



智能驱动
物联未来

C-BOX 云盒

—中电物联网终端使用手册

C-Box External Remote System Manual



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<http://www.canplus.cn>

(86)0731-85262618 canplus@163.com



- 1、系统功能及组成
System function & components
 - 2、同行业参考
Reference for the same industry
 - 3、系统特征 System Features
 - 4、电气性能及接口定义
Electrical performance &
interface definition
 - 5、产品尺寸 Produce Size
 - 6、臂式、剪叉等现场安装方法
Site Installation Method
- 附：物联网简介
Introduction to IOT



- 1、首推**三年质保**(中电统一服务), **100%自防护,IP65**
No1: Warranty 3 years, 100% Self-Protection, IP65
- 2、**高可靠稳定**——国际通用总线工程控制器设计模式
High reliability&stability, Engineering controller-Mode,IP65
- 3、**全覆盖各型车辆**, 集车况、工况及报警于一体
——数据侦听与交互, 双CAN总线(可选ModBus)+
24P汽车连接器-IO
Full coverage vehicle, condition&alarm, 2-CAN, 24P Connector
- 4、**多协议自适应**、远端遥控与限制
后台强健, 移动便利
Multi protocol adaptation , Remote remote control and restriction
- 5、**适应多施工场景**——集成**北斗、GPS及基站**
三选一优选定位
Adapting to multiple scenes, Integrated Beidou GPS honeycomb
- 6、**适应现场多安装方法** (**法兰面推荐**、强吸磁、3M胶)
Adapt to multi site installation mode



专业·专注



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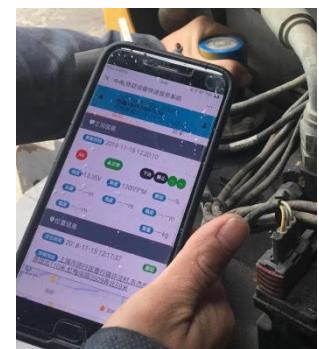
智能驱动 物联未来

C-BOX 智能云盒

物联网云盒/GIS多功能终端



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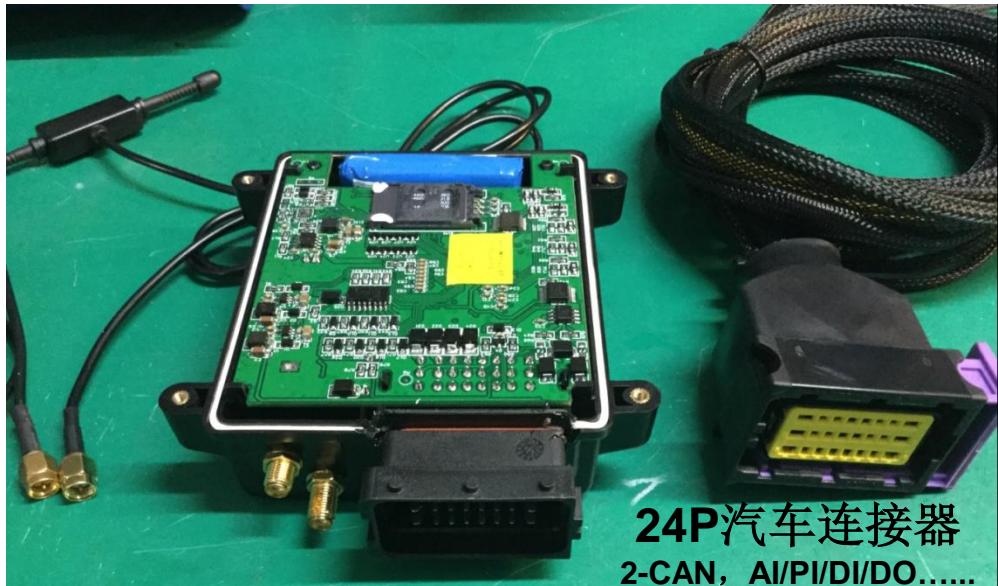


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中电 C-BOX 物联网终端



常规/同行第三方 GPS终端



全车型覆盖，全协议侦听与自适应，全车况、工况及报警，过程记录与统计指导预维护，北斗GPS蜂窝三模优选定位.....



系统基本应用与管控

用于车辆远程系统信息的采集、远传和监管控制，实时设备车况及作业工况、报警及GPS等信息；重点在车况、工况信息，报警信息，车辆区域及位置，锁车与解锁控制。

System application and function:

It is used for remote system information acquisition and control , equipment operating conditions real-time monitoring, warning and GPS etc.

Main functions include:

real-time location information collection,
working condition information collection,
alarm information collection,
vehicle lock and unlock control.

系统组成:

C-BOX控制盒及安装线束（依据车型及车体上的插头不同而不同），参见右图。

System components:

C-box control BOX and mounting wire harness (plug part no is adjustable to compatible with connectors of the original platform), as shown in the pictures.



系统特点(Main Features):

1) 产品适应性广——全系产品覆盖，安装简单方便。

Wide adaptability, simple & convenient installation, can be directly attracted to vehicle.

2) 接线简单方便，常规只需接5根线即可实现（2-电源 2-CAN 和1-控制）。

Simple & convenient wiring with only five wires can be connected.

3) 统一接入远程云服务平台，融合臂式、剪式等一体化电控系统及**ECU**，可实时管理。

Access to remote management platform, provide equipment real-time monitoring service.

4) 高可靠与稳定性，PCB板卡提供三年质量保证。

High reliability & stability, PCB board provide three years of quality assurance

5) 多重保护与使用防护，**IP65** 防护等级。

Multiple protection & use protection, IP65 protection grade .

6) 2路-标准 CAN2.0B 总线通讯协议（其中1路可接电喷发动机），并可选用ModBus接口。

24芯汽车连接器可扩展IO (AI PI DI DO ...)

Standard can2.0B bus communication protocol. 24-IO Extend.

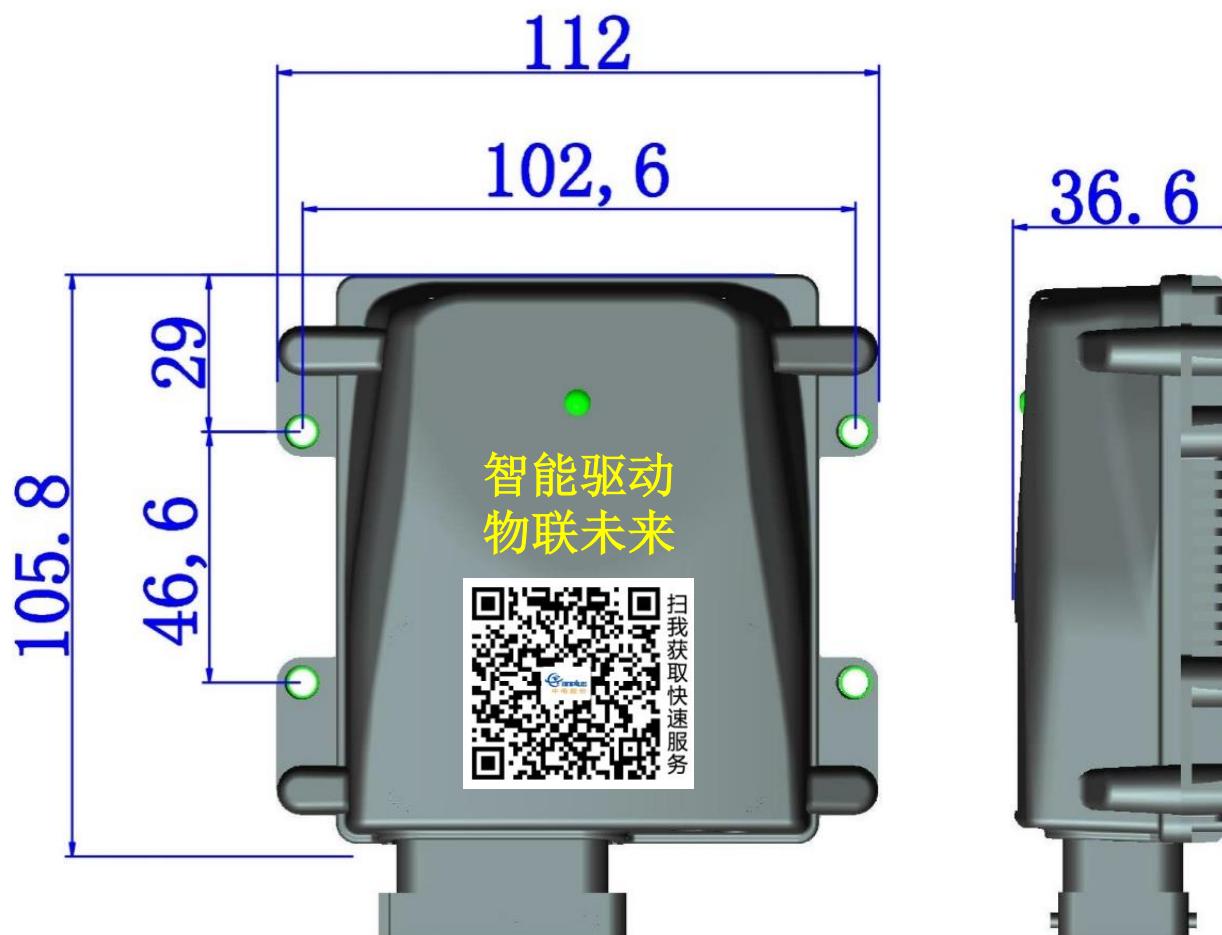


电气规格(Electrical Specifications):

项目 NO	C-BOX
工作电压 Operating Voltage	9V ~ 36V DC
其它电性性能 Other Electrical Characteristics	IEC61000, IEC60950, EN55022, EN55024

常用接口定义(其他扩展另见手册) (Common Interface):

Pin 引脚	Input 输入/Output 输出	Function 功能	Character 特性
A7(2)	Communication 通信	PCU Communication PCU通信+	CAN Level CAN 电平
A6(3)	Communication 通信	PCU Communication PCU通信—	CAN Level CAN 电平
A1 (8)	Output 输出	Output Control 输出控制	24VDC/2A
B7(10)	Communication 通信	PCU Communication PCU通信+	CAN Level CAN2 电平
B6(11)	Communication 通信	PCU Communication PCU通信—	CAN Level CAN2 电平
C8 (17)	Power 电源	地Ground	0VDC/2.5A
C1 (24)	Power 电源	Power in电源入+24V	24VDC/2.5A



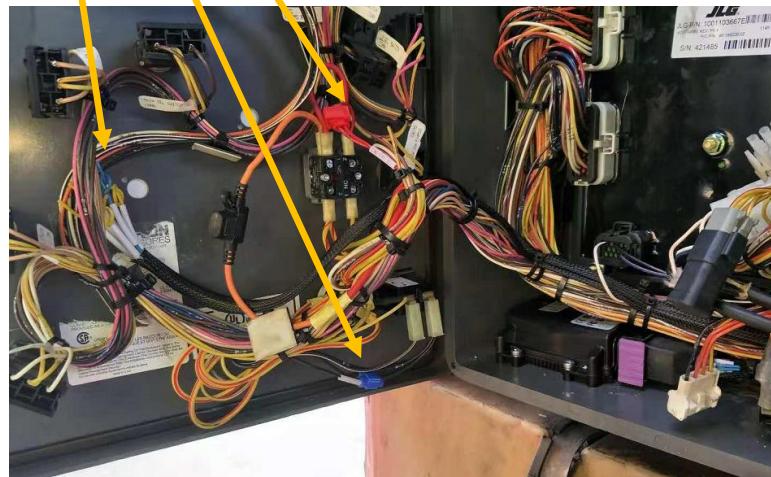


1：参照相关设备接线图或建议，连接或监测电源电瓶（参见剪叉部分）。

The c-box wiring harness's battery is positive and the negative terminal is installed on the vehicle's battery is positive and the negative terminal (see the scissor lift part). 。

2：把C-BOX控制盒的输入、输出信号线与面板上相应的信号线(如平台/转台转换,发动机相关报警,臂架起升输出等)接在一起, 接好后把线束固定好。 (视需要而接)

Connect the input signal line of the c-box control BOX with the corresponding input line on the surface, and then fix the wire harness.





3: 把C-BOX的CAN1H, CAN1L与臂车系统的CAN_H,CAN_L分别接在同一个并线扣中，并压好线，红色为CAN_H。

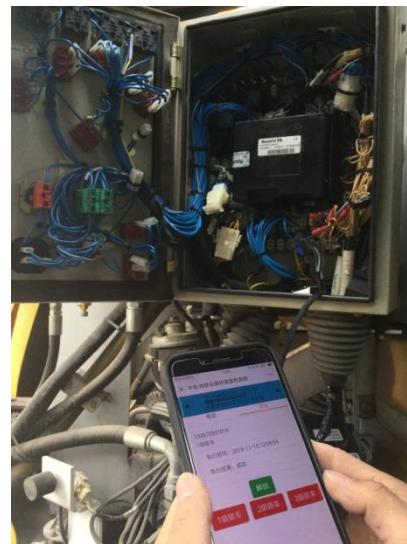
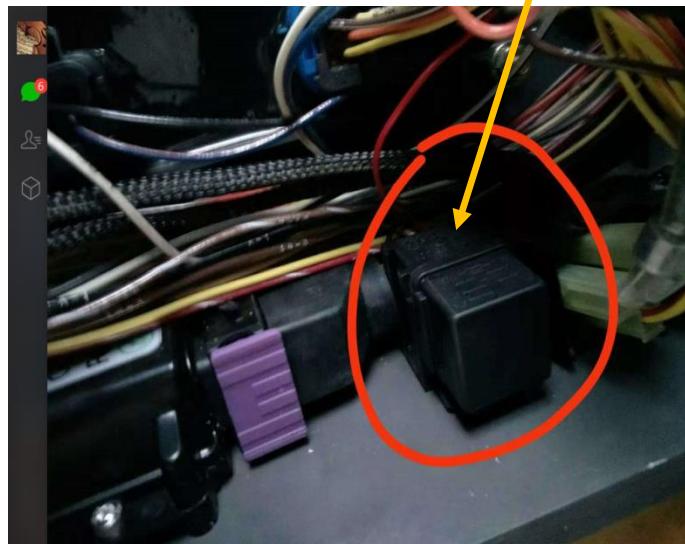
The c-box CAN1H, CAN1L and CAN_H and CAN_L of the arm boom system are respectively connected in the same draw buckle, and the line is pressed well. The red is CAN_H.





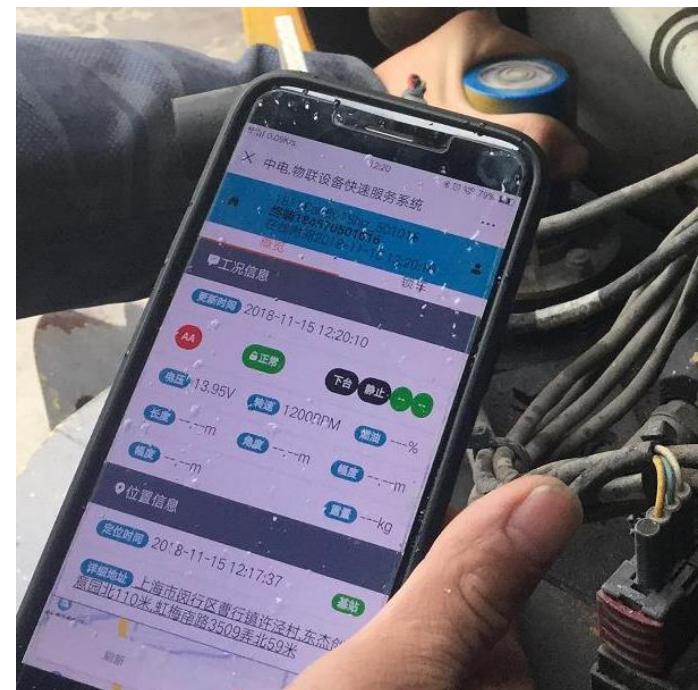
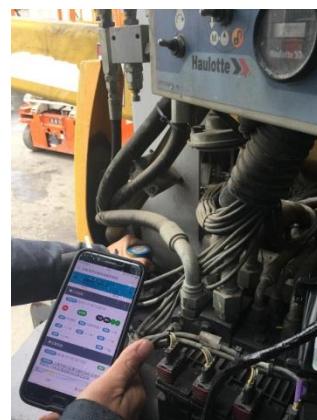
4: 断开臂升信号线（依实际锁车内容而不同），引线的两端接到C-BOX的锁车继电器触点两端，并固定好继电器。

Disconnect the tower arm hoisting signal line, connect both ends of the lead to the c-box's lock car relay contact, and fix the relay.



5：把装好的C-BOX控制盒贴在电控箱合适部分，螺钉固定。最后将线束固定好。

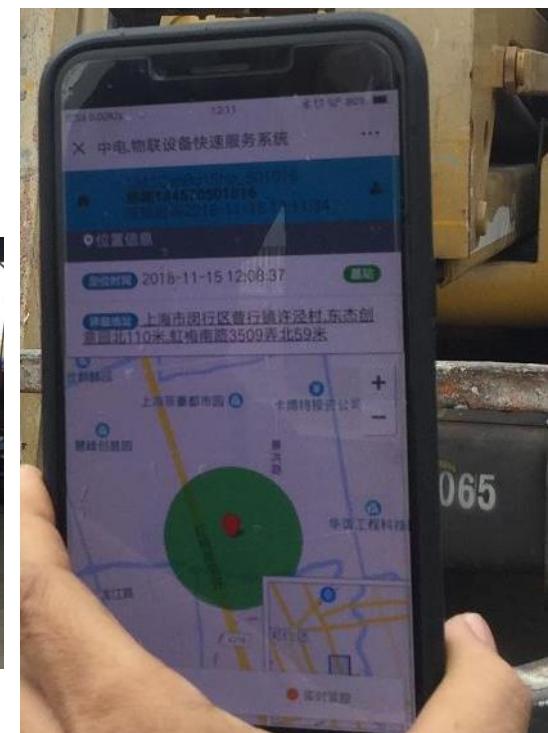
Stick the c-box control BOX in the secret place of the electric control BOX, and the control BOX is attracted by magnet. Place the wire harness in place.





6: 把C-BOX的GPS天线装在车身上，类似这个地方。

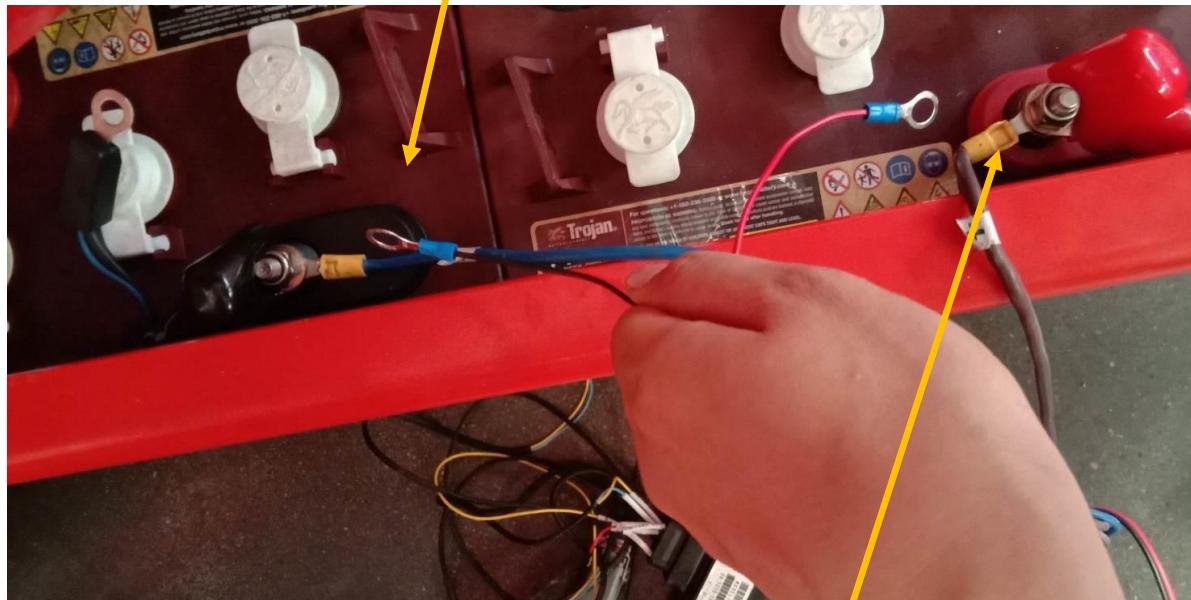
Install c-box's GPS antenna on vehicle body,i.e. place as shown in the picure.





1：把C-BOX 线束的电池负极端子装在整车的电池负极。

Install battery negative terminal of c-box harness to battery negative terminal of vehicle .



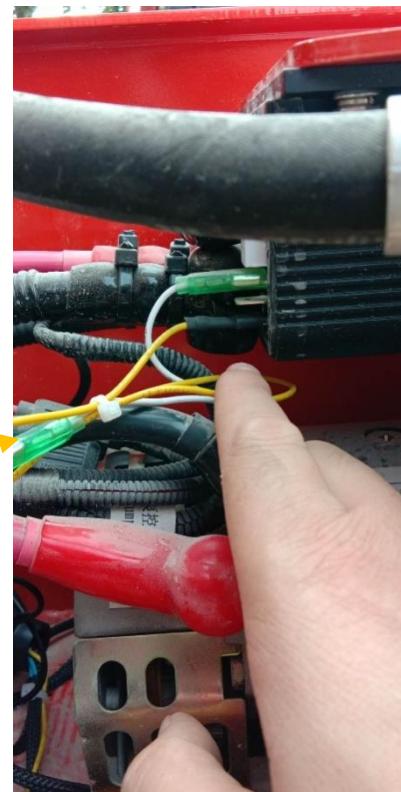
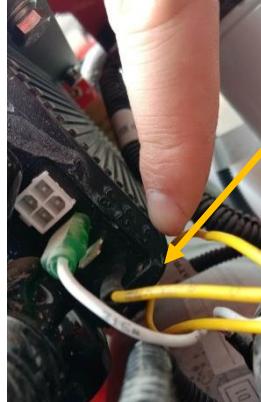
2：把C-BOX 线束的电池正极端子装在整车的电池正极。

Install battery positive terminal of c-box harness to battery positive terminal of vehicle .



3: 把原车上的驱动器的电机使能J1上的插头拔下来，把外置远程的锁车输出线插到
J1位置上

Unplug connector of drive motor enable key J1 of original platform,
plug in remote vehicle lock output line into J1 position.



4: 把电机使能附近的线用扎带扎好。

Tie the wires near the motor with straps.



C-BOX 线束带转接头时,按步骤5a-6a安装。Follow step 5a-6a to install C-BOX (harness with adapter).

5a: 把车身上的上下台连接插头拔开。

Unplug connectors that connecting platform and turntable of vehicle.



6a: 把C-BOX 线束的对插插头分别与拔开的上下台连接插头插, 插完后见下图。

Plug in c-box wire harness connectors with connectors of platform and turntable respectively as show in the picture.





附：各品牌的车身对插插头如下：Attached: the body plugs of each brand are as follows:

序号 NO	品牌 Brand	插头型号 Connector NO	插头图片 Connector Picture	车上位置图片
1	吉尼 Genie	德驰DT04-6P/DT06-6S Deutch DT04-6P/DT06-6S		
2	鼎力 DingLi	西霸士插头套件-公头、母头（公头带金属扣） Sebase plug suite-male(with metal buckle),female		



序号 NO	品牌 Brand	插头型号 Connector No	插头图片 Connector Picture	车上位置图片
3	星邦 Sinoboom	西霸士插头套件- 公头、母头（公 头不带金属扣） Sebase plug suite- male(with metal buckle),female		
4	星邦 Sinoboom	德驰DTM04- 6P/DTM06-6S Deutch DTM04- 6P/DTM06-6S		



C-BOX 线束不带转接头时,按步骤5b-6b安装。Follow step 5b-6b to install C-BOX (harness without adapter).

5B: 找到ECU的通信线1B和C-BOX的CAN_H引线装入同一个并线扣中, 用钳子压好。

Put ECU's communication line 1B and c-box's CAN_H lead into one parallel buckle, press them with pliers as the following steps shown.

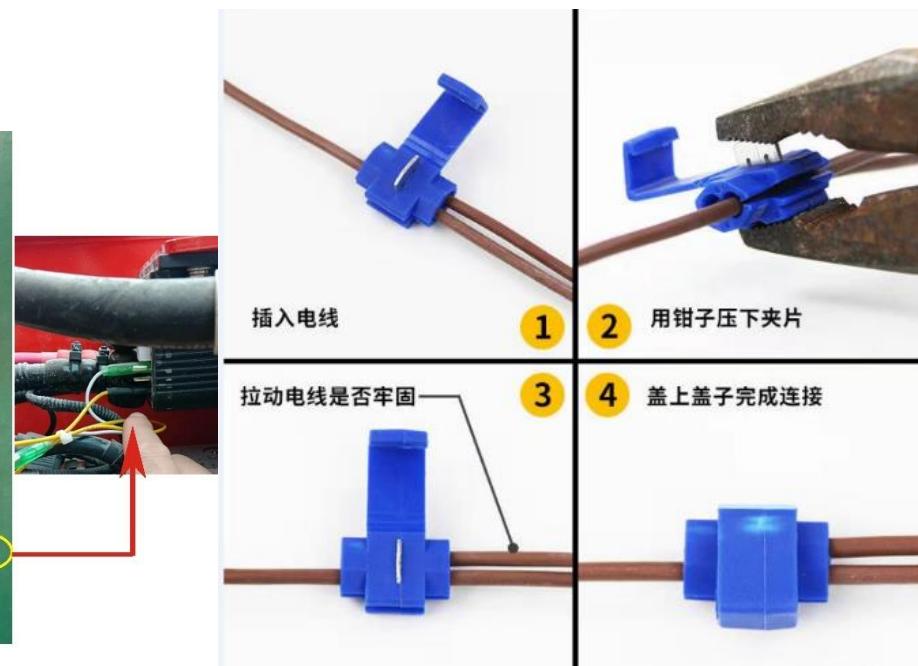
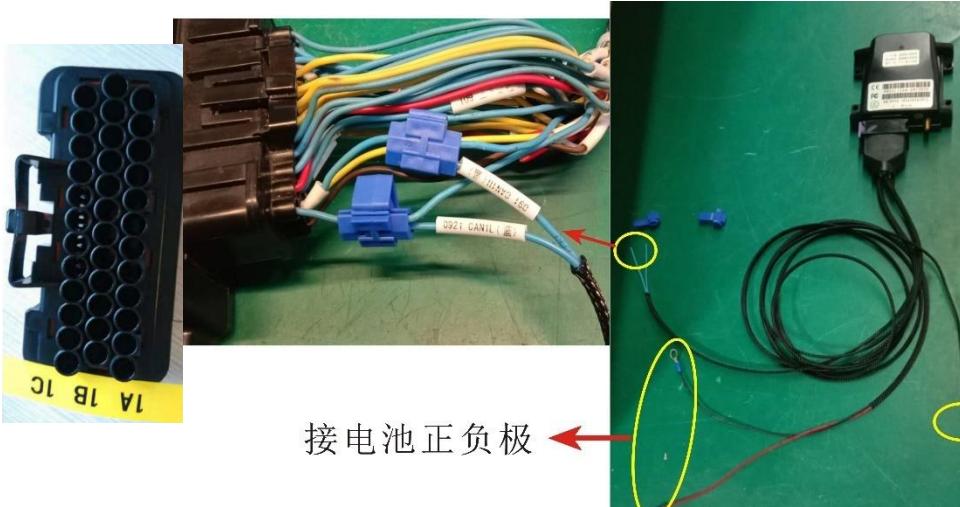


接电池正负极



6B：找到ECU的通信线1C和C-BOX的CAN_L引线装入同一个并线扣中，用钳子压好。

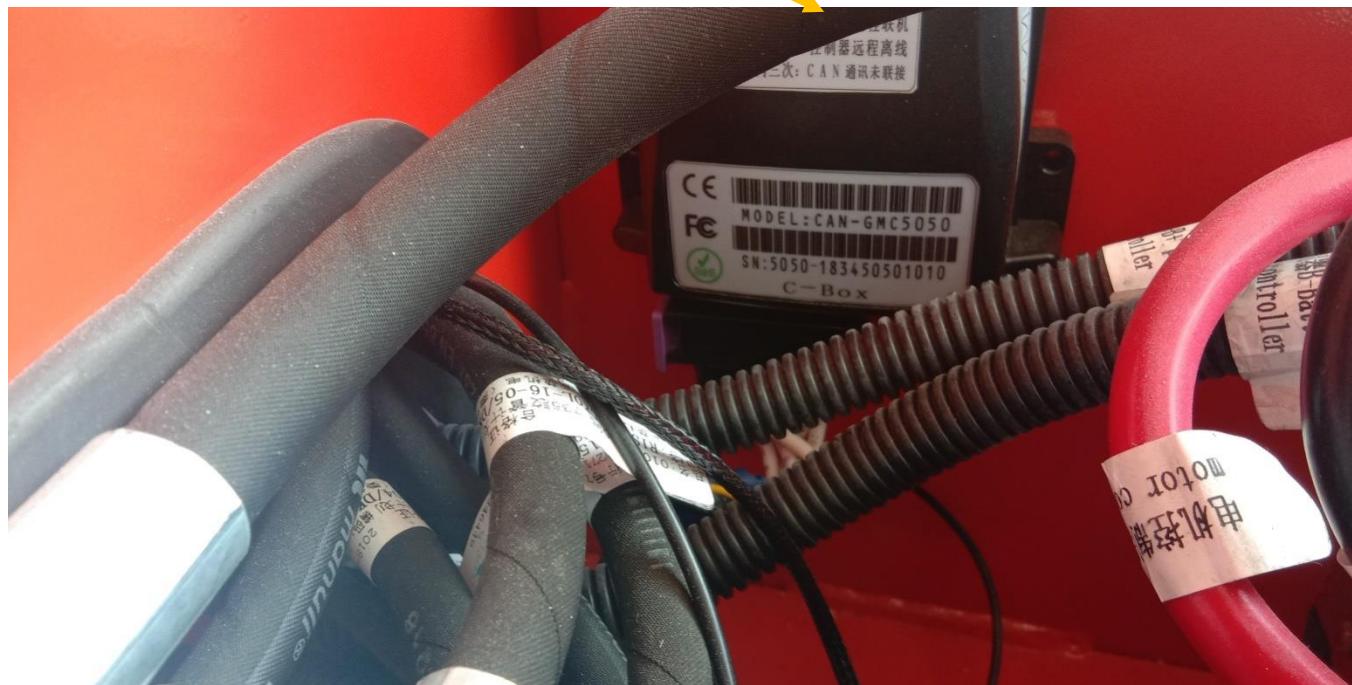
Put communication line 1C of the ECU and CAN_L lead of c-box into one parallel buckle, press them with pliers.





7：把装好的C-BOX控制盒贴在车身合适位置，螺孔固定。

Place c-box control BOX to a concealed place on vehicle, the BOX will be attracted by the magnet.





8: 把-BOX的GPS天线装在车身上，不易滑落，类似这个地方。

Install c-box's GPS antenna on vehicle body,i.e. place as shown in the picure.

