
MAINTENANCE

2.1	MAINTENANCE ITEMS.....	19
1	Maintenance Schedule Table.....	19
2	Lubrication System	22
3	Cooling System.....	22
4	Transmission Fluid.....	23
5	Brake System	23
6	Wheel Alignment.....	23
7	Wheel and Tire	24
2.2	INSPECTION ITEMS	25
1	Off-vehicle Inspection	25
2	On-vehicle Inspectio	25
3	Engine Compartment Inspection.....	26
4	Brake System Inspection	27
5	Chassis Inspection.....	28

2.1 MAINTENANCE ITEMS

1 Maintenance Schedule Table

The maintenance schedule lists vehicle maintenance items that need to be carried out. Please go to Chery authorized service station for maintenance according to mileage in maintenance schedule. If your vehicles always used in severe driving conditions, you should follow the maintenance requirement each 5,000 km or 6 months (whichever comes first). I: Inspect, adjust, clean or replace if necessary; R: Replace.

Maintenance Item	Mont- hs	6	12	18	24	30	36	42	48	54	60
	K- m×1,- 000	5	10	15	20	25	30	35	40	45	50
For general driving conditions											
Maintenance Items	Mont- hs	12	24	36	48	60	72	84	96	108	120
	K- m×1,- 000	10	20	30	40	50	60	70	80	90	100
Meter Indicating System		I	I	I	I	I	I	I	I	I	I
Video and Entertainment System		I	I	I	I	I	I	I	I	I	I
Diagnostic Tester Inspection		I	I	I	I	I	I	I	I	I	I
Front Wiper Blades		I	I	I	I	I	I	I	I	I	I
Rear Wiper Blades		I	I	I	I	I	I	I	I	I	I
Wiper System		I	I	I	I	I	I	I	I	I	I
Cooling Effect		I	I	I	I	I	I	I	I	I	I
Air Conditioning System		I	I	I	I	I	I	I	I	I	I
Air Conditioning Filter		I	I	I	I	I	I	I	I	I	I
Coolant Level		I	I	I	I	I	I	I	I	I	I
Freezing Point of Coolant		I	I	I	I	I	I	I	I	I	I
Brake Fluid		It is recommended to replace every 2 years or 40,000 km (whichever comes first)									
Brake Fluid Level		I	I	I	I	I	I	I	I	I	I
Water Content of Brake Fluid		I	I	I	I	I	I	I	I	I	I
Engine Oil		R	R	R	R	R	R	R	R	R	R
Engine Oil Level		I	I	I	I	I	I	I	I	I	I
Transmission Fluid (730DHC/ 730DHB)		Replace every 60,000 km.									
Transfer/Differential Fluid		It is recommended to replace every 50,000 km after the warranty period.									
Power Steering Fluid (If Equipped)		Replace every 2 year or 30,000 km (whichever comes first).									
Timing Chain		Maintenance-free (except for the cause of failure).									

2 - MAINTENANCE

Maintenance Item	Mont- hs	6	12	18	24	30	36	42	48	54	60
	K- m×1,- 000	5	10	15	20	25	30	35	40	45	50
For general driving conditions											
Maintenance Items	Mont- hs	12	24	36	48	60	72	84	96	108	120
	K- m×1,- 000	10	20	30	40	50	60	70	80	90	100
Transmission Fluid Level											
Fuel Filter		External fuel filter: Replace every 30,000 km; Internal fuel filter: The integrated fuel pump is maintenance free type(troubleshoot the cause of failure)									
Battery Voltage											
Shock Absorber											
Propeller Shaft and Boot											
Torque of Chassis Bolt											
Steering Gear											
Steering Column											
Steering Link, Ball and Boot											
Tire Appearance											
Tire Pattern											
Tire Inflation Pressure											
Spare Tire Inflation Pressure											
Torque of Wheel Bolt											
Tire Rotation		It is recommended to rotate tires every 10,000 km (the optimal adjustment range is 5,000 - 7,000 km).									
Spark Plug											
Brake Plate											
Air Filter											
Drive Belt											
Engine Oil Pan and Drain Bolt											
Transmission Housing Body											
Related Fluid Line (such as: steering, braking and fuel etc.) and Wire Harness											
Charcoal Canister Filter (If Equipped)		Replace every 3 years or 60,000km (whichever comes first)									

Maintenance Item	Mont- hs	6	12	18	24	30	36	42	48	54	60
	K- m×1,- 000	5	10	15	20	25	30	35	40	45	50
For general driving conditions											
Maintenance Items	Mont- hs	12	24	36	48	60	72	84	96	108	120
	K- m×1,- 000	10	20	30	40	50	60	70	80	90	100
Battery		Maintenance-free (except for the cause of failure).									
Throttle Valvet		It is recommended to clean every 15,000 km.									
Four-wheel Alignment		Check four-wheel alignment every 20,000 km and adjust if necessary.									
Fuel Vapor Rubber Pipe		It is recommended to replace every 10 years or 500,000 km (whichever comes first).									
Fuel Filler Hose		It is recommended to replace every 5 years or 200,000 km for products made of ordinary rubber (such as NBR+PVC/CSM, etc.) (whichever comes first); It is recommended to replace every 10 years or 500,000 km for products made of fluororubber (whichever comes first). It is recommended to replace the above hoses timely which may cause performance defect such as crack.									

- The frequency of scheduled inspection and maintenance services in the table is minimal. However, it may be necessary that they be performed more frequently depending on road conditions, weather, atmospheric conditions and vehicle usage. These conditions may differ from one country to another. Therefore, there may be special requirement in your country. We recommend that you ask your Chery authorized service station for the actual maintenance schedule applied to your vehicle.
- Continue periodic maintenance beyond 100,000 km or 120 months by returning to the third column of the maintenance schedule and adding 100,000 km or 120 months to the column headings.
- For special area, there may be special maintenance specifications. We recommend that you ask your Chery authorized service station for the actual maintenance specifications applied to your vehicle.

⚠ Caution

- The engine oil and oil filter should be replaced more frequently if the vehicle drives under severe conditions mentioned in the following examples*.
- It should be checked every 5,000 km or 6 months (whichever comes first) if the vehicle drives under severe conditions mentioned in the following examples*.
- The lubricant should be replaced every 5,000 km or 6 months (whichever comes first) if the vehicle drives in the following areas.
 - High humidity areas.
 - Mountainous areas.
 - Extremely cold and hot areas.
 - Drive on rough roads (bumpy roads, gravel roads, snow, etc.) for a long time.
 - Drive on mountain roads, uphill/downhill for a long time.
 - Drive the vehicle for a short distance frequently.
 - In many cases, drive in high temperature (higher than 32°C), heavy traffic urban road.
 - When used as a police car, taxi, commercial vehicle, trailer, etc.
- The air filter and air conditioning filter should be replaced more frequently if the vehicle drives under severe conditions mentioned in the following examples*.

***Examples of severe driving conditions:**

- Drive in extremely cold and hot weather (only for engine oil, engine oil level, steering and suspension system).
- Drive the vehicle for a short distance frequently (only for engine oil, engine oil level, disc brake pads and discs /front and rear axle boots and axle shaft joint portions, brake lining and drums).
- Drive on dusty roads (only for air cleaner element, disc brake pads and discs /front and rear axle boots and axle shaft joint portions, brake lining and drums, air filter element for the climate control system).
- Drive on rough and/or muddy roads (only for disc brake pads and discs /- front and rear axle boots and axle shaft joint portions, brake lining and drums, air filter element for the climate control system).
- Drive in areas where road salt or other corrosive materials are used (only for fuel system, lines and connections, disc brake pads and discs/front and rear axle boots and axle shaft joint portions, brake lining and drums, inspect brake lines and check operations of parking and service brake system, steering and suspension system).
- In the coastal areas (only for fuel system, lines and connections, disc brake pads and discs /front and rear axle boots and axle shaft joint portions, brake lining and drums, inspect brake lines and check operations of parking and service brake system, steering and suspension system).

2 Lubrication System

Engine Model	SQRF4J16
Oil Filling Amount	4.3 ± 0.2 L (replace the oil and oil filter at the same time)
Oil Grade	SM SAE-5W-30

3 Cooling System

Engine Model	SQRF4J16
Coolant	7.6 L
Coolant Type	Full organic antifreeze(LEC-II)

4 Transmission Fluid

Transmission Type	Transmission Fuel Type	Total Capacity
730DHC/730DHB	Pentosin FFL-7A	4.25 ± 0.2 L
Transfer	Sinopec GL5 80W-90 gear oil	0.31 ± 0.03 L
Differential	Sinopec GL5 80W-90 gear oil	0.445 ± 0.03 L

Hint:

- Filling amount is equal to discharging amount when there is no oil leakage for automatic transmission, please go to Chery authorized service station for details.

5 Brake System

Vehicle Model		SQRF4J16
Brake	Front Wheel	Disc brake
	Rear Wheel	Disc brake
Brake Booster		Vacuum booster
Parking Brake		Electric parking brake for rear wheels
Reasonable Range of Brake Pedal Free Travel		≤ 25 mm
Reasonable Range of Use for Brake Friction Pair		Minimum thickness of brake disc: Front 26 mm, rear 8 mm Minimum thickness of brake lining: 2 mm
Brake Fluid		Fluid type: DOT-4. Add fluid to level between "MAX" and "MIN" marks

Warning

- In the case of heavy load, the brake fluid should be replaced while the brake plates are being replaced.
- When adding brake fluid, make sure it is absolutely clean. If any dirt gets into the brake system, it may result in loss of braking performance.

6 Wheel Alignment

Items		Parameters
Vehicle Model		SQRF4J16
Front Wheel	Front Wheel Camber	-30' ± 30'
	Kingpin Caster Angle	6°43' ± 45'
	Kingpin Inclination Angle	13°54' ± 45'
	Front Wheel Toein	+8' ± 6' (one side)
Rear Wheel	Rear Wheel Toein	+10' ± 6' (one side)
	Rear Wheel Camber	-1°11' ± 30'
Sideslip Value		0 ± 3 m/km

7 Wheel and Tire

Vehicle Model		SQRF4J16
Tire Model		225/65R17, 225/60R18, 225/55R19, T145/80R18 (Spare tire)
Rim Model		17×7J, 18×7J, 19×7J, 4T×18 (Spare tire)
Cold Tire Inflation Pressure (kPa) (Unladen)	Front Wheel	R17: 220, R18 & R19: 230
	Rear Wheel	R17: 220, R18 & R19: 230
	Spare Tire	420
Tightening Torque of Wheel Bolt		130 ± 10 N·m
Wheel dynamic balance requirements for vehicle with a maximum design speed of more than 100 km/h		Residual unbalance of wheel tire assembly after leveling with balance block: Outside ≤ 10 g; Inside ≤ 10 g

Caution

- The tire inflation pressures listed in the table apply to cold tires. The pressure increases slightly when the tire is heated, but it is unnecessary to lower the pressure.
- Tire inflation pressure should be checked at least once a month, and tire pressure is especially important at high speeds.
- In order to facilitate you to find the specified value for inflation pressure, there is adhesive sticker label on the driver doorsill, which is marked with the specified value for cold tire inflation pressure.

2.2 INSPECTION ITEMS

1 Off-vehicle Inspection

- (1) Check the wheel nut.
 - 3) Check wheel nuts for looseness or missing. Tighten if necessary.
- (2) Check the wheel and tire (spare tire included).
- (3) Rotate the tires.
 - 1) Chery recommends that you should rotate tires every 10000 km. However, the best rotation time differs depending on driving habits and road conditions.
- (4) Check wiper blade.
- (5) Check hood and doors.
 - 1) Check the hood.
 - 2) Check the front doors.
 - 3) Check the rear doors.
 - 4) Check the back door.

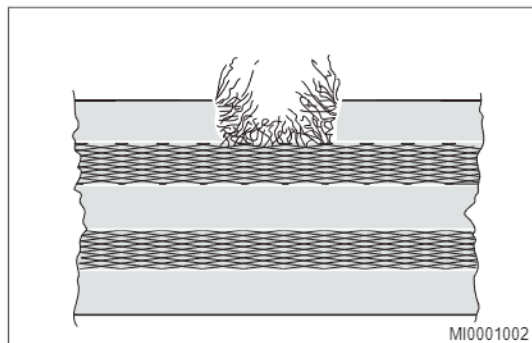
2 On-vehicle Inspection

- (1) Check the seat belt.
 - 1) Check the seat belt buckle and retractor.
 - Pull out the seat belt quickly and repeatedly when the seat belt is static. If the seat belt retractor cannot lock the seat belt at one time during inspection, replace the seat belt assembly.
 - Engage the tab on the seat belt buckle, and pull the seat belt by hand repeatedly to check the engagement. If the buckle cannot lock the seat belt at one time, replace the seat belt assembly.

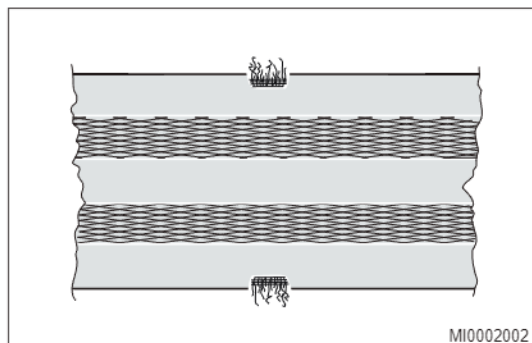
Caution

When checking impacted vehicle, be sure to check seat belt system. If there is any damage or malfunction in the seat belt system, replace it.

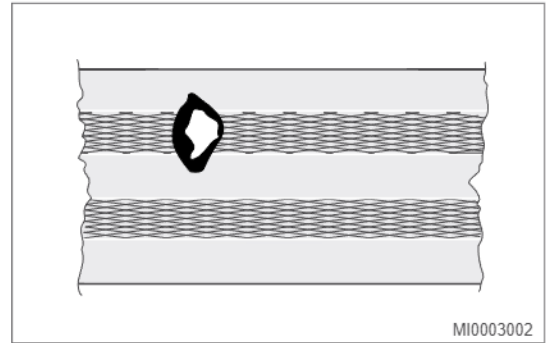
- 2) Pull out the seat belt and check the belt for oil stains or damage. Clean or replace if necessary.
- 3) Replace the seat belt as soon as possible if any of the following occurs.
 - Seat belt is broken, torn or worn.



- Edge of seat belt webbing is broken.



- There is a burnt mark of cigarette butt on the seat belt.



- (2) Check the horn.
 - Check that the horn operates.
- (3) Check the vehicle lights.
 - Check that the headlights, brake lights, taillights, turn signal lights and other vehicle lights illuminate or blink. Furthermore, check the brightness of vehicle lights.
- (4) Check the windshield.
 - Check for scratches, dents or wear.
- (5) Check the windshield wiper and washer.
 - Check that washers are properly aligned. Also, check that washer fluid hits the center of operating range of each wiper on the windshield.
 - Check whether any wiper blade is damaged. Replace the wiper blade if necessary.
- (6) Check the windshield defroster.
 - Turn on A/C defroster mode switch, check that air comes out of front defroster outlets.
 - Press the rear defroster switch for a period of time, then check that the rear windshield heats.

⚠ Caution

DO NOT touch the heated rear windshield for a long time to prevent burns.

- (7) Check the rear view mirror.
 - Check that the rear view mirrors are securely installed.
- (8) Check the sun visor.
 - Check that the sun visors are securely installed and move freely.
- (9) Check the seat.
 - Check the front seat assembly.
 - Check the rear seat assembly.
- (10) Check the clutch pedal.
- (11) Check the accelerator pedal.
 - Check that the accelerator pedal operates smoothly. Check that the pedal does not have uneven resistance or does not get stuck in certain position.

3 Engine Compartment Inspection

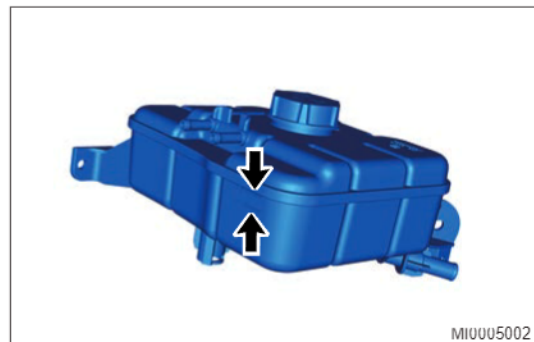
- (1) Check the engine oil level.
- (2) Check the engine drive belt.
- (3) Check the engine for oil leakage.

- 1) Turn off all electrical equipment and the ignition switch, and remove the key.
 - 2) Support and raise the vehicle.
 - 3) Check crankshaft pulley for oil stains. If there are oil stains, check engine crankshaft front oil seal for leakage. If there are leaks, replace the crankshaft front oil seal.
 - 4) Check oil pan and drain plug for oil stains. Repair or replace related parts if necessary.
 - 5) Check transmission filler plug, drain plug and case for oil stains. Repair or replace related parts if necessary.
 - 6) If leakage occurs to the crankshaft front oil seal after repair, it may be caused by 3 reasons as follows:
 - Crankshaft thrust washer wears.
 - Crankcase ventilation system blocks.
 - Engine oil is excessive.
- (4) Check battery voltage
- Check the battery and battery voltage.
 - Check the charging voltage of charging system.
- (5) Check the windshield washer fluid.
- 1) If washer nozzle cannot spray washer fluid, the fluid reservoir may be empty. In this case, stop operating washer and add washer fluid to a proper level immediately.

⚠ Caution

DO NOT use water as washer fluid when ambient temperature is below 0°C, otherwise, washer may be damaged due to the frozen water.

- (6) Check the coolant level.
- 1) When engine is cold, check if the coolant level is between "MAX" and "MIN" lines. If the level is below the "MIN" line, it is necessary to add coolant to "MAX" line.



- (7) Check the cooling system hose.
- Check that there are no cracks, kinks, corrosion or loose connections on the cooling system hose.

4 Brake System Inspection

⚠ Caution

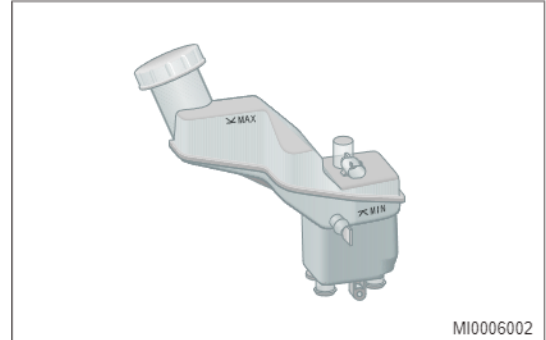
Generally, brake fluid level will change slightly because of the wear of brake pad, but it must be kept between "MIN" and "MAX" lines.

- (1) Check the brake fluid level.

Hint:

- When the brake fluid level drops near the "MIN" line, the wear of brake pad may approach its limit.
- After the brake pad is replaced, the brake fluid level should be at the upper part between "MAX" and MIN lines.

- 1) Park the vehicle on a level ground.
- 2) Make sure there is no air in the brake system and the depressing feel of brake pedal is well. Perform brake bleeding procedures if necessary.
- 3) Check if the brake fluid level is between "MAX" and "MIN" lines.
- 4) If the brake fluid level drops to the "MIN" line or below, add brake fluid and check the brake system for leakage.



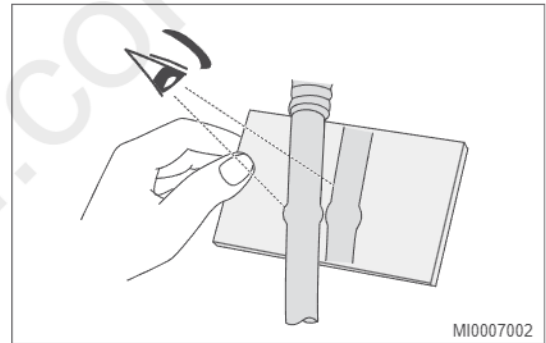
- (2) Check the brake pedal.
- (3) Check the brake lines and hoses.

Hint:

Work in a well-lighted area. Turn front wheels to the rightmost or leftmost position before inspection.

- 1) As shown in the illustration, check the entire circumferential surface of brake lines and hoses with a mirror. Check for the following conditions:

- Damage
- Wear
- Deformation
- Cracks
- Corrosion
- Leakage
- Bending
- Twists



- 2) Check all the clamps for tightness and check the connections for leakage.
- 3) Check that the hoses and lines are not near the sharp edges, moving parts or exhaust system.
- (4) Check the parking brake.
 - Check that the parking brake can hold the vehicle steadily on a slight slope.
- (5) Check the front disc brake assembly.
- (6) Check the rear disc brake assembly.

5 Chassis Inspection

- (1) Check the front axle hub.
- (2) Check the control arm and control arm ball pin.
- (3) Check the rear axle hub.
- (4) Check the stabilizer bar assembly, stabilizer bar assembly rubber supports and rubber bushing.
- (5) Check the rear coil spring assembly.
- (6) Check the rear mounting upper swing arm assembly.
- (7) Check the rear mounting lower swing arm assembly.
- (8) Check the rear trail arm assembly.
- (9) Check the exhaust pipe.

Visually check the pipes, hanger blocks and connections for serious corrosion, leakage or damage.

Final Inspection

- (1) Check the operation of body parts.

- 1) Hood.
 - Hood support rod is proper.
 - Hood locks securely when closed.
- 2) Front and rear doors.
 - Door locks operate properly.
 - Doors close properly.
- 3) Back door.
 - Door lock operates properly.
 - Back door closes properly.
- 4) Seats.
 - Seats are adjusted freely and locked securely in any position.
 - Front seatback can be locked securely in any position.
 - Rear seatbacks can be locked securely after folding down.
- (2) Be sure to deliver a clean vehicle. Focus on the following items:
 - Steering wheel
 - Shift lever
 - All switch knobs
 - Door handles
 - Seats

cardiagn.com