

TIRE AND WHEEL

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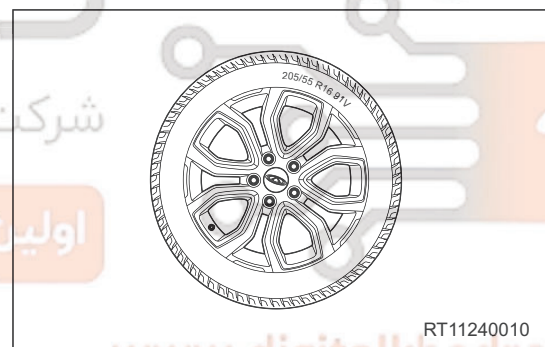
GENERAL INFORMATION

Precautions

- Only use tires with standard specification and type, because they have excellent reliability and grip performance. Using a non-standard tire may lead to vehicle malfunction, which may cause an accident, resulting in serious injury or even death.
- Contact surface between rim and tire should be cleaned before installing a new tire.
- When installing wheel bolts, first pre-tighten the bolts by hand, and then tighten them to the specified torque with a torque wrench.
- Do not apply grease to wheel bolts.
- Some bad driving habits may shorten the tire life:
 - Rapid acceleration
 - Depressing brake pedal suddenly and firmly
 - High-speed driving
 - Turning at excessive speed
 - Striking curbs or other obstacles
 - Excessive tire pressure when driving vehicle

Tire Identification

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



Specifications

Torque Specifications

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

Tire Type

Description	Parameter
Tire Type	205 /55 R16 91V

Rim Type

Description	Parameter
Wheel Mounting Bolt	16 × 6.5J

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Cold Tire Pressure Specifications

Description	Pressure (kPa)
Front Tire (Unloaded)	230
Rear Tire (Unloaded)	220
Spare Tire	420

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DIAGNOSIS & TESTING

Problem Symptoms Table

HINT:

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

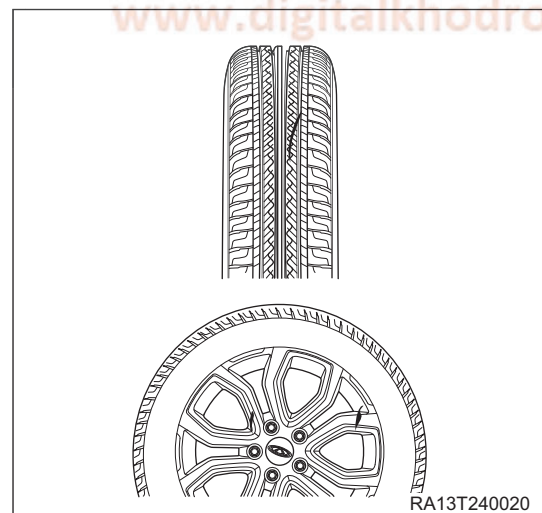
Symptom	Suspected Area	See page
Wear on one side of tire	Wheel alignment (incorrect)	23-33
Wear on both sides of tire	Tire pressure (insufficient)	24-4
Tire center wear	Tire pressure (excessive)	24-4
Serrated wear	Wheel alignment (incorrect)	23-33
Severe wear on some area of tire	Braking (too hard)	26-27
Scratches on side wall of tire	Sharp objects on road (scratched)	24-5
Excessive tire noise	Tire pressure (incorrect)	24-4
	Tire (worn)	24-4

Inspection

CAUTION

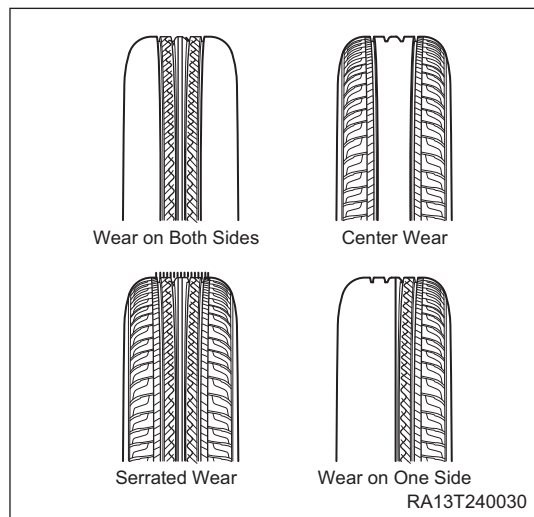
- When installing non-standard tire and rim, always refer to instructions.
- Use tires with standard specification and type.

- Check if tires are scratched or damaged as shown in illustration.
- Check if rims are scratched or damaged as shown in illustration.

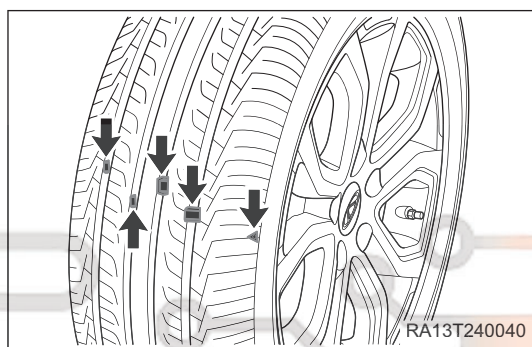


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3. Check if tires are worn abnormally as shown in illustration.



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



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

ON-VEHICLE SERVICE

Tire Replacement

WARNING

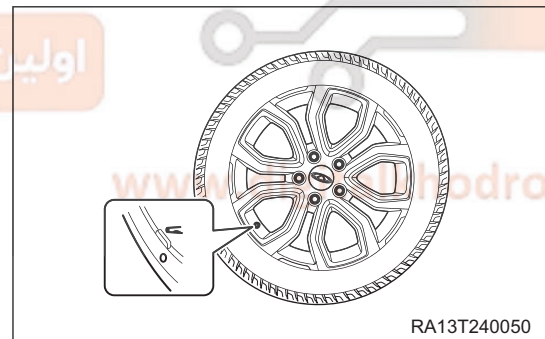
- Speed level of new replaced tire must meet the specified values for safe operation; otherwise tire may blow out.

1. Remove the wheel (See page 24-9).
2. Use a tire remover to remove tires according to instructions.

CAUTION

- Before installing air valve, check if air valve hole of wheel is smooth without any burrs, and apply glycerin to air valve rubber surface or soak air valve into glycerin fluid, and then pull or press the locating ring of air valve by force to pass it through the air valve hole and install it into place (it is possible to use soapy water instead of glycerin).
- Apply glycerin or soapy water around tire before assembly.
- When there is "dark point" mark on rim, align the dynamic balance testing mark on tire with "dark point" mark on rim.
- When there is no "dark point" mark on rim, align the dynamic balance testing mark on tire with the air valve.

3. When installing tire, white point on tire edge must be aligned with air valve on rim as shown in illustration.



4. Adjust tire pressure to specified value.

CAUTION

- Be sure to inflate tires to specified air pressure. The maximum air pressure cannot exceed 10% of rated air pressure during air inflation.
- Please replace tires with standard specification and type.

5. Check contact surface among air valve, tire and rim for leakage.
6. Using a dynamic balancer, adjust the wheel balance (See page 24-10).
7. Install the wheel (See page 24-9).
(Tightening torque: $110 \pm 10 \text{ N}\cdot\text{m}$)

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 CAUTION

- Avoid scratching tires and rims when removing tires.
- Contact surface between tire and rim should be cleaned when installing tires.

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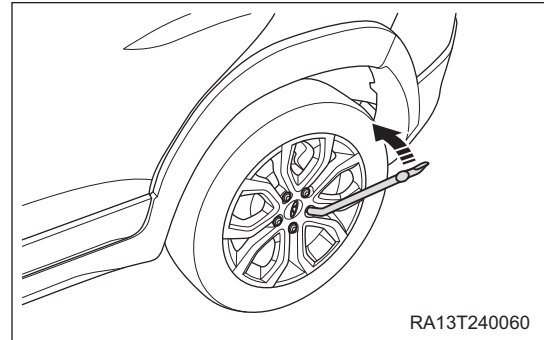
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Wheel

Removal

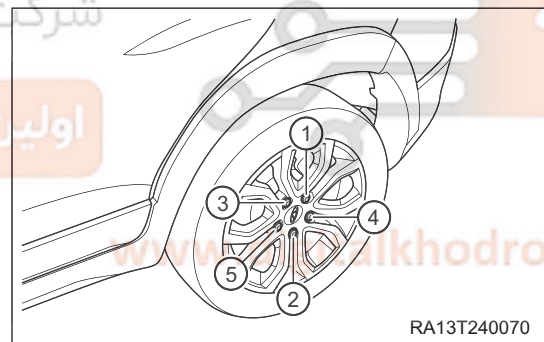
1. Remove the wheel.
 - a. Stop vehicle on level surface and apply parking brake.
 - b. Using a wheel wrench, loosen the wheel mounting bolts.
 - c. Firmly support and raise vehicle to a proper height.
 - d. Using a wheel wrench, remove 5 wheel mounting bolts.



- e. Remove the wheel.

Installation

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



CAUTION

- DO NOT attempt to repair wheels by striking, heating or welding.
- Replace with special wheel mounting bolts, rather than those with different specifications or inferior quality.
- Be careful not to damage coating on wheel.
- To avoid damage to tire or over/under tightening wheel mounting bolts, never use an impact wrench.
- DO NOT apply grease to wheel mounting bolts.
- To ensure wheel mounting bolts are tightened in place, wheel mounting bolts should be tightened after driving 800 km at the first time.

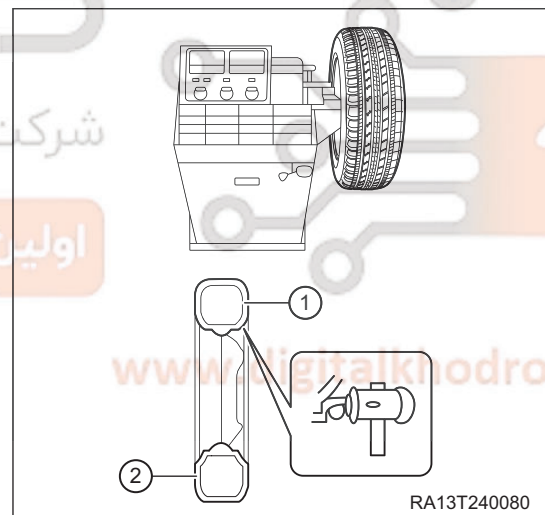
Wheel Balance

Adjustment

CAUTION

- Dynamic balancer must be calibrated before adjusting wheel balance.
- Remove impurities inside tread pattern and original balance weights to ensure wheel balance.

1. Remove the wheel (See page 24-9).
2. Adjust tire pressure to specified value.
3. Install wheel with balance weight removed to balancer. Install 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 center hole, otherwise data may be incorrect).
4. Turn on power source of balancer, and input measured parameters such as distance from rim to balancer, rim width and rim diameter.
5. Put down wheel protector, and proceed to balance test procedure automatically (start button should be pushed for some balancers). When measurement is completed, the unbalanced weight for both sides of tire will be displayed on the balancer automatically, and wheel brakes automatically until it stops. Do not open the protector before stopping. Failure to do this may lead to an accident.
6. According to the measurement result, corresponding balance weights should be installed on the outside (1) and inside (2) of rim edge as shown in illustration.



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

 CAUTION

- When installing balance weights, final unbalanced degree of assembly should be as follows: clamp type balance weight side is 8 g or less, and paste type balance weight side is 10 g or less.
- Either side of each wheel is permitted to use only one clamp type balance weight at most, and paste type balance weight should be applied as needed.
- Single side weight of clamp type balance weight and paste type balance weight is less than 65 g and 80 g separately.
- DO NOT tap balance weights forcibly during installation, in order to prevent balance weights from being deformed.
- DO NOT reuse deformed balance weights. Replace them in time.

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Tire Rotation

Description

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

Advantages of tire rotation:

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

CAUTION

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

Rotation Method

Perform tire rotation as shown in illustration.

