

Revisions to this document are noted
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SUBJECT: 2013 Cummins ISX12 Causing DTC P2641 in Low Reverse with 5th Generation 4700/4800 Transmission

MODELS AFFECTED: 2013 Cummins ISX12 Equipped Vehicles with 4700/4800 Transmission

Issue:

Some Cummins 2013 ISX12 engine calibrations in combination with Allison Transmission 5th Generation controls and a 4700/4800 model transmissions are getting active Diagnostic Trouble Code (DTC) P2641 at engine idle when selecting Low Reverse. DTC P2641 is caused by an erroneous torque value broadcast from the Cummins ISX12 Engine Control Module (ECM) software, and indicating that the engine is reporting more torque than the requested TCM torque limit strategy for Low Range Torque Protection (LRTP). LRTP is a feature that protects the transmission hardware and output shaft from torques in low ranges that may cause premature wear or damage. When DTC P2641 is active, the Check Trans lamp is active and certain ranges (Low Reverse) are unavailable.

Action:

Take vehicles with this complaint to the local Cummins Engine Company dealer for an ECM calibration update to software/calibration phase PH9.30.0.6 or later. This update became available November 13, 2013. Contact an authorized Cummins Engine Company dealer for this update.



NOTE: The issue outlined in this document is not an Allison Transmission, Inc. defect in material or workmanship. Time and material used to diagnose and/or address this issue by an Allison distributor or dealer will not be compensated by Allison Transmission, Inc. through any warranty or policy claim process.