
MAINTENANCE

GENERAL INFORMATION	05-3	INSPECTION ITEM	05-8
MAINTENANCE ITEMS	05-3	Off-vehicle Inspection	05-8
Maintenance Schedule Table	05-3	On-vehicle Inspection	05-8
Replacement Instruction	05-7	Engine Compartment Inspection	05-9
Adjustment Item	05-7	Brake System Inspection	05-10
		Power Steering System Inspection	05-11
		Chassis Inspection	05-11
		Final Inspection	05-12



cardiagn.com

GENERAL INFORMATION

MAINTENANCE ITEMS

Maintenance Schedule Table

The maintenance schedule lists the vehicle maintenance items required to be performed. Please go to the Chery authorized service station for maintenance according to the mileage in maintenance schedule.

1. Maintenance schedule (Note: ★ Inspection / maintenance items for each maintenance mileage)

Work No.	Maintenance Items	Technical Parameters	Maintenance Mileage (km)		
			5000	15000	30000
1	Operate various light switches	Lights are normal	★	★	★
2	Low beam lights	Lights are normal	★	★	★
3	High beam lights	Lights are normal	★	★	★
4	Front left turn signal lights	Lights are normal	★	★	★
5	Front right turn signal lights	Lights are normal	★	★	★
6	Position Light/Daytime Running Light	Lights are normal	★	★	★
7	Front fog lights	Lights are normal	★	★	★
8	Horn	Horn sounds normally	★	★	★
9	Rear brake lights	Lights are normal	★	★	★
10	Rear left turn signal lights	Lights are normal	★	★	★
11	Rear right turn signal lights	Lights are normal	★	★	★
12	Alarm lights	Lights are normal	★	★	★
13	Back-up lights	Lights are normal	★	★	★
14	Rear fog lights	Lights are normal	★	★	★
15	License plate light	Lights are normal	★	★	★
16	Check steering wheel	Free travel and height adjustment of steering wheel	★	★	★
17	Check various A/C buttons	Easy button operation	★	★	★
18	Check air flowing conditions of air outlets	Air is blown properly, heating and cooling operations switch normally		★	★
19	Check various indicators on meter	Indicators operate properly and precisely	★	★	★
20	Check parking lever maneuverability	4-6 teeth	★	★	★
21	Check shift lever condition	Gear selecting and shifting operations are flexible without stagnation	★	★	★
22	Check clutch pedal	Clutch disengages normally	★	★	★



05—MAINTENANCE

Work No.	Maintenance Items	Technical Parameters	Maintenance Mileage (km)		
			5000	15000	30000
23	Check brake pedal and accelerator pedal	Vehicle brakes normally	★	★	★
24	Check wiper nozzle	It operates normally, and the blades operate normally without abnormal sound		★	★
25	Check various buttons on instrument cluster	Buttons return normally, and lights indicate normally		★	★
26	Check audio and speaker	Functions are normal		★	★
27	Check dome light	Buttons return normally, and lights indicate normally		★	★
28	Check sunroof	Buttons operate normally, and sunroof runs normally		★	★
29	Check central lock	Central lock operations are normal	★	★	★
30	Check power glass regulator for each door	Buttons are normally, and glasses moves normally		★	★
31	Check sun visor and cigarette lighter	Functions are normal		★	★
32	Check cigarette lighter, glove box and electronic clock	Functions are normal		★	★
33	Check rear left door glass regulator switch, door switch, door hinge, seat and seat belt	Functions are normal without any abnormal sound	★	★	★
34	Check front left door glass regulator switch, door switch, door hinge, seat and seat belt	Functions are normal without any abnormal sound		★	★
35	Check rear right door glass regulator switch, door switch, door hinge, seat and seat belt	Functions are normal without any abnormal sound		★	★
36	Check front right door glass regulator switch, door switch, door hinge, seat and seat belt	Functions are normal without any abnormal sound		★	★

Work No.	Maintenance Items	Technical Parameters	Maintenance Mileage (km)		
			5000	15000	30000
37	Open back door, check door lock hinge, on-board tools and spare tire	Door opens normally without any abnormal sound	★	★	★
38	Check power steering fluid	Replenish as necessary or change in accordance with specified mileage	★	★	★
39	Check windshield washer fluid	Replenish as necessary or change in accordance with	★	★	★
40	Check and measure engine coolant	Measure freezing point in winter, replenish or change as necessary	★	★	★
41	Check battery	There is no corrosion with good connection	★	★	★
42	Check transmission fluid level	AT inspection	★	★	★
43	Check engine oil level	Subject to gauge scale	★	★	★
44	Check brake fluid level	Replenish as necessary or change in accordance with specified mileage	★	★	★
45	Check drive belt	Check for deteriorated belt and normal tension	★	★	★
46	Check A/C line	Check for leakage	★	★	★
47	Check cooling line	Check for leakage	★	★	★
48	Check for oil leakage on upper part of engine	Check for leakage	★	★	★
49	Check engine wire harness	The harness is connected properly without any damage		★	★
50	Check shock absorber	Check for oil leakage or deterioration		★	★
51	Check for oil leakage or deterioration	Tire pressure is normal, tire has no bulge or crack, on-board tools are complete without damage	★	★	★
52	Drain waste oil and reinstall oil plug	Drain the oil completely	★	★	★
53	Replace with new oil filter		★	★	★



05—MAINTENANCE

Work No.	Maintenance Items	Technical Parameters	Maintenance Mileage (km)		
			5000	15000	30000
54	Replace transmission gear oil				★
55	Replace gasoline filter	Note installation direction of gasoline filter			★
56	Check torque for chassis bolt	Tighten connecting bolt and make marks		★	★
57	Check rear suspension and fuel tank	Tighten bolts to ensure no leakage	★	★	★
58	Check for oil leakage in chassis-related lines	No leakage	★	★	★
59	Check propeller shaft and steering link		★	★	★
60	Remove tires			★	★
61	Check brake disc	Minimum value > 2.00 mm		★	★
62	Check tire pressure and appearance		★	★	★
63	Tire rotation				★
64	Tighten tire nuts			★	★
65	Reinstall spare tire and on-board tools		★	★	★
66	Add specified amount of oil		★	★	★
67	Start engine for 3 minutes		★	★	★
68	Inspect engine computer and sensor	Matching with gauge scale		★	★
69	Turn off the engine and wait for 90 seconds, confirm oil level and raise vehicle	Matching with gauge scale		★	★
70	Check oil filter and drain bolt for oil leakage	No leakage	★	★	★
71	Lower vehicle, check spark plug gap and combustion condition	Spark plug gap is normal, and there is no carbon deposition			★
72	Check or replace air filter element			★	★

Hint:

1. For MT models, transmission oil should be replaced every year or every 30,000 km (whichever comes first).
2. It is recommended to replace brake fluid every 2 years or every 40,000 km (whichever comes first).
3. It is recommended to check power steering fluid (if equipped) every 10,000 km and replace it every 2 years or 30,000 km (whichever comes first).

4. It is recommended to check coolant every 10,000 km. Add or replace it if necessary.
5. It is recommended to rotate tires every 10,000 km.
6. It is recommended to check four-wheel alignment every 20,000 km and adjust if necessary.
7. It is recommended to clean throttle valve body every 15,000 km.
8. It is recommended to check air filter every 10,000 km. Clean or replace if necessary.
9. It is recommended to replace timing belt (2.0 L) every 3 years or every 60,000 km (whichever comes first).
10. Engine timing chain (1.5 T) and battery and fuel filter are maintenance-free.
11. Adopts life-long maintenance-free DCT transmission oil, It is unnecessary to add or replace (exclude the cause of lack or deterioration). If the vehicle is immersed in water, it is necessary to check if the oil is deteriorated or replace the oil.

Warning:

- Depending on different environment and road conditions, replacement intervals may be shortened.

05**Replacement Instruction** Replacement Instruction Table

Replacement Item
Wiper Blade Replacement (See page 35-13)
Air Filter Element Replacement (See page 10-7)
Fuel Filter Replacement (See page 08-16)
Engine Oil Replacement (See page 14-10)
Oil Filter Element Replacement (See page 13-12)
Transmission Oil Replacement (See page 17-18)
Automatic Transmission Oil Replacement (See page 18-144)
Coolant Replacement (See page 12-10)
Brake Fluid Replacement (See page 26-9)
Electronic Throttle Replacement (See page 10-14)
Electronic Throttle Cleaning (See page 10-16)
Replace spark plug (See page 14-10)
A/C Element Replacement (See page 29-86)

Adjustment Item

Adjustment Item Table

Adjustment Item
Front Combination Light Adjustment (See page 34-63)



INSPECTION ITEM

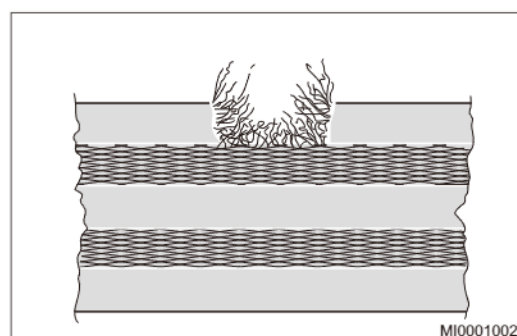
Off-vehicle Inspection

1. Check the wheel nut.
 - (a) Check wheel nuts for looseness or missing. Tighten if necessary.
2. Check the wheel and tire (spare tire included)
3. Tire rotation
 - (a) Chery recommends that you should rotate tires every 10000 km. However, the best suitable time for tire rotation differs depending on driver's driving habits and road conditions.
4. Check wiper blades.
5. Check hood and doors.
 - (a) Check hood.
 - (b) Check front door lock assembly
 - (c) Check rear door lock assembly
 - (d) Check back door.

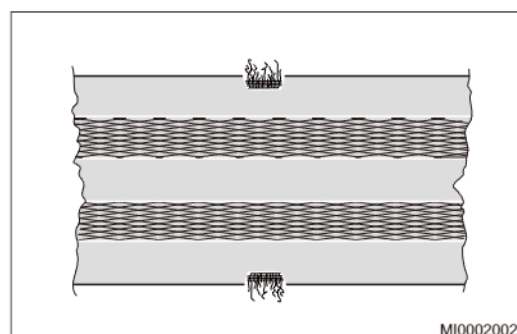
05

On-vehicle Inspection

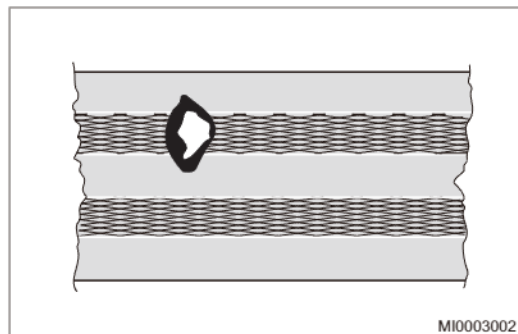
1. Check the seat belt.
 - (a) Check the seat belt buckle and retractor.
 - Pull out the seat belt quickly and repeatedly when the seat belt is static. If the seat belt retractor cannot lock the seat belt at one time during inspection, replace the seat belt assembly.
 - Engage the tab on the seat belt 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.
 - (b) Pull out the seat belt and check the belt for oil stains or damage. Clean or replace if necessary.
 - (c) Replace the seat belt as soon as possible if any of the following occurs.
 - (1) Seat belt is broken, torn or worn.



- (2) Edge of seat belt webbing is broken.



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



2. Check the horn
 - (a) Check that the horn operates.
3. Check the vehicle lights.
 - (a) 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.
 - (a) Check for scratches, dents or wear.
5. Check the windshield wiper and washer.
 - (a) Check that washers are properly aligned. Also, check that washer fluid hits the center of operating range of each wiper on the windshield.
 - (b) Check whether any wiper blade is damaged. Replace the wiper blades if necessary.
6. Check the windshield defroster.
 - (a) Turn on A/C defroster mode switch, check that air comes out of front defroster outlets.
 - (b) 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.
 - (a) Check that the rear view mirrors are securely installed.
8. Check the sun visor.
 - (a) Check that the sun visors are securely installed and move freely.
9. Check the seat.
 - (a) Check the front seat assembly.
 - (b) Check the center seat assembly.
 - (c) Check the rear seat assembly.
10. Check the clutch pedal.
11. Check the accelerator pedal.
 - (a) Check that the accelerator pedal operates smoothly. Check that the pedal does not have uneven resistance or does not get stuck in certain position.

Engine Compartment Inspection

1. Check the engine oil level ([See page 13-7](#)).
2. Check the engine drive belt ([See page 07-19](#)).
3. Check the engine for oil leakage.
 - (a) Turn off all electrical equipment and the ignition switch, and remove the key.
 - (b) Support and raise the vehicle.
 - (c) 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.
 - (d) Check oil pan and drain plug for oil stains. Repair or replace related parts if necessary.

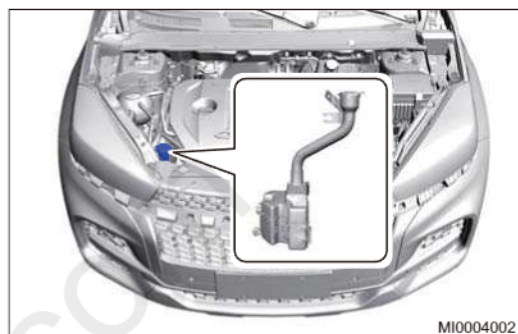


- (e) Check transmission filler plug, drain plug and case for oil stains. Repair or replace related parts if necessary.
- (f) If leakage occurs to the crankshaft front oil seal after repair, it may be caused by 3 reasons as follows:
 - (1) Crankshaft thrust washer wears.
 - (2) Crankcase ventilation system blocks.
 - (3) Engine oil is excessive.
- 4. Check the battery ([See page 16-11](#))
 - (a) Check battery and battery voltage ([See page 26-23](#)).
 - (b) Check the charging system charging voltage ([See page 26-33](#)).
- 5. Check the windshield washer fluid.

- (a) 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.
 - (a) 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.

Brake System Inspection**Warning\Caution\Hint****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.
- (a) Park the vehicle on a level ground.
- (b) 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.
- (c) Check if the brake fluid level is between "MAX" and "MIN" lines.

- (d) If the brake fluid level drops to the "MIN" line or below, add brake fluid and check the brake system for leakage.



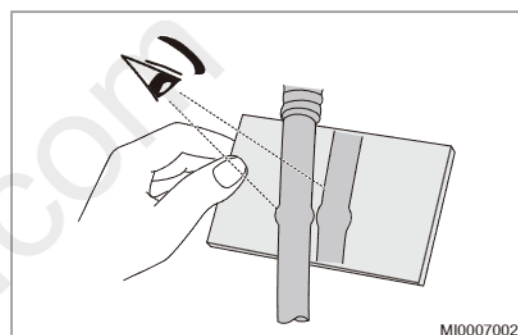
2. Check the brake pedal.
3. Check the brake lines and hoses.

Hint:

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

- (a) 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



- (b) Check all the clamps for tightness and check the connections for leakage.

- (c) Check that the hoses and lines are not near the sharp edges, moving parts or exhaust system.

4. Check the parking brake.

- (a) Check that the parking brake can hold the vehicle steadily on a slight slope.

5. Check front disc brake assembly.

6. Check rear disc brake assembly.

Power Steering System Inspection

1. Check the steering wheel free play.
2. Check the steering wheel centering / returnability.
3. Check the ball pin assembly.
4. Check the steering tie rod assembly and tie rod boot.

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, rubber mounting and rubber boot.
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 trailing arm assembly.
9. Check the exhaust pipe.



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

Final Inspection

1. Check the operation of body parts.
 - (a) Hood.
 - Check if hood support rod is proper.
 - Hood locks securely when closed.
 - (b) Front and rear doors.
 - Door locks operate properly.
 - Doors close properly.
 - (c) Back door.
 - Door lock operates properly.
 - Back door closes properly.
 - Power back door closes properly.
 - (d) Seats.
 - Seats are adjusted freely and locked securely in any position.
 - Front seatback can be locked securely in any position.
 - Center seatbacks can be locked securely after folding down.
 - 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
 - Seat