

Resetting The Keep Alive Memory (KAM)

Description

Resetting the KAM returns the PCM memory to its default setting. Adaptive learning contents such as adaptive airflow, idle speed, refueling event, and fuel trim are included. Clearing the continuous diagnostic trouble codes (DTCs) and resetting the emission monitors information in the PCM, is part of a KAM reset. Refer to [Clear The Continuous Diagnostic Trouble Codes \(DTCs\) And Reset The Emission Monitors Information In The Powertrain Control Module \(PCM\)](#) in this section. Both can be useful in post-repair testing.

After the KAM has been reset, the vehicle may exhibit certain driveability concerns. It is necessary to allow the engine to idle at normal operating temperature with the A/C off for 2 minutes. Then drive the vehicle to allow the PCM to learn the values for optimum driveability and performance.

This function may not be supported by all scan tools. Refer to the scan tool manufacturer's instruction manual.

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Scan Tool Setup And Functionality

Connect the scan tool to the data link connector (DLC) for communication with the vehicle.

The DLC is located on the driver side of the vehicle under the steering column. It is attached to the instrument panel and accessible from the driver seat.

The DLC is rectangular in design and capable of accommodating up to 16 pins. The connector has keying features to allow easy connection.

The required scan tool functions are described below:

- monitor, record, and playback of parameter identification (PID)
- freeze frame PID data
- diagnostic test modes; self-test, clear diagnostic trouble codes (DTCs)
- output state control (OSC)
- resetting keep alive memory (KAM)
- diagnostic monitoring test results (mode 6) for on board diagnostic (OBD) monitors
- on board system readiness (OBD monitor completion status)

Some of these functions are described in this section. Refer to the scan tool manufacturer's instruction manual for specific information on scan tool setup and operation.

International Standards Organization (ISO) 14229 DTC Descriptions

The ISO 14229 DTC is a set of common requirements for diagnostic systems. The scan tool displays a failure type and a status type with the DTC. The types display additional information on the scan tool for the condition that set the DTC. For a list of failure type descriptions, refer to Section 1, [Powertrain Control Software](#), International Standards Organization (ISO) 14229 Diagnostic Trouble Code (DTC) Descriptions.

Particulate Filter Manual Regeneration

 **WARNING:** Manual regeneration of the particulate filter causes the exhaust gas to quickly get very hot. Initiate a manual regeneration only when the vehicle is on the ground with the area around the tailpipe free of people, obstructions, foreign material or other items. Failure to follow these instructions may result in serious personal injury.

Customer driving habits may prevent a complete particulate filter regeneration during normal operation. The particulate filter manual regeneration scan tool function may assist in diagnosing a particulate filter concern related to customer driving habits. The particulate filter manual regeneration scan tool function commands the PCM to carry out a particulate filter regeneration. The particulate filter manual regeneration scan tool function requires specific normal operating conditions to initiate. The engine speed may increase during the particulate filter manual regeneration. Refer to the scan tool for additional information.
