Operation Method for Tire Sensor Calibration of 2014 Fiat Freemont

| Product model | Date | Number |
|---------------|----------|--------|
| X-431 series | 20161110 | |

Applicable vehicle model:

• Fiat Freemont model

Function Description:

This application shall run this function when replacing a new tire pressure monitoring module ECU or installing a new tire sensor.

Precautions:

To run this function correctly, ensure the following conditions:

- The vehicle is equipped with tire pressure monitoring module and the module is in normal communication. The ignition key is in the ON position. All wires and connectors are properly tightened. The communication fault may occur in poor condition or low battery of the car.
- The gear selector must be in P position.
- The sensor ID on the label on the back of the sensor must be entered exactly.
- Operation Instructions
- Access the vehicle software via the X-431 Pro series diagnostic device, select the correct model, and then enter the special function of the tire pressure monitoring system. Click to enter the Program tire pressure sensor function. After enter the sensor ID on the label on the back of the sensor must be entered exactly, the tire pressure sensor calibration has been completed. There are four special functions in the Program tire pressure sensor function: Program left front tire sensor ID, Program left rear tire sensor ID, Program right front tire sensor ID, and Program right rear tire sensor ID. The following is to describe how to carry out this function via the Program left front tire sensor ID function combined with the (Menu path) figure.

Operation description:

1).Select Fiat V34.51 or above;

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| ≡ | Select Version | Login |
| Vehicle | Version | |
| FIAT | V34.60 | |



2).Select Manual Select;

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| ≡ | Show Menu | Login |
| FIAT V34.60 > FIAT | | |
| Automatically Search | | |
| Manually Select | | |
| Reset service light manually | | |



3). Select new model (such as Freemont, 500L, Viaggio, etc.);

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| | Show Menu | Login |
| FIAT V34.60 > Manually Select | | |
| NEW MODEL(Such as FREEMONT,500L,VIAGGIO, etc | ·) | |
| 131 TOFAS | | |
| 500 | | |
| BARCHETTA | | |
| BRAVO(198) | | |
| BRAVO-BRAVA | | |
| BRAVO VAN | | |
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| New Session | Print | Help |
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4).Select Freemont model;

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| ≡ | Show Menu | Login |
| FIAT V34.60 > Manually Select > NEW MODEL(Such | as FREEMONT,500L,VIAGGIO, etc) | |
| FREEMONT | | |
| Novo Uno FL | | |
| ΟΤΤΙΜΟ | | |
| PANDA | | |
| PUNTO EVO | | |
| VIAGGIO | | |
| EGEA/TIPO | | |
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5).Select 2014 model;

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| ≡ | Show Menu | Login |
| | / MODEL(Such as FREEMONT,500L,VIAGGIO, etc) > FREEMONT | |
| 2011 | | |
| 2012 | | |
| 2013 | | |
| 2014 | | |
| 2015 | | |
| 2016 | | |
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6).Select System Select;

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| ≡ | Show Menu | Login |
| FIAT V34.60 > Manually Select > NEW MODEL(S | uch as FREEMONT,500L,VIAGGIO, etc) > FREEMONT > 2014 | |
| Quick Test | | |
| System Scan | | |
| System Selection | | |
| | | |



7).Select TPMS (Tire Pressure Monitoring System);

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| \equiv | Show Menu | | | Login |
| FIAT V34.60 > Manually Select > NEW MODEL(S | Such as FREEMONT,500L,VIAGGIO, etc) > FREE | EMONT > 2014 > Syste | m Selection | |
| BCM (Body Control Module) | | | | |
| IC (Instrument cluster) | | | | |
| TPMS (Tire Pressure Monitoring Sy | ps | New Session | | |
| DDM (Driver Door Module) | O Initializing the interface, please wait. | | | |
| EPB (Electrical Parking Brake) | | | | |
| TCM (Transmission Control Module) | | | | |
| SRS (Supplemental Inflatable Restrain | it System, ORC) | | | |
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| New Session | Print | | Help | |
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8). Display the system version info of current vehicle model;

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| \equiv | Show Menu | Logir |
| FIAT V34.60 > Manually Select > NEW MOD | DEL(Such as FREEMONT,500L,VIAGGIO, etc) > FREEMONT > 2014 > System | n Selection |
| BCM (Body Control Module) | Version Information | |
| IC (Instrument cluster) | Diagnostic Variant:40 Diagnostic Version:1 | |
| TPMS (Tire Pressure Monitoring S | VIN Current 3C4PEABB5ET228264 | |
| DDM (Driver Door Module) | Software Part Number:56029542AD Hardware Part Number:56029542AD Hardware Supplier:Schrader | |
| EPB (Electrical Parking Brake) | Software Supplier:Schrader | |
| TCM (Transmission Control Modu | ОК | |
| SRS (Supplemental Inflatable Rest | traint System, ORC) | |
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9). Display the system function menu, and enter into special function;

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| = | Show Menu | Login |
| FIAT V34.60 > Manually Select > NEW MODEL(Such as FREEMON | T,500L,VIAGGIEEMONT > 2014 > System Se | election > TPMS (Tire Pressure Monitoring System) |
| Version Information | | |
| Read Fault Code | | |
| Clear fault memory | | |
| Read Data Stream | | |
| Special Function | | |
| Configuration | | |
| | | |
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| New Session | Print | Help |

10). Display the multifunction and system test menu, and enter into multifunction;

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| ≡ | Show Menu | Login |
|--|--|-------------------------------------|
| FIAT V34.60 > Manually Select > NEW MODEL(Such as FREEMONT,500 | L,VIAGGIEEMONT > 2014 > System Selection > TPM | S (Tire Pressure Monitoring System) |
| Misc Function | | |
| System Test | | |
| | | |
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11).List the special function menu of the tire pressure monitoring system, select 'Program left front tire sensor ID' function (Here takes the Program left front tire sensor ID as an example, the programming method for other tires is the same);

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| | Show Menu | Login |
| FIAT V34.60 > Manually Select > NEW MODEL(Such as FREEMON | NT,500L,VIAGGIEEMONT > 2014 > System Selection > TPMS (| Tire Pressure Monitoring System) |
| Program Left Front Tire Sensor ID | | |
| Program Left Rear Tire Sensor ID | | |
| Program Right Front Tire Sensor ID | | |
| Program Right Rear Tire Sensor ID | | |
| Program Tire Sensor ID with TPM Tool | | |
| | | |



12). Access the Program left front tire sensor ID function, and then indicate the info before test, as shown in Figure 12;

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| ≡ | Program Left Front Tire Sensor ID | Login | | |
| FIAT V34.60 > Manually Select > NEW MODEL(Such as FREEMONT,500L,VIAGGIEEMONT > 2014 > System Selection > TPMS (Tire Pressure Monitoring System) | | | | |
| | | | | |

Prompt information

This function should be run when a new TPM ECU or a new tire sensor is installed. It will program the Right Rear Sensor ID. Before continuing, please make sure you have the 7 character sensor ID readily available.



13). Indicate the precautions before testing the Program left front tire pressure function;





14). Indicate to read and enter the left front tire sensor ID from the label on the back of the sensor;



| | Contin | ue | |
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| New Session | Print | | Help |
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15).Click [Continue] to manually enter the front left tire sensor ID. (Notice: While entering the ID, the legality of the length and the letter case of the ID will be determined, which will be required to enter again if they do not meet the requirements);

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| \equiv | | Program Left Fro | nt Tire Sensor ID | | Login |
| FIAT V34.60 > Manually Select > NEV | W MODEL(Such as Fl | REEMONT,500L,VIAGGI. | .EEMONT > 2014 > System S | election > TPMS (Tire Pressu | re Monitoring System) |
| | Program | Left Front Tire Sensor | ID | | |
| | | Tire Sensor ID | | | |
| Please enter Left Front Tire Se | ensor II | | | | |
| | | Cancel | ОК | | |
| | | | | | |
| | | f | | (i) | |
| New Session | | Pri | nt | Help | |
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16). Enter the left front tire sensor ID;

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|-----------------------------------|---|--------------------------|----------------|---------------------|--------|--------|-------------------|---------------|-----------------|
| Program Left Front Tire Sensor ID | | | | | | | Login | | |
| FIAT V34.60 > Manua | FIAT V34.60 > Manually Select > NEW MODEL (Such as FREEMONT, 500L, VIAGGI EEMONT > 2014 > System Selection > TPMS (Tire Pressure Monitoring System) | | | | | | | | |
| | | Progr | am Left Fron | t Tire Sensor | ID | | | | |
| | | Left Fi | ront Tire Sens | sor ID [*] | | | | | |
| Please enter Left | Front Tire Se | ensor Il _{00Ds} | 59D9A | | | | | | |
| | | | Cancel | | | ОК | | | |
| | | | Cancel | | | UK | | | |
| | | | | r | | | | (i) | |
| N | ew Session | | | Pri | nt | | | Help | |
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17). The program will judge the entered ID is not illegal (The length is 8), and then indicate to enter again;



The Sensor ID must be 7 characters long. Please re-enter Sensor ID.



18). Enter the left front tire sensor ID again;

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|--|-------------------------------|--------------------|------------------------------|----------------------|
| \equiv | Program Left Fro | ont Tire Sensor ID | | Login |
| FIAT V34.60 > Manually Select > NEW MODE | | | lection > TPMS (Tire Pressur | e Monitoring System) |
| | Program Left Front Tire Senso | r ID | | |
| | Left Front Tire Sensor ID* | | | |
| The Sensor ID must be 7 characters | 0D59D9A | | | |
| | Cancel | ОК | | |
| | R | | (j) | |
| New Session | P | rint | Help | |
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19). Enter the left front tire sensor ID, and then click Confirm;



20). Indicate 'Successfully programmed the written left front tire sensor ID';

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|--|---|---|
| \equiv | Program Left Front Tire Sensor ID | Login |
| FIAT V34.60 > Manually Select > NEW MODE | EL(Such as FREEMONT,500L,VIAGGIEEMONT > 2014 > System Selection | on > TPMS (Tire Pressure Monitoring System) |
| | Prompt information | |
| The Sensor ID must be 7 characters | long. Please re-enter Sensor ID. | |
| | Program Left Front Tire Sensor ID | 1 |
| | Left Front Sensor ID 0D59D9A was programmed successfully. | |
| | ОК | |
| | | |
| | | |
| | | |
| New Session | Print | (i) Help |
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21). The Program left front tire sensor function has been completed. The operation methods for Program left rear tire sensor ID, Program right front tire sensor ID, Program right rear tire sensor ID and Program left front tire sensor ID are the same. Respectively enter the corresponding tire sensor ID exactly. There is no more description for it.

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