LAUNCH

Ford 2019 F-150 360 Camera Calibration

Supported Model/Model year:

Ford F-150 2019

Features:

When removing or replacing the front/rear camera, IPM-B module or guided by TSB (Technical Service Briefing) maintenance manual, this function is needed to perform. And this function needs to cooperate with **Target LAC04-07**.

Requirements:

Communication is normal, battery voltage is between 12V and 15V, and all doors, trunk, and hood are closed;

If the IPMB (Image Processing Module B) is replaced, please execute "**IPMB Programmable Module Installation**" under the module programming menu before continuing this procedure;

If the front or rear camera is replaced, please execute "**LIN New Module Initialization-IPMB (Image Processing Module B) Maintenance Function**" before continuing this procedure;

Execute IPMB (Image Processing Module B) read the fault code, and execute clear the fault code before continuing this procedure.

Software Version:

Select Ford V48.50 or above.

Product Requirements:

X431 PRO3 series products, PAD series products, X-431 ADAS target LAC04-07.

Steps:

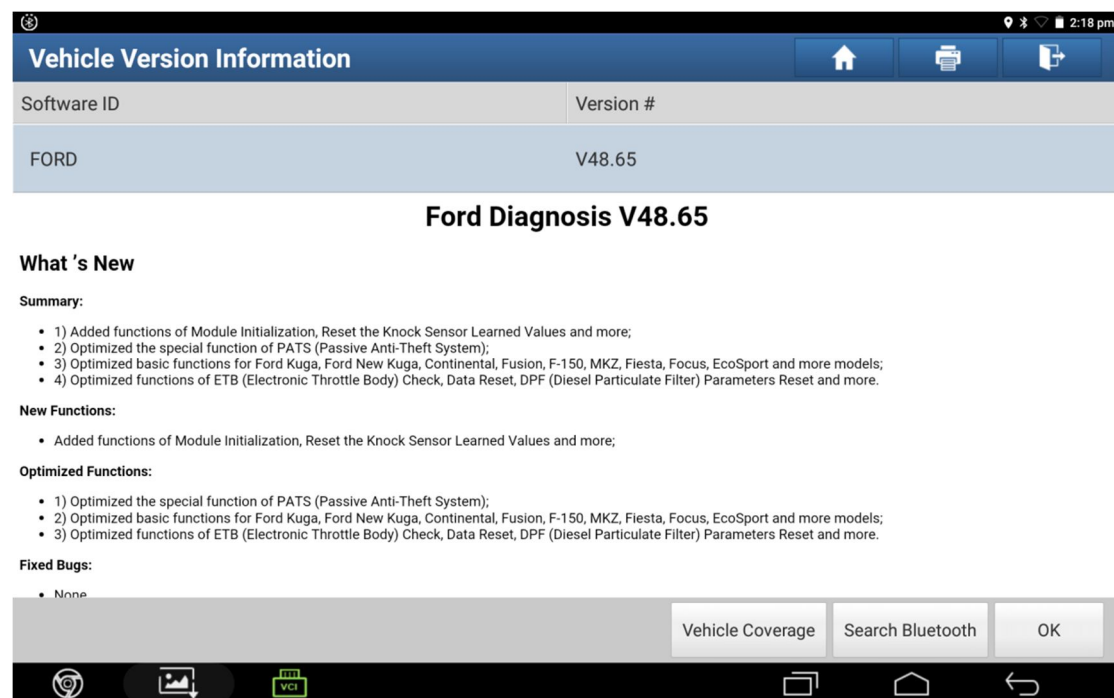1. Select [Auto Search] (Figure 1, Figure 2).

Figure 1
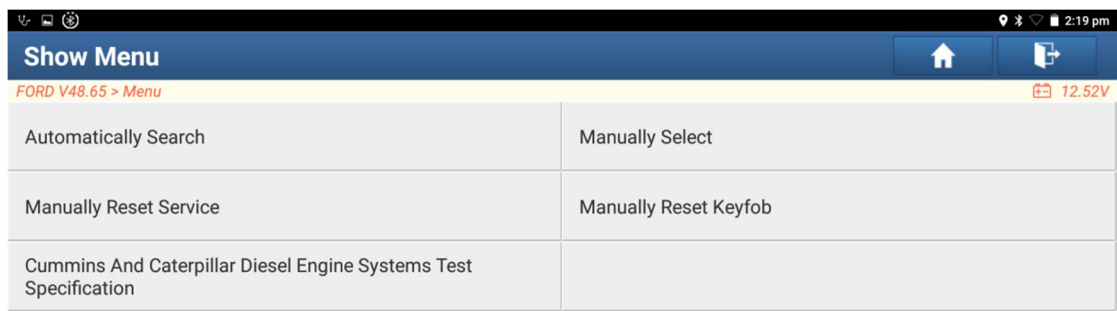
Figure 2
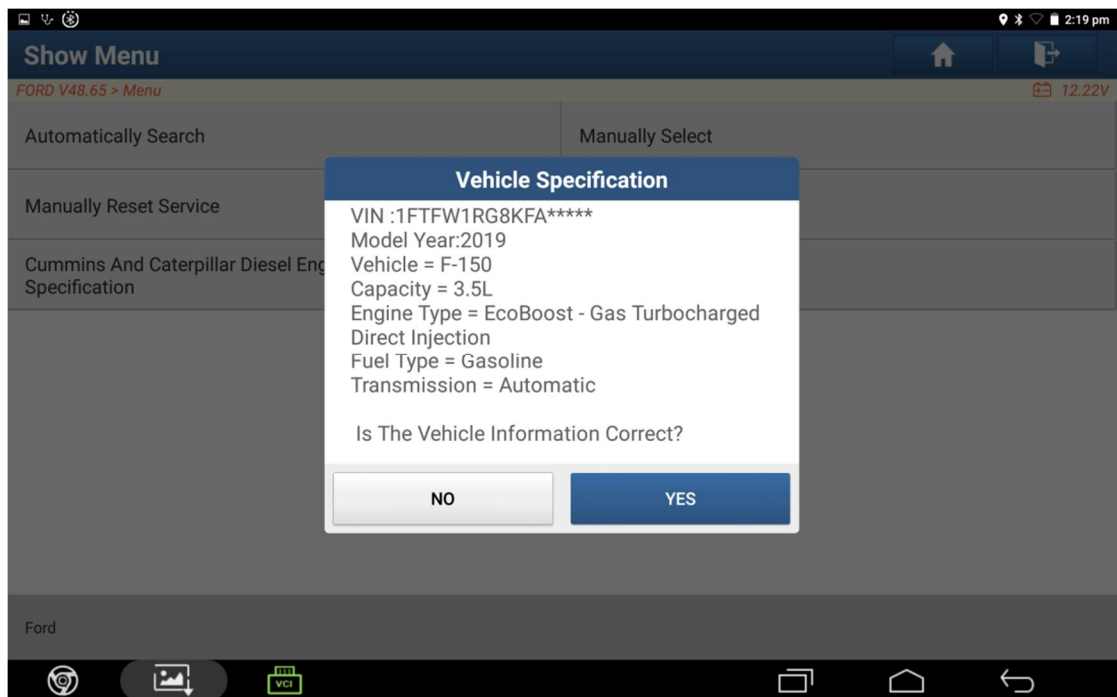
2. Confirm current vehicle information (Figure 3).

Figure 3

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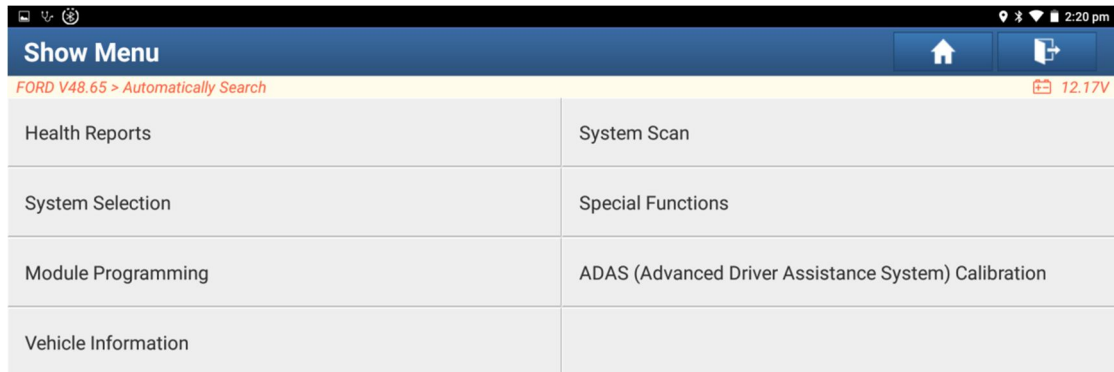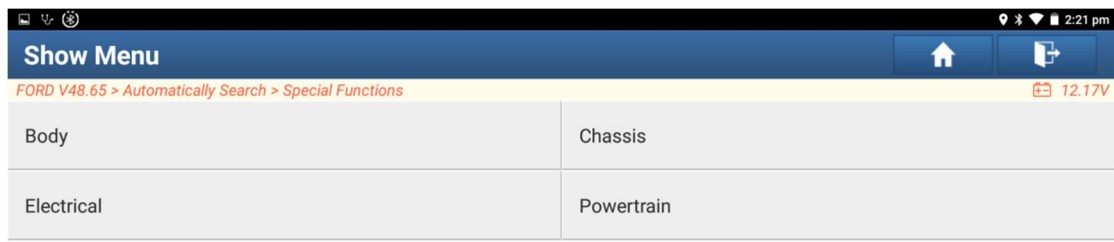

Figure 4

4. Select [Electrical] (Figure 5).
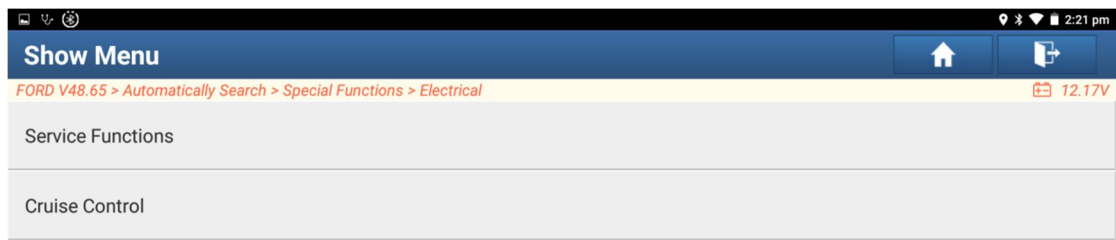

Figure 5

5. Select [Service function] (Figure 6).

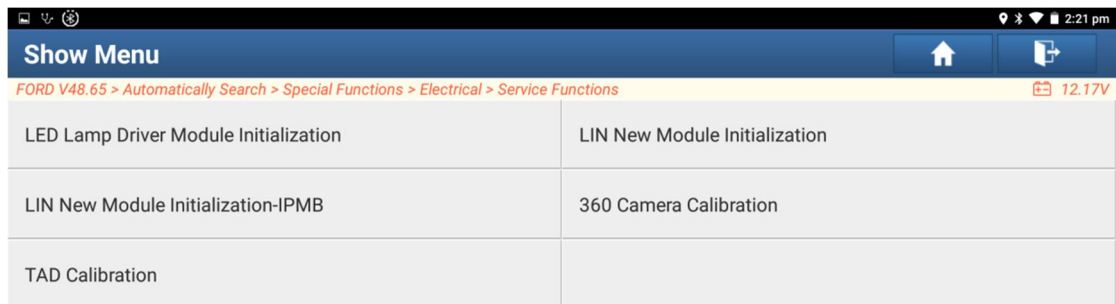Figure 6

6. Select [360 Camera Calibration] (Figure 7).

Figure 7

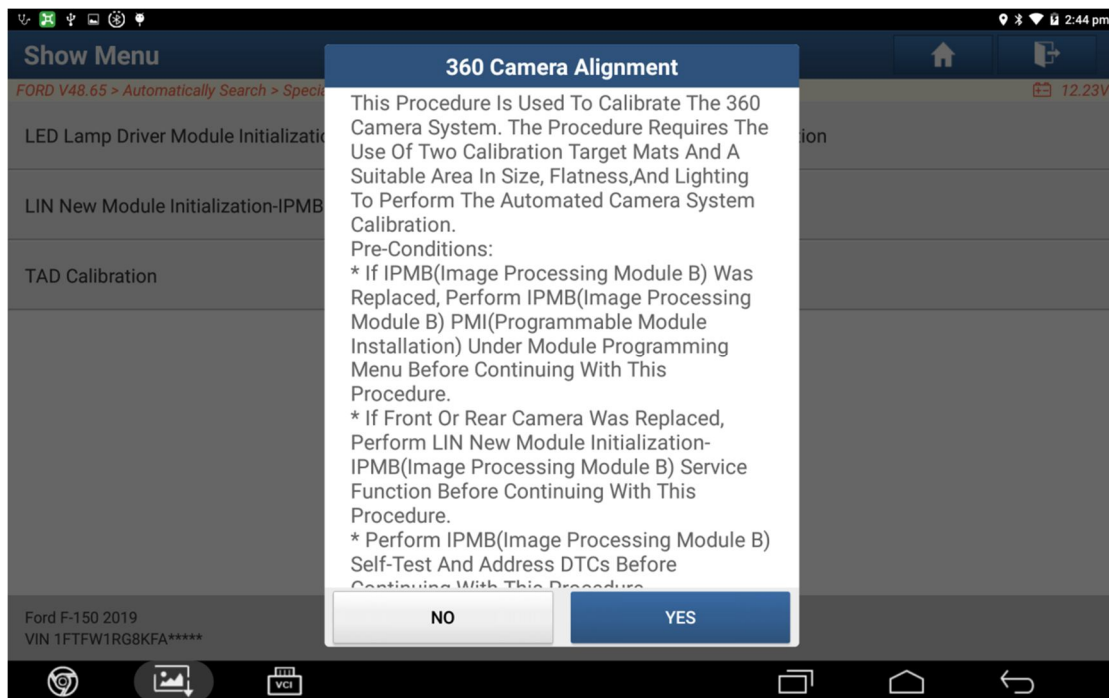7. Prompt to perform the function, prerequisites for the vehicle (Figure 8).

360 Camera Alignment

This Procedure Is Used To Calibrate The 360 Camera System. The Procedure Requires The Use Of Two Calibration Target Mats And A Suitable Area In Size, Flatness,And Lighting To Perform The Automated Camera System Calibration.
Pre-Conditions:
* If IPMB(Image Processing Module B) Was Replaced, Perform IPMB(Image Processing Module B) PMI(Programmable Module Installation) Under Module Programming Menu Before Continuing With This Procedure.
* If Front Or Rear Camera Was Replaced, Perform LIN New Module Initialization-IPMB(Image Processing Module B) Service Function Before Continuing With This Procedure.
* Perform IPMB(Image Processing Module B) Self-Test And Address DTCs Before Continuing With This Procedure.

NO   YES

Figure 8

8. Prompt the surrounding environment to ensure enough space and precautions for the vehicle (Figure 9).

360 Camera Alignment

Pre-calibration Preparation:
 -Park Vehicle On A Suitable Flat Surface With Sufficient Area For Placement Of Target Mats. Allow For An Additional 2ft (610mm) Clearance Around Perimeter Of Target Mats With No Objects That Could Interfere With The Calibration
 -Verify Vehicle Is In PARK.
 -Verify Target Mats Are Clean And Undamaged.
 -Verify That All Camera Lenses Are Clean.
 -Verify That Lighting Will Properly Illuminate The Target Mats And Will Be Clearly Visible On The Touch Screen Display.
 -Verify That All Doors, Deck Lid, And Tail Gate Are Closed
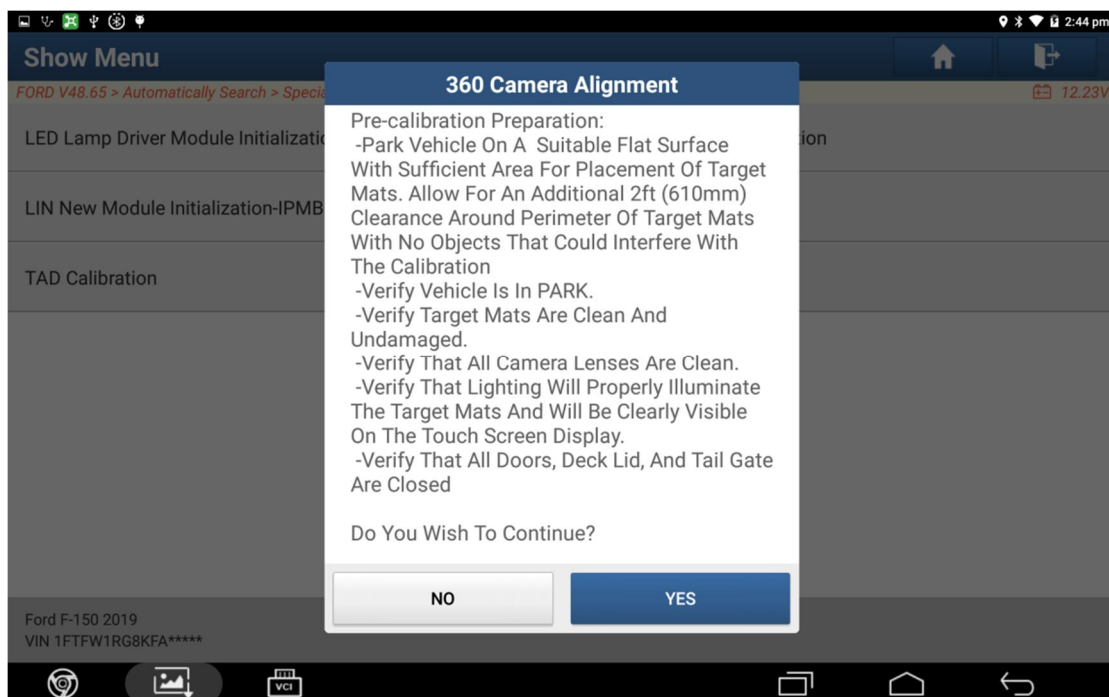
Do You Wish To Continue?

NO   YES

Figure 9

9. Place the target correctly according to the prompts (Figure 10). Take F-150 as an example: Mark 1 is 2400mm.
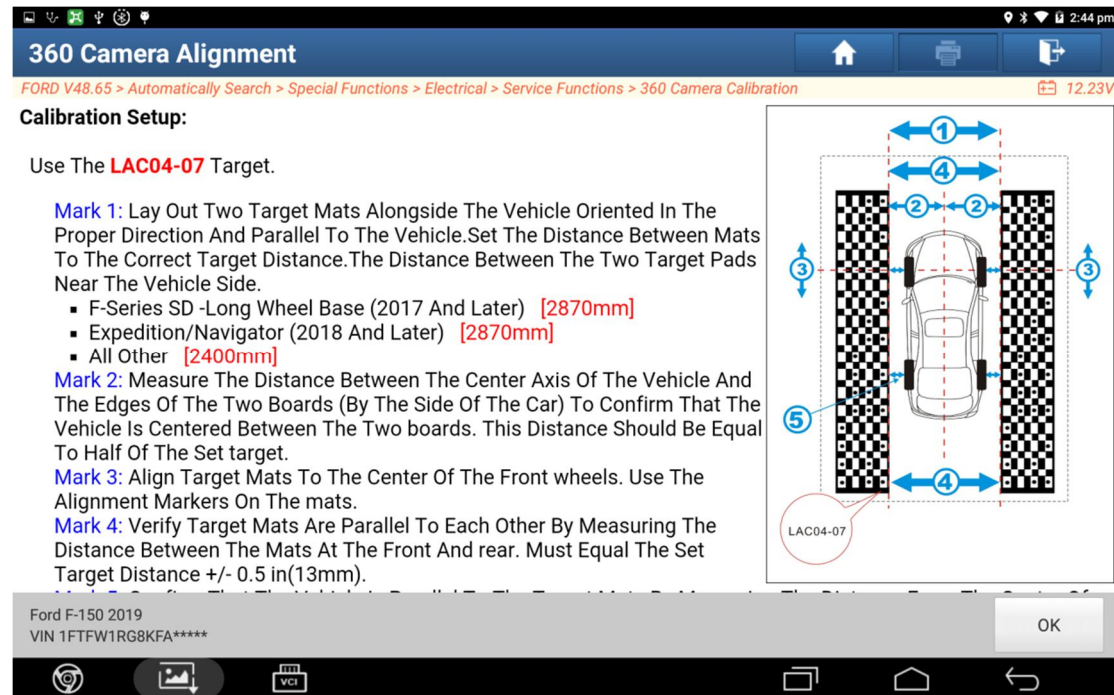

Figure 10
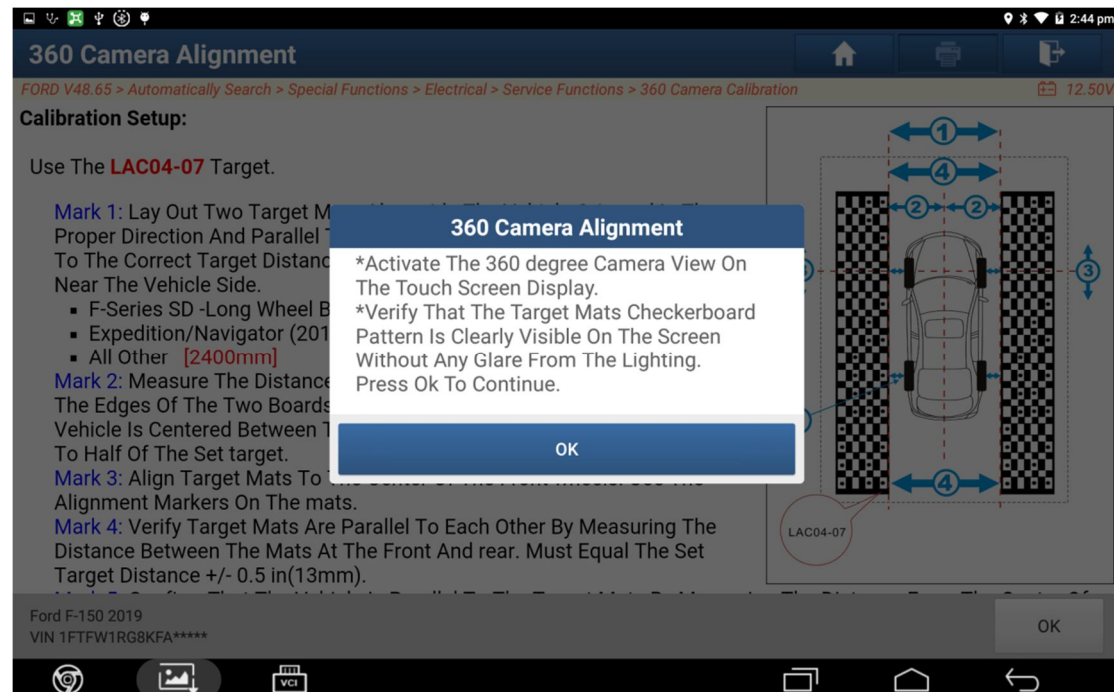
10. Prompt to turn on the camera (Figure 11).

Figure 11

11. Prompt the time required for calibration (Figure 12).
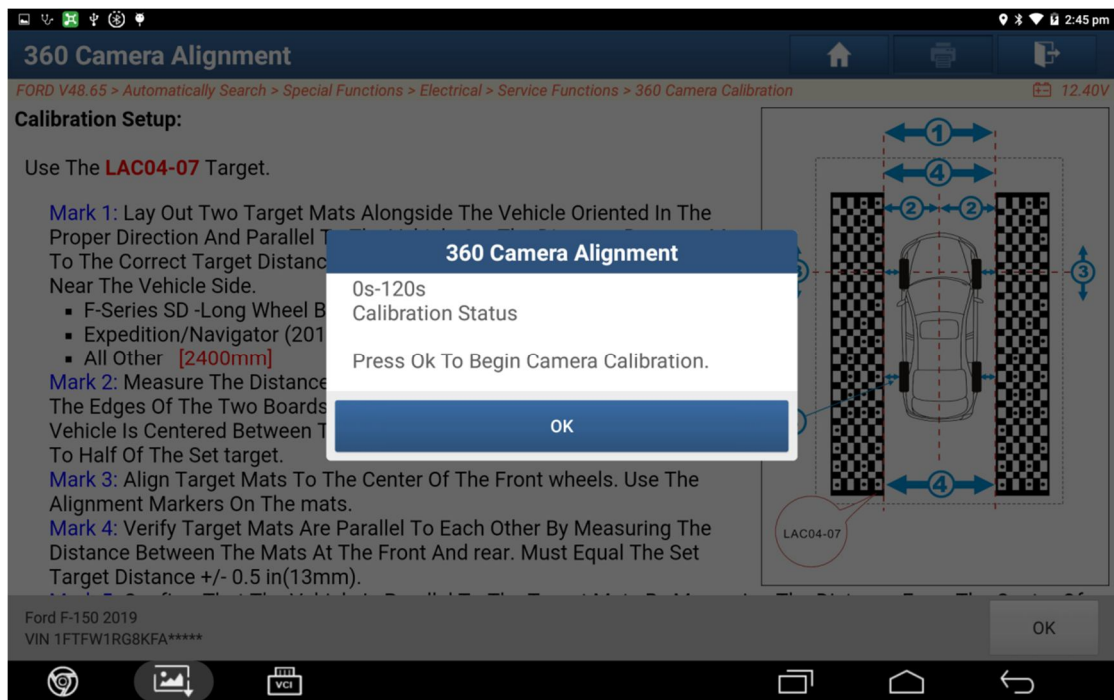
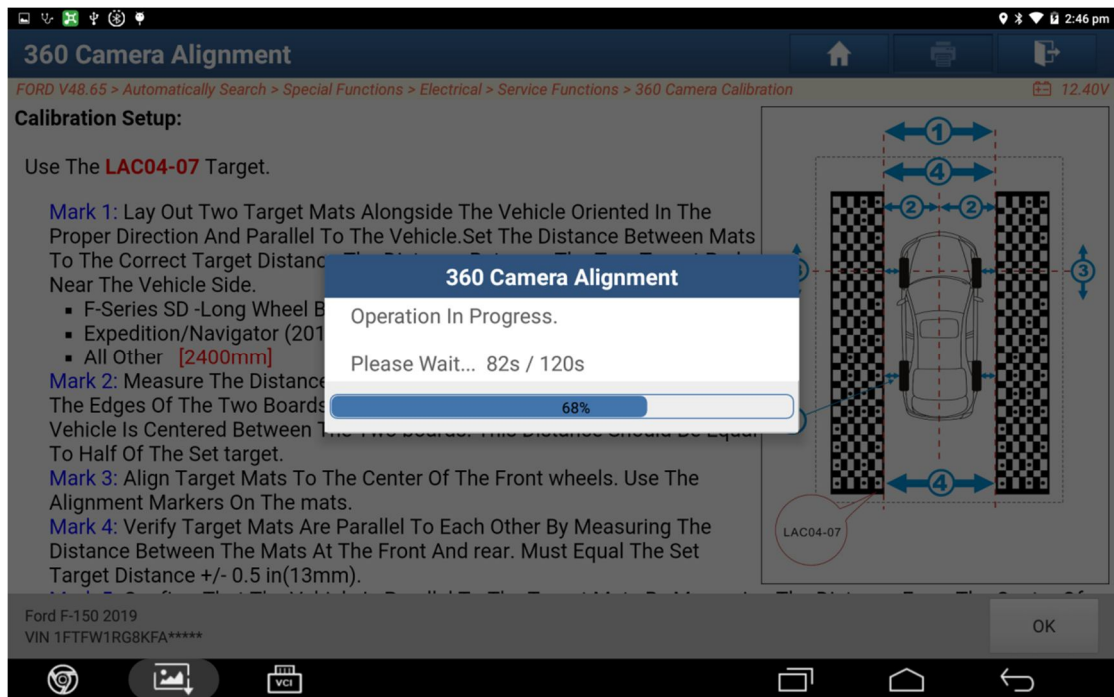

Figure 12

12. Prompt to start calibration (Figure 13).

Figure 13

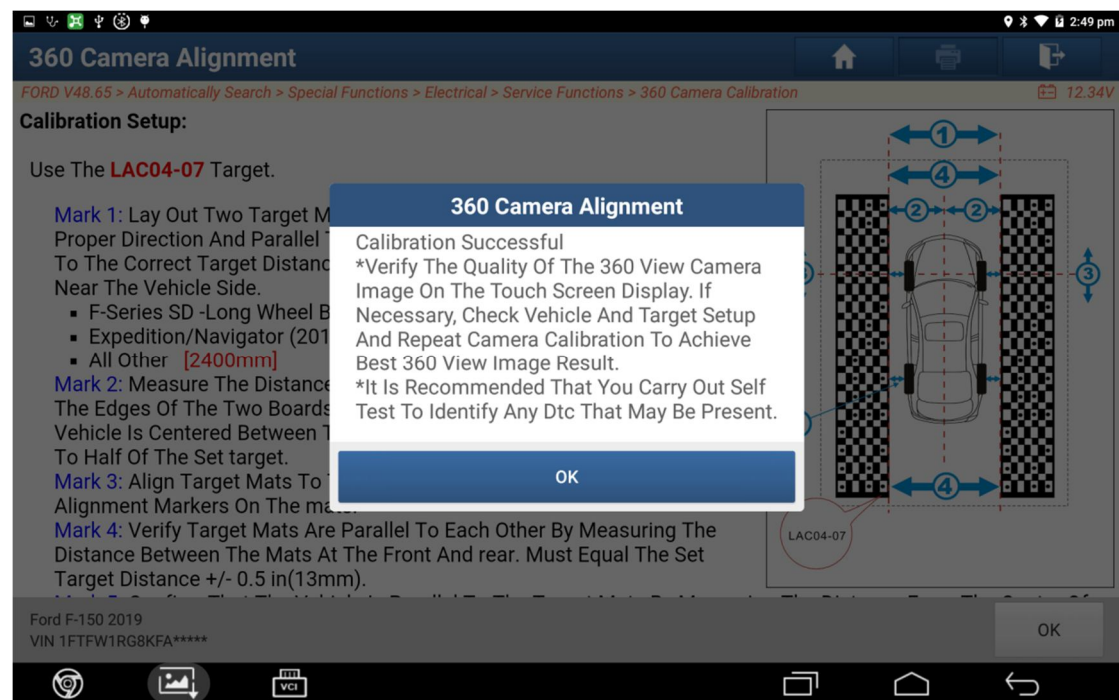13. Prompt that the calibration is successful (Figure 14).

Figure 14

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