



Warranty and Maintenance Manual

M8 PHEV NZL



Foreword

Thanks for choosing GAC Motor!

We are sure that GAC Motor will bring you greater driving pleasure. In order to keep your vehicle in good condition for a long time, please be sure to go to the GAC Motor authorized shop for regular maintenance in accordance with “Regular maintenance schedule” in this manual, where quality services will be provided for you at a reasonable price, and the technical personnel who have received professional training from GAC Motor Co., Ltd. (hereinafter referred to as “GAC Motor”) will perform the maintenance according to the specific operation specification.

This manual is a certificate for warranty and maintenance of your vehicle. Please enter the user information carefully in this manual and properly maintain the manual. You are requested to present this manual when you receive the vehicle maintenance service or file a warranty claim in the GAC Motor authorized shop.

Best wishes for you. We hope we can bring you pleasant driving experience!

GAC International Automobile Sales & Service Co., Ltd

Warranty certificate

User information	Vehicle information
Owner name:	Vehicle model:
Owner's attribute: Profession:	Frame number:
Tel.:	Engine number:
Address:	License plate number:
Postcode:	
Purchase YYYY Month date: DD	
Signature of vehicle owner:	Name of authorized shop conducting first maintenance: (Seal)
YYYY Month DD	Name of authorized shop: (Seal)
	YYYY Month DD YYYY Month DD

Warranty copy: user retention

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1. Vehicle handover

1.1 Pre-delivery inspection (PDI)

The vehicle indicated in the Warranty Certificate attached to this manual has been subjected to PDI in accordance with the provisions specified by GAC Motor. Please ask for the PDI checklist from the dealer for specific inspection items.

Inspection date:

Inspector:

Seal of authorized shop:

1.2 Vehicle handover

Before delivery, the GAC Motor authorized shop will inspect and clean the vehicle completely and submit the PDI checklist to you for your confirmation and signature.

If you are unsatisfied with the condition of the delivered vehicle, please inform the GAC Motor authorized shop and ask for re-adjustment.

Followings are to be handed over with vehicle (e.g.: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No)	
<input type="checkbox"/> <i>Owner's Manual</i> <input type="checkbox"/> <i>Warranty and Maintenance Manual</i> <input type="checkbox"/> <i>Driving Guide</i> <input type="checkbox"/> <i>Emergency Rescue Manual</i> <input type="checkbox"/> <i>Certificate of Product Conformity</i> <input type="checkbox"/> <i>Certificate of Vehicle Conformity</i> <input type="checkbox"/> First key	<input type="checkbox"/> Second key <input type="checkbox"/> Inflator pump + tire sealer <input type="checkbox"/> Warning triangle sign <input type="checkbox"/> Reflective vest <input type="checkbox"/> Driver's tools (see the Owner's Manual) <input type="checkbox"/> Completed PDI form
It is hereby confirmed that I have checked the items listed above and accepted the purchased vehicle.	
Signature of vehicle owner/ authorized person:	
*Please pay attention to checking, if any, the operation instructions provided for your vehicle.	

2. Warranty instructions

2. Warranty instructions

2.1 Warranty object

Vehicles manufactured by GAC Motor and sold and serviced through its designated channels.

2.2 Warranty period

The warranty period refers to the period or mileage calculated from the date the dealer issues the purchase invoice.

Vehicles	Basic warranty period (whichever comes first)
Vehicle	5 years or 150,000 kilometers
The three electrics	8 years or 150,000 kilometers
The three electrics include power battery, driving motor and motor control unit.	

2.3 Warranty coverage

For quality problems resulting from material quality or manufacturing process during the warranty period of the vehicle, the GAC Motor authorized shop provides free quality warranty services for the vehicle owner, including restoring the functions of the vehicle, to ensure proper use of the vehicle.

2.4 Warranty terms

1. When verifying the warranty items, the GAC Motor authorized shop will consider the following conditions, which are outside the warranty coverage of the GAC Motor:
 - a) Use of a vehicle in a country or region other than that where the vehicle is sold;
 - b) Vehicle damage caused by the maintenance, repair and adjustment performed in places other than the GAC Motor authorized shop;
 - c) Vehicle defects caused by use of parts, lubricating grease and liquids other than genuine ones specified by GAC Motor;
 - d) Vehicle damage caused by negligence, improper handling and the driving methods other than those specified in the Owner's Manual or the operation outside the limit operating range (such as maximum load and seating capacity) of the vehicle;
 - e) Vehicle damage caused by application of corrosive or low-quality cleaning agent;
 - f) Modification, addition, adjustment and removal of the vehicle prohibited in the Owner's Manual without the approval of GAC Motor;
 - g) Vehicle damage caused by abnormal use, improper handling, negligence or the operation performed by the unqualified or unskilled driver and the application for races (such as vehicle race or motor rally);
 - h) Sensation problems that do not affect the vehicle performance: The warranty of GAC Motor does not cover the defective sensation problems that do not affect the quality, function or performance of products;

- i) Any damage caused by improper storage or transportation;
 - j) Vehicle defects caused by the natural disasters, adverse weather, war, fire, traffic condition, theft or attempted theft and its secondary damage incurred;
 - k) Vehicle damage caused by the environmental conditions other than the normal operation conditions of household automobiles (such as air pollution, chemical compound, guano, sea salt or other corrosive substances);
 - l) Vehicle corrosion or fault caused by the water immersion;
 - m) Vehicle surface corrosion caused by the flying stone or external scratch;
 - n) Aging of body paint, headlamps or other parts caused by natural factors.
2. The warranty does not cover the maintenance items, fluids and auxiliary materials that are not necessary for the warranty and maintenance.
 3. The warranty does not cover the following incidental charges:
For example:
 - Expenses for communication, mediation, meal and accommodation because of a fault.
 - Any relevant personal injury or property damage.
 4. GAC Motor reserves the right to determine the repair methods and warranty coverage.

5. All parts under the warranty coverage are the property of GAC Motor.
6. The fuel, lubricating grease and fluids specified by GAC Motor shall be used.

CAUTION

To avoid the dispute over the warranty liability, please note that:

- The dispute over the warranty liability may arise if the vehicle is not subject to regular maintenance and inspection at a GAC Motor authorized shop according to the *Owner's Manual* and the *Warranty and Maintenance Manual*.
- The dispute over the warranty liability may arise if the user changes the original state of fault deliberately after the fault occurs so that the fault cannot be identified or the user has fraudulent behavior.



This manual only shows the base warranty period, please scan the QR code to check the specific warranty date

2. Warranty instructions

2.5 Responsibilities and notes to vehicle owners

1. Subject your vehicle to first maintenance at a GAC Motor authorized shop within 5,000 km mileage or 3 months (whichever comes first).
2. Make sure that your vehicle is maintained and inspected at the GAC Motor authorized shop according to the regular maintenance schedule in this manual.
3. Get any fault of your vehicle inspected and repaired at the GAC Motor authorized shop in time, which may be covered under the warranty.
4. Do not make unsafe changes or modifications to your vehicle (e.g., engine modifications, vehicle performance changes, light brightness changes and circuit modifications).
5. Carefully read the *Owner's Manual* attached before driving to vehicle damage caused by misoperations and negligence.

CAUTION

- The dispute over the warranty liability may arise if the vehicle is sent to any places other than the GAC Motor authorized shop for maintenance and repair.
- The vehicle that has not received first maintenance (referring to the maintenance within 5,000 km or 3 months (whichever comes first)) will be rejected for free first maintenance.

Note: Please bring this manual with you when you go to the GAC Motor authorized shop.

2.6 Obligations of GAC Motor authorized shop

1. Fill in the Warranty Certificate contained in this manual and explain the warranty procedures of GAC Motor vehicle when delivering a new vehicle to the user.
2. Explain the importance of regular maintenance fully to the user.
3. Ensure that any maintenance and repair can be completed according to the standard specified by GAC Motor, whether they are covered under the warranty or not.
4. For the damage or defects under the warranty coverage, the authorized shop should provide necessary vehicle repair or treatment to the user.

3. Maintenance instructions

3.1 Agreement on first maintenance

The first maintenance shall be completed within 5,000 km or 3 months (whichever comes first).

The first maintenance is provided by GAC Motor free of charge. Please bring this manual and the first maintenance electronic voucher to the GAC Motor authorized shop for the first maintenance. First maintenance items include:

1. Replace the hub bearing
 - a. Engine oil, and drain bolt washer and oil filter
 - b. Mechatronic coupled transmission pressure filter element, oil seal for press filter cover
 2. Add the fuel system cleaning agent
 3. Check and replenish: coolant, brake fluid, windshield glass washer fluid
 4. Check:
 - a. battery charging condition
 - b. Operation of parking brake and brake pedal
 - c. Dust cover of drive shaft (check for leakage or damage)
 - d. Tightening condition of wheel fixing bolt
 - e. Wear pattern and pressure of the tire/ hub (having tire rotation when necessary)
 - f. Whether the connection of steering tie rod is firm
 - g. Condition of the underbody
 - h. Operation of wiper/washer (adjust the nozzle when necessary)
 - i. Check the chassis bolts (check and tighten the bolts to the specified torque)
 - j. Check whether there are leaves or other debris on the surface of the wiper cover
 - k. Operation of interior and exterior lamps and electrical devices of the vehicle body
 - l. Thickness and wear pattern of the brake disc and brake lining
 - m. Check the bolts connecting to the engine combiner box bolts and the rear suspension connecting bolts (check and tighten them according to the specified torque)
 - n. Check the appearance of high-voltage connectors and low-voltage connectors for damage and loose connectors.
 - o. Whether the power battery high-voltage harness and low-voltage harness are connected securely. Read the DTC with the diagnostic scan tool
 - p. Whether the electromechanically coupled transmission has oil leakage, fluid leakage, knocking, breakage; whether the bolts connecting with the engine compartment and the rear suspension connecting bolt are loosened or torque attenuation
 - q. Whether the high and low voltage connection harnesses of electromechanically coupled transmissions are securely connected, whether there is interference with neighboring parts or dynamic interference wear; whether the fixing brackets are loose.
 - r. Check for looseness between the high-voltage harness cable and the connector.
 - s. Check whether the threading hole sheath of the high-voltage harness is intact and whether the harness is frayed.
5. Clean air filter element, sliding door chute
 6. Self-diagnosis: check the fault message with the professional diagnostic scan tool

3. Maintenance instructions



3.2 Regular maintenance schedule

If necessary, perform the maintenance according to the procedures for refilling, cleaning, washing, adjustment, lubrication, repair or replacement after the inspection.

Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
★Replace engine oil		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Replace the engine oil filter		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the spark plug		N/A																
Replace the spark plug ^{*1}						•				•				•				•
Check water pump belt			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Replace the water pump belt								•						•				
Replace the fuel filter ^{*2}										•								•
Replace the canister filter						•				•				•				•
Check and clean the air filter element	•	Subsequent exemption from inspection																
Clean the air filter cover and replace the air cleaner element				•		•		•		•		•		•		•		•
Check the cooling system for leakage and add the coolant when necessary	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
★Change engine coolant					•			•			•			•				•
★Replacement of intercooling system coolant and integrated motor control unit coolant					•			•			•			•				•

Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
★Replace the battery motor cooling system coolant					
Replacement of electromechanically coupled transmission pressure filter element, oil seal for press filter cover	
★Change electromechanically coupled transmission fluid					
★Replace brake fluid			
Add the fuel system cleaning agent
Check the exhaust (only for leakage; the exhaust compositions are to be inspected during the annual inspection)	
Check the parking brake and the brake pedal (check the function and free travel of the pedal and parking brake)
Check the brake disc and brake lining (check their thickness and wear and tear, and replace them when necessary)
Check the wheel fixing bolt (check and tighten the bolt to the specified torque)

3. Maintenance instructions



Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
Check the wear and tear of the tire/hub, carry out tire rotation and correct the tire pressure when necessary	
Check the chassis bolts (check and tighten the bolts to the specified torque).	
Check the brake system (check the brake fluid pipelines for leakage and inspect the brake fluid level and add the brake fluid when necessary)	
Check the steering tie rods (no loose ball joints of the tie rods, no oil leakage from the dust cover, and firm connections)	
Check the underbody (check the fuel pipe, brake fluid pipe and underbody protective layer for damage, and the exhaust pipe for leakage and looseness)	
Replace the fuel (gas) hose											.							

Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
Check the suspension ball joint and dust cover (check for loose ball joint or leaky dust cover)				•		•		•		•		•		•		•		•
Check the suspension components (check whether the bush is free from aging and breakage, the connecting bolts and nuts are tightened to specified torque and the linkage is free from deformation and cracks)				•		•		•		•		•		•		•		•
Check wiper/washer (check wiping cleanliness of wiper blades, replace the blades if necessary, fill washer fluid, check functions, and adjust the nozzle if necessary).		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check whether there are leaves or other debris on the surface of the wiper cover		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the door check, dowel pins, door locks, hinges and buckles of engine hood/liftgate (check function, clean dust on the check and lubricate it)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

3. Maintenance instructions



Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
Apply grease to PLG drive rod/balance rod/gas spring ball nest for lubrication (without disassembling the two rods).			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the interior and exterior lamps and electrical devices of the vehicle body		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Self-diagnosis (check the fault message with the professional diagnostic scan tool)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the battery (check the battery condition with the special tool, check if the connections to the positive and negative terminals of battery are firm and check the battery voltage)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the headlamp (check the lamplight and adjust it when necessary)			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check electromechanically coupled transmissions for oil leaks, fluid leaks, knocks, and breaks		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the A/C filter element				•		•		•		•		•		•		•		•

Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
Check each high and low voltage connection harness of the electromechanically coupled transmission (for interference or dynamic interference wear)		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check seat headrests and slides, rear seat floor locks (need to clean out dust or foreign matter, add lubricant if necessary)				•		•		•		•		•		•		•		•
Check for looseness between the high-voltage harness cable and the connector.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check whether the threading hole sheath of the high-voltage harness is intact and whether the harness is frayed.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Check the appearance of high-voltage connectors and low-voltage connectors for damage and loose connectors.		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

3. Maintenance instructions



Perform the maintenance according to the specified mileage or time interval	Kilometer x 1000	5	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240
	Months	3	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192
Check the bolts connecting to the engine combiner box bolts and the rear suspension connecting bolts (check and tighten them according to the specified torque)	
Clean sliding door runners (add grease if necessary)	
Replace the A/C filter element			
Test run (performance inspection)	
Dust cover of drive shaft (check for leakage or damage)	

★: The amount of engine oil, coolant and brake fluid should be practically checked before each trip.

*1 : If there is impurity in the gasoline used, please replace the spark plug frequently. If the engine idle speed is unstable, the spark plug should be replaced immediately.

*2 : If there is impurity in the gasoline used, please replace the fuel filter frequently. If the fuel filter is found to be clogged with impurities, replace it immediately.

3.3 Supplementary maintenance under harsh driving conditions

The maintenance cycle is determined based on normal driving conditions. If the vehicle is used under one or more harsh conditions, it is necessary to increase the number of times of maintenance for some items or shorten the maintenance cycle.

Harsh conditions include:

1. Frequent short trips
2. The engine is kept running at an idle speed constantly and the vehicle runs intermittently (for example: the vehicle is used as a taxi).
3. Driving in muddy, dusty areas;
4. The vehicle is used for towing a tow truck frequently, or luggage is placed on the roof rack during vehicle running, or the vehicle runs on a mountain road.
5. The vehicle runs for a long time in extreme cold (below 0°C) or hot (above 35°C) climates.
6. The vehicle runs for more than 20,000 km every year or runs at high speed frequently;
7. The vehicle runs for a long distance at a low speed.
8. Continuous highway driving (80% of maximum speed or more) for more than 2 hours

3. Maintenance instructions



Item	Harsh conditions	Maintenance requirements
Replace the engine oil and replace the oil filter	1, 2, 3, 5, 7	2500 km or 3 months
Replace the engine coolant	3, 5, 6	40,000 km
Change electromechanically coupled transmission fluid	4, 8	80,000 km or 36 months
Check the wheel fixing bolt	1, 2, 3, 4, 5, 6	5,000 km or 3 months
Check the chassis bolts (check and tighten the bolts to the specified torque)	1, 2, 3, 4, 5, 6	Every 10,000 km or 6 months
Check the steering tie rod (check the clearance and check whether the connection is firm)	1, 2, 3, 4, 5, 6	Every 10,000 km or 6 months
Check the suspension ball joint and dust cover (check for loose ball joint or leaky dust cover)	1, 2, 3, 4, 5, 6	Every 10,000 km or 6 months
Check the suspension components (check whether the bush is free from aging and breakage, the connecting bolts and nuts are tightened to specified torque and the linkage is free from deformation and cracks)	1, 2, 3, 4, 5, 6	Every 10,000 km or 6 months
Replace the A/C filter element	3, 5	10,000 km

Note: Use of the vehicle in adverse conditions should increase the frequency of maintenance of the air cleaner, carbon canister filter and accessory belts.

3.4 Regular maintenance record

5,000 kilometers or 3 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

15,000 kilometers or 12 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

30,000 kilometers or 24 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

45,000 kilometers or 36 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

60,000 kilometers or 48 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

75,000 kilometers or 60 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

90,000 kilometers or 72 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

105,000 kilometers or 84 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

120,000 kilometers or 96 months
Mileage: _____ Date: _____
Year__ Month__ Day__
Dealership: _____

135,000 kilometers or 108 months
Mileage: _____ Date: _____
Year__ Month__ Day__
Dealership: _____

150,000 kilometers or 120 months
Mileage: _____ Date: _____
Year__ Month__ Day__
Dealership: _____

165,000 kilometers or 132 months
Mileage: _____ Date: _____
Year__ Month__ Day__
Dealership: _____

3. Maintenance instructions



180,000 kilometers or 144 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

195,000 kilometers or 156 months
Mileage: _____
Date: Year__ Month__ Day__
Dealership: _____

4. User information registration/change record

User information registration/change record	
User information	Vehicle information
Owner name:	Vehicle model:
Owner's attribute: Male/female/unit	Frame number:
Address:	Engine number:
Postcode:	Key number:
Phone number:	<p>When the original user information registration content in the warranty certificate changes, GAC Motor authorized shop must fill in the change record and report it to the GAC Motor Co., Ltd..</p> <p style="text-align: center;">Dealer name (seal): Person in charge (signature):</p>
Date of change: YYYY Month DD	
Contact:	
Address:	
Postcode:	
Phone number:	
Signature of owner:	YYYY Month DD
YYYY Month DD	



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