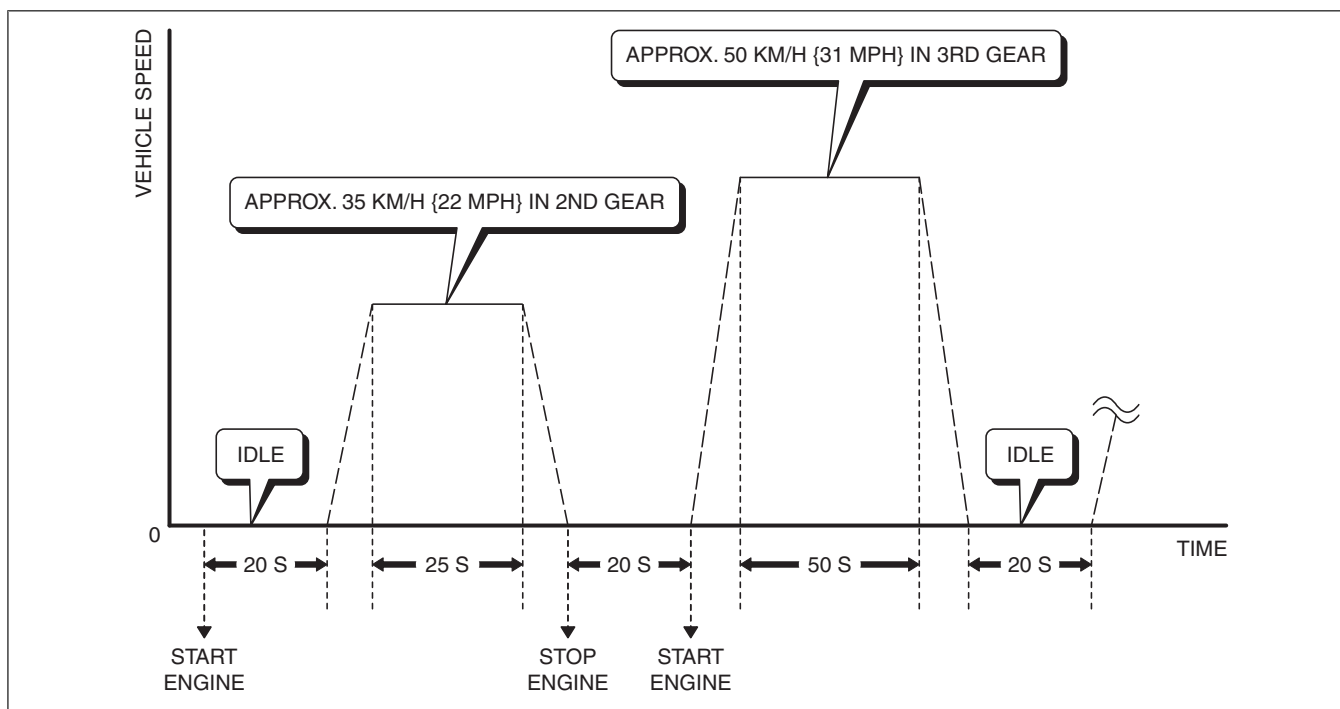
- **While performing the Drive Mode, always operate the vehicle in a safe and lawful manner.**
- **When the M-MDS is used to observe monitor system status while driving, be sure to have another technician with you, or record the data in the M-MDS using the PID/DATA MONITOR AND RECORD function and inspect later.**

Note

- Vehicle speed and engine speed detected by the PCM may differ from that indicated by the speedometer and tachometer. Use the M-MDS to monitor vehicle speed.
- If the OBD system inspection is not completed during the Drive Mode, the following causes are considered:
 - The OBD system detects the malfunction.
 - The Drive Mode procedure is not completed correctly.
- Disconnecting the battery will reset the memory. Do not disconnect the battery during and after Drive Mode.
- The M-MDS can be used at anytime through the course of the Drive Mode to monitor the completion status. Monitoring can be done by viewing the ON BOARD SYSTEM READINESS menu.

Drive Mode Type A

- During the Drive Mode, the following systems are inspected:
 - P0030:00
 - A/F sensor heater control circuit range/performance problem
 - P0087:00
 - Low pressure malfunction in common rail fuel pressure control system
 - P0088:00
 - High pressure malfunction in common rail fuel pressure control system
 - P0089:00
 - High pressure malfunction in common rail fuel pressure control system
 - P0133:00
 - A/F sensor circuit no activity detected
 - P0154:00
 - Atmosphere learning malfunction in A/F sensor circuit
 - P0191:00
 - Fuel pressure sensor circuit range/performance problem
 - P1589:00
 - Intake shutter valve control duty signal error
 - P2002:00
 - Diesel particulate filter function decreased
 - P2263:00
 - Regulating valve control circuit range/performance problem
 - P244A:00
 - Exhaust gas pressure sensor No.2 range/performance problem
 - P2452:00
 - Signal malfunction in exhaust gas pressure sensor No.2
 - P2453:00
 - Pressure malfunction in exhaust gas pressure sensor No.2
 - P2456:00
 - Characteristic malfunction in exhaust gas pressure sensor No.2
 - P24A5:00
 - EGR cooler bypass valve control: EGR cooler bypass valve (stuck)
1. Start the engine and warm it up completely.
 2. Verify all accessory loads (A/C, headlights, blower fan, rear window defroster) are off.
 3. Drive the vehicle **5 times** in the driving mode indicated in the figure on a road with a **0 %** gradient.

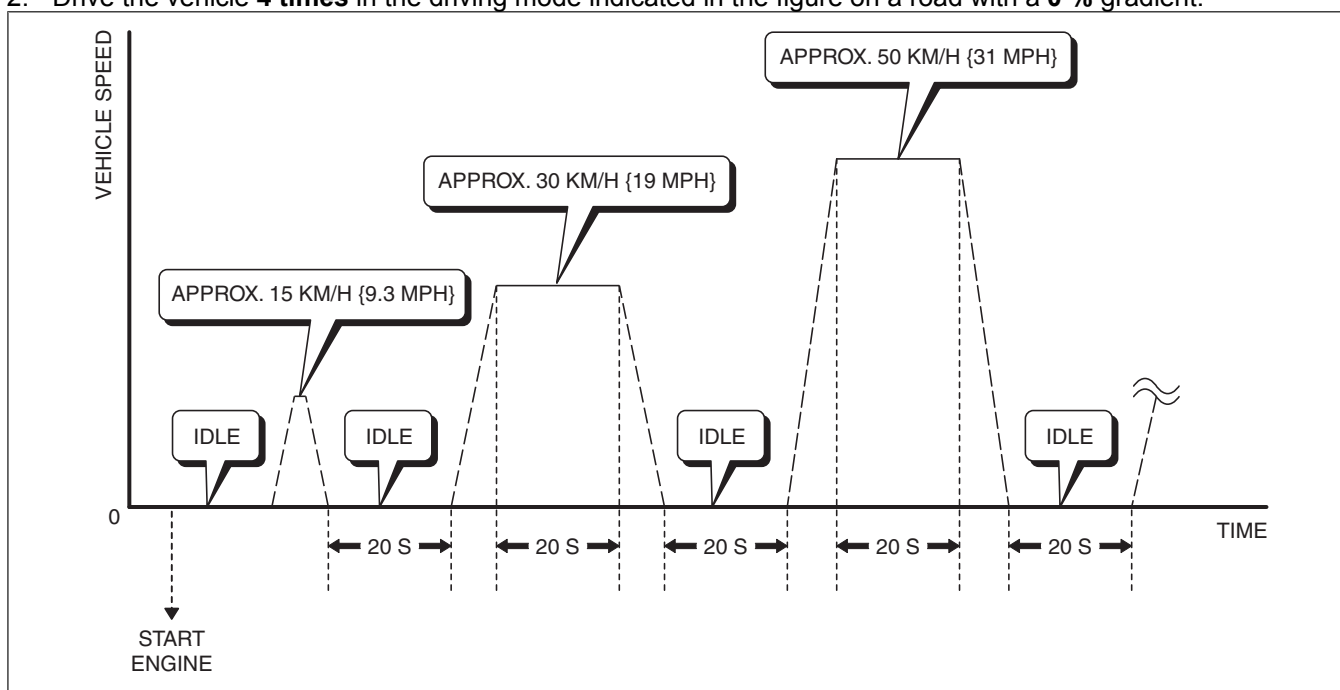


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4. Stop the engine.
5. Verify that no DTCs are displayed.

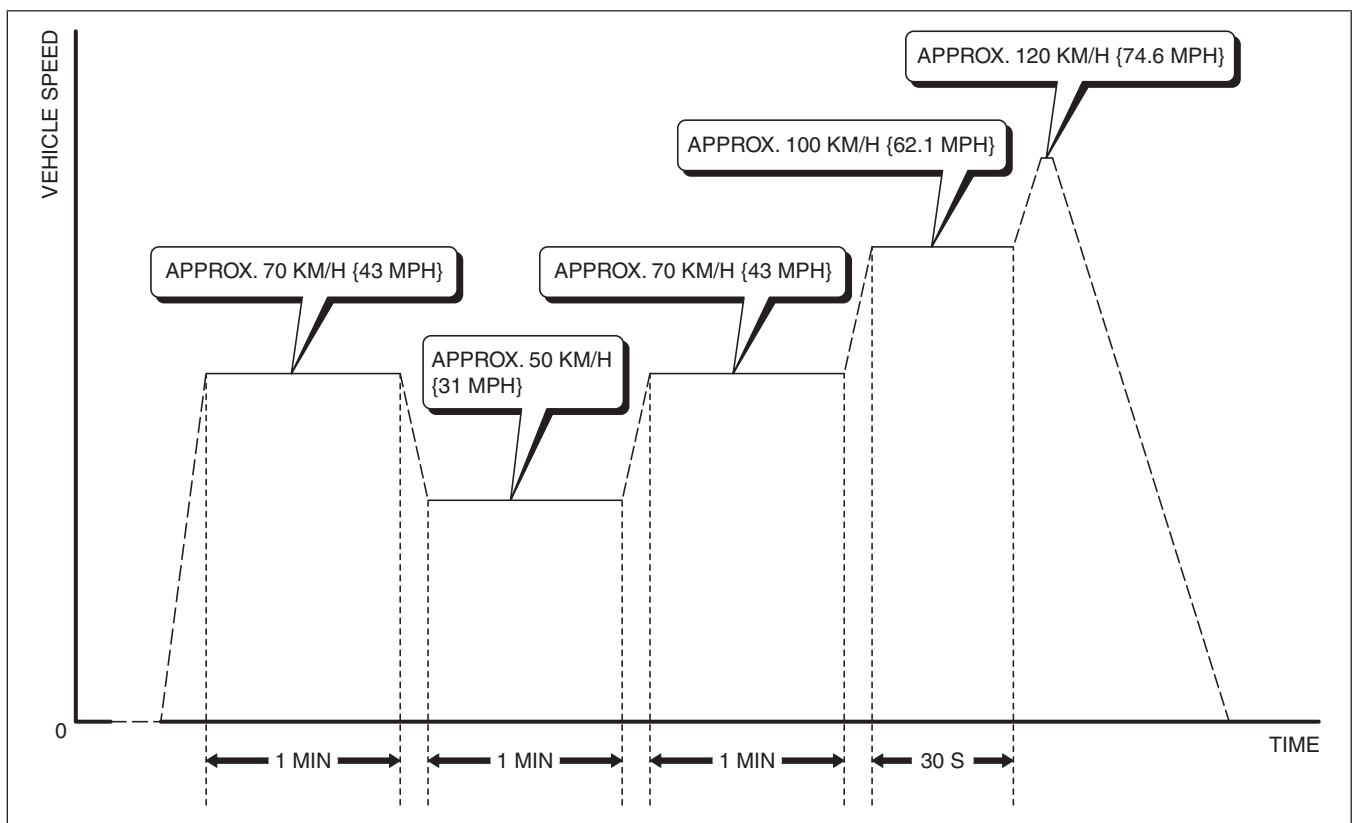
Drive Mode Type B

- During the Drive Mode, the following systems are inspected:
 - P0181:00
 - Fuel temperature sensor circuit range/performance problem
 - P0546:00
 - Exhaust gas temperature sensor No.1 circuit high input
 - P2033:00
 - Exhaust gas temperature sensor No.2 circuit high input
 - P242D:00
 - Exhaust gas temperature sensor No.3 circuit high input
1. Start the engine.
 2. Drive the vehicle **4 times** in the driving mode indicated in the figure on a road with a **0 %** gradient.



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3. Drive the vehicle in the driving mode indicated in the figure on a road with a **0 %** gradient.



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4. Stop the engine.
5. Verify that no DTCs are displayed.