
General Information

This feature is an option (sales code XCL) on all Ram Chassis Cabs. It automatically shuts down the engine if the ECM senses that the engine has been idling longer than the programmed time threshold without any operator (driver) activity. From the factory, the time threshold will be set to 5 minutes.

This feature is an option on All chassis cabs. It is NOT available on any pickups.

Operation

Once the vehicle is at idle with the transmission is in park and the service brake released, (not pressed) the engine control module (ECM) will start a timer. Once the timer counts up to the programmed time threshold, the engine will shut off.

There are certain operational parameters that will cause the timer to reset to 0 and start counting up again. These inputs are listed below.

- Service brake pressed.
- Park Brake status change. (pedal press or release)
- PTO engaged.
- SEIU (stationary engine idle up) engaged.
- Adjustable idle speed engaged. (cruise switch idle adjustment)
- Battery voltage too low.

Feature Settings

If sales code XCL is ordered from the factory, the feature will be active when the vehicle is delivered. The timer threshold is programmed from the factory to 5 minutes.

The time threshold can be modified by an authorized dealer using the dealer service tool. (WiTech) There is a routine in the MISCELANEOUS FUNCTIONS tab of the ECM view titled IDLE SHUTDOWN TIMER ADJUSTMENT. For the 6.7L diesel engine, shut down time can be set between 5 and 60 minutes in 5 minute increments. For the 6.4L gas engine it can be set between 0 and 255 minutes in 1 minute increments.

The timer can be turned on and/or off by an authorized dealer using WiTech. There are routines in the MISCELANEOUS FUNCTIONS tab of the ECM view. For the 6.7L diesel engine the enable is in the ENABLE/DISABLE VEHICLE FEATURES routine. Idle shut down timer is one of the features that can be enabled or disabled. For the 6.4L gas engine there is a routine titled ENGINE IDLE SHUTDOWN FEATURE ENABLE/DISABLE.

Ram Chassis Cab Engine Idle Shut Down Timer

Hard Wired Disable

The timer can be temporarily disabled by grounding a circuit in the VSIM. The VSIM signal name is ENGINE SHUTDOWN TIMER DISABLE. It is circuit number W688. It is the DB/GN circuit in the Brown VSIM connector. When W688 is grounded, the shut down timer will pause. The timer will never reach the threshold and the engine will not shut down. Once W688 is ungrounded, the timer will reset to 0 and start to count up again. See the document titled VEHICLE SYSTEM INTERFACE MODULE (VSIM) under the ELECTRICAL WIRING INFORMATION section of the Ram Body Builder's Guide.