

2、Electromagnetic power master switch电磁电源总开关

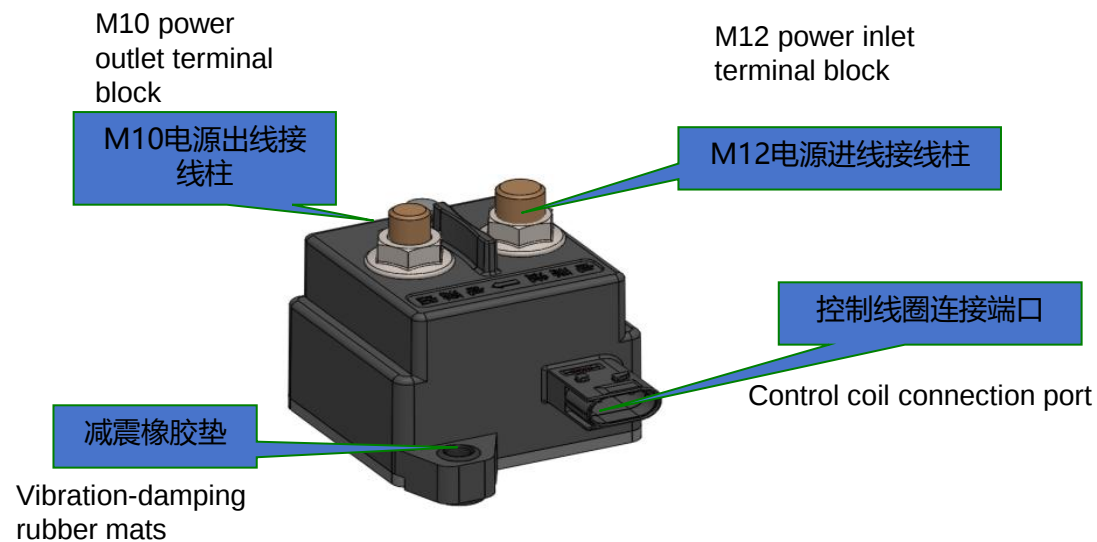
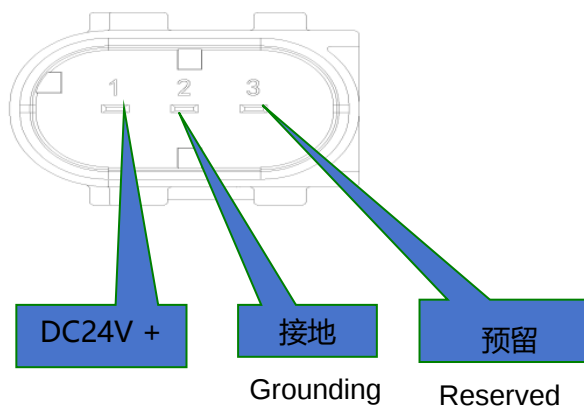
◆Function Principle功能原理

- 1、 The switch can be controlled from a distance with a small switch or ignition switch in the cab, and in case of emergency and danger, the power of the whole car can be cut off within the first time to ensure the safety of the whole car on the road. 可在驾驶室内用小开关或点火开关对开关进行远距离控制，遇到紧急危险情况，可第一时间切断整车电源，保证整车行车安全；
- 2、 The ignition switch is used to control the electromagnetic power switch on and off, and after the whole vehicle is turned off, the power of the whole vehicle is cut off by delay control; to ensure that the relevant parts are reset and will not cause the static power consumption of the whole vehicle.用点火开关对电磁式电源开关进行通断控制，整车熄火后，通过延时控制切断整车电源；保证各相关零件复位，不会造成整车静态功率的消耗；

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3、 The product has high protection performance, the product control circuit has protection function, the load contact end comes with permanent magnetic interrupting function, the product has long life, strong load capacity, and low static power consumption for long-term work.产品防护性能高，产品控制电路具有保护功能，负载触点端自带永磁灭弧功能，产品寿命长，负载能力强，长期工作静态功耗低。



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4、 When the key is inserted into the whole vehicle, the CPD controls the solenoid type power master switch to close and 30 electricity is applied to the whole vehicle.当钥匙插入整车时，CPD控制电磁式电源总开关闭合，整车上30电；

5、 After the whole car is turned off, the key is pulled out and the CPD delays for 5 minutes to control the cut-off of the whole car power, which ensures the reset of all relevant parts and does not cause the static power consumption of the whole car.整车熄火后，钥匙拔出，CPD延时5分钟控制切断整车电源，保证各相关零件复位，不会造成整车静态功率的消耗；

6、 The CPD has a detection function for the load on the control end of the power main switch. When the control circuit is overloaded or short-circuited, the CPD will cut off the power output for circuit protection. And the fault output is carried out, and the fault detection of the power main switch with contact end sticking and contact destruction is carried out at the same time.CPD对电源总开关的控制端负载具有检测功能，当控制回路过载或短路时，CPD会切断电源输出，进行回路的保护。并进行故障输出，同时对电源总关的具有触点端的粘连、触点损毁的故障检测。

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◆ Installation & Replacement Requirements 安装以及更换要求

1、 The switch must be disconnected at the control side before installation.

开关在安装前控制端必须是断开状态。

2、 M10/M12 wiring terminals should be installed according to the corresponding size of the terminals, and then screwed into the M10/M12 flange nut, (M12 for the current inflow end, M10 for the current outflow end, the direction can not be installed wrong, otherwise it will affect the use of the product effect and life), and locked with the following prescribed torque.

M10/M12接线端子应根据对应大小的接线柱分别安装后，再旋入M10/M12法兰螺母，(M12为电流流入端，M10为电流流出端，方向不可装错，否则会影响产品的使用效果及寿命)，并用以下规定的力矩锁紧。

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◆ Installation & Replacement Requirements 安装以及更换要求

- 3、 M10 bolt locking torque 18N.m ~ 20N.m. M10螺栓锁紧力矩18N.m ~ 20N.m。
- 4、 M12 bolt locking torque 30N.m ~ 32N.m. M12螺栓锁紧力矩30N.m ~ 32N.m。
- 5、 M6 bushing bolt fixing torque max. 6N.m ~ 8N.m.M6轴套螺栓固定力矩最大6N.m ~ 8N.m。

◆ Daily operation notes 日常操作注意事项

Since the X5000 electromagnetic switch is controlled by the ignition key, please pull out the ignition key when you leave the vehicle or stop using the vehicle appliances for a short time.

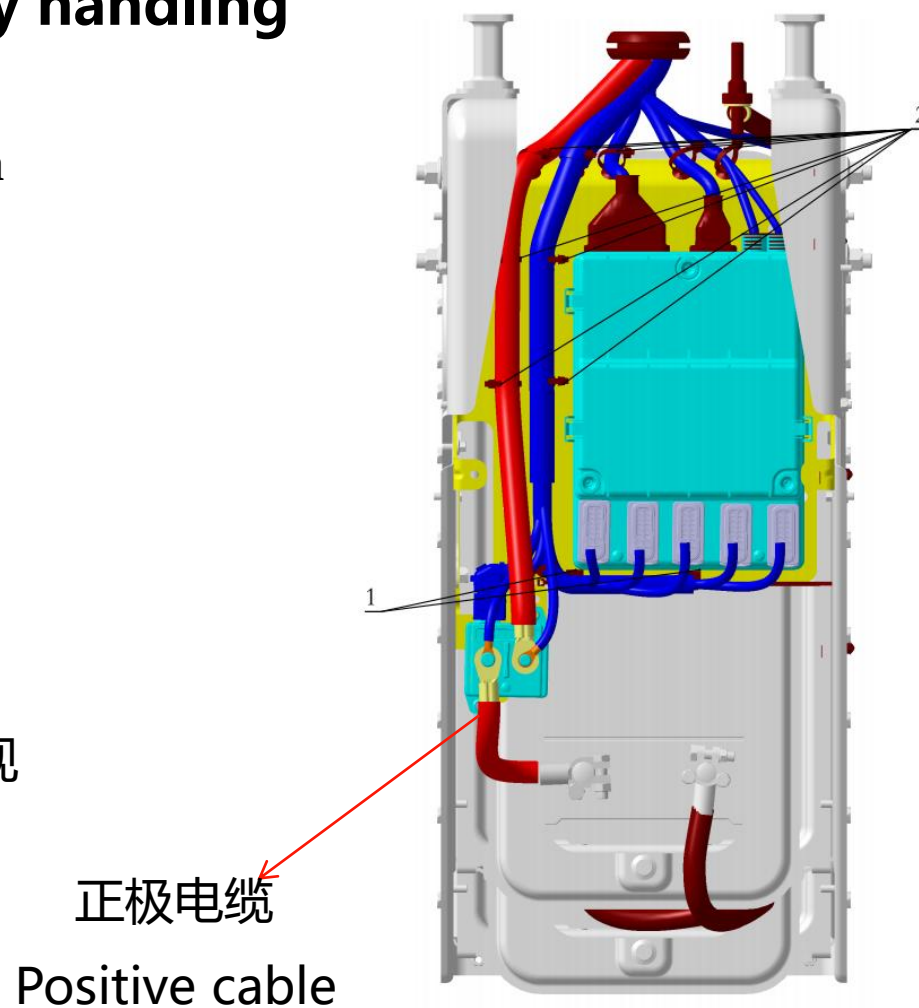
to prevent the battery from losing power. 由于X5000车型电磁开关通过点火钥匙控制，离开车辆或短时间不再使用车辆用电器，请拔出点火钥匙，以免造成蓄电池亏电。

2、Fault cases - electromagnetic type power main switch 故障案例——电磁式电源总开关

◆ Electromagnetic power main switch emergency handling 电磁式电源总开关应急处理

When there is a solenoid switch can not be connected, through the judgment of the solenoid switch failure, the site temporary positive cable power main switch lug to the power main switch output (marked on the power main switch), fixed by self-locking nuts reliable.

当出现电磁开关无法接通时，通过判断为电磁开关故障后，现场临时将正极电缆电源总开关接线片接到电源总开关输出端（电源总开关上有标记），通过自锁螺母固定可靠。

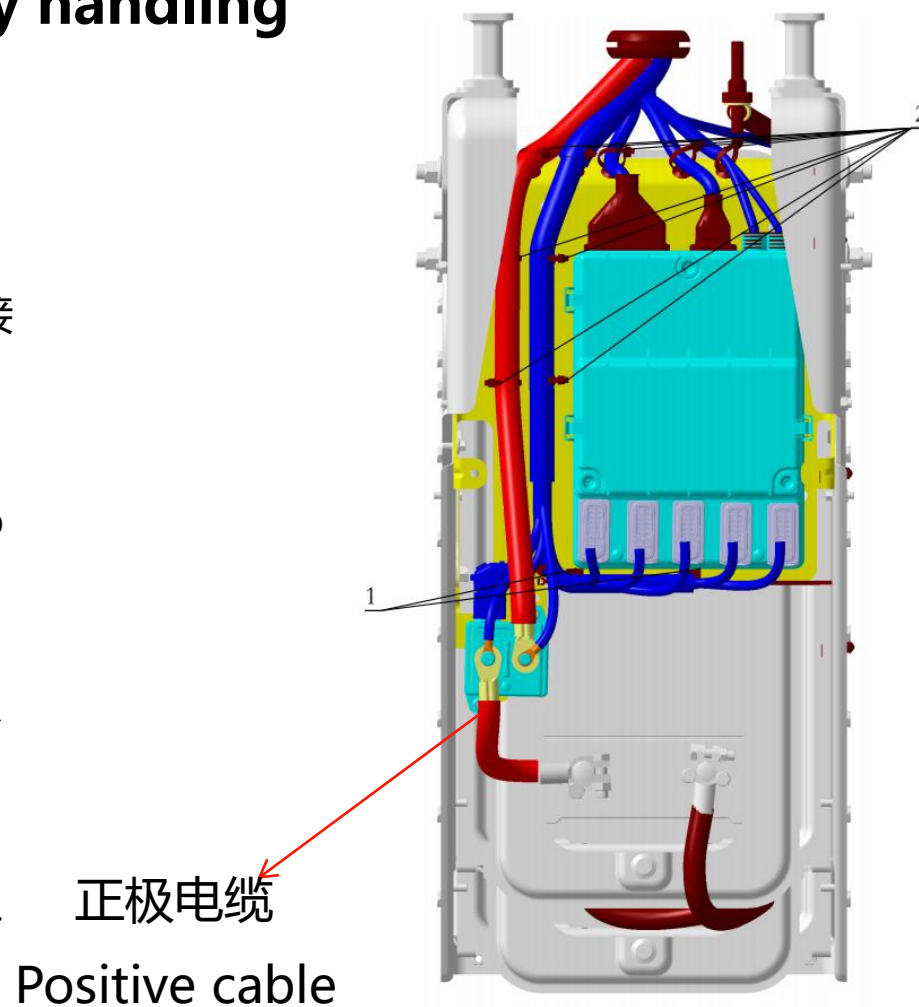


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Ps. 注意:

- 1、 The power main switch lug fixing nut must be fixed firmly.电源总开关接线片固定螺母必须固定牢靠;
- 2、 The battery connection wire must be disconnected during the operation to avoid firing.操作过程中必须断掉蓄电池连接线, 以免打火;
- 3、 This program is a temporary measure, after the vehicle starts successfully need to go to the nearest service station as soon as possible for maintenance treatment.此方案为临时措施, 在车辆起动成功后需尽快前往就近服务站进行维修处理。



2、Fault cases - electromagnetic type power main switch 故障案例——电磁式电源总开关

◆ Poor contact does not energize 接触不良不通电:

When the coil of electromagnetic power switch is connected with DC24V power, the contact group of the switch should be sucked in immediately, and the contact group of the switch should have a popping sound when it is connected.

当电磁式电源总开关线圈通以DC24V电源时，开关的接触组应立即吸合，开关的接触组在接通应有啪哒声响，将万用表打到低电阻档位处，用两表笔分别碰触开关的二个接线柱(M10,M12)，万用表数值显示为数值为0，同时有蜂鸣声响起，则开关接通正常，反之失效。

2、Fault cases - electromagnetic type power main switch 故障案例——电磁式电源总开关

◆ The switch is always on and does not stop 开关常通不断电:

When the coil of electromagnetic power main switch disconnects the DC24V power supply, the contact group of the switch should be released immediately, and the contact group of the switch should be reset immediately under the action of the reset spring, and the contact group should be disconnected, and the multimeter should be turned to the low resistance position, and the two terminals of the switch (M10,M12) should be touched with the two meter pens respectively, and the value of the multimeter should be displayed as **OL**. If the switch can not be disconnected, the switch is not working.当电磁式电源总开关线圈断开DC24V电源时，开关的接触组应立即释放，开关的接触组在复位弹簧的作用下应立即复位，接触组断开，将万用表打到低电阻档位处，用两表笔分别碰触开关的二个接线柱(M10,M12)，万用表数值显示为数值为**OL**，表示开关已经断开，开关分断正常，若不能断开，则开关失效。