Ford Immobilizer Programming Manual

(Created Date: 20220420)

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Appendix

Introduction to Immobilizer Programming

It can be used to perform immobilizer functions without passwords, such as adding keys, losing all keys, resetting/initializing parameters after replacing immobilizer modules such as the engine and body module, and online programming of the engine. The immobilizer module of Ford is related to the model, and the immobilizer modules of different models are different, mainly including ABS, BCM (body), IC (instrument cluster), PCM (engine), and RFA (remote control function actuator) module. Module programming: programmable module installation (support the acquisition of code data from the original car module, by manual input, or in online mode), module reprogramming, programmable parameters

During the use of the X-431 device, in most cases, immobilizer matching, programming, and other diagnostic functions can be performed without passwords simply by automatically identifying the model.

Immobilizer Operating Instructions

Immobilizer system functions (expert edition (recommended to use first)) Support adding, clearing, and rental mode key management of mechanical and smart keys. If the module that stores key information such as the body is replaced, and the key is lost or damaged, this function needs to be performed.

After replacing the immobilizer module, reset/initialized the immobilizer parameters.

When the immobilizer related module is replaced, the immobilizer indicator of the vehicle instrument flashes and the vehicle cannot be started, or when the immobilizer DTCs such as P161B "incorrect response of the secondary immobilizer system holder module", B10DA "PATS target identifier", P1260 "theft is detected, the vehicle is prohibited from starting", and U2047 "data obtained from VSM is invalid" appear in different immobilizer modules, it is necessary to reset the immobilizer module parameters.

		····)
Make	Model	Year
Lincoln	Aviator	2019-
	Corsair	2019-
	All New Focus	2018-
	New Focus	2011-2019
	Focus Classic	2004-2016
	Escort	2014-
	Fiesta	2008-
	Taurus	2015-
	C-MAX, S-MAX	2006-
Ford	New Mondeo	2012-2020
rolu	All New Mondeo	2020-
	Mondeo	2003-2008
	Mondeo(zhisheng)	2007-2016
	Escape	2019-
	Edge	2014-2020
	Explorer	2019-
	EcoSport	2011-2019
	Kuga/Escape	2013-2020
Jiongling Ford	Everest	2014-2019
Jiangling Ford	Transit	2006-2020

Model Coverage (only domestic Ford Lincolns are listed)

Requirements

Launch X-431 PRO immobilizer matching tool. Communication is normal, battery voltage is between 12 and 15 volts, and network connection is normal.

For key programming, it should be noted that generally at most 8 and at least 2 keys are stored. The key model and quality meet requirements, and the vehicle does not have related faults, such as the fault of the induction coil and the antenna module. For immobilizer parameter reset/initialization, at least 2 programmed keys are required.

Failure to meet these conditions may result in failure of key programming or parameter reset.

Procedure

Take FORD 2019 Kuga/Escape as an example: [Parameter Reset] and [Relearn Vehicle Data]

1. Choose [Anti-Theft System Detection] > [Automatically Search]. See Figure 1, Figure 2, and Figure 3.

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Vehicle Version Information		f		ŀ
Software ID	Version #			
FORD	V10.07			

Ford Anti-theft Software V10.07

Software Introduction

Summary:

The software supports functions such as key matching, password reading, and anti-theft module replacement for Ford, Lincoln, and Mercury series.

ECU coverage summary:

Engine control system, body system, instrument panel system, and PEPS (Passive Entry & Passive Start) system, etc.

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Figure 1

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FORD V10.07 > Menu	
Anti-Theft System Detection	
Anti-Theft Key Matching	
Anti-Theft Module Replacement	

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Figure 3										

2. Turn on the ignition switch. See Figure 4.

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	Set Ignitic	on Switch To ON						
	C	ANCEL		ОК				
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			图 4					

3. Confirm whether the VIN is correct. Choose [No] to manually input the correct VIN or choose [Yes] to access the next step. See Figure 5.

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Automatically Search								
Vehicle Select		Operator	Operation					
	Vehicle Indentification Number (VIN) Info: VIN Code: WF0AXXWPMAK Please Confirm This Is The Correct VIN Code.							
	NO			YES				
Ford Kuga/Escape 2019 VIN WF0AXXWPMAK								
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			图 5					

4. Choose [Immobilizer System Function (Expert Edition)]. See Figure 6.

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Immobilizer Scanning	Immobilizer System Selection
Immobilizer Key Programming (Express Edition)	Immobilizer System Function (Expert Edition)
Module Programming	Vehicle Information



Figure 6

5. Choose [PATS (Passive Anti-Theft System) Functions]. See Figure 7.



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Figure 7

6. Prompt to turn on the ignition. If the vehicle is equipped with a pushbutton start, continue the test even if the ignition is turned off. See Figure 8.

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PATS (Passive Anti-Theft	System) Fur	nctions							
	PAT	S (Passive A	Anti-Theft Sys	stem)Functior	ıs				
Factory Keyless Entry Co	Note:								
Relearn Vehicle Data	To Perform The Program Additional Ignition Key Function, You Have To Gain Security Access Using The Additional Ignition Key. If The Vehicle Is Equipped With A Pushbutton Start, Continue With Testing Even If The Ignition Is Turned Off.								
Ford Kuga/Escape 2019 VIN WF0AXXWPMAK									
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Figure 8

7. Confirm whether the VIN is correct. Choose [No] to exit the function or choose [Yes] to access the next step. See Figure 9.

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PATS (Passive Anti-Theft S	System) Functions					
Factory Keyless Entry Coc	PATS (Passive An	ti-Theft Systen	n)Functions			
Relearn Vehicle Data	Vehicle Indentification N VIN Code: WF0AXXWPM Please Confirm This Is T	lumber (VIN) Info IAK The Correct VIN (o: Code.			
	NO		YES			
Ford Kuga/Escape 2019 VIN WF0AXXWPMAK						
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		Figure 9				

8. Choose [Parameter Reset (BCM/RFA/PCM/ABS) Ignition On]. See Figure 10.

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Parameter Reset(BCM (Battery Control Module)/RFA (Remote Function Actuator)) Ignition Off	Parameter Reset(BCM (Battery Control Module)/RFA (Remote Function Actuator)/PCM (Powertrain Control Module)/ABS (Anti-Lock Braking System)) Ignition On
Parameter Reset(BCM (Battery Control Module)/ESCL (Electronic Steering Column Lock))	Advanced Key Code Erase And Program
Program Additional Key	Exit(From This Menu)

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Figure 10

9. Prompt to turn on the ignition switch. See Figure 11.

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n > Automatically S	earch > Immo	obilizer System	Function (Expe	ert Edition))
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Figure 11

10. Prompt that parameter reset is about to be performed. See Figure 12.

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Parameter Reset(BCM (Ba (Remote Function Actuato	ttery Control Module)/RFA r)) Ignition Off	Parameter Reset(BCM (Battery Control Module)/RFA (Remote Function Actuator)/PCM (Powertrain Control Module)/ABS (Anti-Lock Braking System)) Ignition On				
Parameter Reset(BCM (Ba (Electronic Steering Colum	Parame	nd Progr	am			
Program Additional Key	Note: You Are About To Perform Do You Wish To Continue?	Note: You Are About To Perform Parameter Reset. Do You Wish To Continue?				
	NO	YES				
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Figure 12

11. Prompt to wait for 6 seconds. See Figure 13.

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Figure 13

12. Prompt to turn off the ignition switch. See Figure 14.

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Figure 14

13. Count down from 600s. See Figure 15.

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Figure 15

14. Prompt to turn on the ignition switch. See Figure 16.

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Figure 16

15. Count down from 10s. See Figure 17.

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Figure 17

16. Execution is successful. See Figure 18.

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(Electronic Steering Colu	Open The Di	rver Door. Clos	e And Lock Al	The Doors Th	nen	iu rogi	ann	
Program Additional Key	Walt Until 11 The Engine 3 Wait For 10 Press OK To	Wait Until The Vehicle Console Completely Shuts Off. If The Engine Still Cannot Start, Disconnect The Battery And Wait For 10 Minutes Before Reconnect. Test Complete Press OK To Exit						
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Figure 18

17. After [Parameter Reset (BCM/RFA/PCM/ABS) Ignition On] is successfully performed, return to the previous menu and perform the [Relearn Vehicle Data] function. See Figure 19.

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FORD V10.07 > Anti-Theft System Detection > Automatically Search > Immobilizer System Function (Expert Edition)
PATS (Passive Anti-Theft System) Functions	
Factory Keyless Entry Code	
Relearn Vehicle Data	

Ford Kuga/Escape 2019 VIN WF0AXXWPMAK						
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Figure 19

18. Prompt the function execution conditions and precautions. See Figure 20.

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Show Menu	Relearn V	ehicle Data		ft 🕹		₽	
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	*Perform PMI(Programmable BCM (Battery Control Module Configuration Data (VIN, Tire	Module Installation) On And Correct The Vehicle Size, Axle Ratio, Etc.) If	The e				
Ford Kuga/Escape 2019 VIN WF0AXXWPMAK	NO	YES					
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Figure 20

19. Prompt to turn on the ignition switch. See Figure 21.

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PATS (Passive Anti-Theft S	System) Funct	ions						
Factory Keyless Entry Coc		Oper	ator Action					
	Set The Igni	tion Switch T	o On.		- 1			
Relearn venicle Data					- 1			
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Figure 21

20. Execution is successful. See Figure 22.

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		Relear	n Vehicle Data					
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Figure 22

21. Prompt to turn off the ignition switch. See Figure 23.

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PATS (Passive Anti-Theft S	ystem) Functions			
Factory Keyless Entry Coc	Relearn Vehicle Data			
Poloarn Vohiolo Data	Set Ignition Switch To OFF(Position 0)			
Releant vehicle Data				
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Figure 23

22. Click OK. Function execution is successful.

Take FORD 2018 Mondeo as an example: [adding ignition keys]

1. Choose [Anti-Theft System Detection] > [Automatically Search]. See Figure A1, Figure A2, and Figure A3.

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Vehicle Version Information		f		₽
Software ID	Version #			
FORD	V10.07			

Software Introduction

Summary:

The software supports functions such as key matching, password reading, and anti-theft module replacement for Ford, Lincoln, and Mercury series.

ECU coverage summary:

Engine control system, body system, instrument panel system, and PEPS (Passive Entry & Passive Start) system, etc.

		Vehicle (Coverage	Search Bluetooth	ОК
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Figure A1

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Figure A3

2. Turn on the ignition switch. See Figure A4.

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	Set Ignition Switch	To ON(Position II)				
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Figure A4

3. Confirm whether the VIN is correct. Choose [No] to manually input the correct VIN or choose [Yes] to access the next step. See Figure A5.

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	Vehicle Indentification Number (VIN) Info: VIN Code: WF0EXXWPCEJ Please Confirm This Is The Correct VIN Code.							
		10		YES				
Ford Mondeo 2018 VIN WF0EXXWPCEJ								
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Figure A5

4. Choose [Immobilizer System Function (Expert Edition)]. See Figure A6.

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Immobilizer Scanning	Immobilizer System Selection				
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Module Programming	Vehicle Information				

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Figure A6

5. Choose [PATS (Passive Anti-Theft System) Functions]. See Figure A7.

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Remote Start	RF KeyPad Learn Process

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6. Prompt to turn on the ignition switch. See Figure A8.

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Figure A8

7. Prompt to wait for 20s. See Figure A9.

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Figure A9

Choose [Program Addition Key]. See Figure A10. 8.

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FORD V10.07 > Anti-Theft System Detection > Automatically Se	archImmobilizer System Function (Expert Edition)
Program Additional Key	Erase And Program Keys
Parameter Reset	Customer Spare Key Programming Enable
Customer Spare Key Programming Disable	Unlimited Key Mode On
Unlimited Key Mode Off	Program Unlimited Key Code
BCM To ESCL Training	Exit
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Figure A10

Obtain the security access permission. See Figure A11. 9.

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Figure A11

10. Prompt the precautions for adding keys and the corresponding operations. See Figure A12.

14:41 🖪 🛛 🗖 🗖 🔹				�3G⊿ 🗅	17%
Show Menu		A	Ē	P	
FORD V10.07 > Anti-Theft Sys	tem Detection > Automatically SearchImmobilizer System Function	on (Expert	Edition)		
Program Additional Key					
	Program Additional Key				
Parameter Reset	Mechanical Key Programming: 1. Place An Unprogrammed PATS (Passive Anti-Theft System) Key Into The Ignition	nming I	Enable		
Customer Spare Key Pro	2. Turn The Key To The ON Position. Program Smart Key: 1. To Program The Intelligent Access Key, Put The Key Into				
Unlimited Key Mode Off	The Programming Slot.				
ommitted key wode on					
	UK				
BCM To ESCL Training	Exit				
Ford Mondeo 2018 VIN WF0EXXWPCEJ					

Figure A12

11. Prompt to wait for 15s. See Figure A13.

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Show Menu			A ē	P		
FORD V10.07 > Anti-Theft System	m Detection > Automatically Se	archImmobilizer System Fu	nction (Expert Edition)			
Program Additional Key		Erase And Program Keys				
Parameter Reset	No	Notes				
Customer Spare Key Pro	Operation In Progress.					
Unlimited Key Mode Off	END SE					
BCM To ESCL Training		Exit				
Ford Mondeo 2018 VIN WF0EXXWPCEJ						
1			5			

Figure A13

12. Adding the key is successful. Prompt whether to continue to add another key. Choose [No] to exit or choose [Yes] to go to step 10. See Figure A14.

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Show Menu			A	ē P
FORD V10.07 > Anti-Theft Syst	em Detection > Automatically Se	earchImmobilizer System Func	tion (Expert Editi	ion)
Program Additional Key		Erase And Program Keys		
Parameter Reset	Program Ad	lditional Key	mming Enat	ole
Customer Spare Key Prog	This Operation Has Been Su Do You Wish To Program An	ccessful. other Key?		
Unlimited Key Mode Off	NO	YES	e	
BCM To ESCL Training		Exit		
Ford Mondeo 2018 VIN WF0EXXWPCEJ				
			\mathbf{O}	

Figure A14

13. Function execution is successful.

Immobilizer key programming (express edition)

The functions of adding and losing all mechanical keys and smart keys can be performed.

Manually select to access detection

Select and display the corresponding function menu according to the vehicle brand, model, displacement, engine type, model year and other information. There is no module reprogramming (online) function menu in this menu.

Programming Operation Instructions

Make	Model	Year
	New Focus	2011-2019
	Focus Classic	2004-2016
	Escort	2014-2020
Ford	Fiesta	2008-2015
Ford	Taurus	2015-2020
	C-MAX, S-MAX	2006-2014
	New Mondeo	2012-2020
	Mondeo	2003-2008

Model Coverage

	Mondeo(zhisheng)	2007-2016
	Edge	2014-2020
	EcoSport	2011-2019
	Kuga/Escape	2013-2020
Lionalina Ford	Everest	2014-2019
Jiangling Ford	Transit	2006-2020

Requirements

Module programming will not resolve known issues unless a new module is installed or it is required for DTCs and repairs.

Use Launch PAD series comprehensive diagnostic equipment, Launch X-431 PRO immobilizer matching tool. Make sure that the device network connection is normal, and the vehicle battery voltage is between 12 and 15 volts. During programming, it is not allowed to disconnect the diagnostic device connector or turn off the ignition key unless prompted by the software.

The replacement of immobilizer modules is recommended in the following order: programmable installation (module reprogramming), PATS (key programming, parameter reset), related special functions. It is operated in combination with the actual DTCs. When there is no DTC that needs to be programmed (such as U2100, U2101, U3000, U3002), the programming can be skipped to see if there is an immobilizer DTC to perform the immobilizer function. Finally, it is determined whether the corresponding special function needs to be executed according to the module DTC.

For example, after the ABS is replaced, it is necessary to perform the IVD or longitudinal, lateral or acceleration sensor calibration. After the BCM is replaced, it is necessary to perform the immobilizer key programming, LIN bus, and CEI (Configurable Engine Immobilizer). After the PCM engine is replaced, it is necessary to perform the vehicle data learning function. The special functions that need to be performed by different models are slightly different. Refer to the relevant tips in the software.

Procedure

Programmable Module Installation

When replacing a new module, execute the programmable module installation function to correctly configure the system parameters.

For example, when the PCM engine module has P1639:00 "Vehicle ID module is not programmed", or when there are B2477 "Module configuration failure", U2100, U2101, U2200, U3000, U3002 and other DTCs, the programmable module installation should also be performed. After the programmable installation function is performed, if the above DTCs still exist, the module reprogramming (online) should be performed.

It can be performed in the following 3 methods. Read from old module

The original car module needs to be able to communicate normally. If the original car module is damaged and cannot communicate, you can choose the other two methods. The engines and body modules of some models (new Mondeo, Escort, etc.) only support this method, and do not support manual and online methods.

The new module needs to be installed after the software prompts. If the new module is installed first, it is recommended to install the original car module back and then perform this function.

Manual input

Through the manually inputted parameters, you can query the factory parameters of the vehicle based on the VIN on Ford's official website.

Enter the corresponding query parameters according to the pages in the software, and then the programmable module installation can be completed.

Get it online

To obtain the corresponding configuration parameters of the system online, you need to connect to the Internet.

Take 2019 Everest PSCM [Programmable Module Installation] X431 PAD III as an example.

1. Choose Automatically Search. See Figure C1 and Figure C2.

					🕈 🕷 🖉 09:16					
Vehicle Version Information			î		P					
Software ID	Version #									
FORD	V48.90									
Ford Diagnosis V48.90										
Software Introduction										
ECU Coverage:										
This Diagnostic Software Can Test For USA Ford ECUs, Including: Engine, Automatic Cruise, Common Electronics, Seats, Light, etc.	c Transmission, Anti-Lock Bra	ake, Airbag, Air (Conditioning, D	ashboard, Ar	nti-Theft,					
Basic Functions:										
Reading ECUs Reading DTCs(Diagnostic trouble code) Clearing DTCs(Diagnostic trouble code) Reading Vehicle Running Data Vehicle Component Operation Test										
Special Functions:										
Programmable Module Installation ESP(Electronic Stability Program) Sensor Calibration PCM (Powertrain Control Module) Or ICM (Instrument Control Module): *Passive Anti-Theft Function (Program Additional Ignition Key, Ignition Key Code Err black down of MORE Development Molecule (Key Octobergen)	ase And Program, Customer S	Spare Key Progr	amming Enab	le/Disable, Pa	arameter Reset,					
	Vehicle	Coverage	Search Blu	uetooth	ОК					
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Figure C1

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Show Menu			ft	2		P
					QPlease	
Automatically Search		Manually Select				
Manually Poset Service						
Manually Reset Service	System In	formation				
Cummins And Caterpillar Diesel Eng Specification	Set Ignition Switch To	ON(Position II)				
	04105	01/				
	CANCEL	UK				
Ford						
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Figure C2

2. Check the current identified vehicle information. See Figure C3.

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Show Menu		A	2	2		P
FORD V48.90 > Menu						🖽 13.94V
				0		
Automatically Search	Vehicle Specifi	ication				
Manually Reset Service	VIN :LJXDJ3CB0LTU Model Year:2020 Vehicle = Everest					
Cummins And Caterpillar Diesel Eng Specification	Capacity = 2.0L Engine Type = EcoBoost - G Direct Injection Fuel Type = Gasoline Transmission = Automatic	as Turbocharged	ł			
	Is The Vehicle Information	Correct?				
	NO	YES				
Ford 撼路者 2020 VIN LJXDJ3CB0LTU						
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Figure C3

3. Choose Module Programming. See Figure C4.

■ Ÿ (%)					🕈 🕈 🗖 10:20
System and Function			f	2	ē P
FORD V48.90 > Automatically Search					🗄 14.00V
System List Special Functions Comm	on Function	Module Programm	ing ADAS (A	dvanced Drive	r Assistance System) C
ABS (Anti-Lock Braking System)				Not Scanned	Enter
ACM (Audio Control Module)				Not Scanned	Enter
APIM (Accessory Protocol Interface Mod	dule)			Not Scanned	Enter
ATCM (All Terrain Control Module)				Not Scanned	Enter
BCMII (Body Control Module)				Not Scanned	Enter
C-CM (Cruise-Control Module)			⊙ADAS	Not Scanned	Enter
	2				
Ford 撼路者 2020 VIN LJXDJ3CB0LTU			Smart Detectio	on System Sc	an Select Detection
(a)			Ċ		

Figure C4

4. Choose Programmable Module Installation. See Figure C5.

■ V (\$)				🕈 🕈 🛡 🗎 10:20
Show Menu	A	<u>Q</u>		ŀ
FORD V48.90 > Automatically Search > Module Programming				🗄 14.00V
			Q Please e	nter keyword
Programmable Module Installation				
Programmable Parameters				

Ford 撼路者 VIN LJXDJ3	2020 CBOLTU OTTOD						
9		VCI			\bigcirc	Ú	

Figure C5

5. Choose PSCM (Power Steering Control Module). See Figure C6.

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Show Menu	
FORD V48.90 > Automatically Search > Module Programming > Programmable M	Iodule Installation 🗄 14.00V
	Q Please enter keyword
GWM (Gateway Module A)	HCM (Headlamp Control Module)
IPC (Instrument Panel Control Module)	IPM-A (Image Processing Module A)
PAM (Parking Aid Module)	PCM (Powertrain Control Module)
PDM (Passenger Front Door Module)	PSCM (Power Steering Control Module)
RCM (Restraint Control Module)	RTM (Radio Transceiver Module)
SCCM (Steering Column Control Module)	SOD-L (Side Obstacle Detection Control Module - Left)
Ford 撼路者 2020 VIN LJXDJ3CB0LTU	
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Figure C6

6. The module installed on the current car is the old module of the original car, the module is available, and the communication is normal. See Figure C7. Click Yes to go to step 7.

If the original module is damaged, does not exist, or cannot communicate, click No to go to step 9.

■ V 🛞						* 💎 🗎 10:24		
Show Menu			ft	2		P		
FORD V48.90 > Automatically Search > Module	Programming > Programmable M	Iodule Installation				🖽 13.80V		
					Q Please e			
GWM (Gateway Module A)	Programmable M	odule Installatior	۱	/lodule)				
IPC (Instrument Panel Control Modu	* Programmable Modu Program To Set New M Parameters.	le Installation Is A lodule Configuratio	on	Module A)				
PAM (Parking Aid Module)	* Please Select 'Yes' If The Available Original PSCM (Power Steering Control Module) Still Installed In Vehicle			vlodule)				
PDM (Passenger Front Door Module	* Please Select 'No' If T	The Original Module	e Is	ntrol Modul	e)			
RCM (Restraint Control Module)	NO	YES		odule)				
SCCM (Steering Column Control Mod	ule)	SOD-L (Side Obsta	acle De	tection Contr	ol Module - I	Left)		
Ford 想路看 2020 VIN LJXDJ3CB0LTU								
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Figure C7

7. Prompt to ensure that the module on the current car is the old module to be replaced. If not, turn off the ignition switch, replace it with the module of the original car, and click OK to read the PSCM module data of the original car. See Figure C8.

■ ∀ (\$)						* 💎 🗎 10:25		
Show Menu			A	2		P		
FORD V48.90 > Automatically Search > Module	Programming > Programmable N	Nodule Installation				🖽 13.80V		
					Q Please e			
GWM (Gateway Module A)	War	rning	· · · · · · · · · · · · · · · · · · ·	Module)				
IPC (Instrument Panel Control Modu	* Ensure That The Mod In The Car Is The Old C Peplaced	dule Currently Inst One That Needs To	alled o Be	Module A)				
PAM (Parking Aid Module)	Replaced. If It Is Not The Module Of The Original Car, Turn Off The Ignition Switch And Install The			Module)				
PDM (Passenger Front Door Module	Module Of The Original Car. After Installation Is Completed, Click OK To Continue.			ntrol Module)				
RCM (Restraint Control Module)	C	ЭК		odule)				
SCCM (Steering Column Control Module)		SOD-L (Side Obstacle Detection Control Module - Left)						
Ford 撼路者 2020 VIN LJXDJ3CB0LTU								
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Figure C8

8. Prompt to turn on the ignition switch. Click OK to read the original module data (see Figure C9) and go to step 11.

■ ~ ®						孝 10:26		
Show Menu			A	2		F		
FORD V48.90 > Automatically Search > Module	Programming > Programmable M	odule Installation			_	🖽 13.80V		
					Q Please er			
GWM (Gateway Module A)	HCM (Headlamp Control Module)							
IPC (Instrument Panel Control Modu	Operato	rator Action Module A)						
PAM (Parking Aid Module)	Set The Ignition Switch To On. KOEO:(Key On Engine Off)			vlodule)				
PDM (Passenger Front Door Module				ntrol Modu	le)			
	0	ОК						
RCM (Restraint Control Module)		RTM (Radio Tr	ansceiver M	Module)				
SCCM (Steering Column Control Mod	SOD-L (Side Obstacle Detection Control Module - Left)							
Ford 撼路者 2020 VIN LJXDJ3CB0LTU								
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Figure C9

9. The original car has been equipped with a new PSCM module or the original car module is unavailable, and data needs to be entered manually. See Figure C10. Choose Manual to go to step 10.



Figure C10

Enter the VIN (frame number) through the Ford OEM website to query the factory original data (Figure C11), find the corresponding segment of '730-01-01' and manually enter the data in sequence (Figure C11-1, Figure C11-2, Figure C11-3). Click OK to go to step 11.

730-01-01	0100	0000	003A	
730-01-02	0001	0101	003D	
730-01-03	0000	0000	0843	
730-01-04	0000	0000	003C	
730-01-05	0000	0000	3D	
730-02-01	0100	0000	003B	
730-02-02	0000	0000	003B	
730-02-03	0000	0000	003C	
730-02-04	0000	0000	003D	
730-02-05	0000	0000	3E	

Figure C11

■ V ())			* 💎 📕 10:50
Manually Input AsBulit Data		A 2	
FORD V48.90 > Automatically Search > Module Programming >	Programmable Module Installatio	n	🗄 13.86V
Labels	Data1	Data2	Data3
001 730-01-01	0000	0000	0000
002 730-01-02	0000	0000	0000
003 730-01-03	0000	0000	0000
004 730-01-04	0000	0000	0000
005 730-01-05	0000	0000	00
006 730-02-01	0000	0000	0000
007 730-02-02	0000	0000	0000
0001720 02 02	0000	0000	0000
Help		ОК	
Ford			
(

Figure C11-1

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Manually Input AsBulit Data			2		F
FORD V48.90 > Automatically Search > Modul	e Programming > Programmable Module Insta	llation			🗄 13.86V
Labels	Data1	Data2		Data3	
001 730-01-01	0000	0000		0000	
002 730-01-02	0000	0000		0000	
	Manually Input AsBul	it Data			
003 730-01-03	730-01-01			0000	
004 730-01-04	The Length Of Input Data Is: 12			0000	
005 730-01-05	0100000003A			00	
006 730-02-01	CANCEL	ок		0000	
007 730-02-02	0000	0000		0000	
0001720 02 02	0000	0000		0000	
Help					
Ford 撼路者 2020 VIN LJXDJ3CB0LTU					
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Figure C11-2

1 V 🖬 🛞			* 💎 📋 15:28
Manually Input AsBulit Data		A	
FORD V48.90 > Automatically Search > Module Programming >	Programmable Module Installat	ion	🖽 13.93V
Labels	Data1	Data2	Data3
001 730-01-01	0100	0000	003A
002 730-01-02	0001	0101	003D
003 730-01-03	0000	0000	0843
004 730-01-04	0000	0000	003C
005 730-01-05	0000	0000	3D
006 730-02-01	0100	0000	003B
007 730-02-02	0000	0000	003B
0001700 00 00	0000	0000	0020
Help		ОК	
Ford 撼路者 2020 VIN LJXDJ3CB0LTU®®®®			
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Figure C11-3

11. Turn the ignition switch to OFF and install a new PSCM module. See Figure C12 and Figure C13.

■ Ÿ ®					* 💎 🗎 11:09	
Manually Input AsBulit Data			2		P	
FORD V48.90 > Automatically Search > Modul		🗄 13.86V				
Labels	Data1	Data2		Data3 Uo45		
004 730-01-04	0000	0000		003C		
005 730-01-05	Operator .	Action		3D		
006 730-02-01	Set Ignition Switch To OF		003B			
007 730-02-02	Set ignition Switch To of		003B			
008 730-02-03	ок	ок				
009 730-02-04	0000	0000		003D		
010 730-02-05	0000	0000		3E		
Help			OK			
Ford 揭路者 2020 VIN LJXDJ3CB0ITU						
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Figure C12

■ v ⑧				* 🕈 🗎 11:09	
Manually Input AsBulit Dat	A	2 7	P		
FORD V48.90 > Automatically Search > Module		🖽 13.86V			
Labels 	Data1	Data2	Data3 Uo4o		
004 730-01-04	0000	0000	003C		
005 730-01-05	dule Mounting	3D			
006 730-02-01	Install A New Module In V	Vehicle(ECU)	003B		
007 730-02-02	install A New Module in s	venicie(E00)	003B	003B	
008 730-02-03	CANCEL	ок	003C		
009 730-02-04	0000	0000	003D		
010 730-02-05	0000	0000	ЗE		
Help		ОК			
Ford 撼路者 2020 VIN LJXDJ3CB0LTU					
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12. Turn the ignition switch to ON and write data. Function execution is successful. See Figure C14 and Figure C15.

■ V: ⑧						* 💎 🗎 10:31
Show Menu			f	2		P
FORD V48.90 > Automatically Search > Module	Programming > Programmable M	odule Installation			_	🖽 13.89V
					Q Please e	
GWM (Gateway Module A)		HCM (Headlamp Control Module)				
IPC (Instrument Panel Control Modu	Operato	r Action		Module A)		
PAM (Parking Aid Module)	Set The Ignition Switch To On. KOEO:(Key On Engine Off)		vlodule)			
PDM (Passenger Front Door Module	ок			ntrol Modul	le)	
RCM (Restraint Control Module)		RTM (Radio Tr	ransceiver N	Aodule)		
SCCM (Steering Column Control Mod	ule)	SOD-L (Side O	bstacle Det	ection Contr	rol Module - I	Left)
Ford						
(Ē			\leftarrow

Figure C14

- v 8	* 🕈 📕 10:3
Show Menu	A 2 ā F
FORD V48.90 > Automatically Search > Module Programming > Program	nmable Module Installation 🗄 13.86
	Q Please enter keyword
GWM (Gateway Module A)	HCM (Headlamp Control Module)
IPC (Instrument Panel Control Modu Programm	nable Module Mounting Module A)
PAM (Parking Aid Module) Procedure Succ	ceeded. Module)
PDM (Passenger Front Door Module	ок ntrol Module)
RCM (Restraint Control Module)	RTM (Radio Transceiver Module)
SCCM (Steering Column Control Module)	SOD-L (Side Obstacle Detection Control Module - Left)
Ford	

Figure C15

13. Prompt to turn off the ignition switch. Click OK to exit the function and return to the main menu. See Figure C16.

■ ♥ (\$)						* 🔽 📕 10:37
System and Function			f	2		₽
FORD V48.90 > Automatically Search > Module				🗄 13.93V		
System List Special Functions	dvanced Drive	er Assista	nce System) Ca			
PAM (Parking Aid Module)				Not Scanned	t l	Enter
PCM (Powertrain Control Module)					t t	Enter
PDM (Passenger Front Door Module)					t l	Enter
PSCM (Power Steering Control Module)					t l	Enter
RCM (Restraint Control Module)					d	Enter
RGTM (Rear Gate/Trunk Module)				Not Scanned	d	Enter
RHVAC (Rear Heating Ventilation Air Conditioning)			Not Scanned	e e	Enter	
Ford 撼路者 2020 VIN LJXDJ3CB0LTU®9988		S	mart Detectior	n System So	can Sele	ect Detection
li in the second			Ē	5 (\leftarrow

Figure C16

14. Return to the page, click Enter to access PSCM (Power Steering Control Module), and choose Clear Fault Memory. See Figure C17.

国 	* 💎 🛄 10:41
Show Menu	
FORD V48.90 > Automatically Search > PSCM (Power Steering Control Module)	🖽 13.93V
	Q Please enter keyword
Module Information	Read Fault Code
Clear Fault Memory	Read Data Stream
Special Functions	

Ford 撼路者 2020 VIN LJXDJ3CB0LTU。							
(VCI				\bigcirc	\leftarrow	
]	Figure C17				

15. After clearing the DTC, return to perform the DTC reading function to check whether the DTC U2100 exists. See Figure C18.

■ 5. (8)					* 🗸 🔤 10:46
Diagnostic Trouble Code		f	<u>_</u>	Ē	₽
FORD V48.90 > Automatically Search > PSCM (Po	wer Steering Control Module)				🗄 14.09V
U2100:55-8B Continuous Memory DTCs	iguration Not es - 55Unconfigured				
	*				
Freeze Frame Data Stream H	elp Code Search				
Ford 撼路者 2020 VIN LJXDJ3CB0LTU				Report	Clear DTCs
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	Figure C18				
	115010 010				

16. If the DTC U2100 exists, return to the main menu to perform PSCM module reprogramming.

Appendix:

- After BCM replacement, diagnostic function operation sequence (mainly divided into three categories):
- New Focus (2011-2018), Fiesta (2013-2015), Escape (2012-2019): PMI programmable module installation >> CCC car setting parameters >> PATS (key configuration, parameter reset)
- Mondeo (2011-2020), Edge (2015-2020), Escort (2015-2020), Taurus (2016-2020): PMI programmable module installation >> reprogramming (online) (currently not supported) >> PATS (key configuration, parameter reset) >> special functions (CEI, LIN initialization, tire pressure learning, remote control setting or BMS reset)
- EcoSport (2012-2017): PMI programmable module installation >> PATS (key configuration, parameter reset)
- Note: After performing the above steps and clearing module DTCs, if there are still U2100, U2101, U3000, U3002 DTCs, try to program again (online).
- When the modules storing key information such as the car body are replaced, or the key is damaged and lost, it is necessary to perform key programming.
- The PATS function supports immobilizer module parameter matching/initialization/reset/synchronization. When the immobilizer related module is replaced, the immobilizer indicator of the vehicle instrument flashes and the vehicle cannot be started, or when the immobilizer DTCs such as P161B "incorrect response of the secondary immobilizer system holder module", B10DA "PATS target identifier", P1260 "theft is detected, the vehicle is prohibited from starting", and U0427 "data obtained from VSM is invalid" appear in the modules, it is necessary to perform the immobilizer module parameter matching.
- At most 8 and at least 2 Ford keys can be stored.
- To successfully perform the immobilizer module parameter matching, at least 2 keys need to be stored.
- The possibility of key programming failure:
- 1. Failure to detect the key (close to the sensing area, remove the case, model mismatch, damage, etc.);
- 2. The key is programmed (stored into the current body module);
- 3. Exceed the maximum number of keys (8);
- 4. There is a fault (the induction coil or the antenna module is faulty, etc.)
- The possibility of key deletion failure: there is a fault
- The possibility of immobilizer matching failure: the number of stored keys is less than 2

Statement:

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