



NUMBER: 05-001-20

GROUP: 05 - Brakes

DATE: October 2, 2020

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SUBJECT:

Replacement of Front and Rear Wheel Speed Sensors Due to Oxidation or Water Intrusion Setting Diagnostic Trouble Codes (DTCs)

OVERVIEW:

This bulletin involves replacing all four wheel speed sensors due to oxidation or water intrusion into the sensor.

MODELS:

2018 - 2020	(B1)	Jeep Renegade
2018 - 2020	(M1)	Jeep Compass

NOTE: This bulletin applies to vehicles within the following markets/countries: LATAM.

NOTE: This bulletin applies to B1 vehicles built on or before July 31, 2019 (MDH 0731XX).

NOTE: This bulletin applies to M1 vehicles built on or before July 31, 2019 (MDH 0731XX) equipped without either Parallel & Perpendicular Park Assist ((Sales Code XAU) or Adaptive Cruise Control W/Stop & Go (Sales Code NHZ).

SYMPTOM/CONDITION:

Customers may experience a Malfunction Indicator Lamp (MIL) illumination. Upon further investigation the technician may find one or more of the following Diagnostic Trouble Codes (DTCs).

B1 vehicles may have the following DTCs:

- C0031-01 - Left front speed sensor - General electrical failure.
- C0031-29 - Left front speed sensor - Invalid signal.
- C0034-01 - Right front speed sensor - General electrical failure.
- C0034-29 - Right front speed sensor - Invalid signal.
- C0037-01 - Left rear speed sensor - General electrical failure.
- C0037-29 - Left rear speed sensor - Invalid signal.
- C003A-01 - Right rear speed sensor - General electrical failure.
- C003A-29 - Right rear speed sensor - Invalid signal.

M1 vehicles may have the following DTCs:

- C0031-1D - Left Front Wheel Speed Sensor-Circuit Current Out of Range.
- C0034-1D - Right Front Wheel Speed Sensor-Circuit Current Out of Range.
- C0037-1D - Left Rear Wheel Speed Sensor-Circuit Current Out of Range.
- C003A-1D - Right Rear Wheel Speed Sensor-Circuit Current Out of Range.
- C0031-62 - Left Front Wheel Speed Sensor-Signal Compare Failure.
- C0034-62 - Right Front Wheel Speed Sensor-Signal Compare Failure.
- C0037-62 - Left Rear Wheel Speed Sensor-Signal Compare Failure.
- C003A-62 - Right Rear Wheel Speed Sensor-Signal Compare Failure.
- C0031-2F - Left Front Wheel Speed Sensor-Signal Erratic.

- C0034-2F - Right Front Wheel Speed Sensor-Signal Erratic.
- C0037-2F - Left Rear Wheel Speed Sensor-Signal Erratic.
- C003A-2F - Right Rear Wheel Speed Sensor-Signal Erratic.

DIAGNOSIS:

If the customer describes the symptom/condition listed above or if the technician finds the DTC, perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
2	68430134AA (MOPAR) 53475747 (LATAM)	Sensor, Front Wheel Speed
2	68253916AC (MOPAR) 53479013 (LATAM)	Sensor, Rear Wheel Speed

REPAIR PROCEDURE:

1. Remove and replace the front wheel speed sensors. Refer to the detailed service procedures available in DealerConnect> Service Library under: Service Info> 05 - Brakes / 05 - Brakes, ABS / Electrical / Sensor, Wheel Speed, Front / Removal and Installation.
2. Remove and replace the rear wheel speed sensors. Refer to the detailed service procedures available in DealerConnect> Service Library under: Service Info> 05 - Brakes / 05 - Brakes, ABS / Electrical / Sensor, Wheel Speed, Rear / Removal and Installation.
3. Clear all DTCs that may have been set prior to the wheel speed sensors replacement. The wiTECH application will automatically present all DTCs and allow them to be cleared.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Skill Category	Amount
08-14-18-9F	Sensor, All Four Wheel Speed Sensors - Replace (1 - Semi-Skilled)	6 - Electrical and Body Systems	1.1 Hrs.

FAILURE CODE:

ZZ	Service Action
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