

1. CAUTIONS FOR INSTALLATION OF ELECTRIC COOLANT PUMP

- 1) When replacing the electric coolant pump, exhaust the cooling system first and refill the coolant. Prevent liquid scale and impurities from blocking the electric coolant pump.
- 2) After installing the new electric coolant pump, exhaust the cooling system and check the water tightness.
- 3) Please use the coolant specified by the original BMW factory.
- 4) Keep the vehicle battery capacity sufficient.
- 5) Please DO NOT open the sealing cover or water valve of the coolant expansion tank when the coolant temperature is high.

2. EXHAUST AND CHECK WATER TIGHTNESS



RISK OF BURNS

Warning!

The sealing cover of the coolant expansion tank can only be opened when the engine is cold.



Note!

For example, after replacing components of the cooling system or refilling the coolant, the following exhaust process must be performed. DO NOT open the sealing cover of the coolant expansion tank during the exhaust process.

• Exhaust the cooling pump system:

- 1) Connect the battery charger.
- 2) Turn on the ignition switch.
- 3) Adjust the heating device to the maximum temperature and return the fan to the minimum gear.
- 4) Depress the accelerator pedal to the limit position for 10 seconds, the engine must not be started.
- 5) The exhaust process has been started by pressing the accelerator pedal and lasted for 12 minutes. (Start the electric coolant pump and automatically shut down after about 12 minutes).
- 6) Then fill the coolant expansion tank so that the liquid level exceeds the maximum valve of 100ml.

- 7) Check the water tightness of the cooling system.
- 8) If it is necessary to exhaust again (for example, when the cooling system is not sealed). Turn off the DME completely (unplug the ignition key for about 3 minutes). and then repeat from point3.

3. HOW TO JUDGE WHETHER THE ELECTRIC COOLANT PUMP IS WORKING NORMALLY?

Method 1

The speed of the electric coolant pump is artificially controlled by the diagnosis computer. If the electric coolant pump can operate according to the set requirements and the diagnosis computer has a feedback display of speed information. It can be determined that the electric coolant pump is working normally.

Method 2

When the vehicle is turned off, place the vehicle key in the acc position, turn on the air conditioner. Unscrew the sealing cover of the coolant expansion tank, and observe whether the coolant in the expansion tank is flowing. If there are signs of coolant flow. You can determine that the electric coolant pump is working normally.



Warning!

The cooling system can only be processed when the engine is cold. Unscrew the sealing cover of the coolant expansion tank.

RISK OF BURNS

4. ANALYSIS FAULT CODE.

Fault code 002E83 DME electric coolant pump speed deviation. (The speed is out of tolerance)

Fault code 002E84 DME electric coolant pump is missing.

If the diagnosis computer enters the DME system to check the above fault code. It is recommended to check whether the coolant pump is damaged. Please see Article 3 for specific inspection method.

• Cautions for using electronic coolant pump:

- 1) If the air is not cleaned. It will cause the vehicle the alarm when the water temperature is high. At this time, the air needs to be removed again, and the fault code is reset and the test run.
- 2) Please use bmw's original antifreeze liquid. If the quality of the antifreeze liquid is not good, long-term use will cause damage to the pump.
- 3) For vehicles with long kilometer drive, please check the scale and dirt in the water tank

while replacing the electronic coolant pump. If the water tank is too dirty, impurities circulating through the coolant will cause the water pump to damage.

- 4) If you need to replace the water pump plug on the original car, be sure to pay attention to the wiring. If the communication line is connected to the ACC line, the water pump will run constantly.
- 5) Normally, after the vehicle is turned off, the ECU will decide whether to continue to run for a while according to the water temperature. After the water temperatures is normal, it will stop. Therefore, if the vehicle is turned off and the water pump is still working, this is a normal
- 6) phenomenon. Generally, will run for about 15-20 minutes after the vehicle is turned off.
- 7) It is recommended to replace the thermostat the same time as the coolant pump, otherwise the damage of the thermostat will also affect the normal operation of the water pump.

TIPS

Please read carefully before installing this product, strictly follow the installation instructions above! If the violation of the above installation instructions and the original factory installation guide causes product issue, it will not be covered by the product quality after-saves service.