



HP244.8V Battery Pack Assembly Manual (HP244.8V 电池组装手册)

The manual applies to LEXUS NX300h power battery replacement guide.

(该手册适用于雷克萨斯 NX300h 动力电池替换指导)

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

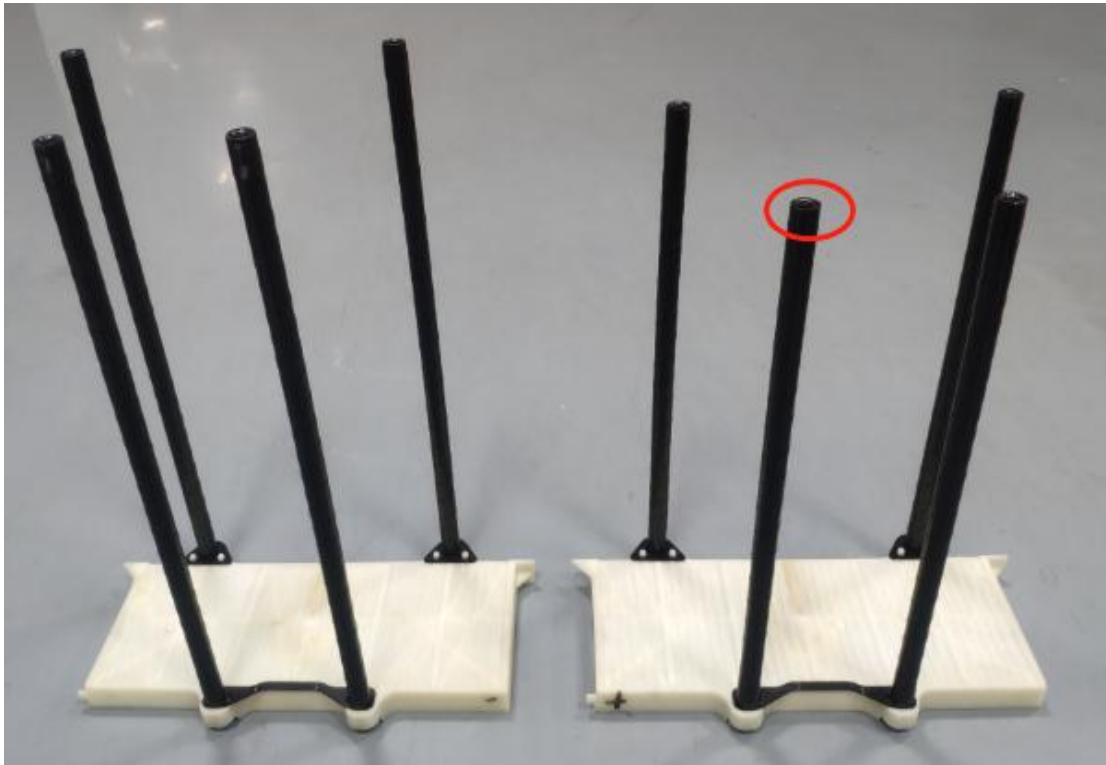
NO. 序号	Name 名称	Quantity 数量
1	Module 模组	17
2	NX3 Voltage collection wiring harness 1 NX3 电压采集线束 1	1
3	NX3 Voltage collection wiring harness 2 NX3 电压采集线束 2	1
4	NX3 Power wiring harness NX3 动力线束	1
5	copper busbar 连接片	16
6	M5x10 Combination nut M5x10 组合螺母	33
7	M6 Nut #M6 螺母	1
8	Cover plate #1 盖板 1	15
9	Positive plate #3 正极盖板 3	2
10	Negative plate #4 负极盖板 4	2
11	Insulating tape 绝缘胶带	1

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

The 17pcs modules should be combined successively according to serial number which marked on the modules. The modules and hoops should be installed in the correct position as shown in the following figure.（17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）。



3. Wrap the 8 fixed brackets with insulating tape to ensure the insulation between the modules and the fixed brackets.（将 8 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），如下图所示。



4. The installation of module (模组安装)

Assemble the 01# ~ 08# modules into the 1# pack, and assemble the 09 ~ 17# module into the 2# pack, then fix and tighten the cover plate. (将 01~08#模组组装成1号包, 09~17#模组组装成2号包, 并将盖板进行固定拧紧)。



5. Install the temperature collection wiring harness and the temperature clips onto the modules 1#, 7# and 14#. (安装温度采集线束, 将温度卡扣安装在1#、7#、14#模组上)。

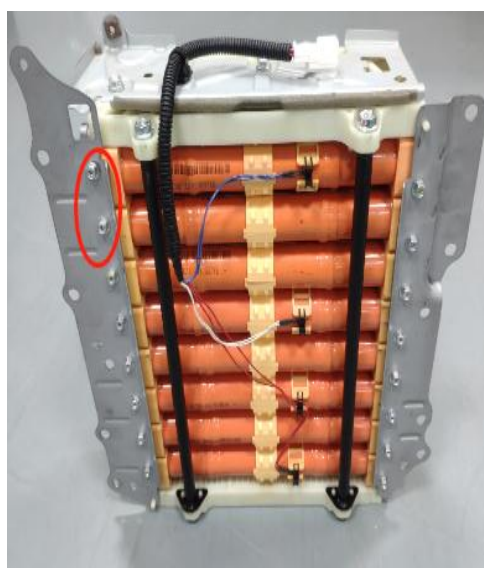
5.1 Fix the temperature probe of original car's temperature collection wiring harness on the modules 01 #, 04 #, 08 # of the 1 # pack, and fix

the wiring harness to the 03 # module clip, as shown below (left) (将1#包原车温度线束上的温度探头固定在01#、04#、08#模组上，并将线束固定在03#模组卡扣上，如下图所示 (左图))；

5.2 Fix the temperature probe of original car's temperature collection wiring harness on the modules 09 #, 12 #, 17 # of the 2 # pack, and fix the wiring harness to the clips of 10 # module and 15# module, as shown below (right pic.). (将2#包原车温度线束上的温度探头固定在09#、12#、17#模组上，并将线束固定在10#、15#模组卡扣上，如下图所示 (右图))。

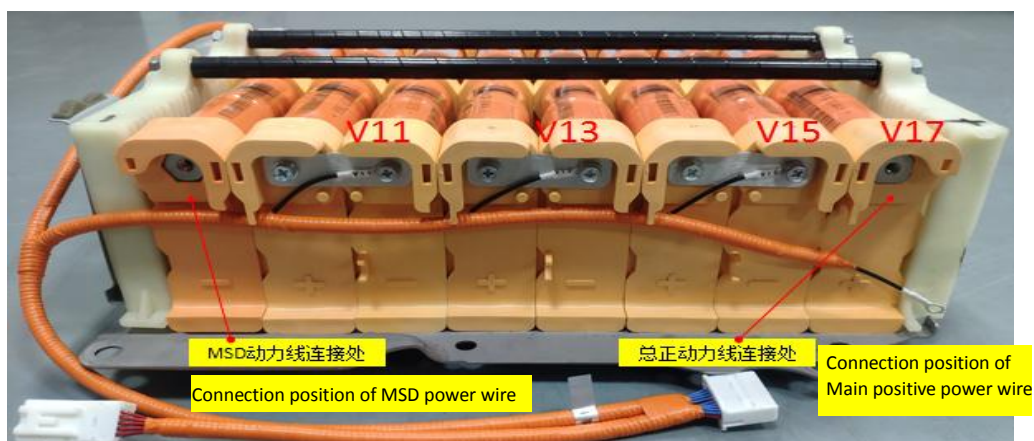


6. Tighten the fixing screws on both sides of the bottom of the module of 1#pack and 2#pack. (Note: torque of screws is 5 ~ 6N•m), as shown below. (将1号包和2号包模组底部两侧固定螺丝进行安装固定，注：螺丝扭力5~6N•m)，如下如图所示。



7. Install voltage collection wiring harness and copper busbar of 1#pack,

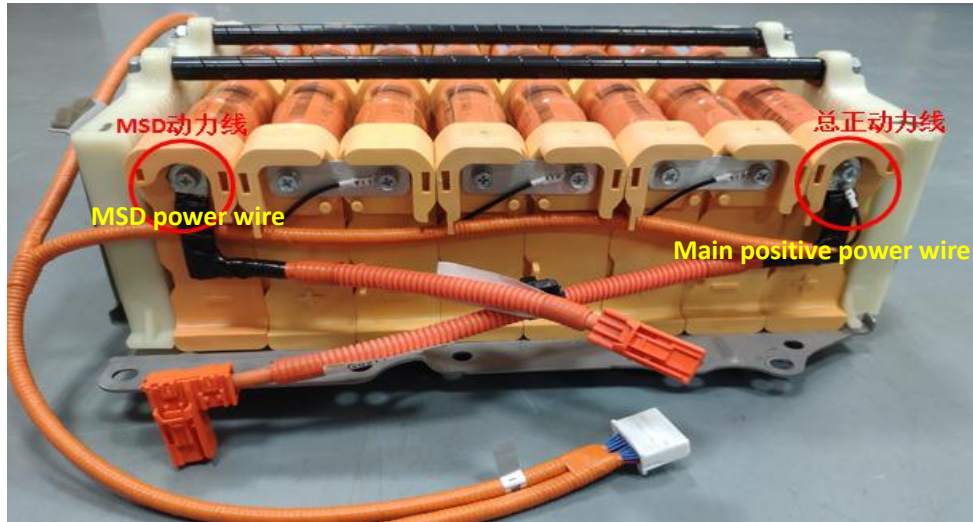
note: torque of bronze screws 5 ~ 6N•m (安装①号电压采集线束及连接铜排, 注: 铜排螺丝拧紧扭力5~6N•m)



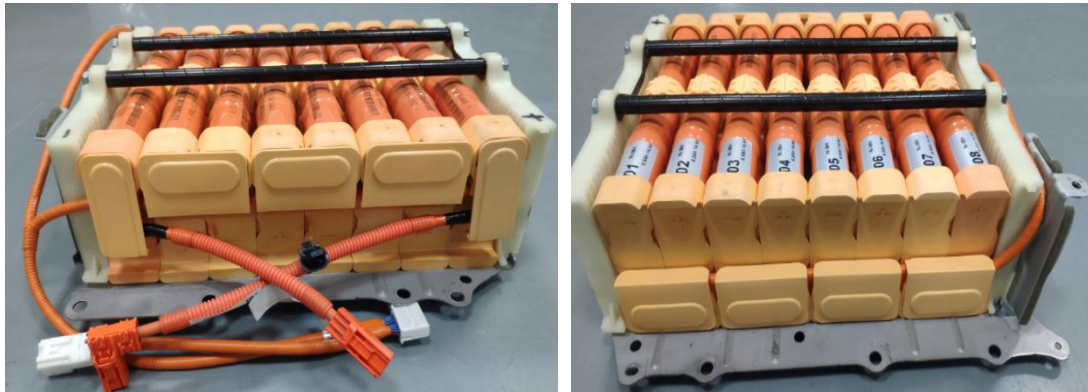
8. Install voltage collection wiring harness and copper busbar on the other side. Note: torque of bronze screw is 5 ~ 6N•m. (安装另一侧电压采集线束及连接铜排, 注: 铜排螺丝拧紧扭力 5~6N•m)。



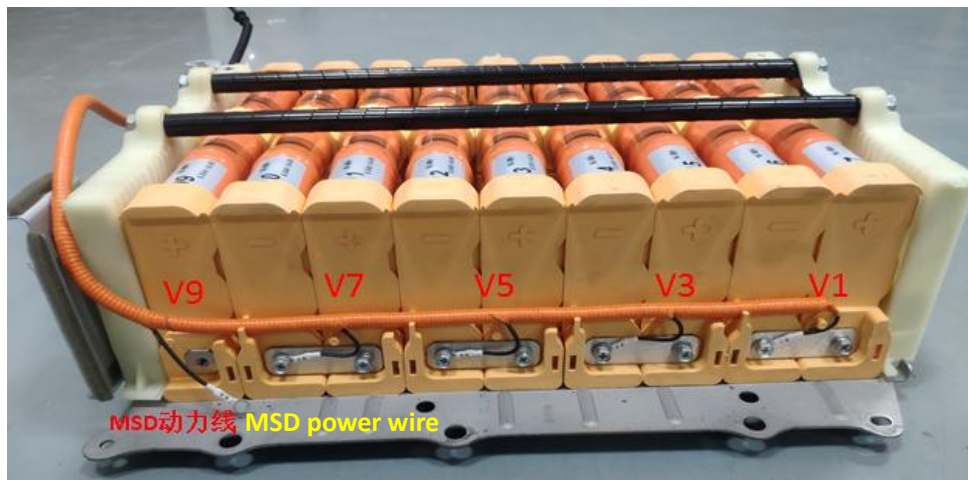
9. Install main positive power wiring harness and MSD negative power wiring harness. Note: The exposed copper part of the power wiring harness connector need to be wrapped with insulating tape , as shown by the red circle in the figure below (安装总正、MSD 负动力线束; 注: 动力线束接头处外露铜片部分, 用绝缘胶带包扎, 绝缘处理, 如下图红色圆圈所示)。



10. Install the cover plates #①、#③、#④ individually of 1#pack. (安装1号包两侧盖板1、安装两端盖板3、安装盖板4。

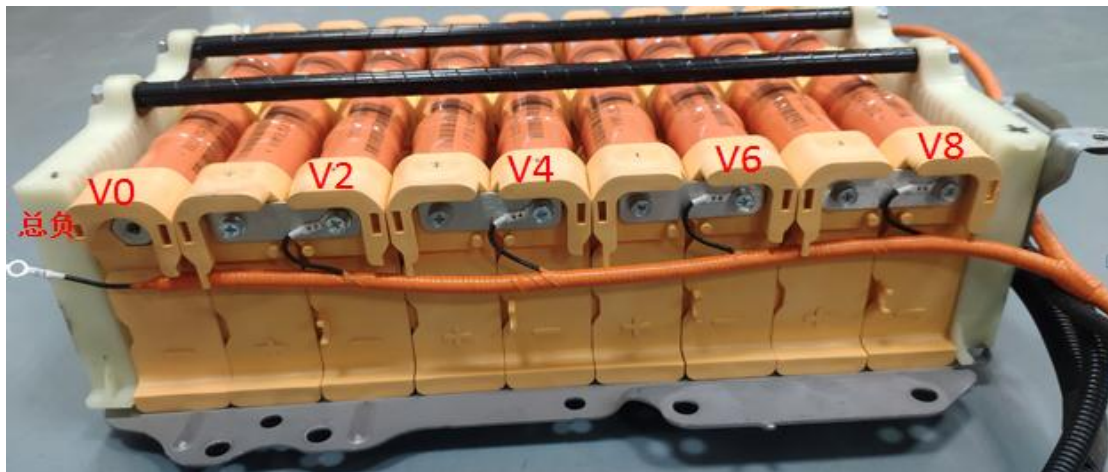


11. Install voltage collection wiring harness and copper busbar of 2#pack, note: torque of bronze screws $5 \sim 6\text{N} \cdot \text{m}$ (安装②号电压采集线束及连接铜排, 注: 铜排螺丝拧紧扭力 $5 \sim 6\text{N} \cdot \text{m}$)。

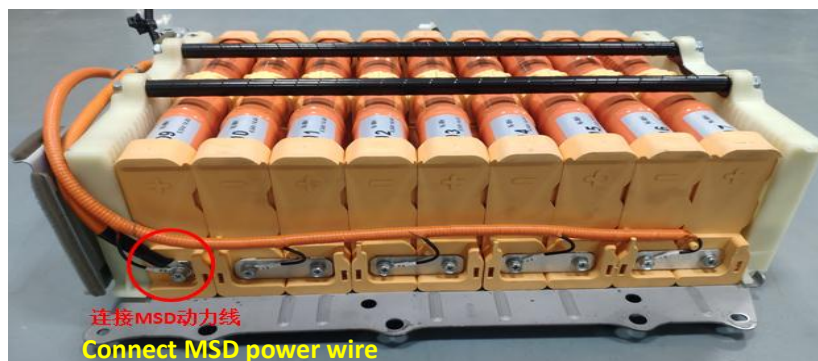


12. Install voltage collection wiring harness and copper busbar on the other side. Note: torque of bronze screw is $5 \sim 6\text{N} \cdot \text{m}$. (安装另一侧电压采集线

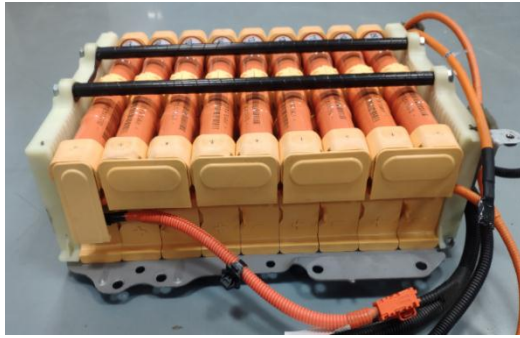
束及连接铜排，注：铜排螺丝拧紧扭力 $5\sim 6\text{N}\cdot\text{m}$ 。



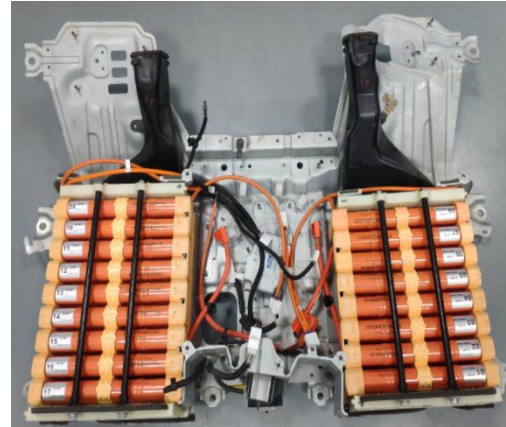
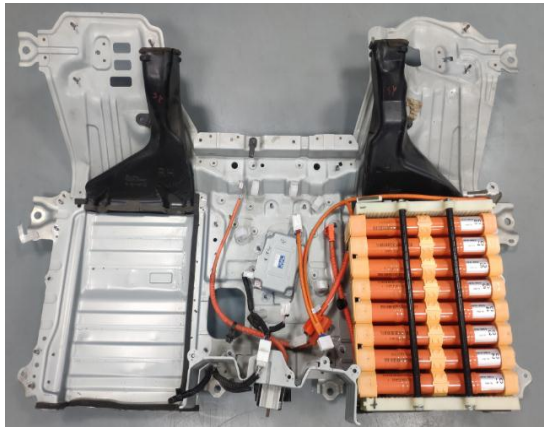
13. Install main negative power wiring harness and MSD positive connection wiring harness, as shown below. (安装总负动力线束、MSD 正连接线束)，如下图所示。



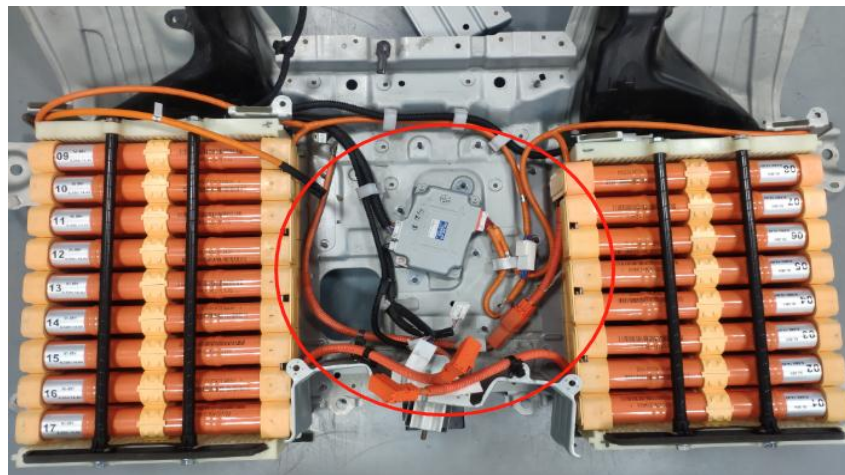
14. Install the cover plates #①、#③、#④ individually of 2# pack, as shown below. (安装2号包两侧盖板1、盖板3、盖板4)，如下图所示。



15. Put 1# and 2# packs into sheet metal for fixed installation, as shown below. 将1号包、2号包抬入钣金中进行固定安装，如下图所示。



16. Install the plugs of voltage collection wiring harness and temperature collection wiring harness according to the original position. (按原车位置安装电压采集线束插头和温度采集线束插头)，如下图所示。

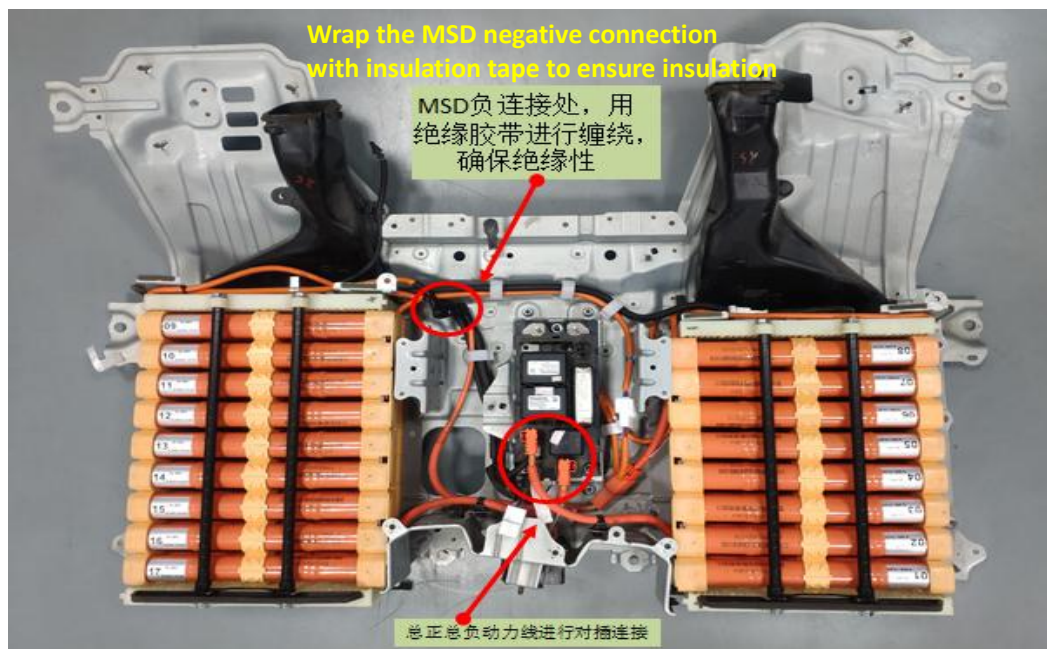




温度采集线束进行连接（对插）

Connect the plugs of Temperature connection wiring harness (mating)

17. Install the cover plate of battery pack （安装电池组件盖板）。



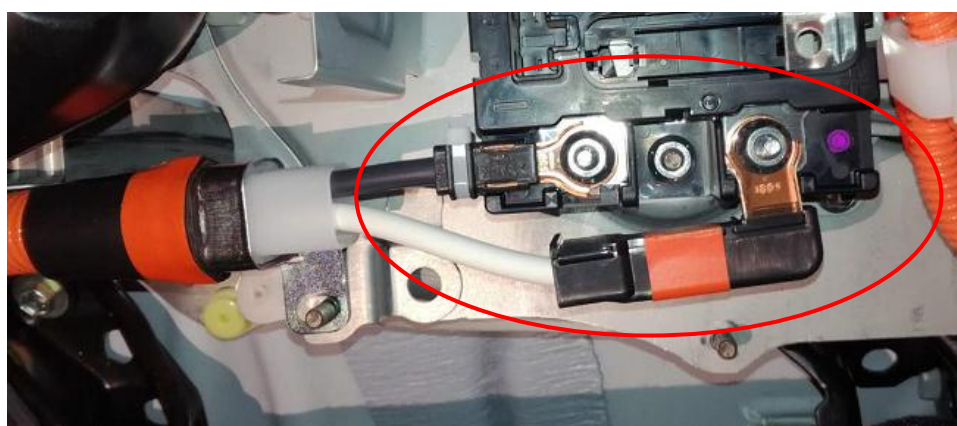
Connect the plug of main positive and negative power wire



18. Install the cover plate of battery pack （安装电池组件盖板）。



19. Put the battery pack back to the vehicle, and connect the main wire of positive and negative in correct position. (the correct position are marked with red circle in the follow picture). (将完成组装的电池组件，然后放回车辆，正确连接正负主线，如下红色圆圈所示位置)。



20. Check everything correctly after complete 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>)。



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