ECU replacement procedure

-Niu International Co., Ltd.

1. Disassemble and install ECU（Smart central controller）

1.1 Disconnect the battery





1.2 Remove two Front Glove Compartment Bolt Hole Plugs and unscrew two screws inside



1.3 Remove Front Neck Cover by lifting it at front



1.4 Unscrew two screws on the top of Front Panel





1.5 Take out two Plastic Expansion Clips from the bottom of Front Panel



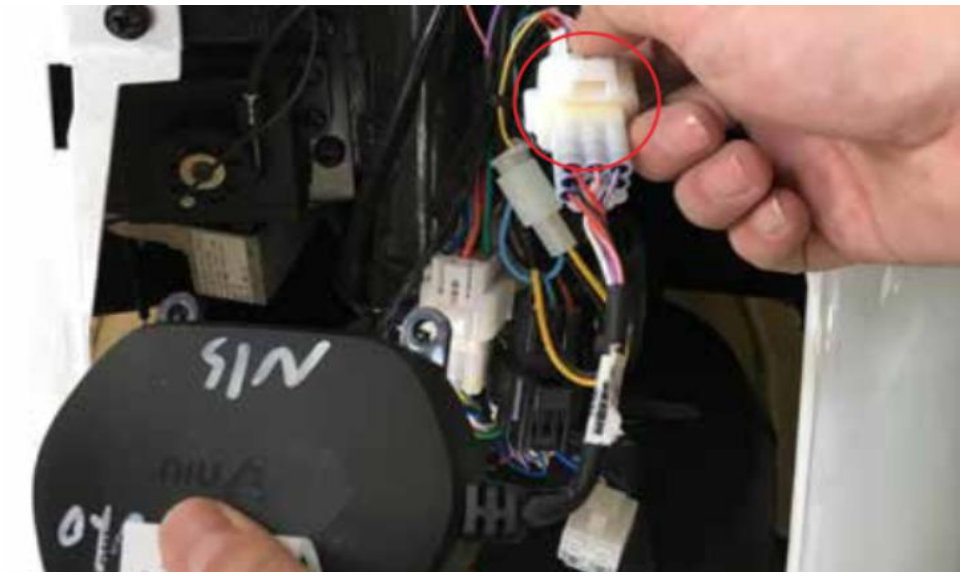
1.6 Remove Front Panel by pushing it upward



1.7 Unscrew four screws on ECU



1.8 Deattach the connector of ECU and replace a new one with two QR code stickers on the back side



ECU with QR code sticker as below：



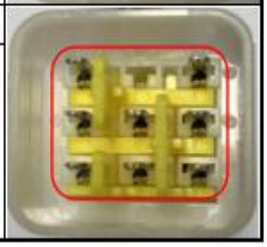
Note：

Euro 3 version scooter ECU must be replaced with Euro 3 version ECU（Part number：10302005）which has 7 pins of the connector. The latest software of Euro 3 ECU should be TRA01V14.

Euro 4 version scooter ECU must be replaced with Euro 4 version ECU （Part number：10302013）which has 8 pins of the connector. The latest software of Euro 4 ECU should be TRA01C03

Warning：

If you replaced wrong ECU or updated the wrong software，that will not covered by NIU warranty policy.

ECU Version	P/N	ECU Host	Connector Difference	
E3	10302005		Pin Qty 7	
E4	10302013		Pin Qty 8	

2. Binding spare ECU with original SN

Preparation work as below:

a. Please take the scooter outside with good signal during the whole binding Process.



b. Please keep the ignition switch ON during the binding Process.

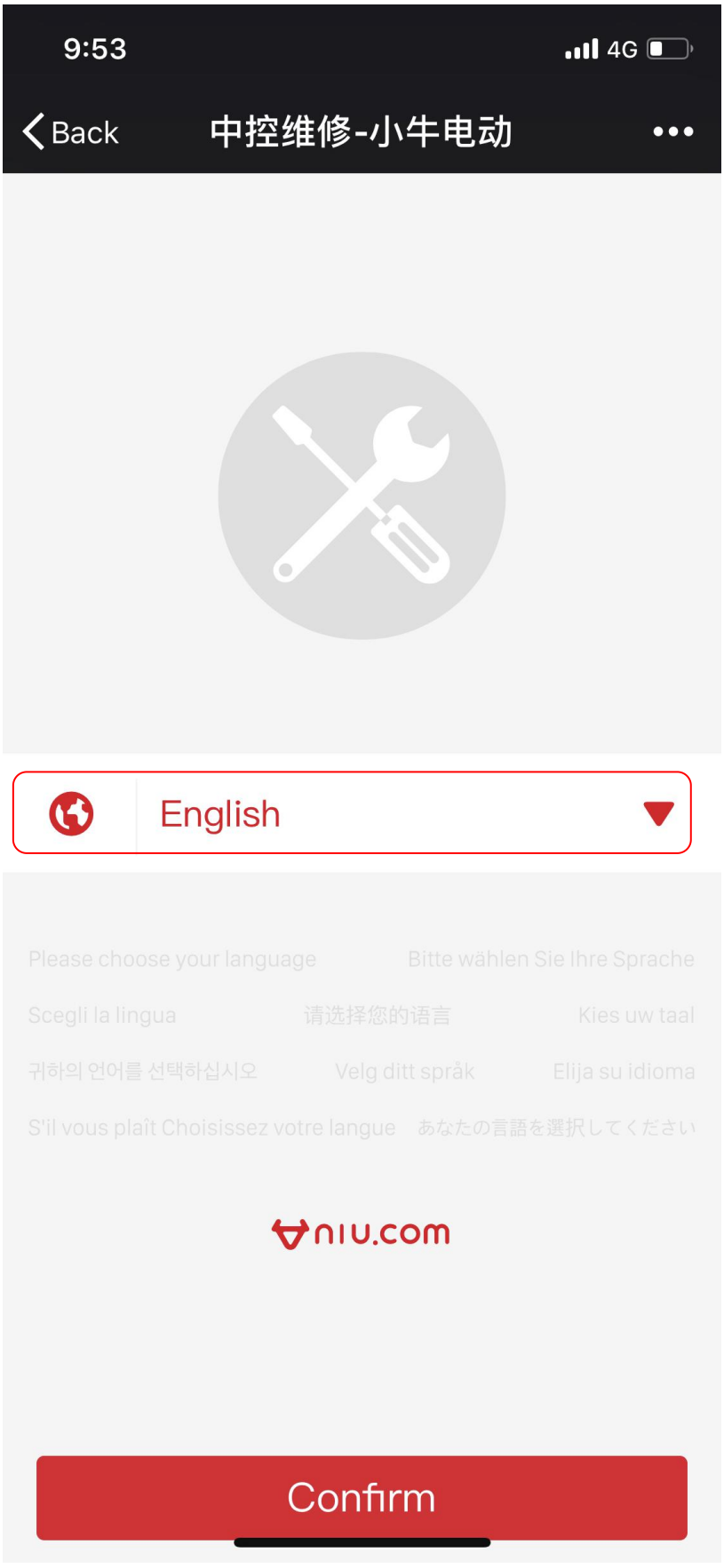


2.1 Use a smart phone to scan the QR code of the spare part ECU.

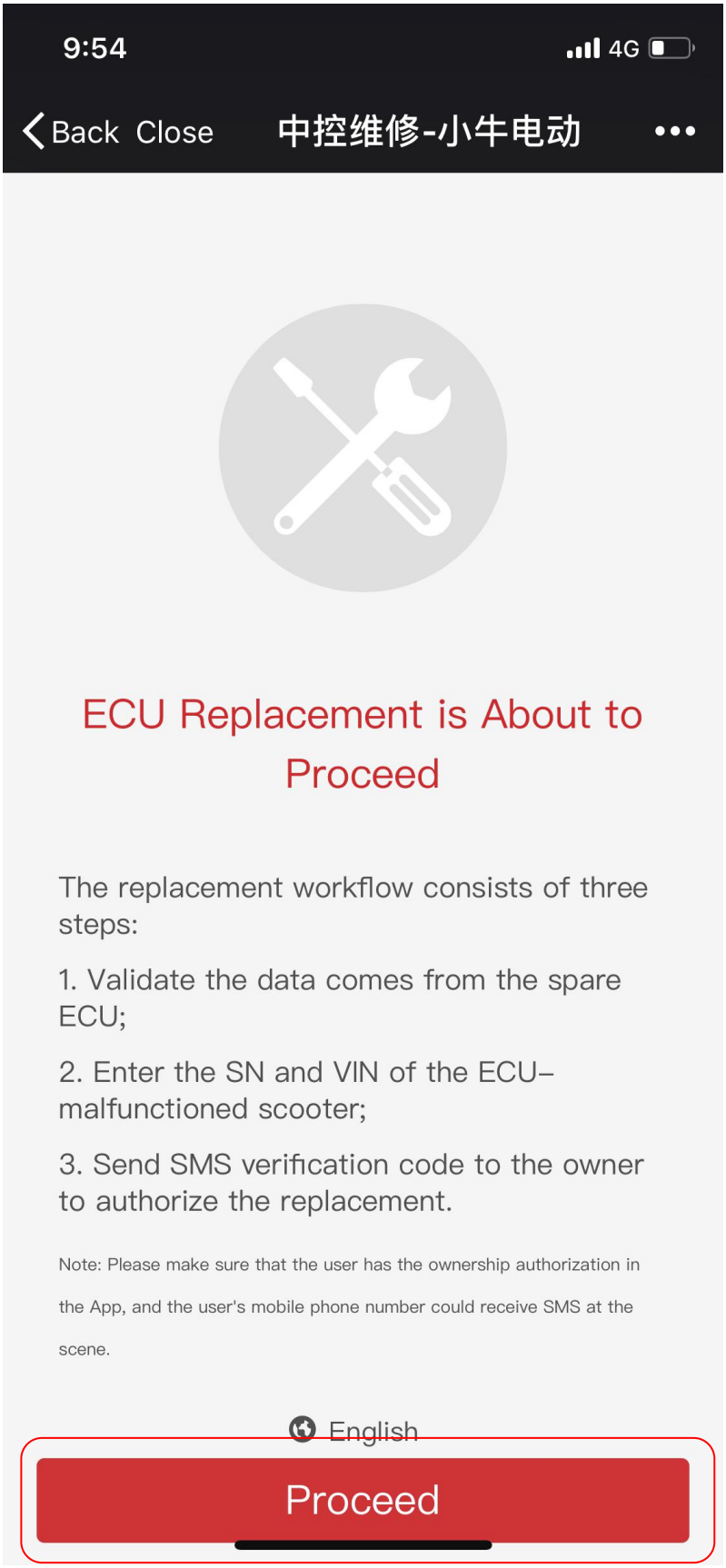




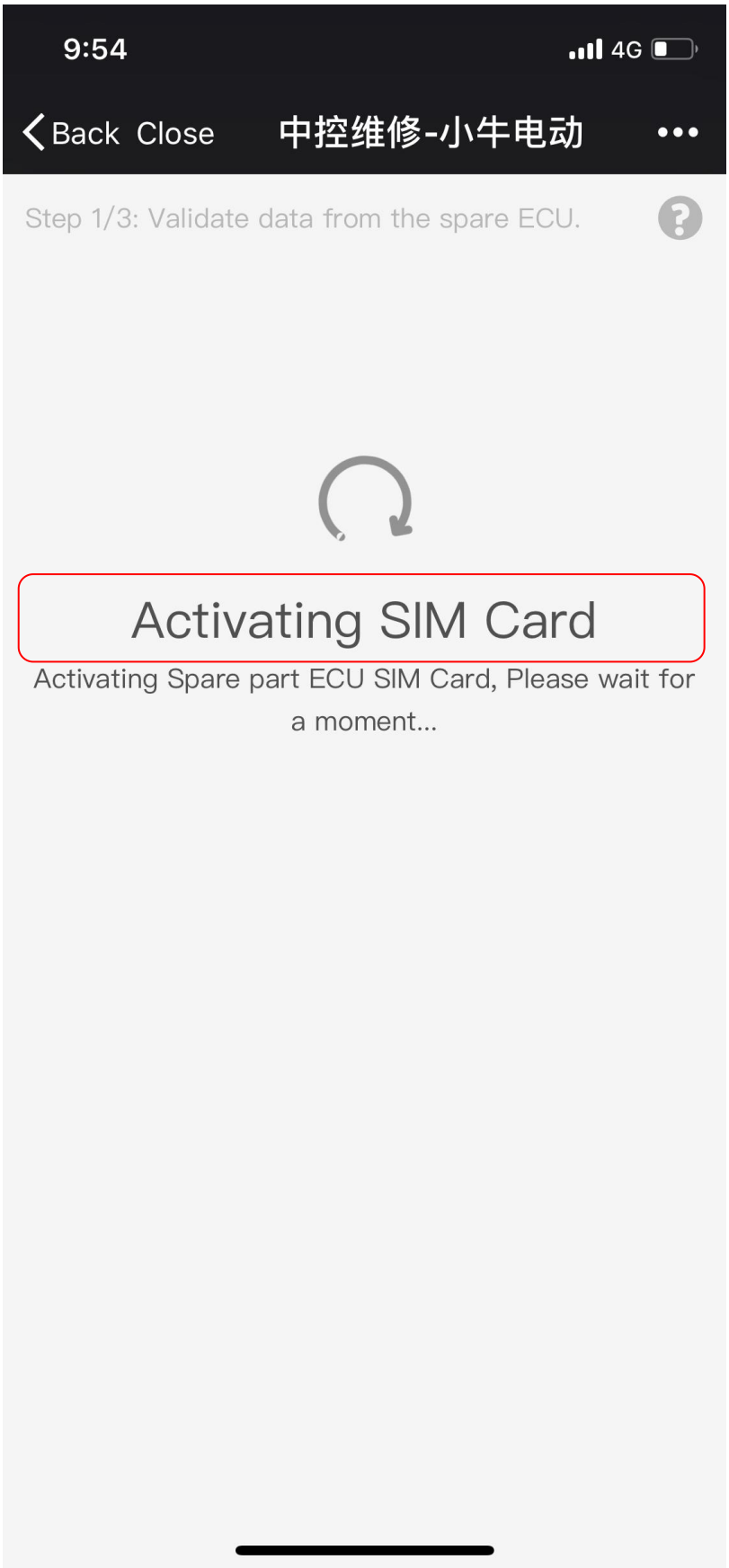
2.2 Choose the language(if you need to change)



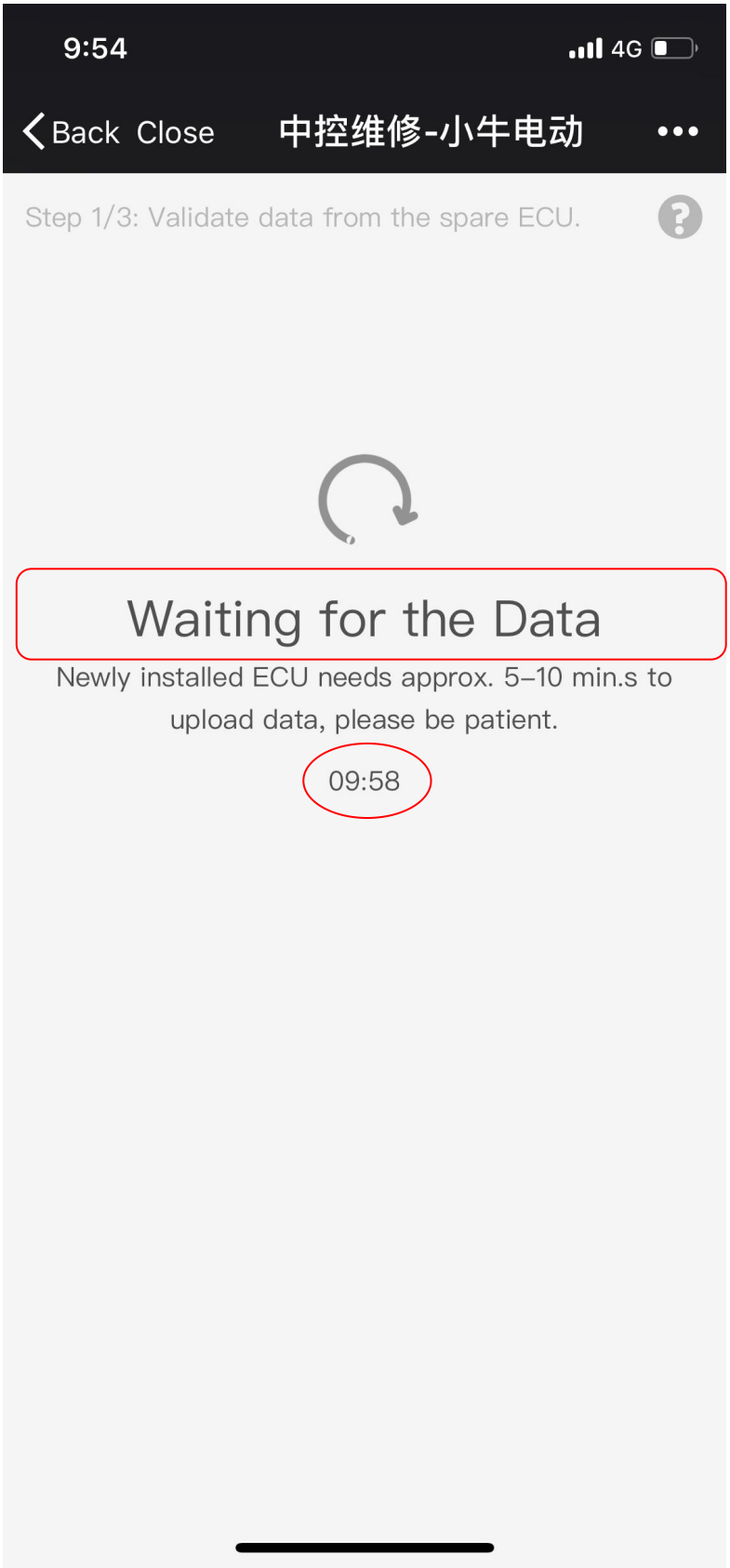
3. Introduction of replacement work flow steps

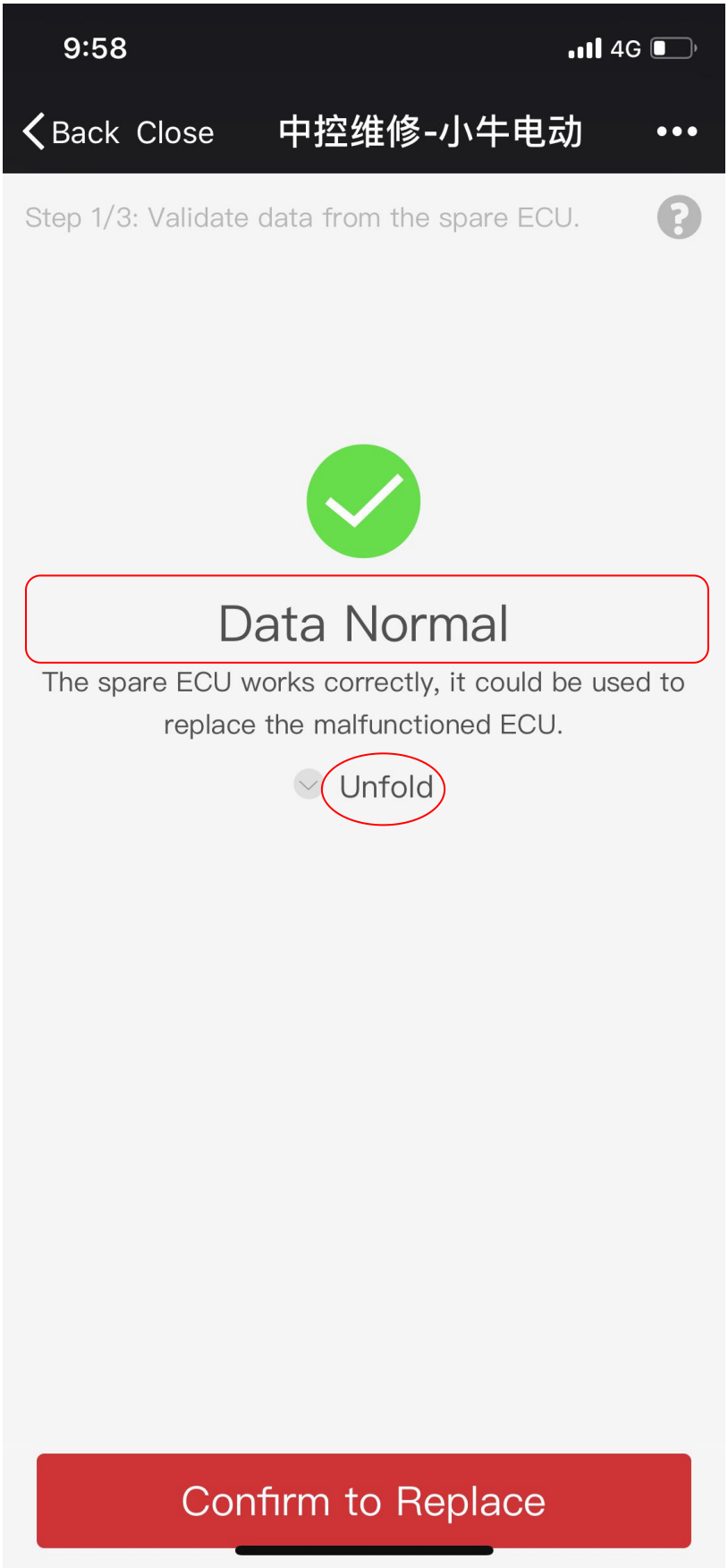


4. Activate the sim card inside the spare ECU temporary (within 1 hour)



5. Spare ECU upload data to NIU server




9:58
4G
Back Close
中控维修-小牛电动
Step 1/3: Validate data from the spare ECU.
Data Normal
The spare ECU works correctly, it could be used to replace the malfunctioned ECU.
Unfold
Confirm to Replace

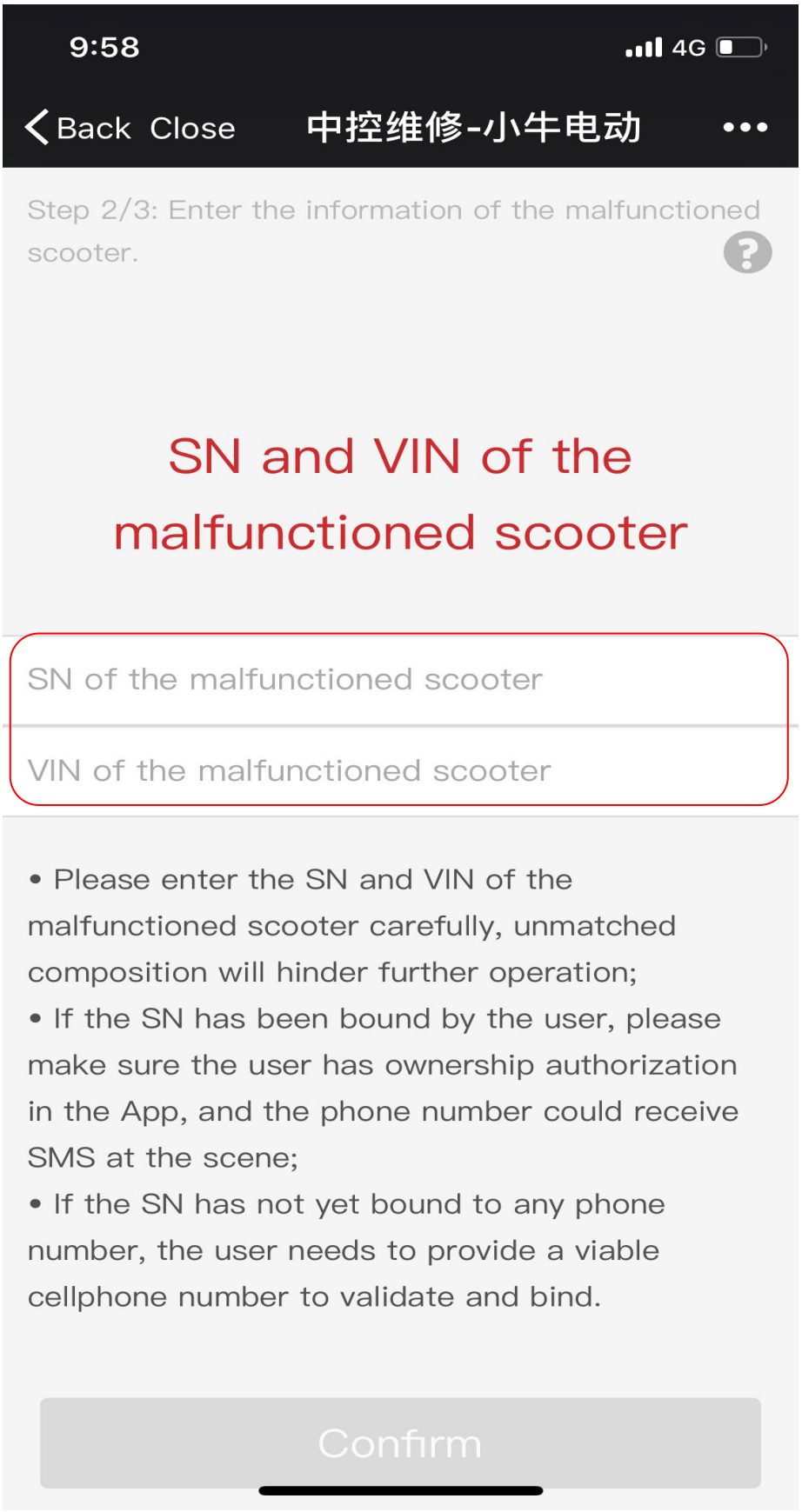
Note:

If you have waited for more than 10 minutes, it means this step was failure.

The reason that NIU server cannot get the data from the ECU could be

- **The signal of this area is not good（ECU cannot send out the data），please make this replacement procedure taken outside.**
- **ECU failure（Hardware issue）**

5. Enter the information of the original scooter which you can find from the APP or the installation guide




3:53
4G
车辆管理
保存
OTA升级
TRA01V14
绑定管理
1
车辆过户
失窃上报
型号
N1S 都市版 白色
SN
N1SB4CAW242H8DVS
车架号
R1NBJN115G1000243
电机号
RBNFFCK166280131
中控版本
TRA01V14
GPS刷新时间:
2018-02-08, 10:40:11
GSM刷新时间:
2018-02-08, 10:50:39

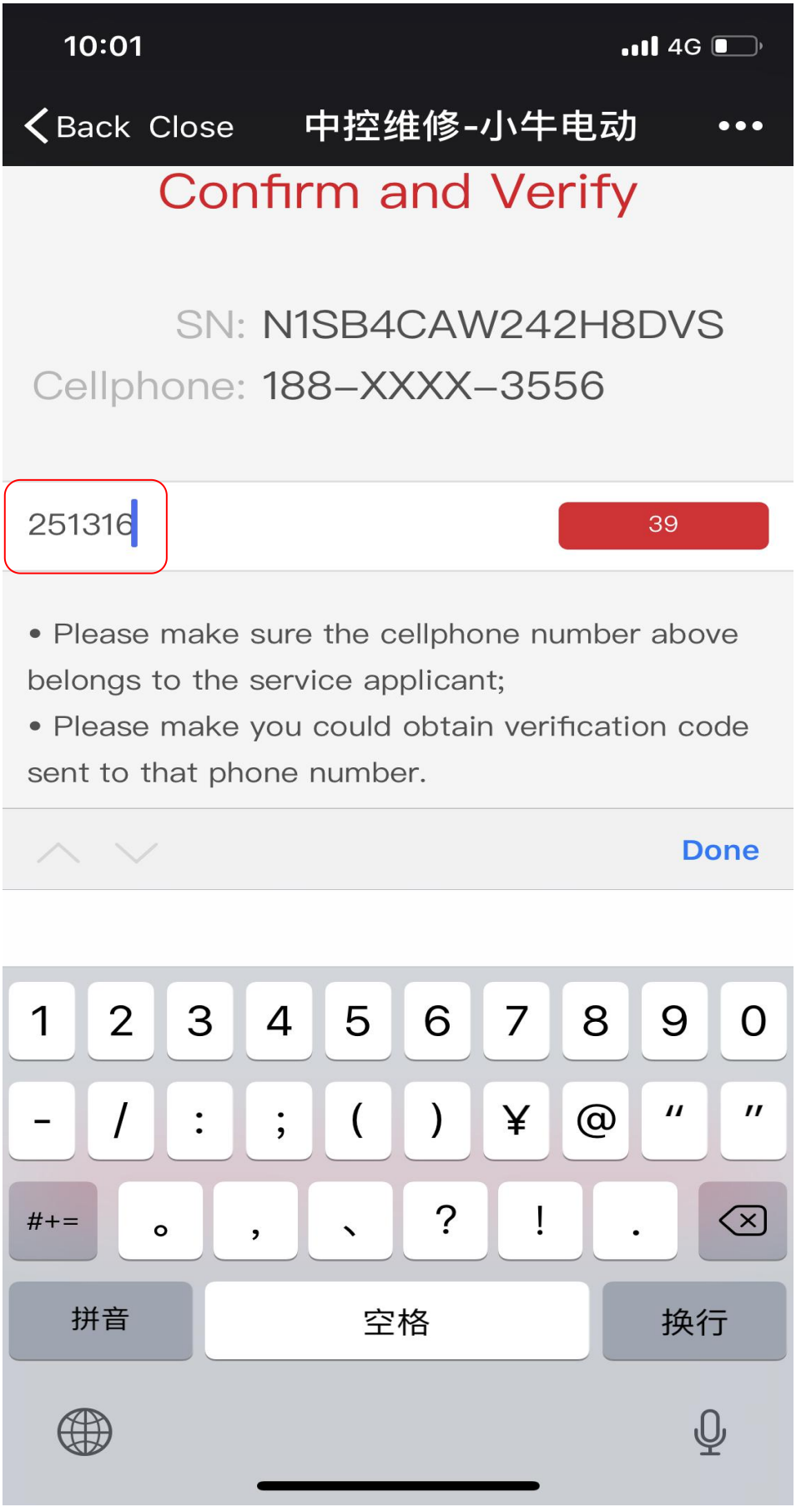
The

original information comes from below:

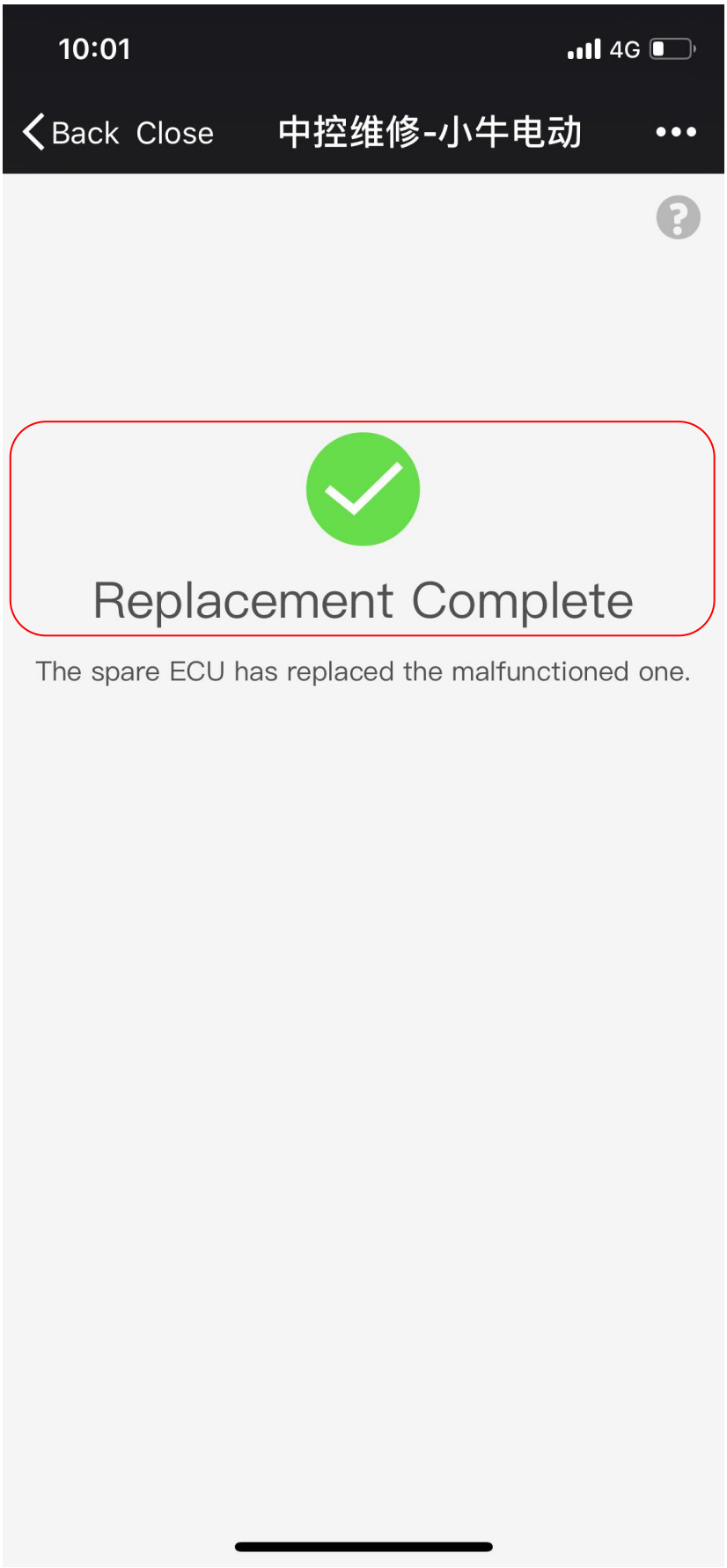




7. SMS vertification



8. Replacement finished



9. Update the ECU software to latest version by H1 if the spare part ECU is not the latest software version.

10. Check the APP status by battery information and GPRS locating,if it doesn't work after the replacement, please contact activation.help@niu.com for help.

11. According to the original disassembly steps to install all the parts.