# Ford F-150 2019 TAD Calibration

## Supported Model/Model Year:

Ford 2019 F-150

#### 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 PRO3/3S/3S+/5 series products, PAD series products, X-431 ADAS target LAC04-07.

#### Steps:

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

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Vehicle Version Information			<b>f</b>	P			
Software ID	Version #						
FORD	V48.65						
Ford Diagnosis V48.65							
What 's New							
Summary:							
<ul> <li>1) Added functions of Module Initialization, Reset the Knock Se</li> <li>2) Optimized the special function of PATS (Passive Anti-Theft</li> <li>3) Optimized basic functions of FOTA Kuga, Ford New Kuga, Cc</li> <li>4) Optimized functions of ETB (Electronic Throttle Body) Check</li> </ul>	System); ontinental, Fusion, F-150, MKZ, Fiesta, F						
New Functions:							
Added functions of Module Initialization, Reset the Knock Sense	or Learned Values and more;						
Optimized Functions:							
<ul> <li>1) Optimized the special function of PATS (Passive Anti-Theft 1</li> <li>2) Optimized basic functions for Ford Kuga, Ford New Kuga, Co</li> <li>3) Optimized functions of ETB (Electronic Throttle Body) Check</li> </ul>	ontinental, Fusion, F-150, MKZ, Fiesta, F						
Fixed Bugs:							
None							
		Vehicle Coverage	Search Bluetooth	ОК			
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Show Menu	🔒 🔒
FORD V48.65 > Menu	🖽 12.52V
Automatically Search	Manually Select
Manually Reset Service	Manually Reset Keyfob
Cummins And Caterpillar Diesel Engine Systems Test Specification	

Ford						
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# Figure 2

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

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Show Menu				A	P
FORD V48.65 > Menu					🖽 12.22V
Automatically Search		Manually Select			
	Vehicle Sp	ecification			
Manually Reset Service	VIN :1FTFW1RG8KFA**	****			
Cummins And Caterpillar Diesel Eng Specification	Cummins And Caterpillar Diesel Eng Vehicle = F-150				
	NO	YES			
Ford					
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Figure 3

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

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Show Menu	
FORD V48.65 > Automatically Search	🖽 12.17V
Health Reports	System Scan
System Selection	Special Functions
Module Programming	ADAS (Advanced Driver Assistance System) Calibration
Vehicle Information	

Ford F-150 20 VIN 1FTFW1						
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Figure 4

# 4. Select [Electrical] (Figure 5).

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Show Menu		<b>^</b>	<b>P</b>
FORD V48.65 > Automatically Search > Special Functions			🔁 12.17V
Body	Chassis		
Electrical	Powertrain		



Figure 5

# LAUNCH

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

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Show Menu	<b>↑</b> 🕞
FORD V48.65 > Automatically Search > Special Functions > Electrical	12.17
Service Functions	
Cruise Control	

Ford F-150 2 VIN 1FTFW1	019 RG8KFA****						
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# Figure 6

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

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Show Menu	
FORD V48.65 > Automatically Search > Special Functions > Electrical > Service F	unctions 🖽 12.17
LED Lamp Driver Module Initialization	LIN New Module Initialization
LIN New Module Initialization-IPMB	360 Camera Calibration
TAD Calibration	

Ford F-150 201 VIN 1FTFW1R					
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# Figure 7

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

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Show Menu	TAD(Trailer Angle Detection) Calibration	
FORD V48.65 > Automatically Search > Speci.	This Procedure Is Used To Calibrate The TAD (Trailer Angle Detection) System.The Procedure Requires The Use Of Two Calibration Target Mats And A Suitable Area	ion
LIN New Module Initialization-IPMB	In Size,Flatness,And Lighting To Perform The Automated Camera System Calibration. Pre-Conditions:	
TAD Calibration	*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	
Ford F-150 2019 VIN 1FTFW1RG8KFA*****	NO YES	
<b>(</b>		

Figure 8

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

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Show Menu			<b>A</b>	P
FORD V48.65 > Automatically Search > Specia	TAD(Trailer Angle Detection) Calibration			🖭 12.21V
LED Lamp Driver Module Initialization	Vehicle Setup: *Park Vehicle On A Suitable Flat Surface With Sufficient Area For Placement Of Target	ion		
LIN New Module Initialization-IPMB	Mats. Allow For An Additional 2Ft (61Cm) Clearance Around Perimeter Of Target Mats			
TAD Calibration	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?			
Ford F-150 2019	NO YES			
VIN 1FTFW1RG8KFA****				
				$\bigcirc$

Figure 9

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

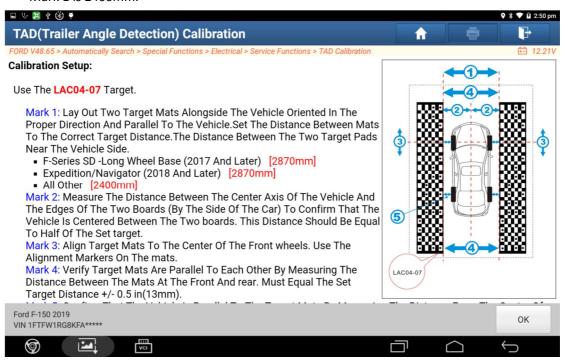


Figure 10

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

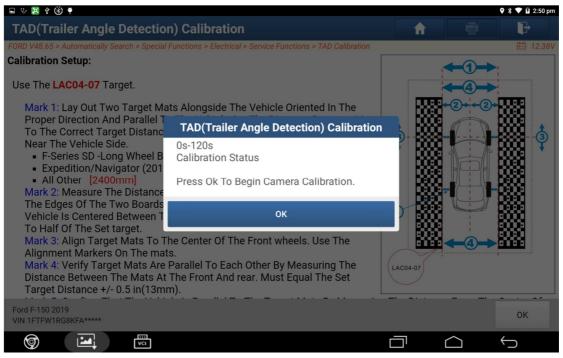


Figure 11

## 11. Prompt to start calibration (Figure 12).

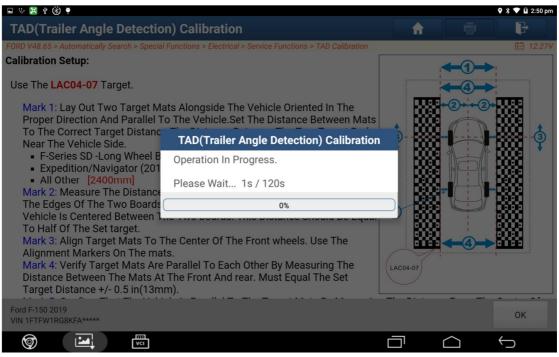


Figure 12

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

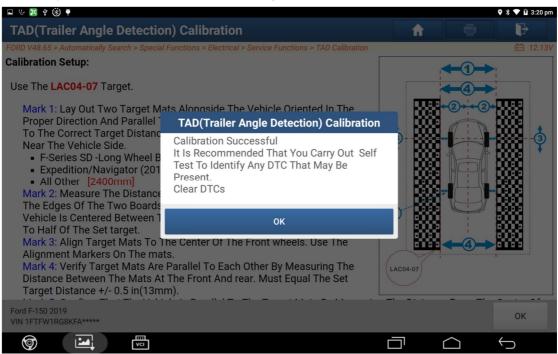


Figure 13

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