The car replaced the new JBE / JBBF junction box electronics. Because JBE junction box electronics have a central role in the vehicle, they can control or monitor signals such as central locking, windshield wipers, and interior mirrors, so reading the JBE / JBBF junction box electronics with the X-4231PRO3 Device multiple fault code, shown in Figure 2:

<table>
<thead>
<tr>
<th>故障码</th>
<th>描述</th>
<th>状态</th>
<th>配件</th>
</tr>
</thead>
<tbody>
<tr>
<td>802104</td>
<td>JBE：未存储当前设码数据</td>
<td>间歇</td>
<td></td>
</tr>
<tr>
<td>802107</td>
<td>JBE：控制单元未针对本车设码</td>
<td>间歇</td>
<td></td>
</tr>
<tr>
<td>80209D</td>
<td>中控锁：联锁继电器损坏或保险丝开路</td>
<td>永久</td>
<td></td>
</tr>
<tr>
<td>C90C7E</td>
<td>挡风玻璃刮水器：安装了错误的系列</td>
<td>间歇</td>
<td></td>
</tr>
<tr>
<td>C90CAC</td>
<td>车内后视镜：不希望的 LIN 组件</td>
<td>永久</td>
<td></td>
</tr>
<tr>
<td>C90CAD</td>
<td>雨天/行车灯/光照/雾气传感器：不希望的 LIN 组件</td>
<td>间歇</td>
<td></td>
</tr>
</tbody>
</table>

X431PRO3 Read the vehicle configuration information, as picture3:
In general, BMW F series to be replaced after the ECU programming. In practice, you do not have to program, you can try to set the code. Can not meet the requirements and then seek programming. In this case, after replacing a new ECU module with JBE (junction box electronics), the code is matched and the programming is not required.

Caution

Before starting the test, follow these instructions:
- If the vehicle has a manual gearbox, release the clutch pedal;
- The vehicle is still;
- Parking brake must be applied;
- For manual gearbox, shift lever to neutral;
- For automatic gearbox, shift lever to P position;

Steps

1. Select BMW V49.11 and above;
2. Choose programming / coding;
3. Select 5 series;
4. Select 5’_F10/F11/F18;
5. Choose encoding (recoding), as picture 4;
6. Choose a coding system list, as picture

7. Choose JBE / JBBF (box electronics).

As picture 6:
8. If the current system does not correspond to the code data, will be prompted to manually select one, you can choose, (*) for the current level of integration data. Recommend this. If not, then the lowest recommended level.

9. According to the measured data in Figure 3, it can be seen that the current vehicle data level is F010-13-03-502 (March, 13 version), and the available data level of the
accessories (found by code operation in the back) is F010-15-07-500 July 15 version.

Accessory data levels are much larger than the current data level. As shown in FIG. 7, "the current code data is not stored". At this point, to consider programming. In fact, PRO series BMW code support manual selection. The code data level (version>= V49.11) allows the code to be coded even if the corresponding data level can not be read in the vehicle. 9. Select F010-15-07-500 (July 15 version) code, until prompted to succeed, as shown in Figure 8.

10. After the code is completed, enter the automatic scanning or manually select the corresponding system, read / clear the fault code to see if the corresponding fault still exists to determine whether the code is valid. Some systems may also need to do the matching function. Editor: As a general rule, do not programmatically codeable.