

## Practice task list of motor, battery and electrically-controlled system

Phenomenon		Symptom						
		Can the heavy current be supplied?	Is READY available?	Is driving possible?	Is the driving speed limited?	Does any alarm lamp on the instrument panel come on (if any, record it)?	Is there any scan tool DTC and abnormal data flow found?	Remarks of other abnormalities
Ignition switch OFF	No braking signal, master cylinder pressure signal available	Y	N	N	N	None		Power off is available.
	No braking signal, no master cylinder pressure signal	Y	Y	Y	N	None		Power off available, powerless acceleration
	No braking signal, no master cylinder pressure signal	Y	N	N	N	None		Power off is available.
	Braking signal always activated, master cylinder pressure signal available	Y	Y	Y	N	None		Power off is available.
	Braking signal always activated, no master cylinder pressure signal	Y	Y	Y	N	None		Powerless acceleration
After READY	No braking signal, master cylinder pressure signal available	Omit	Omit	N	N	None		In the P gear, the gear position is not switched, and the instrument panel always displays the P gear. No R gear
	No braking signal, no master cylinder pressure signal	Omit	Omit	Y	N	None		Powerless acceleration
	No braking signal, no master cylinder pressure signal	Omit	Omit	Y	N	The ESC lamp comes on.		Powerless acceleration

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Phenomenon	Symptom						
	Can the heavy current be supplied?	Is READY available?	Is driving possible?	Is the driving speed limited?	Does any alarm lamp on the instrument panel come on (if any, record it)?	Is there any scan tool DTC and abnormal data flow found?	Remarks of other abnormalities
Virtually connected high voltage plug with interlocking	N	N	N	N	Turtle lamp, traction battery malfunction alarm lamp		Power off is available.
The BMS module is damaged.	N	N	N	N	Turtle lamp, no battery power display		Power off is available.
The vacuum sensor is damaged.	Y	Y	Y	Y	The instrument panel displays "Vacuum source fault" .		Max.vehicle speed: 30
The accelerator pedal position sensor is damaged.	Y	Y	Y	Y	None		Idling, no acceleration
The PEPS module is damaged.	N	N	N	N	The instrument panel displays "Please turn the steering wheel" .		No display on instrument panel
The MCU/VCU module is damaged.	N	N	N	N	N gear flashing, no driving range, traction battery temperature display		Power off is available.
The water temperature sensor is damaged.	Y	Y	Y	N	None		Power off is available.
The cooling water pump is damaged.	Y	Y	Y	N	None		Power off is available.
The cooling fan is damaged.	Y	Y	Y	N	None		Power off is available.

- Summary:**
- 1. The brake switch signal determines whether the vehicle is ready, the master cylinder pressure signal determines whether the power distribution can be performed under idling (release the brake pedal, do not step on the accelerator pedal, the motor has no power distribution), at this time, starting can only be done by stepping on the accelerator pedal (power distribution mode in acceleration).**
  - 2. The interlock is disconnected, and the BMS forcibly cuts off the high voltage power of the vehicle. At this time, the vehicle has no heavy current supplied.**
  - 3. The vacuum sensor is damaged, the instrument panel prompts the corresponding information, and the vacuum pump has been working (MCU, in order to avoid the vacuum pump is damaged due to long-term operation, the vacuum pump shall stop 1-2S after working for 14S, and circulates).**