Component Procedures: Wheels

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Component Procedures: Wheels

Parts and Labor (itype_189)

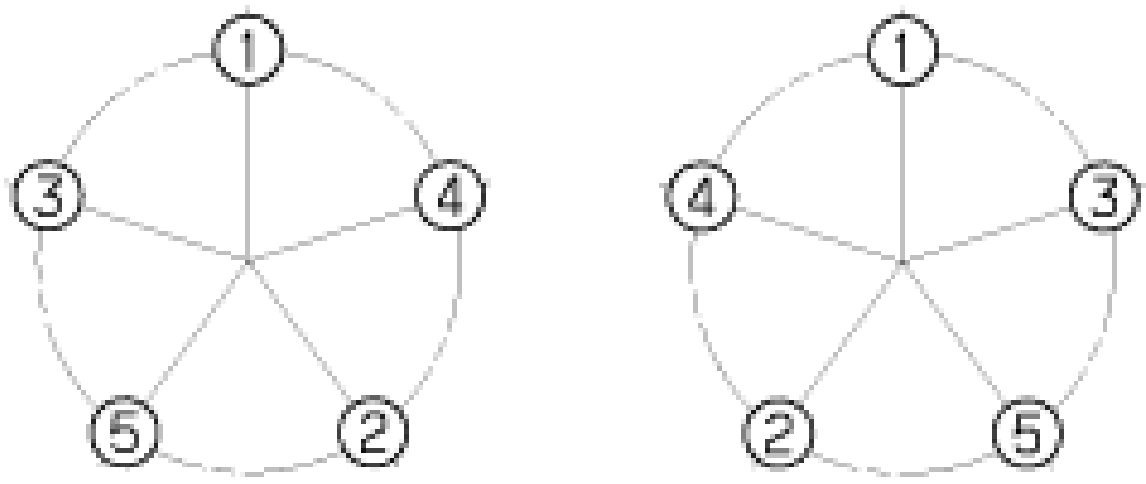
Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Chassis & Wheels > Wheels, R&R > Each	C	0.5	0.0
Balance	Chassis & Wheels > Wheels, Balance > One	C	0.3	0.0
Balance	Chassis & Wheels > Wheels, Balance > Each Add?	C	0.2	0.0
Rotate	Chassis & Wheels > Wheels, Rotate > 4 Wheels	C	0.4	0.0
Rotate	Chassis & Wheels > Wheels, Rotate > 4 Wheels ?		0.1	

Wheel - Repair Procedures (Article 44291)

- Hub nut tightening sequence

- Tighten the hub nuts as follows. Tightening torque : 107.9 - 127.5 N.m (11.0 - 13.0 kgf.m, 79.6 - 94.0 lb-ft) When using an impact gun, final tightening torque should be checked using a torque wrench. If the vehicle starts within 19 minutes after the replacement of the wheel of the stopped vehicle, the TPMS Malfunction Indicator on the instrument cluster illuminates. The above symptom is due to communication failure between the BCM and the replaced TPMS ID. This communication failure indicator turns off in 19 minutes after the vehicle stops through the BCM’s automatic learning process of TPMS ID. (When driving the vehicle after stopping for over 19 minutes, the indicator turns off automatically.)



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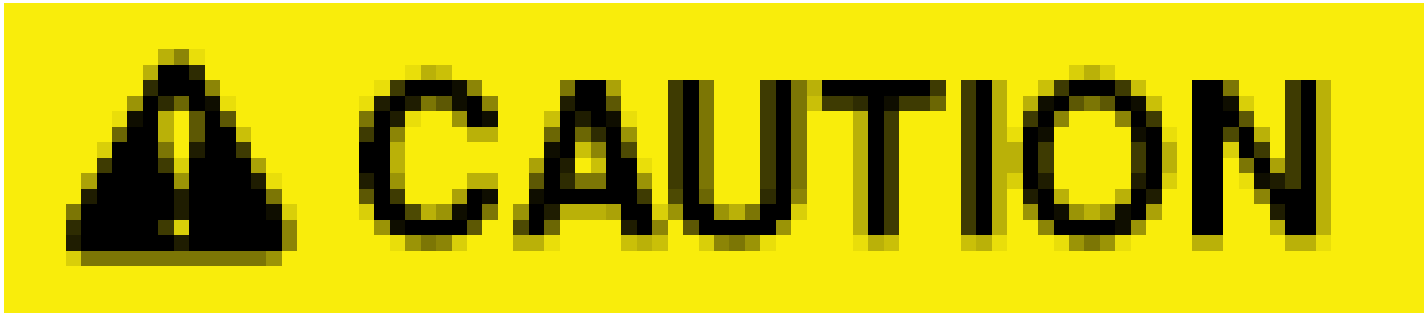


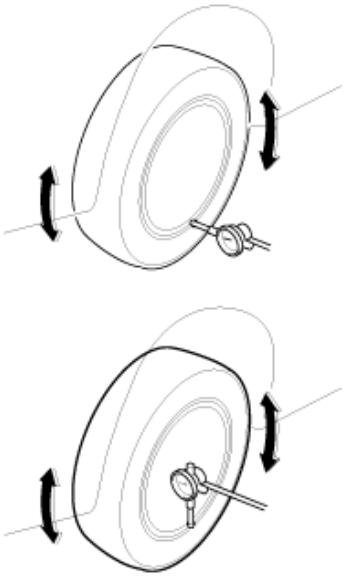
- The above symptom is due to communication failure between the BCM and the replaced TPMS ID.
- This communication failure indicator turns off in 19 minutes after the vehicle stops through the BCM's automatic learning process of TPMS ID. (When driving the vehicle after stopping for over 19 minutes, the indicator turns off automatically.)

Run out inspection

- Jack up the vehicle.
- Measure the wheel Run-out by using a dial indicator as illustration below. Run-out Aluminum Radial mm(in.) Below 0.3(0.0118) Lateral mm(in.) Below 0.3(0.0118)

Run-out Aluminum
Radial mm(in.) Below 0.3(0.0118)
Lateral mm(in.) Below 0.3(0.0118)

- If measured value exceeds the standard value, replace the wheel.



All New Technical Service Bulletins (itype_432)

Tsbs

- WHEEL/TIRE VIBRATION – BALANCE AND RADIAL FORCE VARIATION (RFV) SERVICE PROCEDURES (25-SS-002H-1, 2025/06/30)

All Technical Service Bulletins (itype_100)

Tsbs

- WHEEL CARE: RECOMMENDED CLEANING PROCEDURE AND CLEANING AGENTS (20-SS-005H, 2020/12/15)
- WHEEL/TIRE VIBRATION – BALANCE AND RADIAL FORCE VARIATION (RFV) SERVICE PROCEDURES (25-SS-002H-1, 2025/06/30)

Vibration (itype_176)

Tsbs

- WHEEL/TIRE VIBRATION – BALANCE AND RADIAL FORCE VARIATION (RFV) SERVICE PROCEDURES (25-SS-002H-1, 2025/06/30)

OEM Policies and Procedures (itype_120)

Tsbs

- WHEEL CARE: RECOMMENDED CLEANING PROCEDURE AND CLEANING AGENTS (20-SS-005H, 2020/12/15)

Tools and Equipment (itype_113)

Tsbs

- WHEEL/TIRE VIBRATION – BALANCE AND RADIAL FORCE VARIATION (RFV) SERVICE PROCEDURES (25-SS-002H-1, 2025/06/30)