

LAUNCH

Ford F-150 2019 TAD Calibration

Supported Model/Model Year:

Ford 2019 F-150

Features:

When removing or replacing the front/rear camera, IPMB 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 PRO3/3S/3S+/5 series products, PAD series products, X-431 ADAS target **LAC04-07**.

Steps:

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

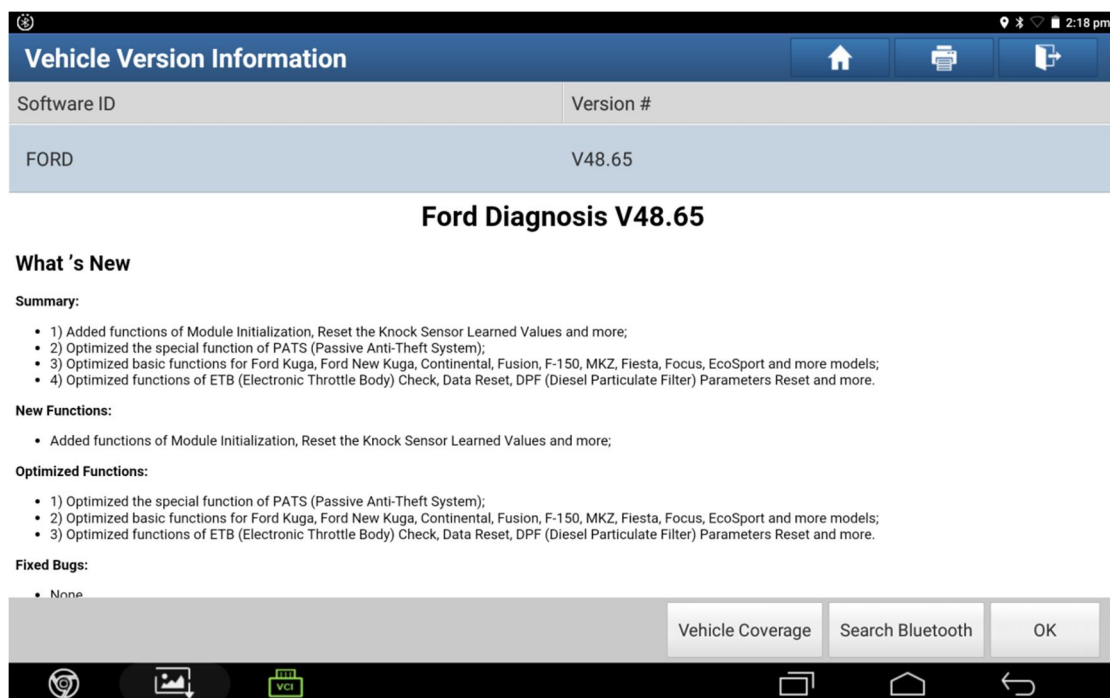


Figure 1

LAUNCH

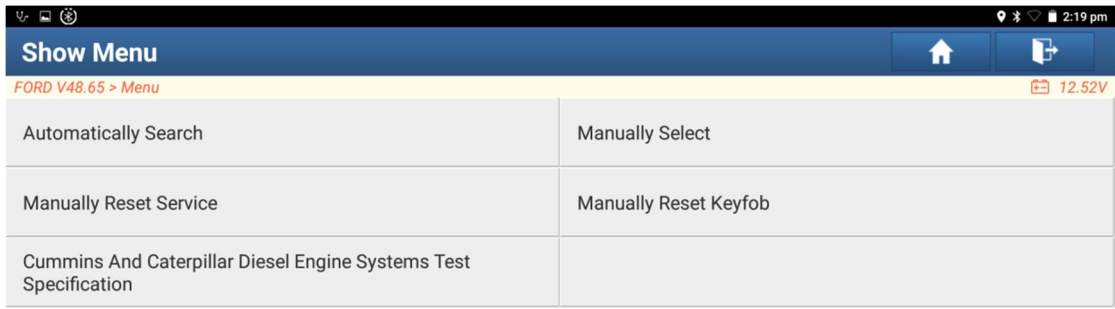


Figure 2

2. Confirm current vehicle information (Figure 3).

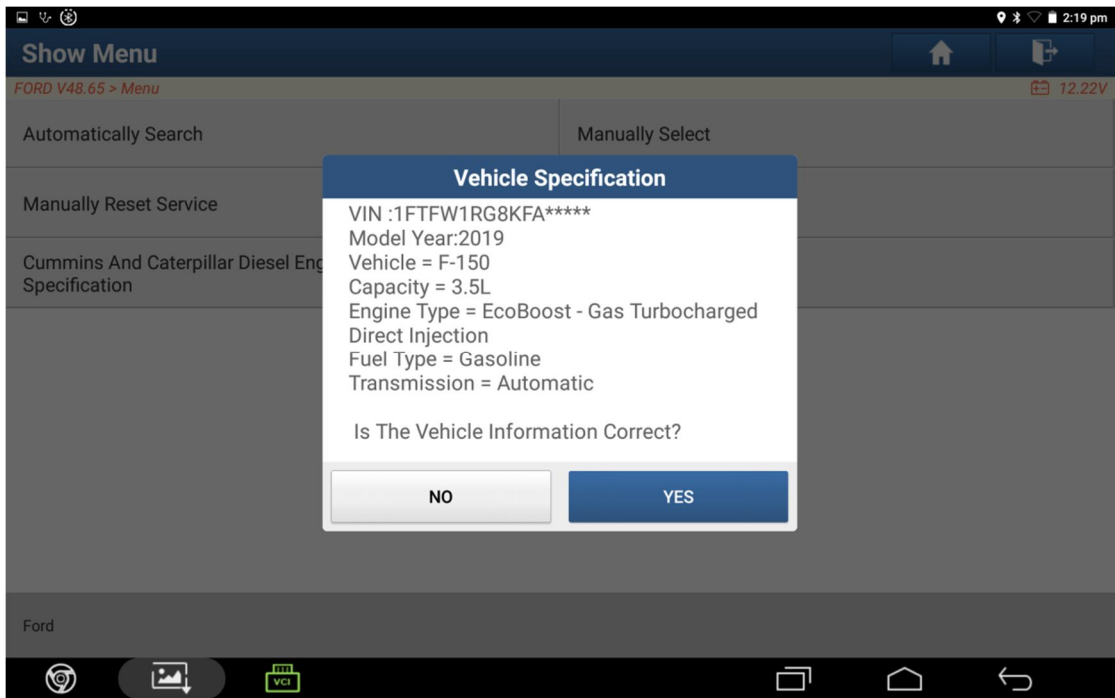


Figure 3

LAUNCH

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

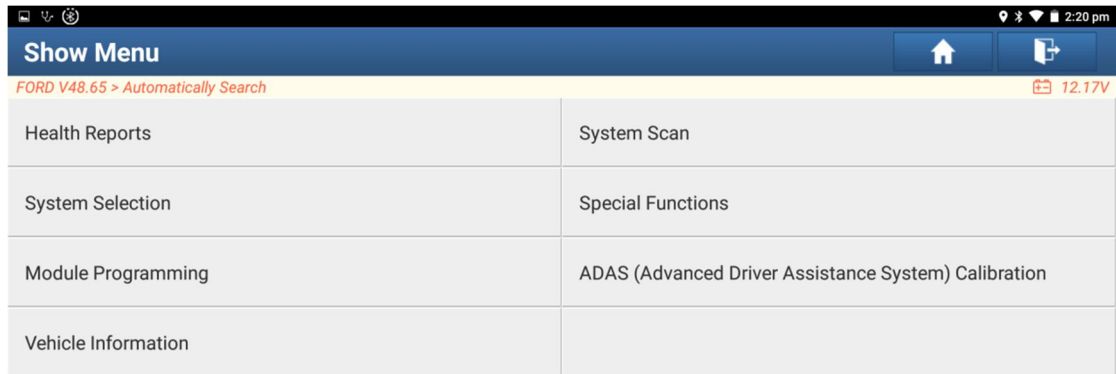


Figure 4

4. Select [Electrical] (Figure 5).

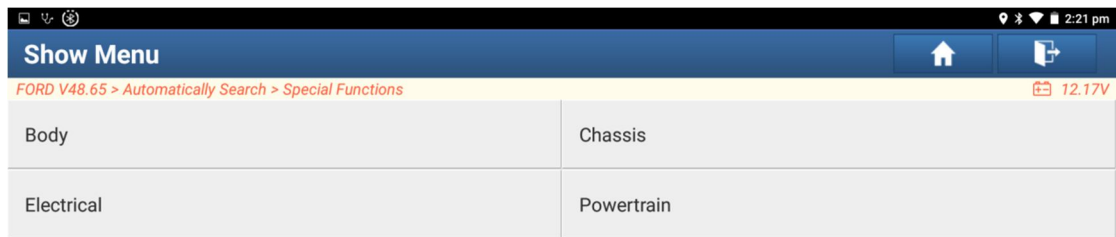


Figure 5

LAUNCH

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

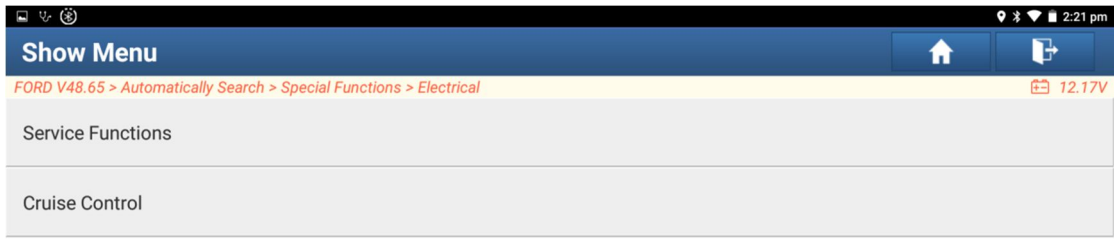


Figure 6

6. Select [TAD Calibration] (Figure 7).

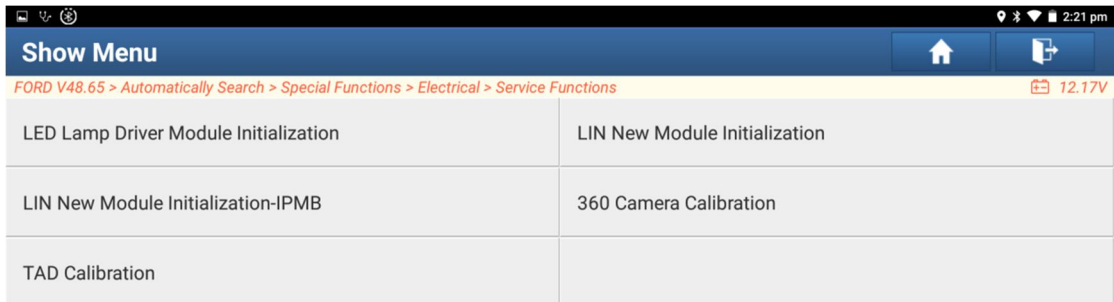


Figure 7

LAUNCH

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

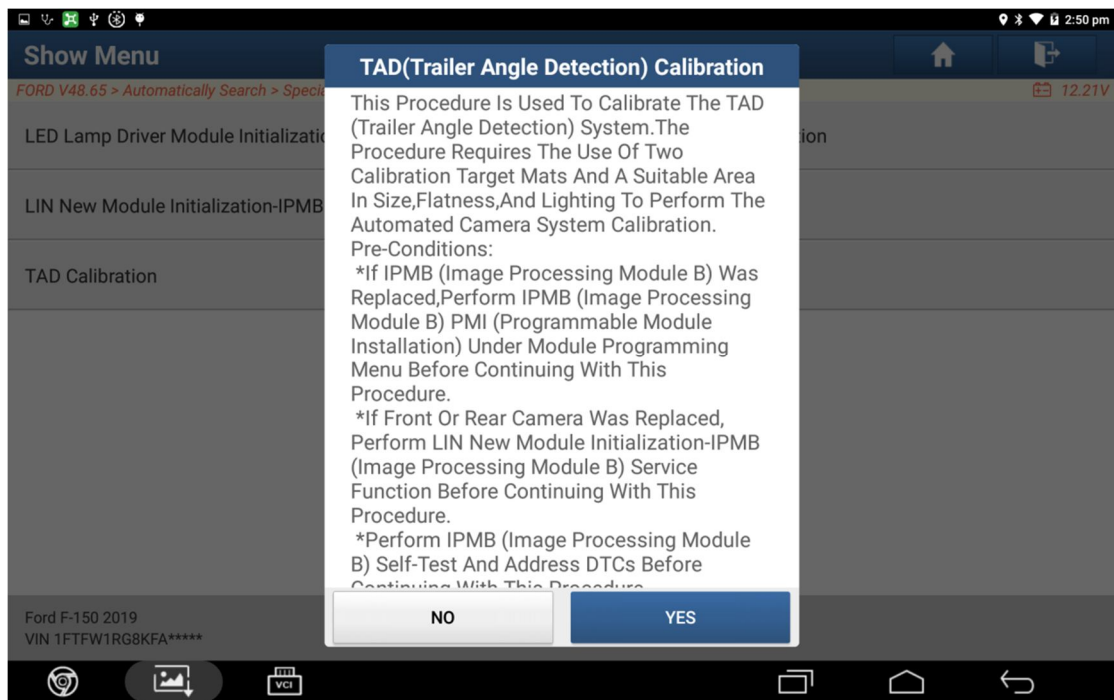


Figure 8

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

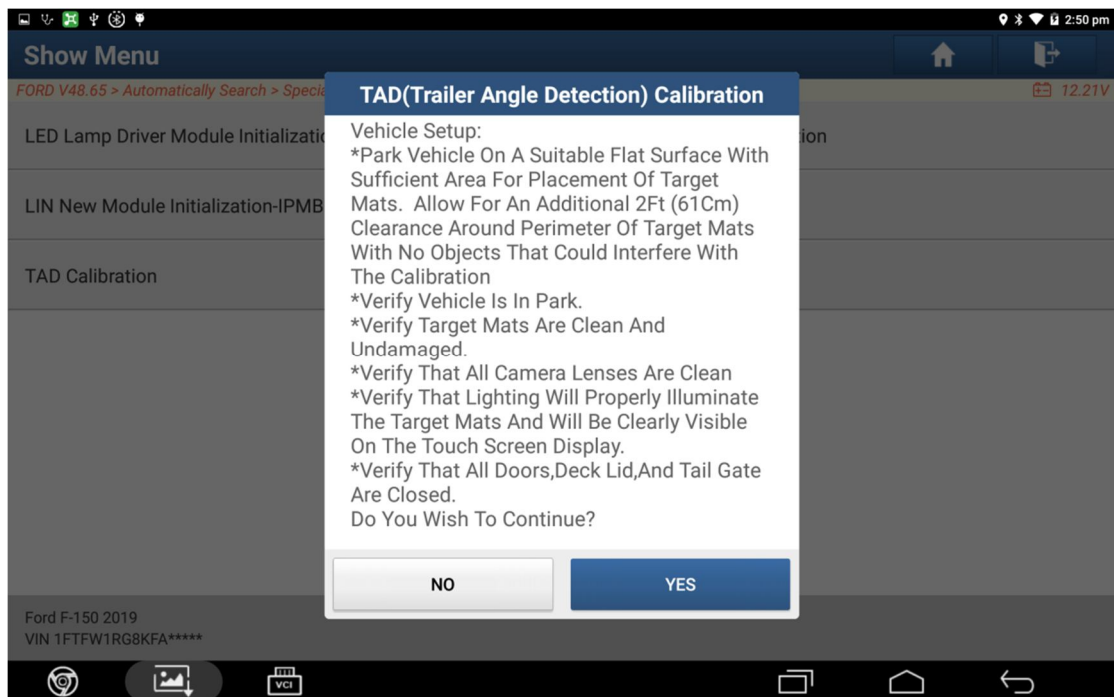


Figure 9

LAUNCH

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

TAD(Trailer Angle Detection) Calibration

FORD V48.65 > Automatically Search > Special Functions > Electrical > Service Functions > TAD Calibration 12.21V

Calibration Setup:

Use The **LAC04-07** Target.

Mark 1: Lay Out Two Target Mats Alongside The Vehicle Oriented In The Proper Direction And Parallel To The Vehicle. Set The Distance Between Mats To The Correct Target Distance. The Distance Between The Two Target Pads Near The Vehicle Side.

- F-Series SD -Long Wheel Base (2017 And Later) [2870mm]
- Expedition/Navigator (2018 And Later) [2870mm]
- All Other [2400mm]

Mark 2: Measure The Distance Between The Center Axis Of The Vehicle And The Edges Of The Two Boards (By The Side Of The Car) To Confirm That The Vehicle Is Centered Between The Two boards. This Distance Should Be Equal To Half Of The Set target.

Mark 3: Align Target Mats To The Center Of The Front wheels. Use The Alignment Markers On The mats.

Mark 4: Verify Target Mats Are Parallel To Each Other By Measuring The Distance Between The Mats At The Front And rear. Must Equal The Set Target Distance +/- 0.5 in(13mm).

Ford F-150 2019
VIN 1FTFW1RG8KFA*****

OK

Figure 10

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

TAD(Trailer Angle Detection) Calibration

FORD V48.65 > Automatically Search > Special Functions > Electrical > Service Functions > TAD Calibration 12.38V

Calibration Setup:

Use The **LAC04-07** Target.

Mark 1: Lay Out Two Target Mats Alongside The Vehicle Oriented In The Proper Direction And Parallel To The Correct Target Distance. The Distance Between Mats Near The Vehicle Side.

- F-Series SD -Long Wheel Base (2017 And Later) [2870mm]
- Expedition/Navigator (2018 And Later) [2870mm]
- All Other [2400mm]

Mark 2: Measure The Distance Between The Center Axis Of The Vehicle And The Edges Of The Two Boards (By The Side Of The Car) To Confirm That The Vehicle Is Centered Between The Two boards. This Distance Should Be Equal To Half Of The Set target.

Mark 3: Align Target Mats To The Center Of The Front wheels. Use The Alignment Markers On The mats.

Mark 4: Verify Target Mats Are Parallel To Each Other By Measuring The Distance Between The Mats At The Front And rear. Must Equal The Set Target Distance +/- 0.5 in(13mm).

Ford F-150 2019
VIN 1FTFW1RG8KFA*****

OK

TAD(Trailer Angle Detection) Calibration
0s-120s
Calibration Status
Press OK To Begin Camera Calibration.
OK

Figure 11

LAUNCH

11. Prompt to start calibration (Figure 12).

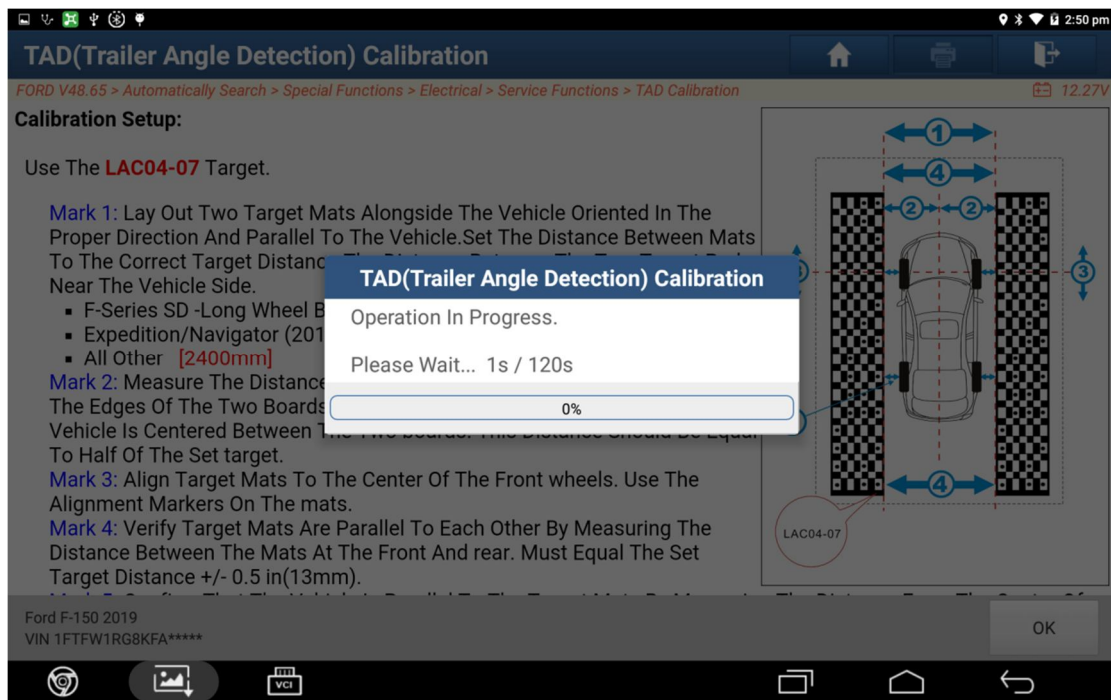


Figure 12

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

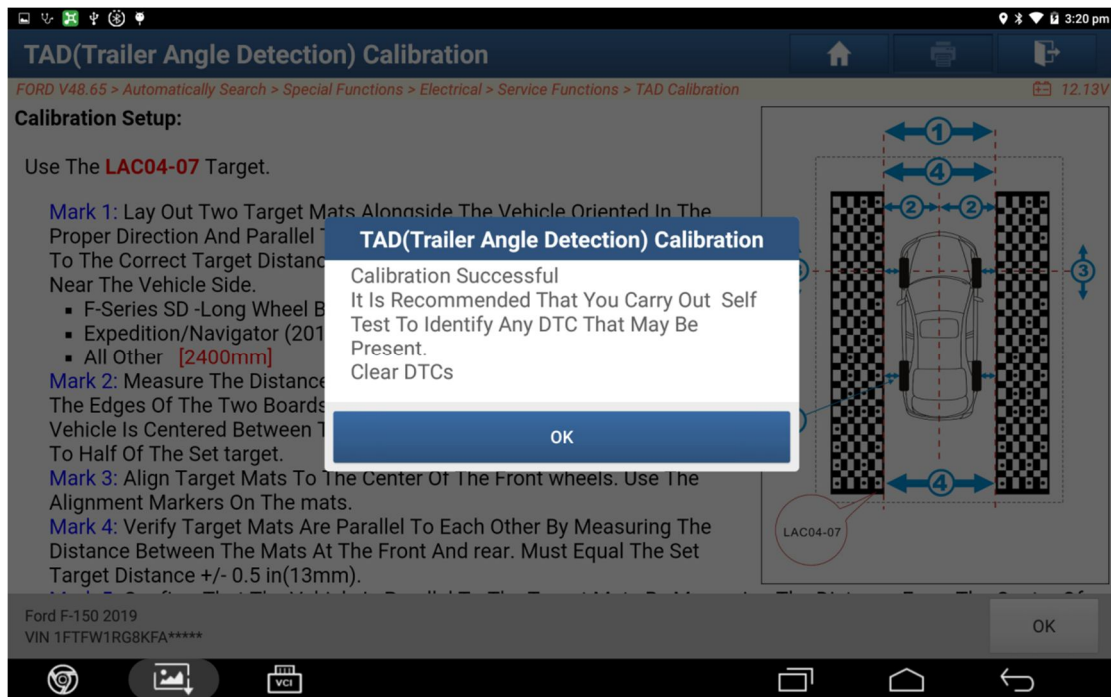


Figure 13

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