



STAR ONLINE PUBLICATION



Case Number: S2408000113

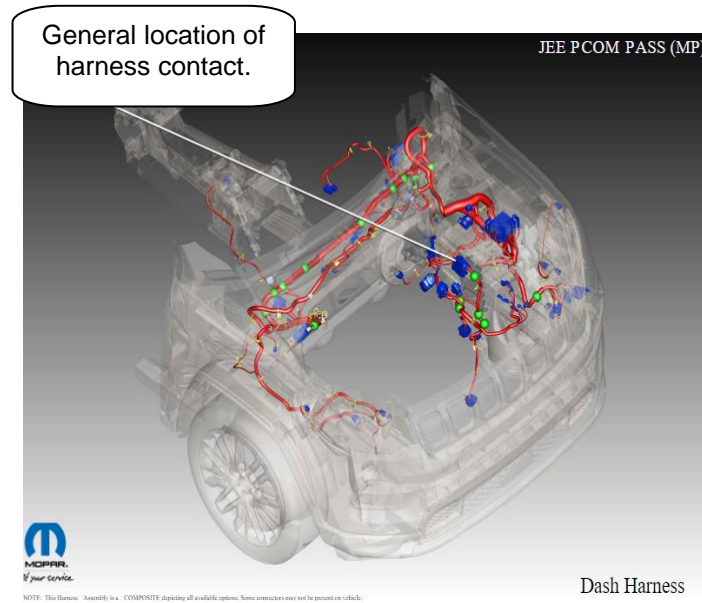
Release Date: October 2024

Symptom/Vehicle Issue: Malfunction Indicator Lamp (MIL) on, Stop Start Inoperative, Electronic Throttle Control (ETC) Lamp Flashes

Customer Complaint/Technician Observation: The customer may complain of one or all of the above issues. The technician may find multiple codes setting in the Powertrain Control (PCM) module that may relate to Diagnostic Trouble Code (DTC) P0652 Sensor Reference Voltage Low.

Discussion: The Powertrain Control Module (PCM) contains two internal 5-Volt Sensor Supply sources; Reference Voltage 1 and Reference Voltage 2. Each of these 5-Volt Supply sources are split internally within the PCM into parallel circuits to provide a 5.0-volt reference to multiple three wire sensors. For self-protection, if the 5-Volt Supply circuit is shorted to ground or if one of the sensors is internally shorted, the PCM will turn off the 5-Volt Supply circuit until the next ignition cycle.

Inspect for the harness routing near the PCM bracket lower mounting stud. Repair and isolate the harness as needed no parts required.



This document does not authorize warranty repairs. This communication documents a record of past experiences. STAR Online does not provide any conclusions about what is wrong with the vehicle. Rather, it captures all previous cases known that appear to be similar or related to the vehicle symptom / condition. You are the expert, and you are responsible for deciding on the appropriate course of action.

Contact STAR Center, or your Technical Assistance Center Via TechConnect, eCONTACT or Service Library entry if no solution is found.