



SSM 52318 2024 F-150 - 3.5L PowerBoost - Illuminated Malfunction Indicator Lamp (MIL) With Diagnostic Trouble Codes (DTCs) P0301-P0306 - Incorrect Cylinder Misfire Detection While The Cold Start Emission Reduction (CSER) Monitor Is Active

Some 2024 F-150 vehicles equipped with a 3.5L PowerBoost may set incorrect cylinder misfire DTCs while the CSER monitor is active. The CSER monitor runs for approximately 3 minutes after a cold soak start-up. If a misfire occurs while the CSER monitor is running, the powertrain control module (PCM) software strategy may set an incorrect cylinder misfire code. Prior to a repair attempt, allow the vehicle to run for at least 3 minutes and verify any individual cylinder misfire codes by performing a Power Balance Test using the Ford Diagnostic and Repair System (FDRS) scan tool. Engineering is currently working on a solution for this condition and will be released via Ford Power-Up software updates delivered over-the-air (OTA) expected in Q3 2024. Software will update automatically if vehicle connectivity is enabled in the vehicle's settings. Schedule a service visit for customers who have disabled vehicle connectivity or who report that they did not receive the update in Q3 2024. Monitor OASIS for additional information.