

A/C system practice task list - fault verification

Phenomenon System function	A/C solenoid valve fault	Tee valve fault	Electromagnetic expansion valve fault	Self-circulating pump fault	PTC water pump fault	Low pressure/temperature sensor fault	A/C high pressure sensor fault
Is cooling of the passenger compartment normal?	Y	Y	Y	Y	Y	N	Y
Is heating of the body normal?							
DTC							

- Summary: 1.** The A/C solenoid valve is a normally open solenoid valve, and will be closed after power-on only when the battery is separately cooled or the battery and the passenger compartment are cooled and priority shall be given to cool the battery. (BCU)
- 2.** The electromagnetic expansion valve is a normally closed solenoid valve, which is only related to battery cooling, and has nothing to do with the cooling of the passenger compartment.
- 3.** The fault of the high pressure sensor is independent of the passenger compartment cooling. Under the fault condition, the A/C control unit receives the low pressure/temperature sensor signal (this signal is received by the BCU and sent to the A/C control unit through the CAN network) to control the compressor speed.
- 4.** The low pressure pressure temperature sensor functions, and the passenger compartment has no cooling function.
- 5.** Due to the fault of the PTC water pump of test vehicle, the passenger compartment heating function verification can not be completed through this task list.