
TIRE AND WHEEL

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GENERAL INFORMATION

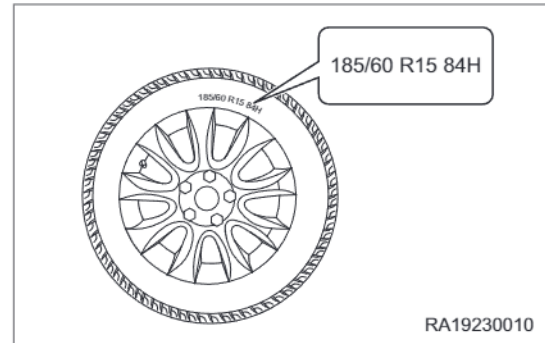
Precautions

- Use the tires as same as standard specification and type, because they have excellent reliability and skid resistance. Non-standard tire may lead to vehicle malfunction, causing accident or even serious injury and death.
- The contact surface between rim and tire should be cleaned before installing a new tire.
- When installing the wheel bolts, firstly, pre-tighten the bolts by hand, and then tighten them to the specified torque with a wrench.
- Do not apply grease to the wheel bolts.
- Some bad driving habits will shorten the tire life:
 - Rapid acceleration
 - Sudden braking
 - High-speed driving
 - High-speed turning
 - Striking curbs or other obstacles
 - Too high or too low tire pressure when driving vehicle

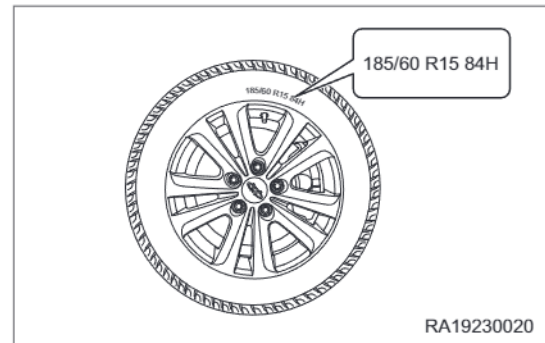
Tire Identification

- Letter number code of tire type, size, load index and speed level are stamped on the side wall of tire as shown in the illustration.

Steel rim tire: 185/60 R15 84H



Aluminum rim tire: 185/60 R15 84H



Specifications

Torque Specification

Description	Torque (N·m)
Wheel Mounting Bolt	110 ± 10

Tire Type

Description	Parameter
Tire Type	185/60 R15 84H

Rim Type

Description	Parameter
Rim Type (Steel Rim)	15 × 6J
Rim Type (Aluminum Rim)	15 × 5.5J

Tire Pressure Specifications of Cold Tire

Description	Pressure (kPa)
Front Tire (Unloaded)	230
Rear Tire (Unloaded)	220
Spare Tire	250

DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

Use the table below to help determine the cause of problem symptoms. Check each suspected area in sequence. Repair or replace the faulty components, or adjust them as necessary.

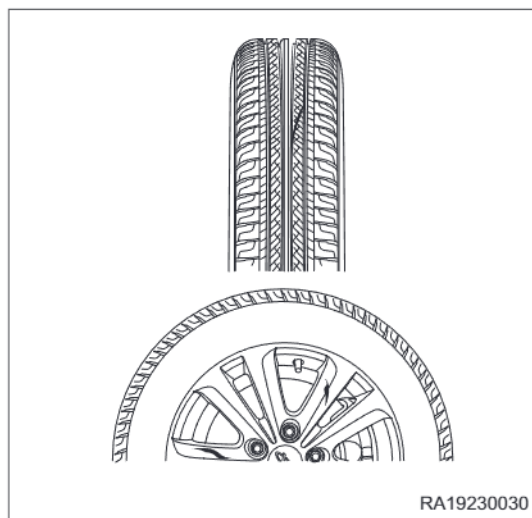
Symptom	Suspected Area	See page
Wear on one side of tire	Wheel alignment (wrong)	22-40
Wear on both sides of tire	Tire pressure (insufficient)	23-8
Tire center wear	Tire pressure (excessive)	23-8
Serrated wear	Wheel alignment (wrong)	22-40
Severe wear of some area of tire	Brake (too hard)	-
Scratches on side wall of tire	Sharp objects on road (scratched)	23-8
Excessive tire noise	Tire pressure (incorrect)	23-8
	Tire (worn)	23-8

Inspection

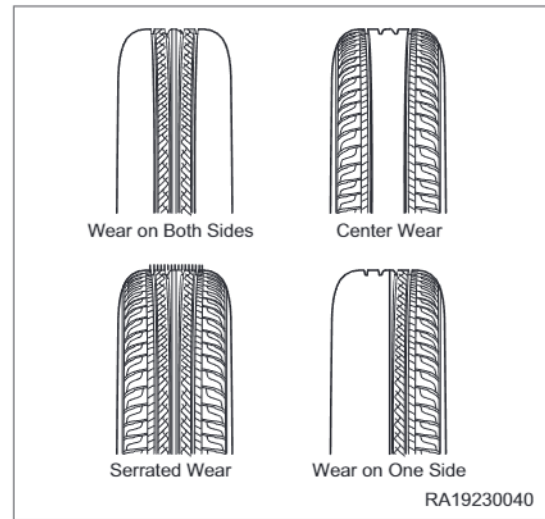
CAUTION

- Be sure to refer to the instruction when installing non-standard tires and rims.
- Use the tires as same as standard specification and type.

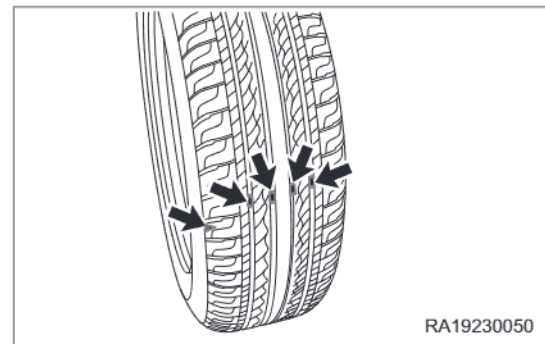
1. Check if tires are damaged or scratched as shown in the illustration.
2. Check if rims are damaged or scratched as shown in the illustration.



3. Check if tires are worn abnormally as shown in the illustration.



4. Check the tread wear indicators (arrow) as shown in the illustration. When tires are worn to the indicating mark, replace them.



5. Use tire pressure gauge to check if the pressures of all tires (including spare tire) are normal. Inflate tires to specified tire pressure as necessary.
6. Check the air cock for leakage.

ON-VEHICLE SERVICE

Tire Replacement

⚠ WARNING

- The speed level of new replaced tire must meet the specified values for safe operation; otherwise, the tire may blow out.

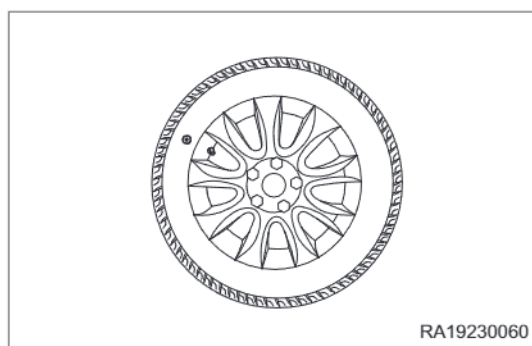
- Remove the wheel (See page 23-10).
- Use a tire remover to remove the tires according to the instructions.

👁 CAUTION

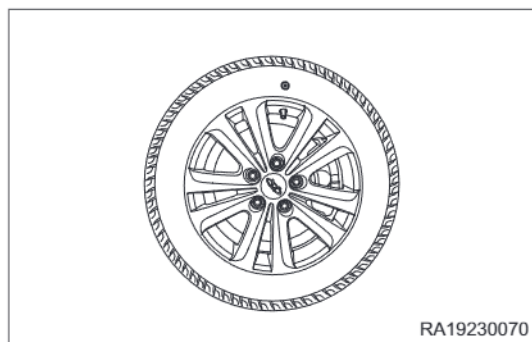
- Before installing the air cock, check if the air cock hole of wheel is smooth without any burrs, and apply glycerin on the air cock rubber surface or soak the air cock in the glycerin fluid, and then using a special tool to pull or press the locating ring of air cock with a force of 200 - 400 N, to pass it through the air cock hole and install it into place (it is possible to use soapy water instead of glycerin).
- Apply glycerin or soapy water around the tire before assembling it.
- When there is "dark point" mark on the rim, align the dynamic balance testing mark (white dot, namely light point) on the tire with the "dark point" mark on the rim.
- When there is no "dark point" mark on the rim, align the dynamic balance testing mark on the tire with the air cock.
- When there is no "dark point" mark on the rim, and no dynamic balance testing mark but static balance testing mark on the tire, align the air cock with the static balance testing mark.

- The white dot on tire edge must be aligned with the air cock on the rim when installing the tires as shown in the illustration.

Steel rim tire:



Aluminum rim tire:



4. Adjust the tire pressure to the specified value.

CAUTION

- Be sure to inflate the tires as specified air pressure. The maximum air pressure cannot exceed 10% of the rated air pressure during inflating the tire.
- Please replace the tire with standard one of same size and type.

5. Check the air cock and tire & rim contact surface for leakage.

6. Using a dynamic balancer, adjust the wheel balance ([See page 23-12](#)).

7. Install the wheel ([See page 23-10](#)).

(Tightening torque: 110 ± 10 N·m)

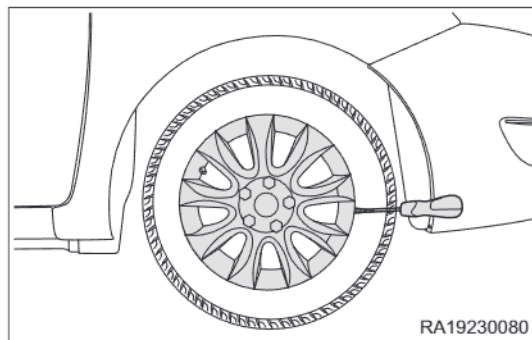
CAUTION

- Avoid scratching the tires and rims when removing the tires.
- The tire & rim contact surface should be cleaned when installing the tires.

Wheel

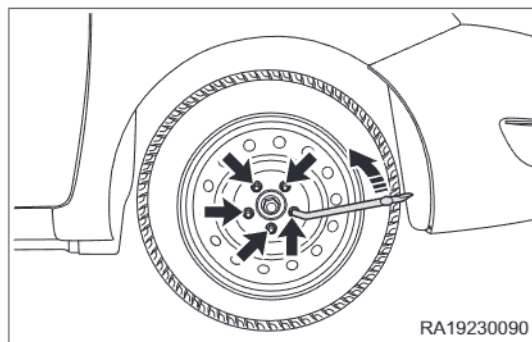
Removal

1. Remove the wheel.
 - a. Stop the vehicle on a level surface and apply parking brake.
 - b. Steel rim tire: using a screwdriver wrapped with tape, carefully pry off the wheel trim cover.

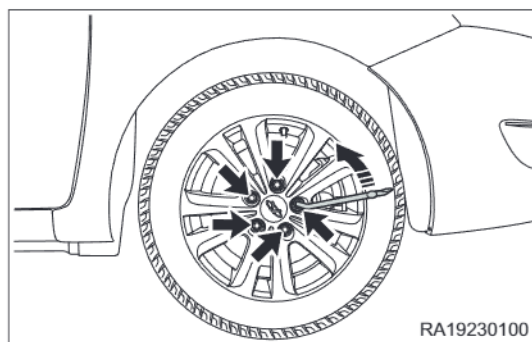


- c. Using a tire wrench, loosen the wheel mounting bolts.
 - d. Firmly support and raise the vehicle to the proper height.
 - e. Using a tire wrench, remove 5 wheel mounting bolts.

Steel rim tire:



Aluminum rim tire:



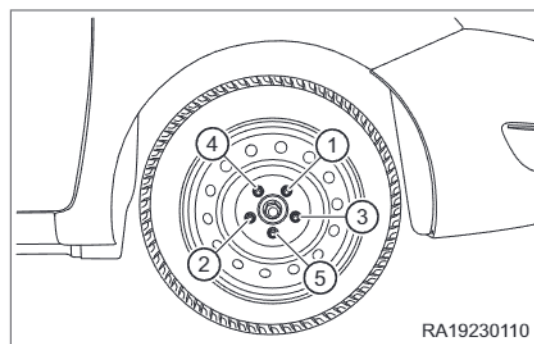
- f. Remove the wheel.

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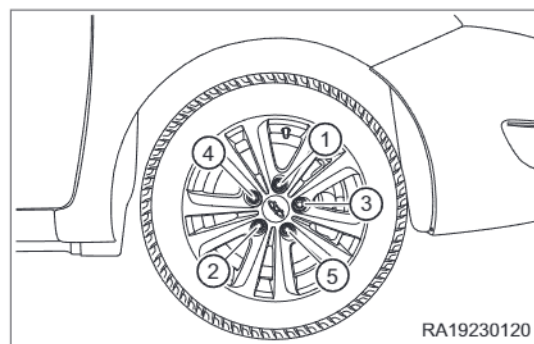
Installation

1. Install the wheel.
 - a. Anticorrosion treatment is conducted on the contact surface between wheel and brake disc.
 - b. Install the wheel and pre-tighten the wheel mounting bolts by hand.
 - c. Using a torque wrench, tighten the wheel mounting bolts evenly to the specified torque in the order shown in the illustration.
(Tightening torque: $110 \pm 10 \text{ N}\cdot\text{m}$)

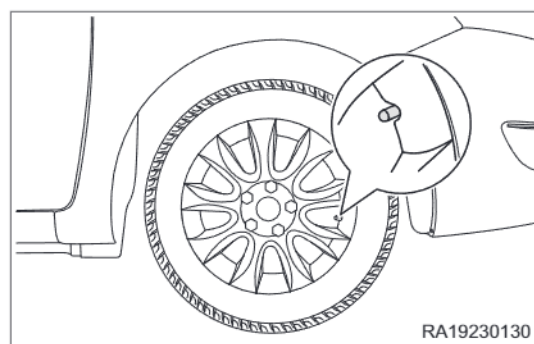
Steel rim tire:



Aluminum rim tire:



- d. Steel rim tire: align the groove of wheel trim cover with the air cock and install the wheel trim cover in place.



CAUTION

- DO NOT attempt to repair wheels by striking, heating or welding.
- Replace wheel mounting bolts with the special wheel mounting bolts, rather than those with different specifications or inferior quality.
- Be careful not to damage the coating on the wheel.
- To avoid damage to the tire or over/under tightening the mounting bolts, never use an impact wrench.
- DO NOT apply grease to the tire mounting bolts.
- To ensure the wheel mounting bolts are tightened in place, the wheel mounting bolts should be tightened after driving 100 km at the first time.

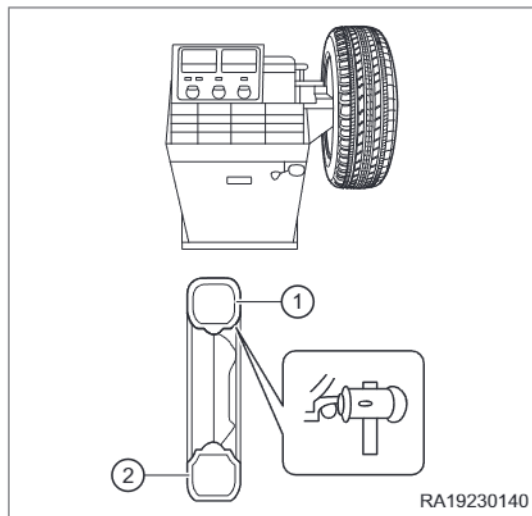
Wheel Balance

Adjustment

CAUTION

- The dynamic balancer must be calibrated before adjusting wheel balance.
- Remove impurities inside the tread pattern and original balance blocks to ensure the wheel balance.

1. Remove the wheel (See page 23-10).
2. Adjust tire pressure to the specified value.
3. Install the wheel to the balancer with the balance block removed. Install the balance shaft with mounting surface of wheel facing inward, choose a suitable taper body, and firmly lock the wheels using a locking device (align the taper body with the center hole, otherwise data may be incorrect).
4. Turn on the power source of balancer, and input parameters such as the measured distance from rim to balancer, rim width and rim diameter.
5. Put down the wheel protector, and proceed to balance test procedure automatically (start button should be pushed for some balancers). When the measurement is completed, the unbalanced weight for both sides of tire will be displayed on the balancer automatically, and the wheel brakes automatically until it stops. Do not open the protector before stopping. Failure to do this may lead to accident.
6. According to the measurement result, corresponding balance blocks should be installed on the outside (1) and inside (2) of rim edge as shown in the illustration.



7. Perform the test again after assembly is completed, until the balancer displays 0.
8. After dynamic balance is completed, remove the wheel.

CAUTION

- When installing balance blocks, the final assembly unbalanced degree should be less than 100 g·cm, which means the balance allowance of the inside and outside rim edges should be less than 10 g and the distance between installation position of the balance blocks and dynamic balancer testing position should not exceed ± 30 mm.
- Only one balance block should be used on each side of each wheel, and the maximum weight for one side should be less than 65 g.
- DO NOT tap the balance blocks forcibly when installing them in order to prevent the balance blocks from deforming.
- DO NOT reuse the deformed balance blocks. Replace them in time.

Tire Rotation

Description

Front and rear tires operate at different loads and perform different steering, driving and braking functions. For these reasons, different wear rate is formed, causing irregular wear patterns. These effects can be reduced by rotating the tires at regular time.

Advantages of tire rotation:

- Improving tread life
- Maintaining traction levels
- Maintaining a smooth and quiet ride

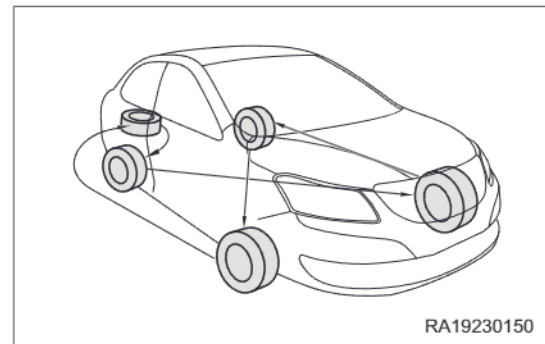
CAUTION

- Chery recommends you rotate your tires every 10000 km. However, the best suitable time for tire rotation differs depending on driver's driving habits and road conditions.

Rotation Method

The suggested method of tire rotation is as shown in the illustration.

Steel rim tire:



Aluminum rim tire:

