

Steel Wheel

WHEEL AND TIRE SYSTEM

3. Steel Wheel

A: REMOVAL

- 1) Apply the parking brake, and position the select lever to "P" or "LOW".
- 2) Set the shop jacks or a lift to specified point, and support the vehicle with its wheels slightly contacting the floor.
- 3) Loosen the wheel nuts.
- 4) Raise the vehicle until its wheels take off the ground using a jack or a lift.
- 5) Remove the wheel nuts and wheels.

NOTE:

- When removing the wheels, prevent hub bolts from damage.
- Place the wheels with their outer sides facing upward to prevent wheels from damage.

B: INSTALLATION

- 1) Remove dirt from the mating surface of wheel and brake rotor.
- 2) Attach the wheel to the hub by aligning the wheel bolt hole with the hub bolt.
- 3) Temporarily attach the wheel nuts to the hub bolts. (In the case of aluminum wheel, use SUBARU genuine wheel nut for aluminum wheel.)
- 4) Manually tighten the nuts making sure the wheel hub hole is aligned correctly to the guide portion of hub.
- 5) Tighten the wheel nuts in a diagonal selection to the specified torque. Use a wheel nut wrench.

Wheel nut tightening torque:

110 N·m (11.2 kgf·m, 81.1 ft·lb)

CAUTION:

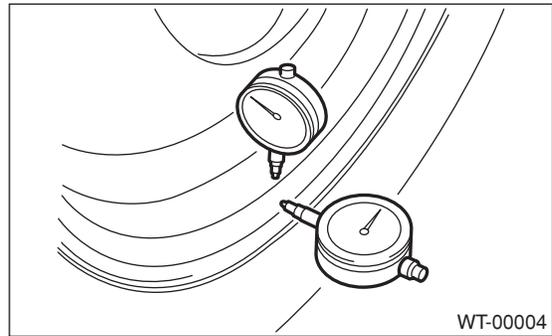
- Tighten the wheel nuts in two or three steps by gradually increasing the torque and working diagonally, until they reach the specified torque.
- Do not depress the wrench with foot. Always use both hands when tightening.
- Make sure the bolt, nut and the nut seating surface of the wheel are free from oil.

- 6) If a wheel is removed for replacement or for repair of a puncture, retighten the wheel nuts to the specified torque after running 1,000 km (600 miles).

C: INSPECTION

- 1) Deformation or damage on the rim may cause air leakage. Check the rim flange for deformation, crack or damage, and repair or replace as necessary.
- 2) Jack-up the vehicle until wheels clear the floor.

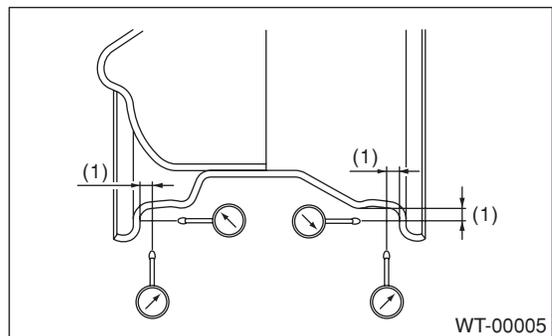
- 3) Slowly rotate the wheel to check rim "runout" using a dial gauge.



Rim runout:

Axial runout limit	Radial runout limit
1.5 mm (0.059 in)	

- 4) If the rim runout exceeds specifications, remove the tire from wheel and check runout while attaching the dial gauge to positions shown in the figure.



(1) Approx. 7 mm (0.28 in)

- 5) If the measured runout still exceeds specifications, replace the wheel.