



HP230.4V Battery Pack Assembly Manual (HP230.4V 电池组装手册)

The manual is applies to Lexus IS300h battery replacement guidance.

(该手册适用于雷克萨斯 LEXUS- IS300h 动力电池替换指导)

1. Please open the box individually and find the components in following list (分别打开包装箱并在盒子里找到如下部件)：

NO. 序号	Component Name 名称	Quantity 数量
1	Module 模组	16
2	Voltage collection wiring harness 电压采集线束	1
3	Connection sheet 连接铜排	15
4	M5x10 Combination nut M5x10 组合螺栓	32
5	Cover plate #1 盖板 1	15
6	Cover plate #3 盖板 3	1
7	Cover plate #4 盖板 4	1
8	Insulating tape 绝缘胶带	1



2. The combination of modules (模块之间的组合)

The 16pcs modules should be combined successively according to serial number which marked on the module. The module and hoop should be installed in the correct position as shown in the following picture. (将 16 个模块按序列号依次组合在一起；模块和卡箍应该放置在适当的位置)。



4. To ensure the insulation in all the contact between modules and fixed brackets, 4 pieces fixed brackets should be wrapped with insulating tape.
(将4根固定支架用绝缘胶带进行缠绕，确保模组与固定支架的绝缘性)。



4. The installation of module (模组安装)

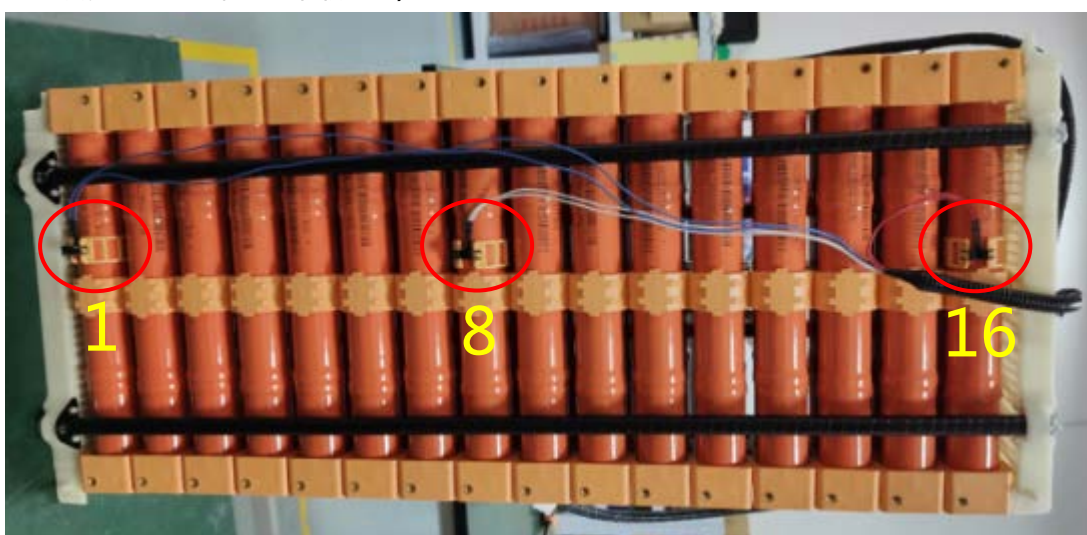
4.1 The positive pole and negative pole of module should be installed at correct direction as shown in following picture. Install 16 pieces modules orderly, then fix the bottom of module.

(将16个模组依次进行安装，模组有正、负方向之分 (如下图所示)，作为固定模组基准)。



4.2 The temperature probe should be installed on the buckle of the bottom of the module #01, #08and #16.

(将原车电池钣金上的温度线束拆下 ,把3个温度探头依次安装在模组:01#、08#和16# 模组底部卡扣上 ,如下图所示)。

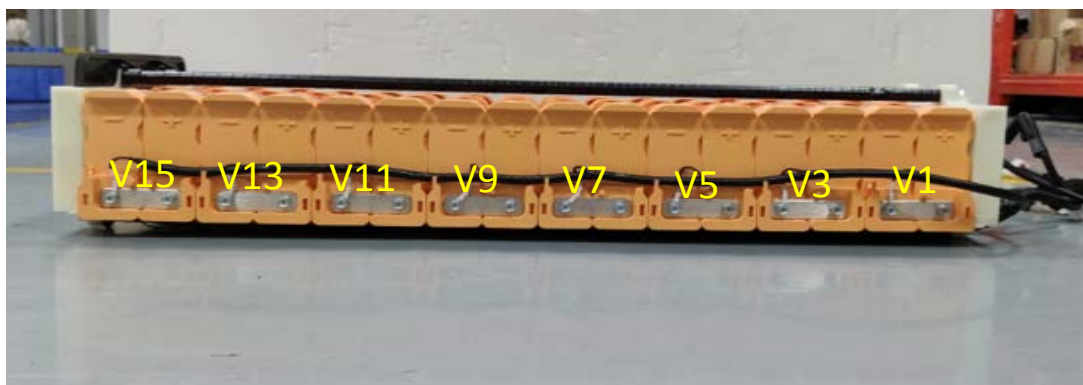


4.3 The temperature wiring harness is bundled in turn with a strap, As shown in the following figure(将温度线束用扎带依次进行捆扎整理 ,如下图所示)。

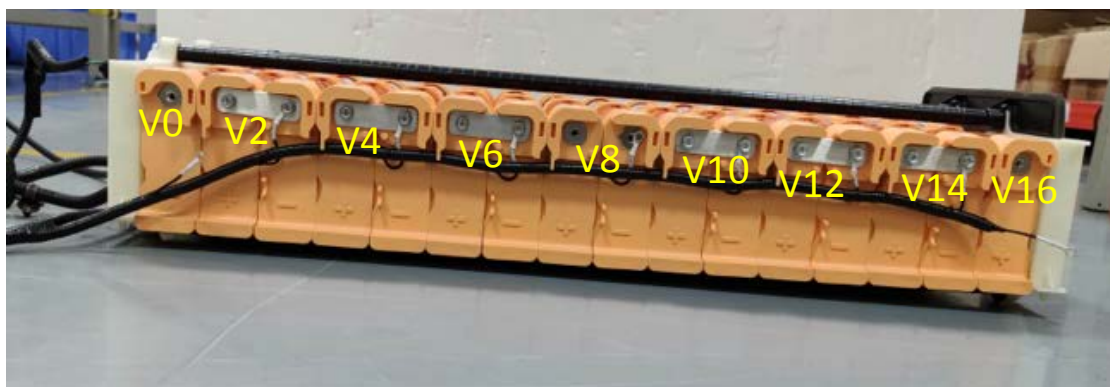


5. The installation of the connector copper bar and voltage collection wiring harness. (安装连接铜排及电压采集线束)。

5.1 Install the connector copper bar and voltage collection wiring harness synchronously (Note: screw torque 5~6 N·m). (将电压采集线束及连接铜排同步进行安装 (注：铜排螺丝先不打扭力) 。



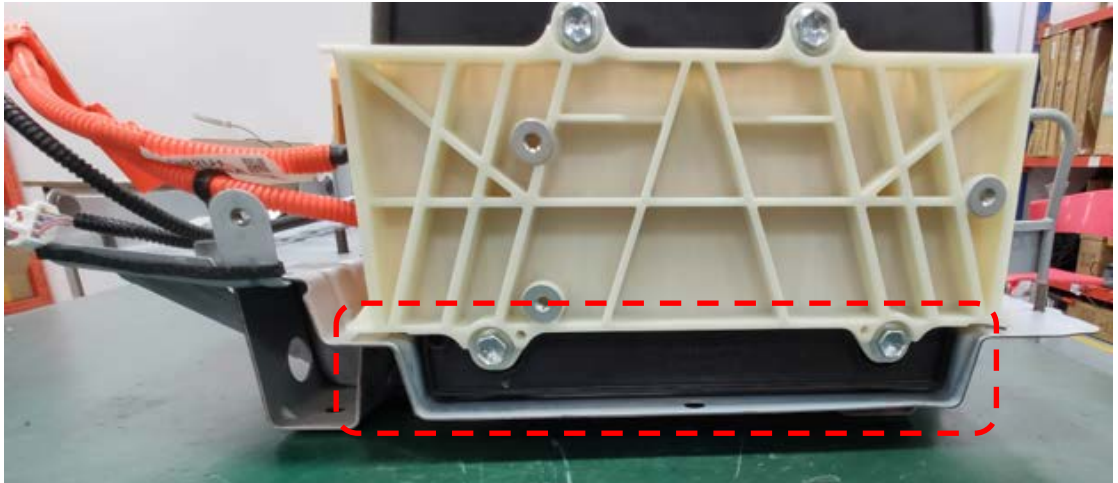
5.2 Install the voltage collection wiring harness and connector copper bar on the other side. (安装另一侧电压采集线束及连接铜排，注：铜排螺丝先不打扭力)。



6.Put the battery modules into the sheet metal for fixing (将组好的电池模组抬入电池钣金壳体中,如下图所示)。



6.1 如下图所示，安装风道挡板。



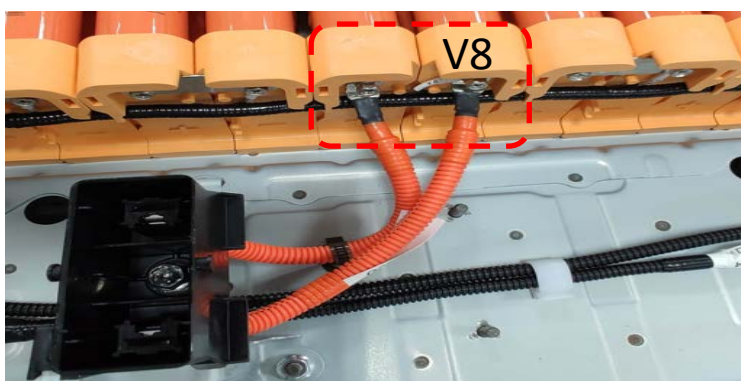
6.2 Tighten the screws at the bottom of module. (将模组底部两侧螺丝依次进行拧紧固定，如下图所示，(注：螺丝扭力 $5 \sim 6\text{N}\cdot\text{m}$) 。



7. 将 4 根电池支架的侧板螺丝拧紧固定。



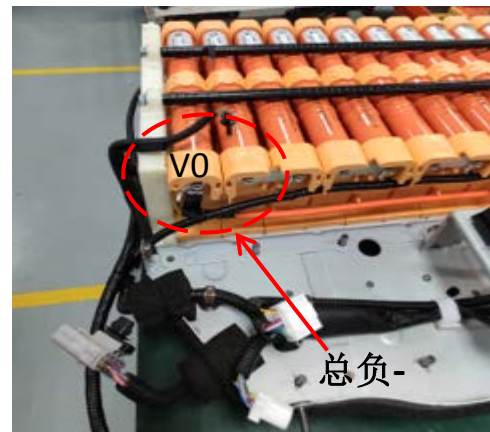
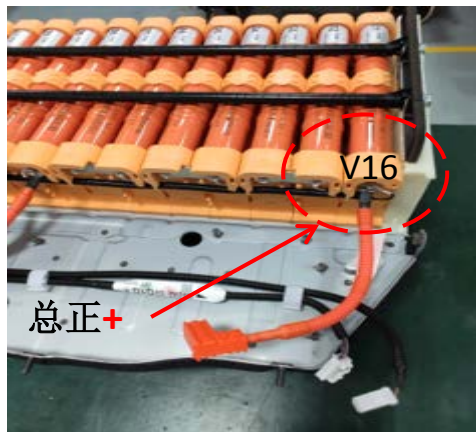
8. Install the original insurance connector on the position of voltage collection wire #V10 according to the red circle as showed in following picture. (安装原保险连接器，连接在08#、09#模组上，并将电压采集电路V8安装在08#模组上，如下图所示)。



9. Install the wiring harness of positive pole, the wiring harness of negative pole and insurance wiring harness .(安装正、负极线束和电压采集点)。

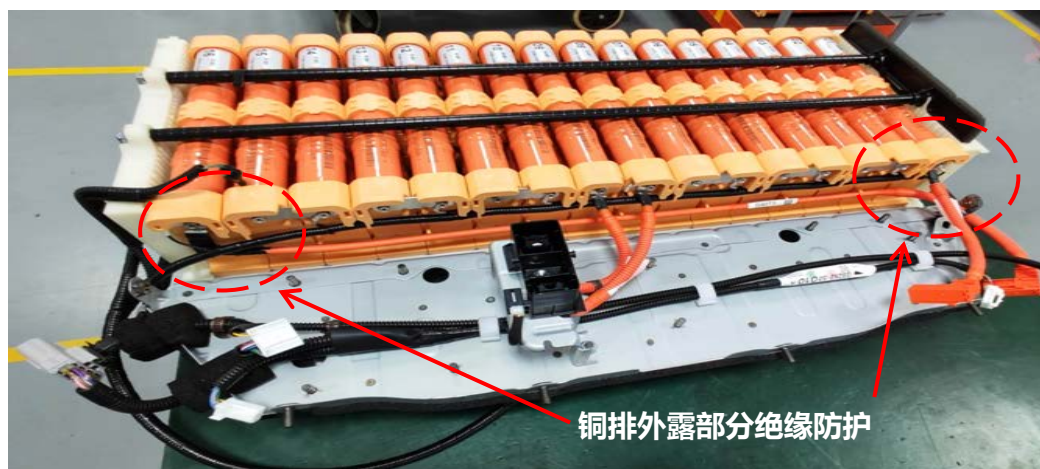
9.1 (如下图所示，分别安装正极线束及电压采集 V16 (下方左图)，负极线束及电压采集 V0 (下方右图)；注：安装原车正极、负极线束前，对铜排外露部分，用绝缘胶带进

行绝缘防护)。



9.2 对连接铜排及总正、总负线束安装螺丝进行拧紧固定 (注: 螺丝扭力 $5 \sim 6\text{N}\cdot\text{m}$)。

9.3 对电池模组另一侧连接铜排安装螺丝进行拧紧固定, 并对线束进行整理, 如下图所示 (注: 螺丝扭力 $5 \sim 6\text{N}\cdot\text{m}$)。

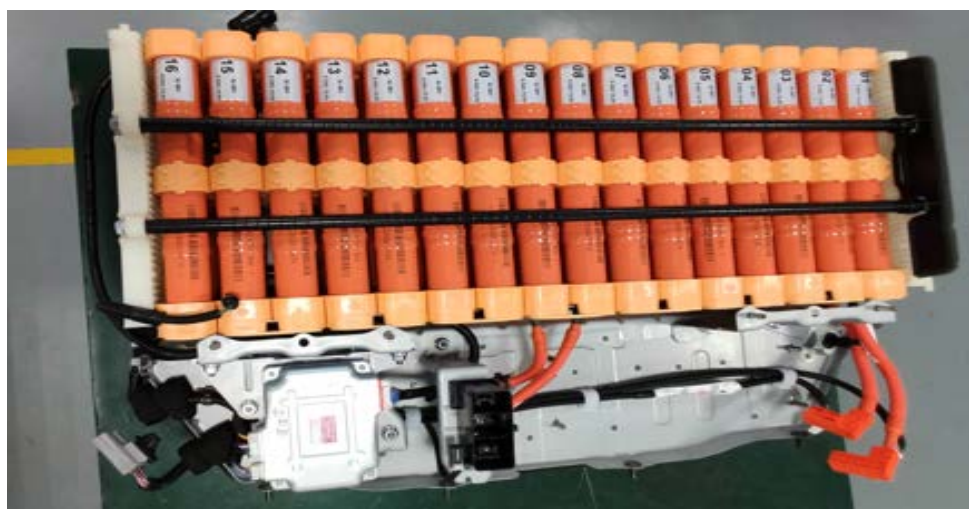


10. The installation of cover plates (安装盖板)。

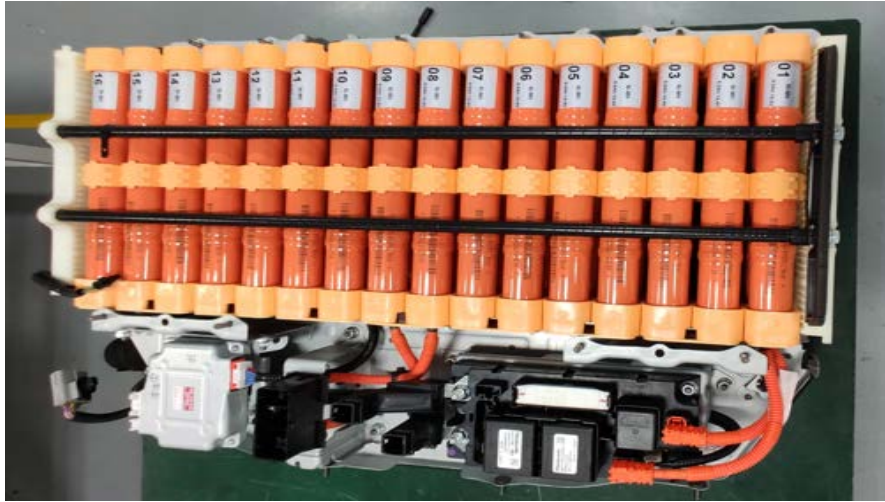
10.1 如下图所示，分别安装前后两侧盖板。



9. (安装电压采集卡支架、整理安装原车温度、电压采集线束)。



10. Install the plugs of voltage collection wire and temperature sensor according to the original position. (按原位置安装电压采集线束接头和温度传感器插头)。



12. Check everything correctly after finishing all accessories installation , then install the original insurance component(MSD). (完整安装所有配件 , 正确检查一切后安装原保险(MSD))。



13. Put the battery pack back to the vehicle, and connect the main wire of positive pole and negative pole in correct position. (将完成组装的电池组件，然后放回车辆，正确连接正、负极主线)。

Finally, start the vehicle. (最后，启动车辆)。