Technical Service Bulletin

SUBJECT:	No:	TSB-20-13-001
CORRECTION TO DTC P2101: THROTTLE ACTUATOR CONTROL MOTOR MAGNETO MALFUNCTION DIAGNOSIS PROCEDURE - SMR	DATE:	**April 2020**
	MODEL:	**2014-15 Outlander**

CIRCULATE TO:	[ ] GENERAL MANAGER	[ ] PARTS MANAGER	[**X**] TECHNICIAN
[**X**] SERVICE ADVISOR	[**X**] SERVICE MANAGER	[**X**] WARRANTY PROCESSOR	[ ] SALES MANAGER

PURPOSE

This TSB updates the Fuel section of the affected Service Manuals, to correct the DTC P2101: Throttle Actuator Control Motor Magneto Malfunction diagnosis procedure.

AFFECTED VEHICLES

- 2014 - 2015 Outlander

AFFECTED SERVICE MANUAL

- 2014 - 2015 Outlander Service Manuals, Group 13-Fuel

Continued

Please make the indicated changes to the 2014 - 2015 Outlander Service Manuals, Group 13-Fuel:

- Group 13A-Multiport Fuel Injection (MFI) <2.4L Engine> -> Multiport Fuel Injection (MFI) Diagnosis.
- Group 13B-Multiport Fuel Injection (MFI) <3.0L Engine> -> Multiport Fuel Injection (MFI) Diagnosis.

DTC P2101: Throttle Actuator Control Motor Magneto Malfunction

CIRCUIT OPERATION
- Controls the current that is applied from ECM terminals ETV+, ETV- to the throttle actuator control motor

TECHNICAL DESCRIPTION
- ECM check whether the throttle actuator control motor magneto has failed.

DESCRIPTIONS OF MONITOR METHODS
Throttle actuator control motor intelligent power device detects shorted-high/low and overheat of itself.

MONITOR EXECUTION
Continuous

MONITOR EXECUTION CONDITIONS (Other monitor and Sensor)

Other Monitor (There is no temporary DTC stored in memory for the item monitored below)
- Not applicable

Sensor (The sensor below is determined to be normal)
- Not applicable

DTC SET CONDITIONS

Check Condition
- Battery positive voltage is higher than 8.3 volts.

Judgment Criterion
- The coil current of the throttle actuator control motor is 8 ampere or more for 0.3 second.

FAIL-SAFE AND BACKUP FUNCTION
- Throttle opening degree position is in default position.

OBD-II DRIVE CYCLE PATTERN
- None.

TROUBLESHOOTING HINTS (The most likely causes for this code to be stored are:)
- Throttle actuator control motor failed.
- Shorted throttle actuator control motor circuit, harness damage, or connector damage.
- ECM failed.

DIAGNOSIS

Required Special Tools:
- MB992744: Vehicle Communication Interface-Lite (V.C.I.-Lite)
- MB992745: V.C.I.-Lite Main Harness A
- MB992747: V.C.I.-Lite USB Cable Short
- MB992748: V.C.I.-Lite USB Cable Long
- MB991958: Scan Tool (M.U.T.-III Sub Assembly)
  - MB991824: Vehicles Communication Interface (V.C.I.)
  - MB991827: M.U.T.-III USB Cable
  - MB991910: M.U.T.-III Main Harness A (Vehicles with CAN communication system)

STEP 1. Check the throttle actuator control motor.

<Incorrect>
(1) Disconnect the throttle body assembly connector and measure at throttle body assembly side.
(2) Measure the resistance between throttle actuator control motor side connector terminal ETV line and ETV line.

Standard value: 0.3 – 100 ohms [at 20°C (68°F)]

Q: Is the measured resistance between 0.3 and 100 ohms [at 20°C (68°F)]?

YES : Go to Step 2.

NO : Replace the throttle body assembly. Then go to Step 5.

<Correct> Refer to "Throttle Actuator Control Motor Check."