SPN 191

Suspect Parameter Number (SPN) and Failure Mode Indicator (FMI) Description

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Circuit Description

The engine control module (ECM) compares engine speed and transmission output shaft speed when conditions are met and the torque convertor clutch is engaged. If the difference between the two speeds is greater than a calibrated value the SPN will set.

Conditions to Run SPN

The SPN runs continuously with the ignition ON.

Conditions to Set SPN

SPN 191–19 Transmission Output Shaft Speed Conflict

The ECM detects the difference between the transmission output shaft speed and the engine speed is greater than 200 RPM for 3 seconds with the torque convertor clutch engaged.
Action Taken When SPN Sets

SPN 191–19 Transmission Output Shaft Speed Conflict

- The ECM will turn ON the check engine light (CEL).
- Cruise control is disabled.
- PTO is disabled.
- 191 is a Type A SPN.

Diagnostic Reference

- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.
- Perform the Diagnostic System Check prior to using this diagnostic.
- Test for intermittent or poor connections.
- Review Schematics and Connector End Views to locate test points.
- Review the SPN Type, Indicator Lamp Definitions, and Conditions to Clear the SPN/Indicator Lamp.

Diagnostic Tips

- Test for intermittent or poor connections.
- Slipping/malfunctioning torque convertor clutch may cause SPN to set.
- Slipping/malfunction transmission may cause SPN to set.

Required Tools

- Terminal Test Probe Kit
- Fused Jumper
- Digital Multi-meter
- High Impedance Test Lamp
- Electronic Service Tool
Circuit Diagnostics

WARNING! To prevent bodily injury or death, stay away from hot engine surfaces and rotating engine components.

1. Ignition ON, with an Electronic Service Tool, clear the SPN.

2. Operate the vehicle under the conditions to run the SPN, verify the SPN does not reset.

   ➢ If the SPN sets, refer to the Automatic Transmission Service Manual.

   ➢ If the SPN does not set, All OK.