III. Workshop manual of wheel system

Cautions

- Please use the original wheel.
- In the new tire run-in period should avoid acute start, sharp turn and emergency brake, to avoid the use of harsh conditions to prevent premature damage to the new tire.
 - The new tire should be wheel balanced before use.

Tire

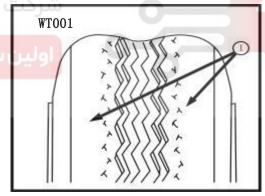
Inspection:

- 1) Tire Pressure Check
- ① Check tire inflation pressure Please adjust it if it is not in the standard range.

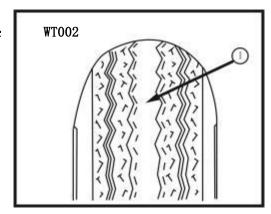
Standard Value: 230±10kPa

Attention:

- Check the tire pressure with by using of the tire pressure gauge with good performance
- ■Check if the wheel is worn, improperly inflated, cracked or otherwise damaged.
- Tire pressure should often be checked when ambient temperature changes drastically.
- (2) Incorrect tire pressure can cause:
- a. Insufficient pressure can cause rapid tire shoulder wear, tire deflection, and increased rolling resistance.



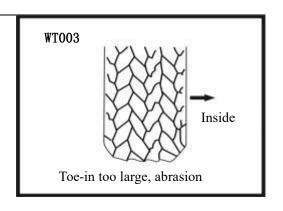
b. Excess pressure can cause rapid wear of the center of the tire crown and reduce the tire cushioning capacity.

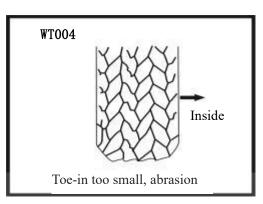


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2) Incorrect alignment inspection

Excessive or small front and rear front tires can affect the feathery wear of tires.





- 3) Tire Tread Check
- ① Check the tire tread depth.

Note: Tire Specification 235 / 60R18 103H

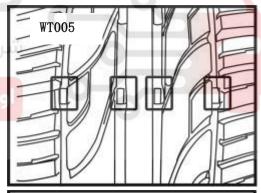
When the tread depth of the tire is used to the limit or less, the wear mark will appear on the tire tread. When appear wear mark, please replace the tire.

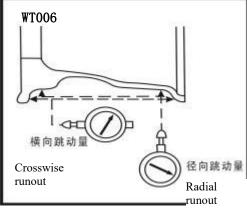
- ② Check tire tread for foreign objects. If so, please clear it.
- 4) Check if them have cracks or other damages Measure the wheel jump value if it has.
- ① Remove the tire and put the wheel on the wheel balancer.
- ② Set dial gauge as shown in the figure.

Wheel jump value, please refer to "maintenance data and specification". If the jump value surpass the limit value, please replace it

Tire transposition:

■ The tires should be transposed after 8000km.





WT007

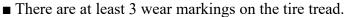
Chassis System Maintenance Manual

Replacement of the new tires should be carried out at the same time the tire change.

Note: The recommended tire replacement as shown.

Replace:

- ① After the normal driving for 50000km, wheel should be replaced.
- ②The tire also needs to be replaced if one of the following conditions occurs:



- Tire rubber cord or cord.
- Tire tread or shoulder cracking, the emergence of ply.
- Tire bulge, uplift or stratification.
- The tire is punctured, scratched or otherwise damaged, the degree of which is difficult to repair.

Wheel Assembly

Removal and Installation:

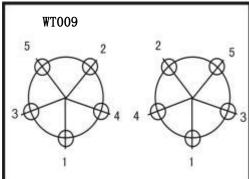
- 1) Disassemble
- (1) Remove the wheel nut.
- Tightening torque: 100~120N·m
- 2 Remove the tire assembly
- 2) installation

Install the tire assembly and tire nuts.

Attention:

- If install manually, please pre-tighten in order, and then tighten in the diagonal order.
- If tighten manually, set proper tighten torque, tighten once.
- Tighten the wheel nuts in the sequence shown below strictly.

WT008



Wheel balance:

- 1) Disassemble
- ① Disassemble the wheel to be adjusted.
- 2 Remove the old balancer on each side of the wheel and remove any foreign material from the



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tire tread

Attention:

- Be careful not to scratch the wheel in disassembly.
- Remove the adhesive tape on the tire if it is a new tire.
- 2) Wheel Balance Adjustment
- ① Center hole-oriented, the wheel mounted on the balancer, starting tire balancing machine.
- ② When the two sides balance value are displayed on screen of wheel balancer, select the balance block with weight value closest to the displayed value and install to the designated position or place with designated wheel to the wheel

Attention:

- The inner balance weight should be installed after the outer balance weight is installed.
- Before installing the balance block, always to clean the mating surface of the road wheel.
- The balance block can not be reused, each should be replaced.
- Do not install more than three blocks.
- Always use the original balance block.
- Do not place the block on another block.
- 3 Start the wheel balancer again.
- 4 Depending on the position (or angle) indicated by the wheel balancer, knock in the balance weight inside the wheel.
 - ⑤ Start the balancer. Confirm that the remaining inner and outer imbalance value $\leq 5g$. If there is any side of the residual imbalance value is more than 5g, re-install the balance block.

Malfunction Diagnosis

Common Malfunction Diagnosis Table

Malfunction Symptom	Possible Causes of Malfunction	Solution
Steering wheel circumference vibration	Excessive deflection of tires and rims	Replace
	Wheel nut loose	Locked
	Tires are not balanced	Adjust
	Tire wear uneven	Adjustment or replacement
	Tire pressure is not enough	Adjust
	Front wheel bearing damaged or worn	Adjustment or replacement
	Steering system failure	Adjustment or replacement
	Suspension system failure	Adjustment or replacement
Tires wear out early	Tire pressure is not correct	adjustment
T:	Tire pressure is not correct	Adjust
Tire noise	Tire deterioration	Replace
Road noise or body vibration	Tire pressure is not enough	Adjust
	Tires are not balanced	Adjust
	Wheel or tire deformation	Repair or Replace
	Tires wear unevenly	Adjustment or replacement
Shake up and down the	Excessive deflection of tires and rims	Replace

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Malfunction Symptom	Possible Causes of Malfunction	Solution
steering wheel	Wheel nut loose	Locked
_	Tires are not balanced	Adjust
	Engine bracket rubber break or worn	Replace
	Transmission bracket rubber cracked	Replace
	or worn	-
Steering wheel unilateral	Tire pressure is not correct	Adjust
	Tires over worn or worn out evenly	Adjustment or replacement
	Steering system failure	Adjustment or replacement
	Brake system failure	Adjustment or replacement
	Suspension system failure	Adjustment or replacement
Unstable driving	Tire pressure uneven on both sides	Adjust
	Wheel or tire deformation	Repair or Replace
	Wheel nut loose	Locked
	Steering system failure	Adjustment or replacement
	Suspension system failure	Adjustment or replacement
Brakes unilateral	Tire pressure uneven on both sides	Adjust
	Brake system failure	Adjustment or replacement
Steering wheel is too heavy	Tire pressure is not enough	Adjust
	Steering system failure	Adjustment or replacement
	Suspension system failure	Adjustment or replacement
Pad haak of Staaring wheel	Tire pressure is not enough	Adjust
Bad back of Steering wheel back	Steering system failure	Adjustment or replacement
Uack	Suspension system failure	Adjustment or replacement

Repair Data and Specification

Technical Specification Table

ت دیجیتال خود Project مانه (مسئولیت		Parameter	
Wheel Runout	Radial Direction		0.3mm
	Axial Direction	اولي	0.3mm
Tire Pressure (Cold State)			230±10kPa
Tire Specification		·	235/60R18 103H

Tightening Torque Table

Item	Tightening Torque
Wheel Nut	100∼120N·m