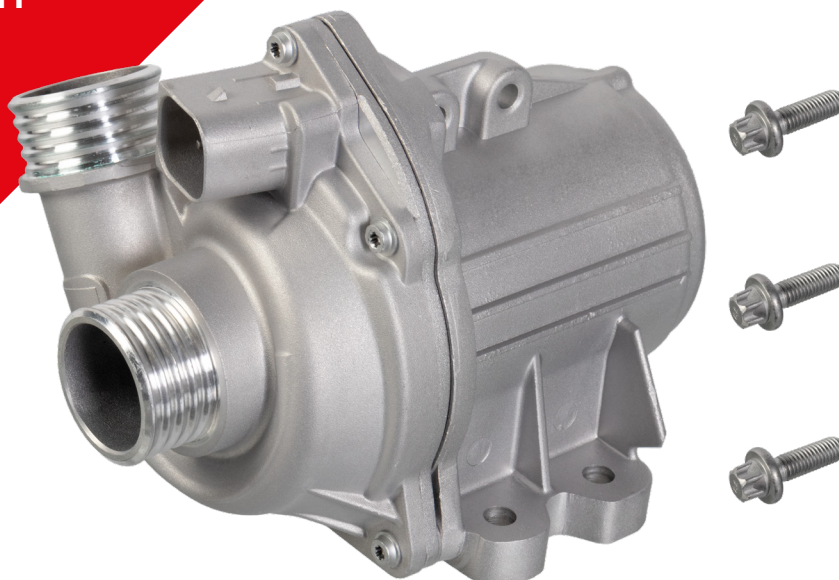


febi 47160**48424, 48425, 48426,****100336, 101104, 178011**

To fit: Various BMW models



Electromagnetic Water Pump

Cooling system coolant filling instructions

Care must be taken when carrying out maintenance (such as a coolant change) to ensure that the electromagnetic water pump does not run dry.

If the pump is removed and is to be reused, it should be filled with coolant when stored.

If stored empty the pump can seize which would result in the engine overheating and potential damage. If the pump should ever become dry, the impeller should be turned by hand to ensure that it has not seized before connecting the coolant hoses.

The system should then be immediately filled with coolant. Care should be taken during assembly to ensure that the electrical connector is clean and dry and that the connections are undamaged. When replacing or refitting the water pump, the aluminium fixing bolts must be replaced and correctly tightened in accordance with the vehicle manufacturer's specifications.

When refilling the cooling system after replacing the water pump, it is essential to bleed all air from the cooling system. First, vent the air via the bleed screws on the

cooling system until bubble-free coolant can be seen, then close the bleed screws. Close the coolant expansion tank cap, then carry out the following procedure:

- Connect a battery support unit to the vehicle's battery.
- Switch on the vehicle's ignition.
- Set the heater to maximum temperature and turn the heater fan down to its lowest speed.
- Fully depress the accelerator pedal for 10 seconds. The engine must not be started.
- The electric water pump is activated when the accelerator pedal is pressed which indicates the air bleeding procedure has started. It takes approximately 12 minutes during which time the engine should not be started.
- Once the procedure is completed the water pump will automatically stop.
- Top up the coolant in the expansion tank to 100ml above max.
- Check the cooling system for leaks.

If the system needs to be re-bled (e.g. if the cooling system is leaking), allow the engine management system to completely shut down by turning the ignition off and removing the key for approx. 3 minutes, then repeat the procedure.

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