Mack Engine Ramps To 1200 RPM From Idle

Internal Content

The truck is likely going through Periodic Heat Mode. This is normal and unless other driver complaints warrant otherwise, no further diagnosis should be performed. If the truck is equipped with a compatible DID (Driver Information Display), a message stating "ATS Conditioning in Progress, No Action Required" may be displayed. See HERE for further information on Periodic Heat Mode.

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Ops Manual Periodic Heat Mode

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Extended Idling and Aftertreatment System Conditioning (Periodic Heat Mode)

Extended idling performed on this vehicle equipped with an exhaust aftertreatment system should be carried out at a low engine idle speed. There is no benefit to using a raised engine idle speed for extended idling. The only exception is for active PTO operation. Utilizing an engine speed above 1300rpm is recommended for vehicles which perform extended idling with an active PTO.

During periods of extended idling, normally greater than 8hrs, the catalyzed DPF system needs to perform a routine conditioning cycle. The conditioning cycle is controlled by the Engine ECU and will start and stop automatically as needed. The ATS conditioning is required to maintain normal exhaust aftertreatment system function and should not be stopped. ATS conditioning will not occur on non-catalyzed DPF systems.

During these events the engine speed will increase to approximately 1050–1400rpm, for non-PTO operation, in order to complete the exhaust aftertreatment conditioning cycle. Exhaust temperatures will also elevate slightly but remain much lower than those reached during regeneration and present no danger.

If a compatible driver display is available a message will be displayed when the conditioning cycle is in progress. The message indicated in the driver's display will be "ATS Conditioning in Progress, No Action Required." If no driver display is available there will be no indication of an ATS conditioning event except for the automatic increase in engine speed.

IF ATS conditioning is unsuccessful and extended idling is continued a yellow lamp will be displayed. If this fault occurs extended idling should be stopped and driving resumed as soon as possible. If a yellow lamp is active and idling is continued a red lamp will be displayed and finally an engine shutdown. In the event that a red lamp is reached during extended idling the vheicle should be serviced to diagnose the problem in the aftertreatment system and inspect the DPF system for damage. Aftertreatment system hardware problems, driver intervention, and certain PTO operations could cause an ATS conditioning to fail.