

2013 Land Rover Freelander-2 Diesel Vehicle Engine Failure.

2016-05-09 golo官微

实测车型

Land Rover Freelander-2 Diesel Car, 2013款, VIN=SALFA2BD7EH3*****。

Fault Phenomenon: Sometimes it is very hard to start the car, so the engine fault light is on. It displayed 3 error code in the engine system when used X431 tablet to test.

1. P245A Exhaust gas recirculation cooler - bypass control circuit is permanent;
2. P0342 Camshaft position sensor A- circuit output voltage too low (cylinder group 1 or single sensor) history
3. P2264 Fuel composition (water content) sensor circuit failure interval

Operation Procedure:

1. Select Land Rover V32.82 above, see pic1;



2.



pic2

3. Click "Confirm" Prompt X431PRO3 reads the diagnostic vehicle information, and after verification, click "yes" continues, as shown in figure 3;



pic3

4. Read engine system fault code: P245A waste gas recirculating cooler - bypass control circuit permanent; P0342 camshaft position sensor

A- circuit output voltage too low (cylinder group 1 or single sensor) history; P2264 fuel composition (water content) sensor circuit fault intermittence, as shown in FIG. 4;

故障码	描述	状态	配件
P245A	废气再循环冷却器 - 旁路控制电路	永久	🔍
P0342	凸轮轴位置传感器A-电路输入电压太低(缸组1或单个传感器)	历史	🔍
P2264	燃油成分(含水分)传感器电路故障	间歇	🔍

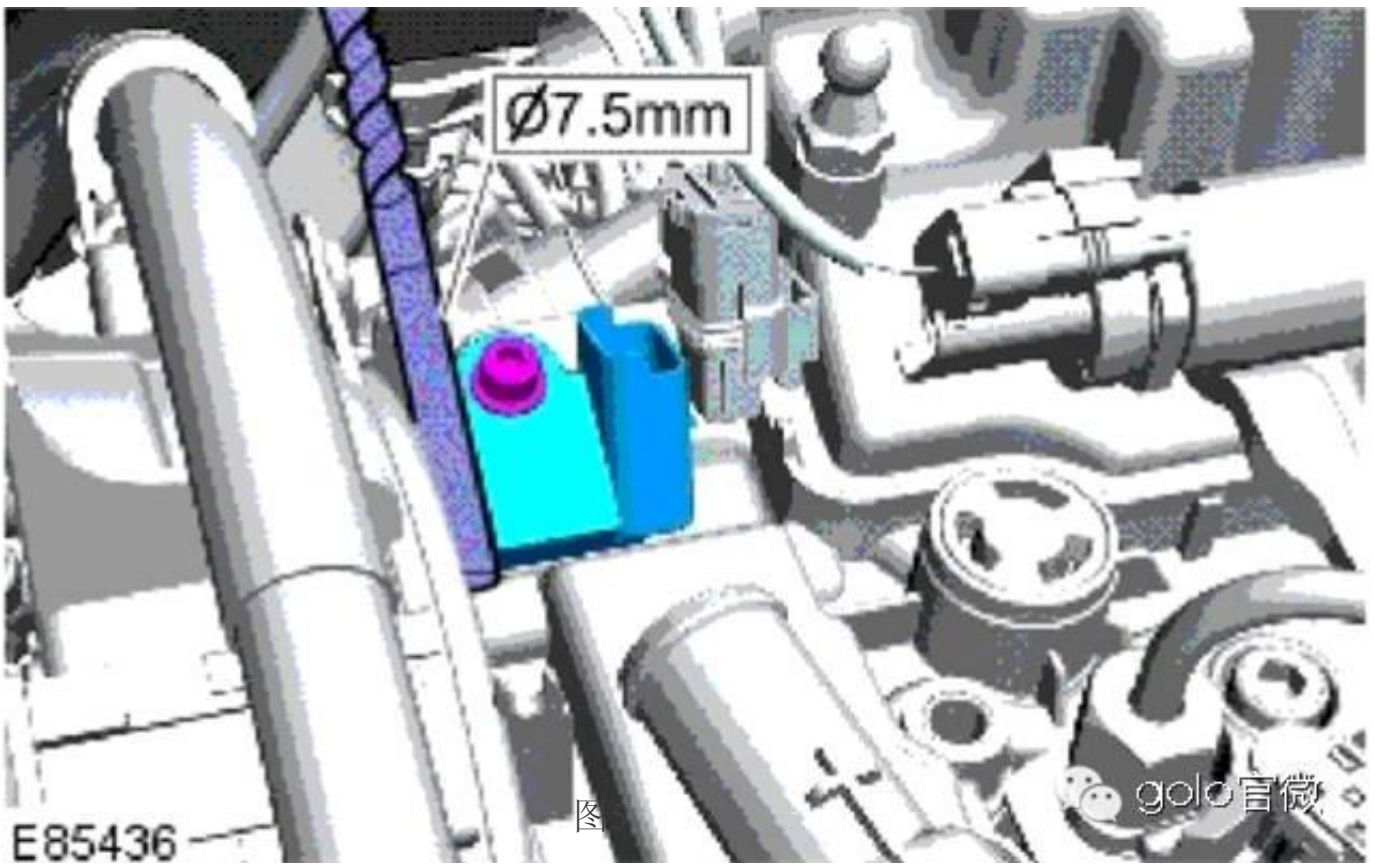
5. According to the analysis of the above fault codes, the reason that the engine is sometimes difficult to get the engine may be two fault codes:

(1) P2264 fuel oil composition (water content) Fault of sensor circuit;

(2) P0342 CAM shaft position sensor A- circuit output voltage too low (cylinder group 1 or single sensor

). Considering that the diesel filter has been used for 30,000km, the solution of the fault code P2264 is to replace the diesel filter first. In the process of replacement, the sensor line is checked, the pin is processed and replugged. Note that the replacement of the diesel filter needs to be drained and the special reset is to be carried out.

After checking the voltage of the signal line of the camshaft position sensor, it is decided to replace the camshaft position sensor. Install the camshaft position sensor to ensure that the clearance between the CAM position sensor and the end face is 7.5 mm. As shown in figure 5: the sensor steps between the end face and put a 7.5 mm diameter bit, clearance is too small will wear the CAM position sensor, lead to damage of the CAM position sensor, the gap is too big, can lead to weak signal.



6. According to the fault code "P245A exhaust gas recirculation cooler - bypass control circuit", the exhaust gas recirculation cooler - bypass control solenoid valve for inspection, found that electricity after the body doesn't work, the replacement of exhaust gas recirculation cooler - bypass control solenoid valve for processing.

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