

Component Procedures: Wheel Speed Sensor

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Component Procedures: Wheel Speed Sensor

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Rear Speed Sensor	92199862	Rear Speed Sensor	30.88	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Anti-Lock Brakes > Front Speed Sensor, R&R > ?	B	0.5	0.3
Remove & Replace	Anti-Lock Brakes > Rear Speed Sensor, R&R > O?	B	0.5	0.3

Wheel Speed Sensor Reluctor Ring Cleaning and Inspection (Article 10581)

Inspection and Cleaning

- Perform the necessary steps to gain access to the magnetic encoder ring located within the wheel bearing assemblies.
- Inspect the magnetic encoder ring (1) for possible foreign debris (2). Click for full-size image
- If foreign debris is found, perform the following steps to remove all possible foreign debris:
 - Gently using a dry nylon soft bristle brush, remove the foreign debris (2) off the magnetic encoder ring (1). If foreign debris (2) was removed, proceed to step 3.2.
 - If foreign debris (2) still remains, wash the magnetic encoder ring (1) using a mild soap detergent and wipe dry.

After Cleaning

- Verify the magnetic encoder ring (1) is clear of foreign debris. Click for full-size image
- Install the components that were removed for inspection and cleaning.
- Connect a scan tool to the vehicle.
- Turn ON the ignition.
- Clear the DTCs.
- Verify the repair and check for proper communication.
- If problem is still found, replace the appropriate wheel bearing assembly.

Front Wheel Speed Sensor Replacement (Article 10575)

Removal Procedure

- From inside the engine compartment, disconnect the front wheel sensor electrical connector (1). Click for full-size image
- Release the wheel speed sensor electrical connector retainer from the inner wheel house panel.
- Feed the wheel speed sensor electrical connector and harness through the wheel house panel closeout.
- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .
- Release the wheel speed sensor wire harness retainer (1) from the outer wheel house panel. Click for full-size image
- Release the wheel speed sensor wire harness from the front suspension strut (2).
- Clean the wheel speed sensor area on the steering knuckle of any accumulated dirt and debris. Click for full-size image
- Remove the wheel speed sensor bolt (1).
- Remove the wheel speed sensor assembly from the steering knuckle by pulling straight out.

Installation Procedure

- Install the wheel speed sensor assembly to the steering knuckle. Click for full-size image
- Install the wheel speed sensor bolt (1) and tighten to 9 Nm (80 lb in) .
- Secure the wheel speed sensor wire harness retainer (1) to the outer wheel house panel. Click for full-size image
- Secure the wheel speed sensor wire harness to the front suspension strut (2).
- Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .
- Lower the vehicle.
- From inside the engine compartment, connect the front wheel sensor electrical connector (1). Click for full-size image
- Secure the wheel speed sensor electrical connector retainer to the inner wheel house panel.

Rear Wheel Speed Sensor Replacement (Article 10576)

Removal Procedure

- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle . Click for full-size image
- Remove the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .
- Disconnect the rear wheel sensor electrical connector (1).
- Release the wheel speed sensor wire harness retainers (1) from the rear suspension tie bar. Click for full-size image
- Release the wheel speed sensor wire harness from the vehicle underbody (2).
- Clean the wheel speed sensor area on the suspension knuckle of any accumulated dirt and debris. Click for full-size image
- Remove the wheel speed sensor bolt (1).
- Remove the wheel speed sensor assembly from the suspension knuckle by pulling straight out.

Installation Procedure

- Install the wheel speed sensor assembly to the suspension knuckle. Click for full-size image
- Install the wheel speed sensor bolt (1) and tighten to 9 Nm (80 lb in) .
- Connect the rear wheel speed sensor electrical connector (1). Click for full-size image
- Install the tire and wheel assembly. Refer to Tire and Wheel Removal and Installation .

All New Technical Service Bulletins (itype_432)

Tsbs

- Multiple U-code Diagnostic Information – With one having symptom Byte 71 (PIT5569C, 2024/09/06)

All Technical Service Bulletins (itype_100)

Tsbs

- Multiple U-code Diagnostic Information – With one having symptom Byte 71 (PIT5569C, 2024/09/06)
- Ratchet Click or Grind Noise From Front of Vehicle Slow Speeds (16-NA-298, 2016/09/13)

Customer Interest Bulletins (itype_109)

Tsbs

- Ratchet Click or Grind Noise From Front of Vehicle Slow Speeds (16-NA-298, 2016/09/13)

Noise (itype_156)

Tsbs

- Ratchet Click or Grind Noise From Front of Vehicle Slow Speeds (16-NA-298, 2016/09/13)