LAUNCH

Ford F-150 2019 Lane Departure Warning System Camera Calibration

Supported Model/Model Year:

2019 Ford F-150

Features:

When removing or replacing the rearview mirror, front windshield, camera, IPM-A module or guided by TSB (Technical Service Briefing) maintenance manual, this function is needed to perform; If IPM-A is replaced, PMI (Programmable Module Installation) is needed to perform. This procedure requires driving the vehicle for about 10 minutes to align the camera. Function execution is unsuccessful, you can try multiple times.

Requirements:

Communication is normal, and battery voltage is between 12V and 15V. This function requires driving the vehicle at a speed of more than 64 kilometers per hour on a marked lane for about 10 minutes to align the camera. Try to avoid driving across lanes, steering too much, and sudden changes in speed.

To perform this function, please choose a sunny day and a well-lit road, avoid direct sunlight to the camera and ensure that the camera lens is unobstructed.

Software Version:

Select Ford V48.50 or above.

Product Requirements:

X431 PRO series, PAD series products.

Steps:

1. Select [Auto Search] (Figure 1, Figure 2).
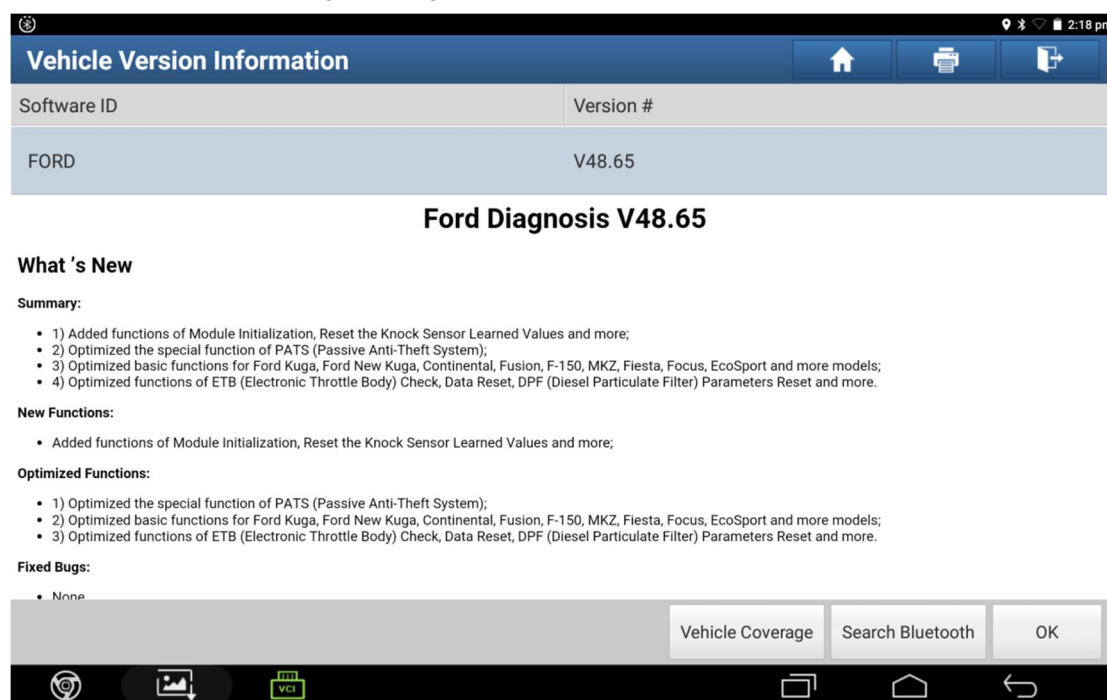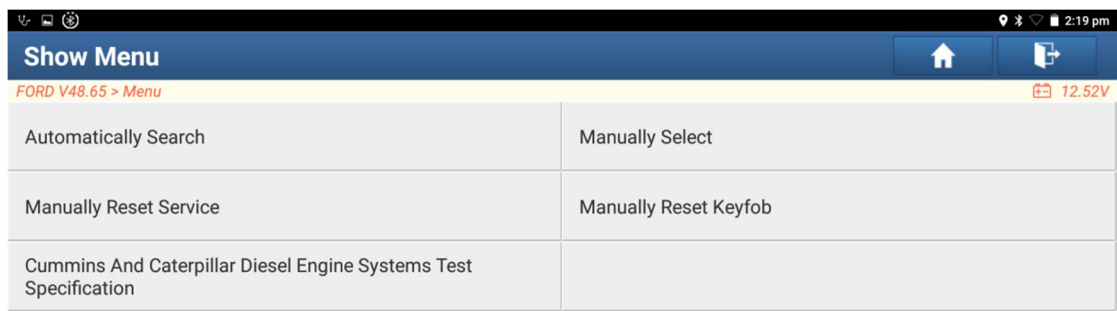

Figure 1

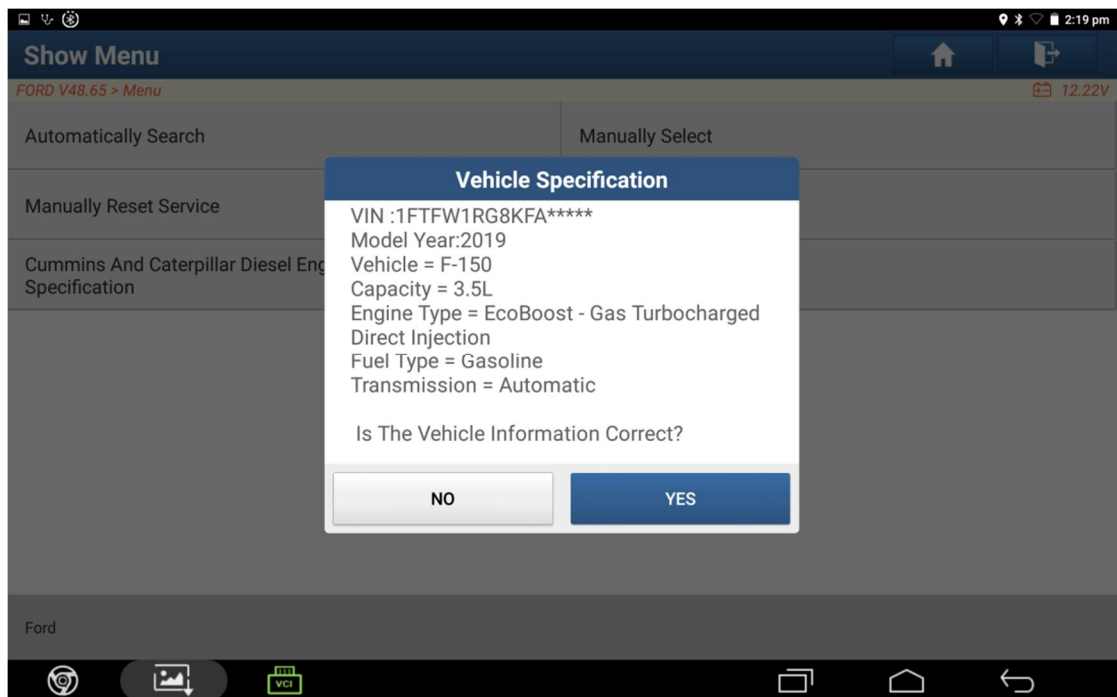Figure 2

2. Confirm current vehicle information (Figure 3).

Figure 3

3. Select [Special Features] (or select ADAS (Advanced Driver Assistance System) Calibration) (Figure 4).
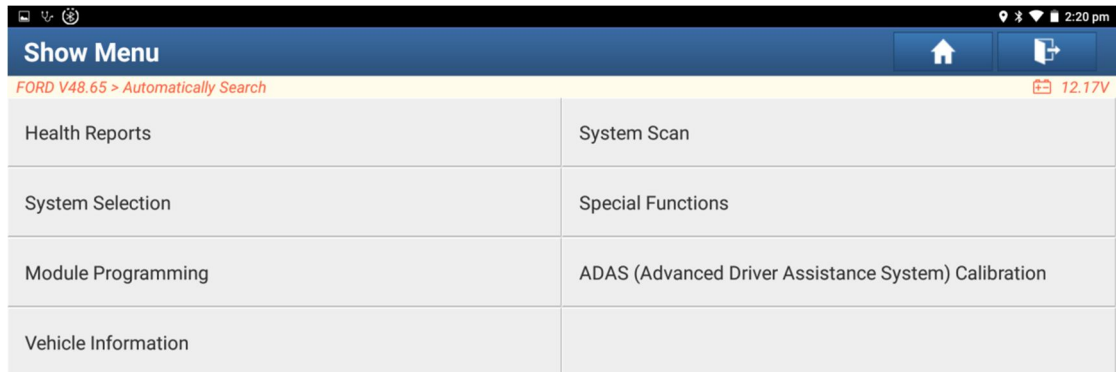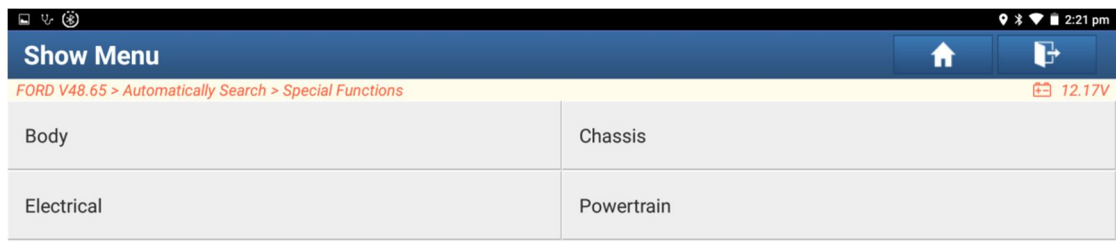

Figure 4

4. Select [Body] (Figure 5).

Figure 5

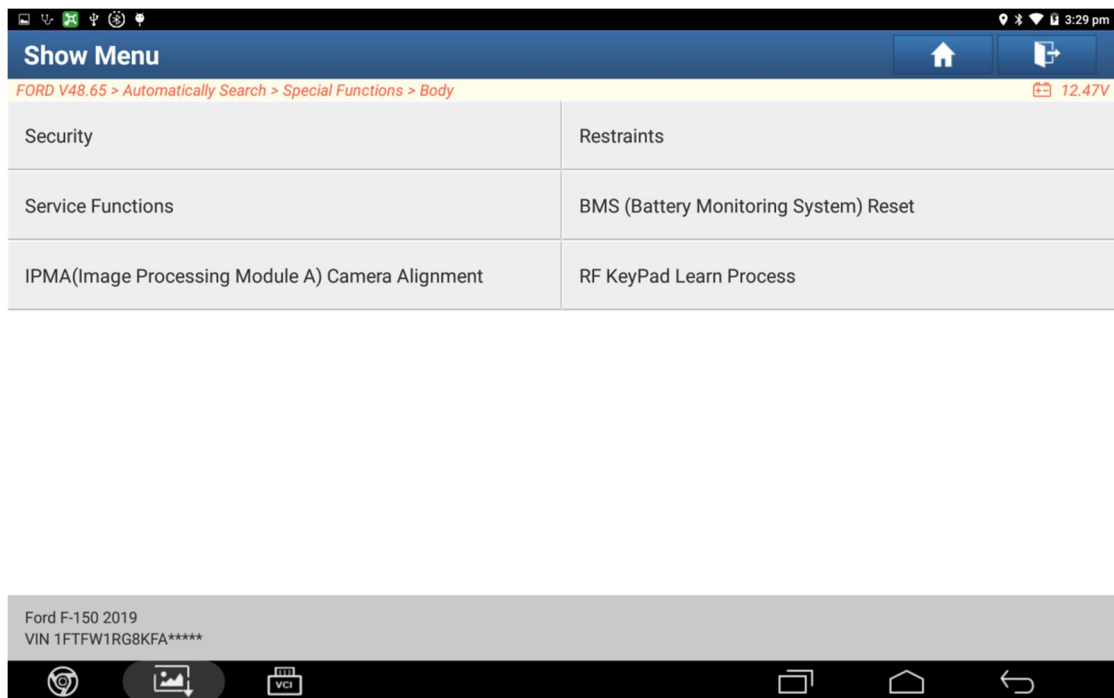5. Select [IPMA (Image Processing Module A) Camera Alignment] (Figure 6).

Figure 6

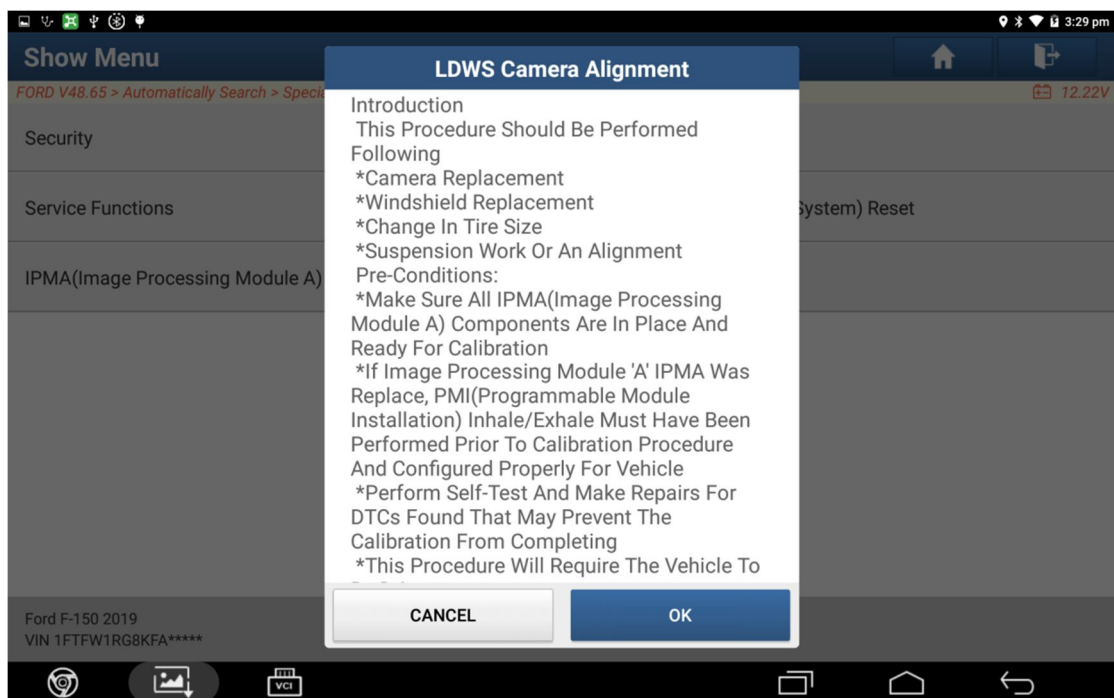6. Prompt the conditions of performing the function (Figure 7).

Figure 7

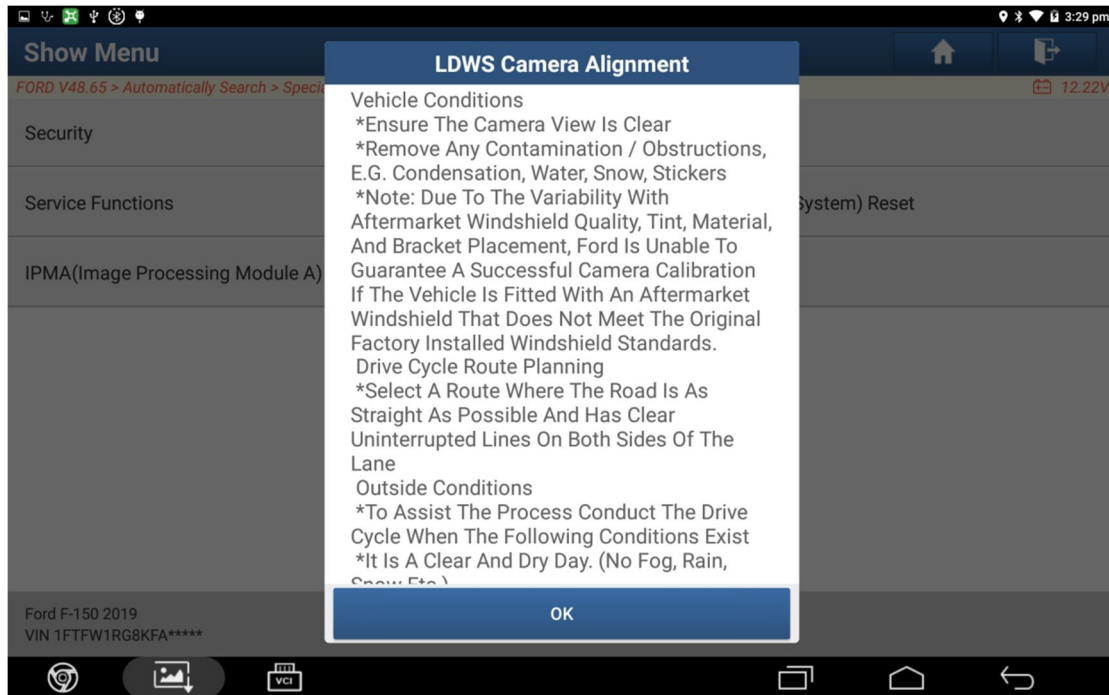7. Prompt to perform the function, the conditions required by vehicle and external conditions (Figure 8).

Figure 8

8. Prompt to switch ignition ON and do not start engine (Figure 9).
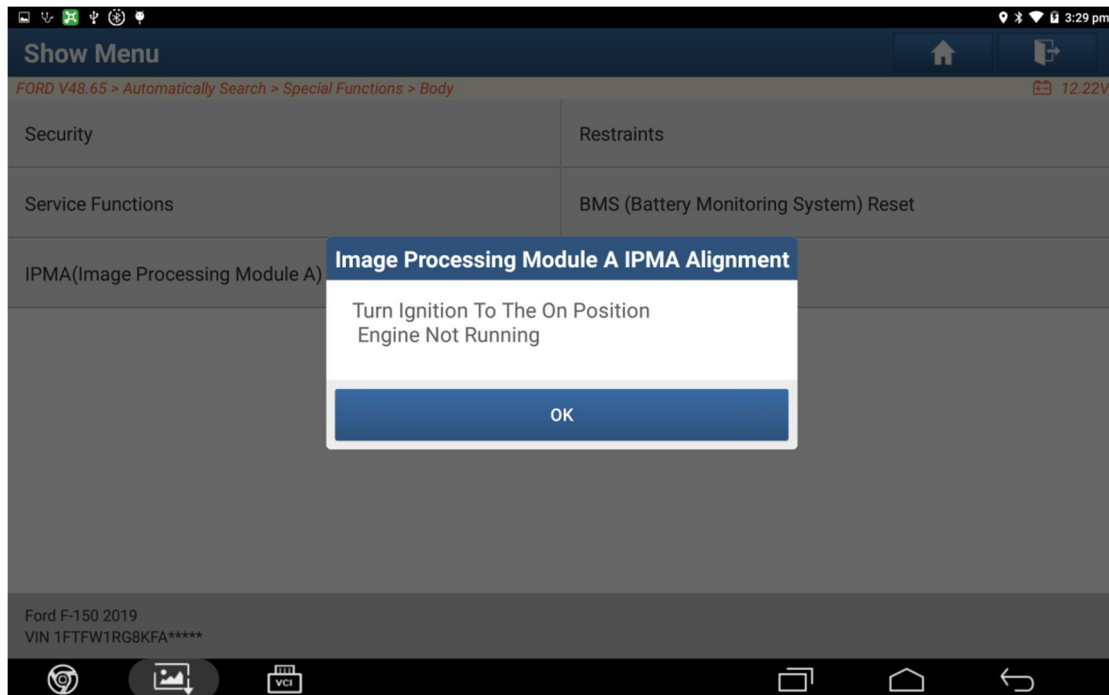

Figure 9

9. Read vehicle data (Figure 10);

   Select 'Yes' will not change the value. Enter Step13;

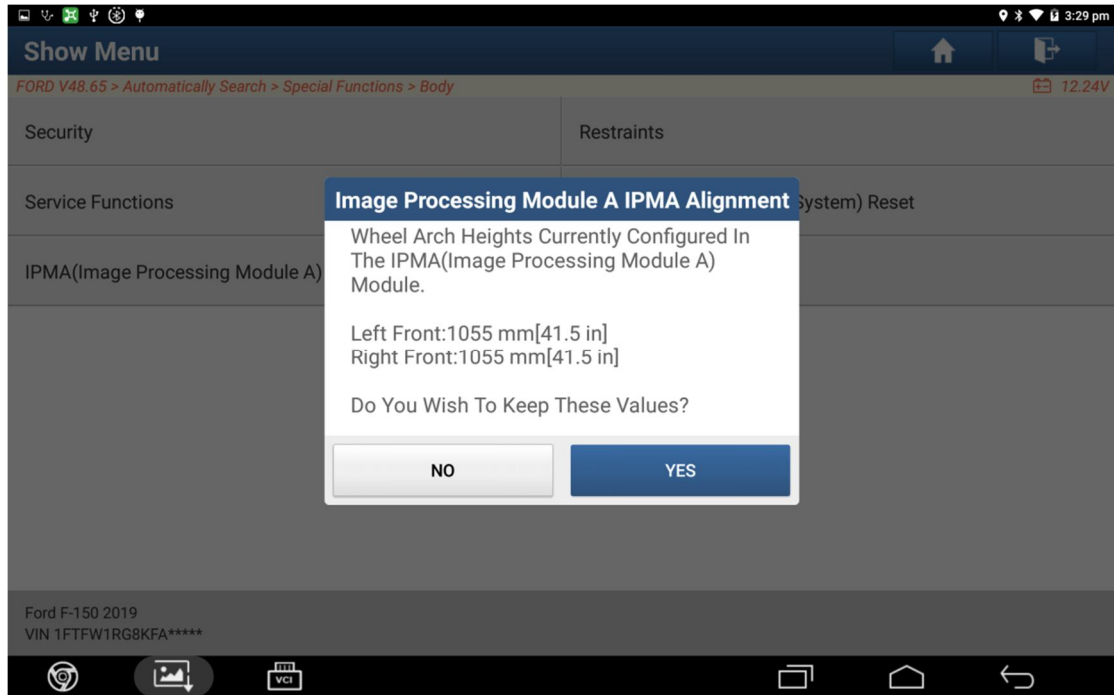   Select 'No' to measure manually entered values. Go to the next step.

Figure 10

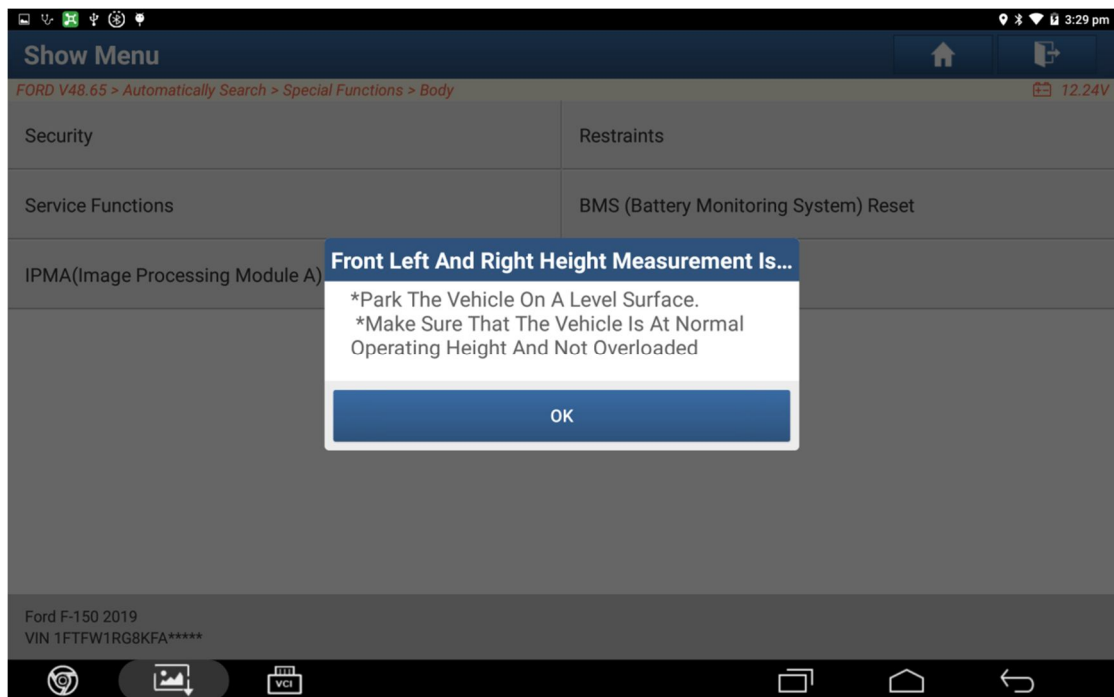10. Prompt to measure the height of front left wheel and front right wheel and wheel arches (Figure 11).

Figure 11

11. Prompt the measurement position (Figure 12).

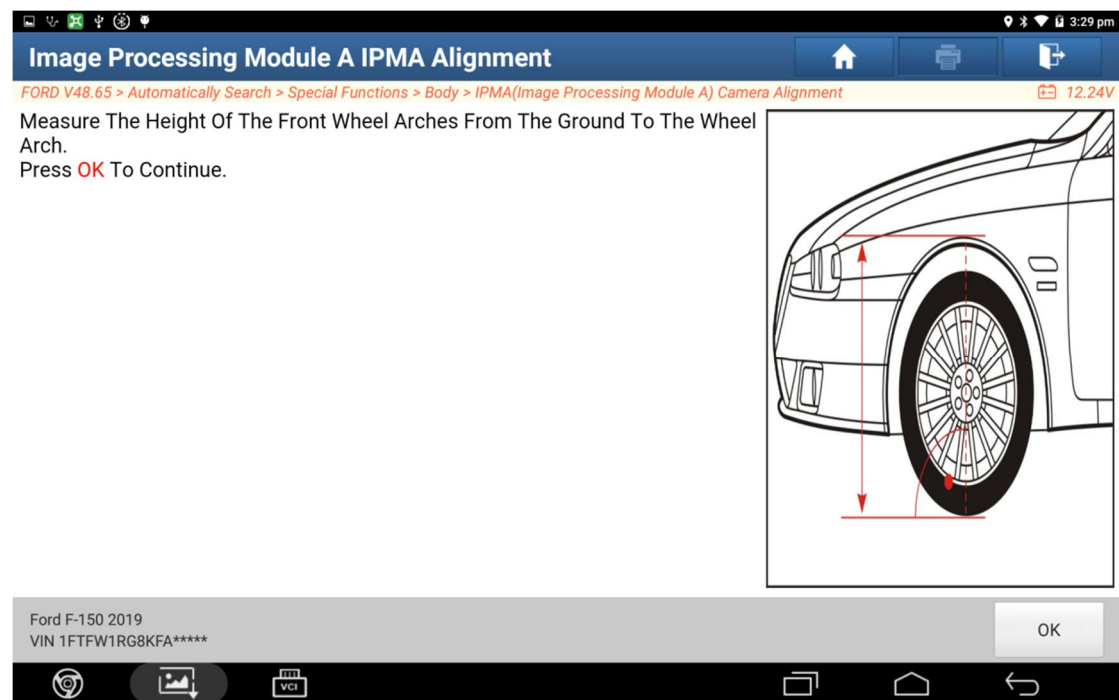Figure 12

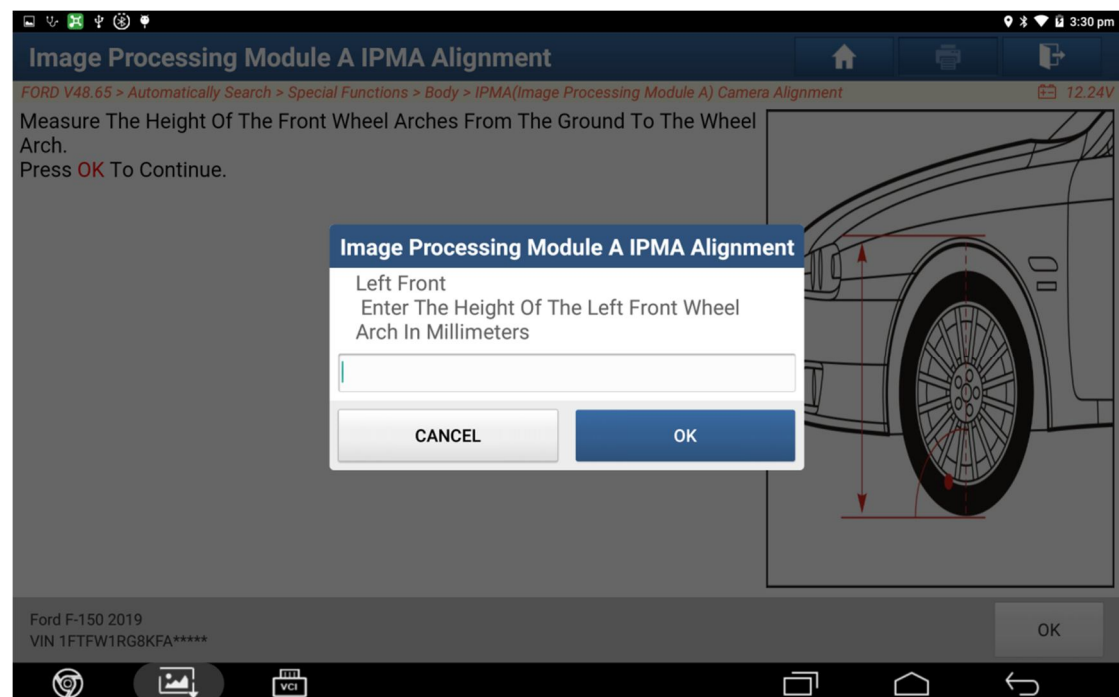12. Prompt to enter the measured values of front left and front right wheel arches (Figure 13, Figure 14).
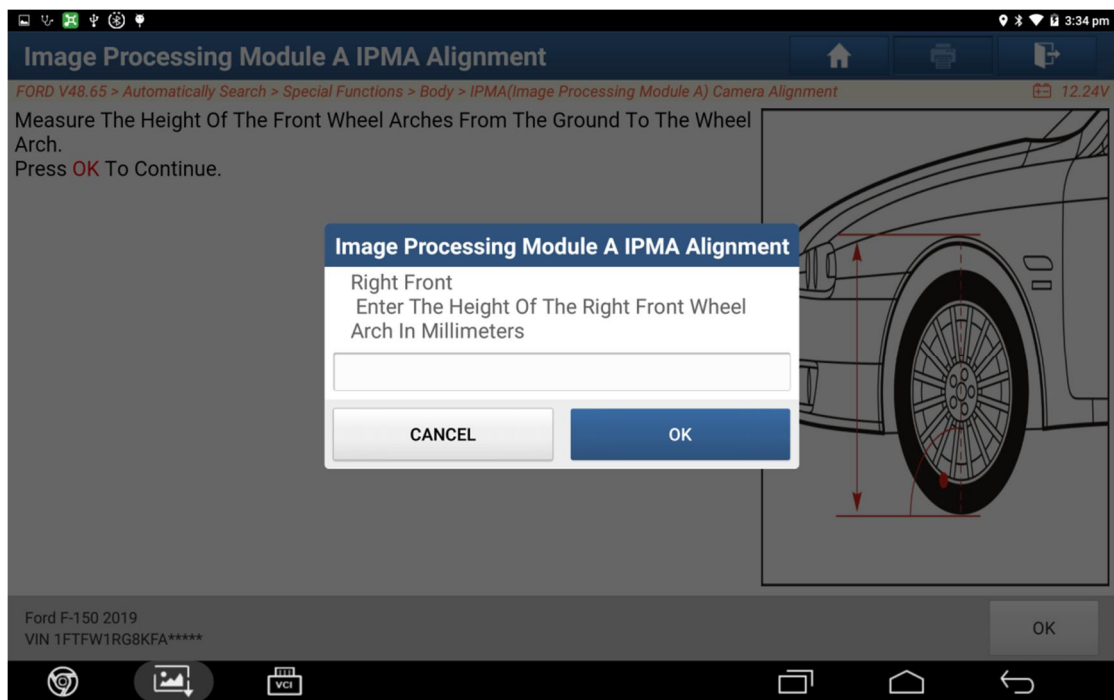

Figure 13

Figure 14

13. Prompt to start engine, do not switch ignition OFF before the calibration is completed, vehicles with intelligent Start/Stop function need to manually turn off the Start/Stop function (Figure 15).
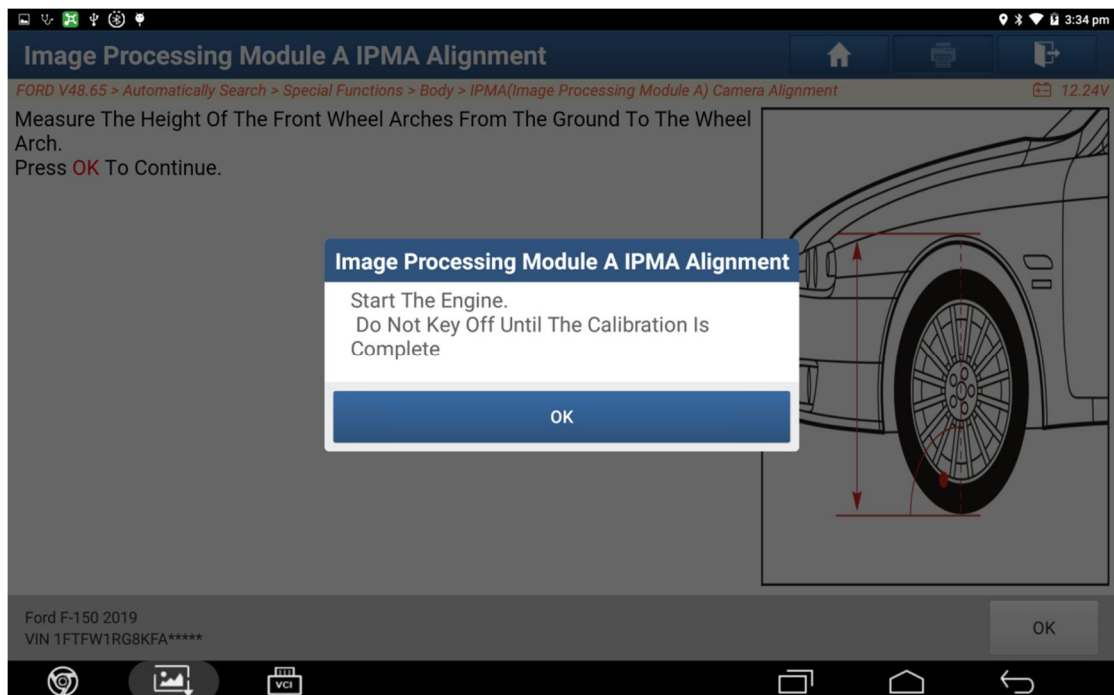

Figure 15

14. Start camera alignment and wait for the countdown to end (Figure 16).
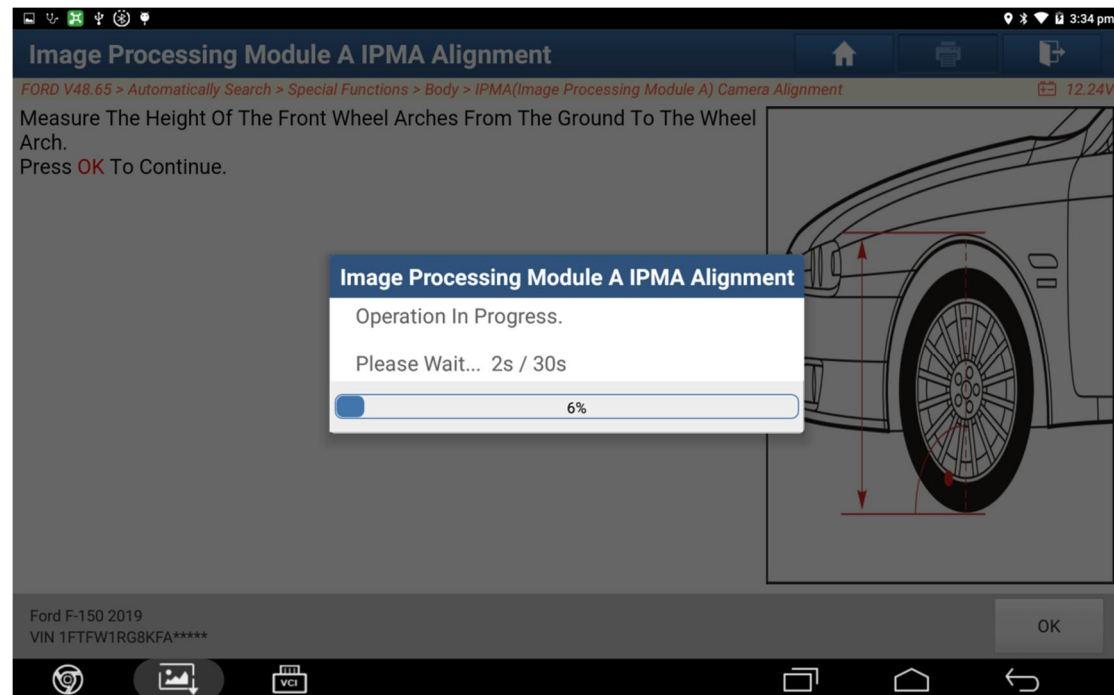

Figure 16

15. Prompt that the function is executed successfully and the vehicle is in camera alignment mode. (Figure 17).
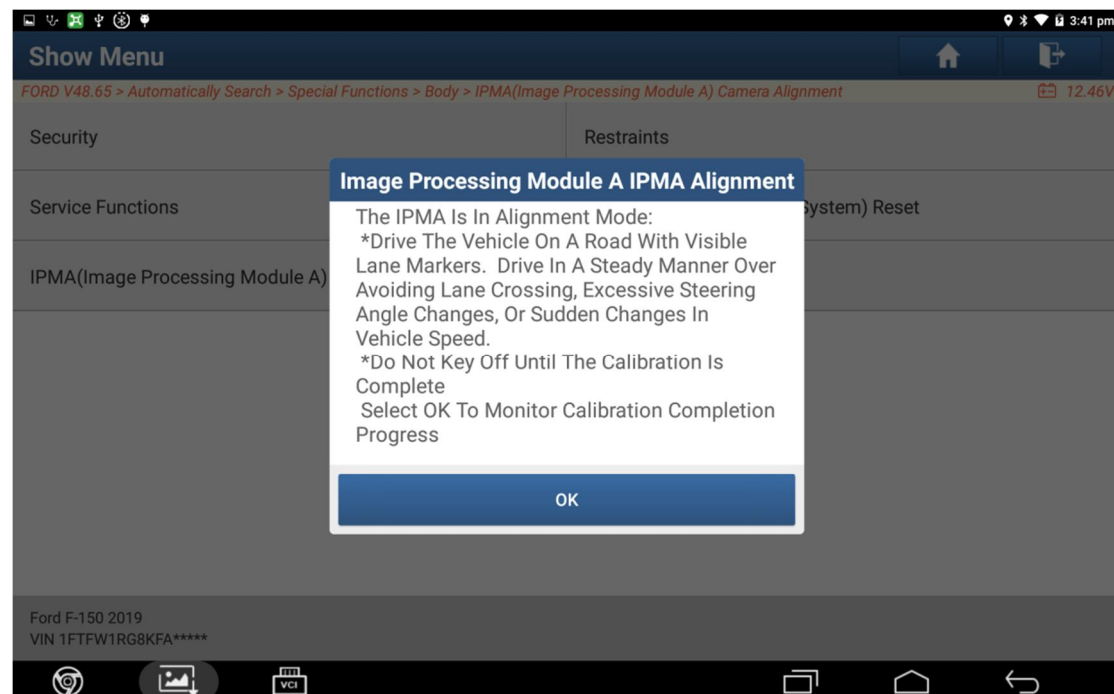

Figure 17

16. Display the progress of calibration completion. At this time, please drive the vehicle on a clearly marked lane. Turn on the Lane Keeping System, vehicle speed exceeds 60 KPH, and the calibration completion percentage is 100% (Figure 18), then the alignment is successfully completed. A fault code will be generated if the ignition is switched OFF when calibration is not completed.
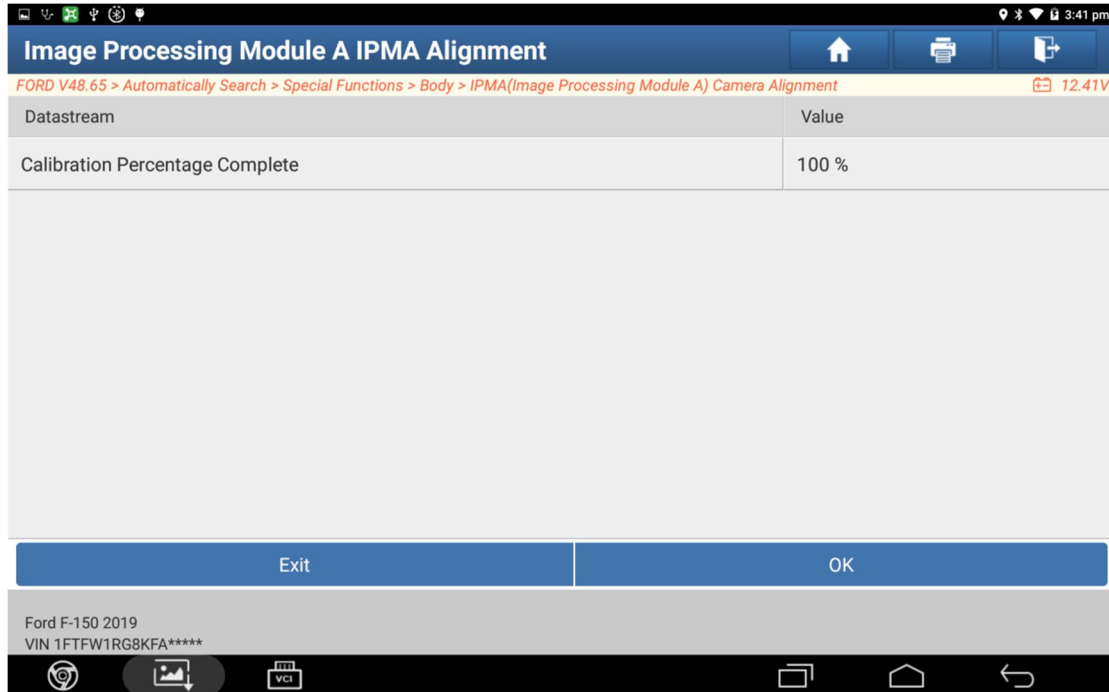

Figure 18

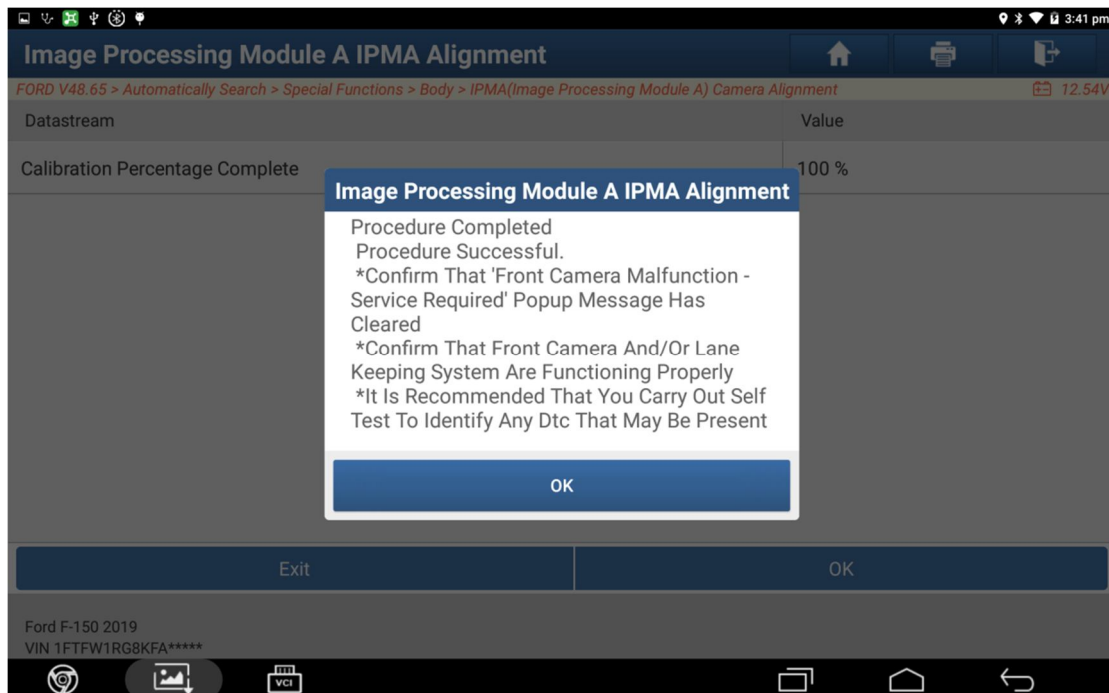17. The function operation is successful (Figure 19).

Figure 19

18. Exit the function, and return to the menu to clear the fault code.