

# Chrysler IMMO Programming Manual

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## IMMO Programming Introduction

Chrysler IMMO Programming includes IMMO operation and programing operation. IMMO operation mainly reefers to PIN (IMMO password) read, key programing, key numbers and key clearing; Programing operation mainly refers to functions related to replacement of ECU. Chrysler IMMO is related to vehicle model. IMMO function may reside in different systems for different vehicle models, for example in RFH(Radio Frequency Hub)/TPMS (Tire Pressure Monitor System), BCM (Body Control Module), WCM (Wireless Control Module/TPMS(Tire Pressure Monitoring System)).

## IMMO Operation Guide

Supported read of PIN (IMMO password) , add/clearing/number read of mechanical key, rotary key with no tooth and intelligent key.

In general cases, PIN (IMMO password) is required to identification authentication. If PIN (IMMO password) is lost or forgotten, please read PIN (IMMO password) first to acquire it.

If keys are lost or damaged, please perform key matching function before adding all new keys. In some special cases, it is required to clear all added keys, you can perform key clearing function.

**Model Coverage (only a few year models are listed, please refer to testable model list for more information)**

Make	Car model	Model year
Chrysler	200	2015-2017
	300	2005-2018
	Pacifica	2017-
Dodge	Ram 1500	2009-2021
	Journey	2008-2020
	Magnum	2005-2018
	Commander	2006-2010
	Charger	2011-2017
	Challenger	2015-2017
	Grand Caravan	2008-2020
	Durango	2011-2017
Jeep	Cherokee	2014-2021
	Compass (M4 - China)	2017-2020
	Grand Cherokee	2005-2017
	Grand Commander	2019-2020
	Renegade (BQ-China)	2016-2019
	Wrangler	2008-2018

## Condition requirements

Lauch X-431 PRO IMMO matching tool. Normal communication, battery voltage between 12 to 15 V. This function requires access to network.

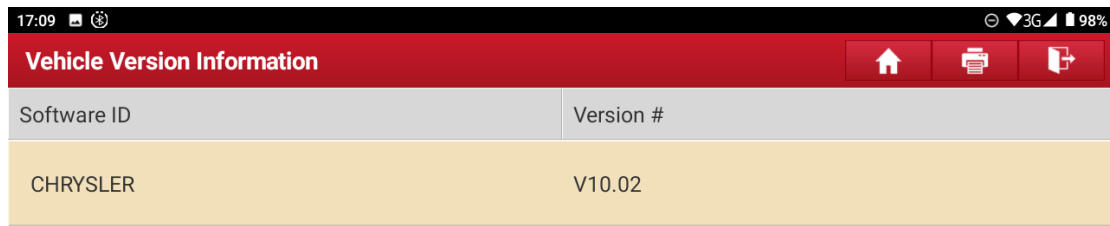
Please be noted the maximum and minimum key stored in system is 8 and 2 respectively for key programing. Please use keys with correct model and good quality. Make sure no relevant DTC present, such as fault in sensing coil and antenna module.

Key programing or parameter reset might fail if the above conditions are not met.

## Operation procedure 1

**Taking Jeep Year 2014 Cherokee as an example [PIN (IMMO password) read]**

1. Select [Immobilizer System Detection] -> [Automatically Search] (figure 1, 2, 3).



Vehicle Version Information		Home	Print	Share
Software ID	Version #			
CHRYSLER	V10.02			

## Chrysler/Jeep/Dodge Anti-theft Diagnostic Software V10.02

### Software Introduction

#### Software Summary:

The software supports the functions such as key matching, anti-theft module replacement, and password reading for Chrysler/Jeep/Dodge series.

#### Summary of covered ECUs:

Wireless Control Module, Radio Frequency Hub, Body Control Module and more systems.

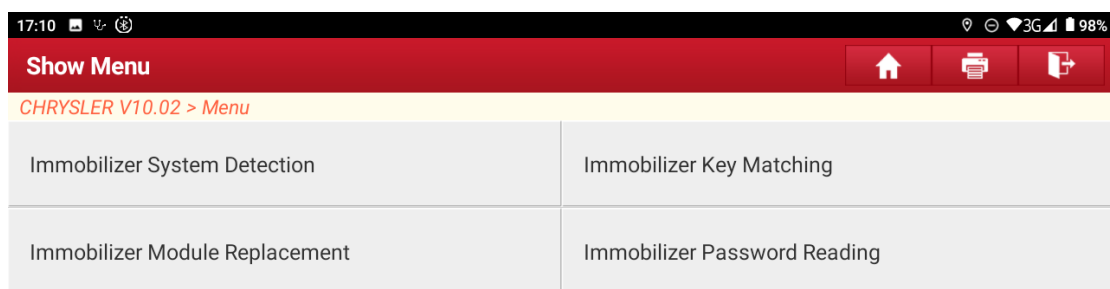
#### Summary of covered functions:

- WCM[Wireless Control Module]



		Vehicle Coverage	Search Bluetooth	OK
Home	Folder	VCI	Camera	Refresh

Figure 1



Show Menu		Home	Print	Share
CHRYSLER V10.02 > Menu				
Immobilizer System Detection	Immobilizer Key Matching			
Immobilizer Module Replacement	Immobilizer Password Reading			



Chrysler	Home	Folder	VCI	Camera	Refresh
----------	------	--------	-----	--------	---------

Figure 2

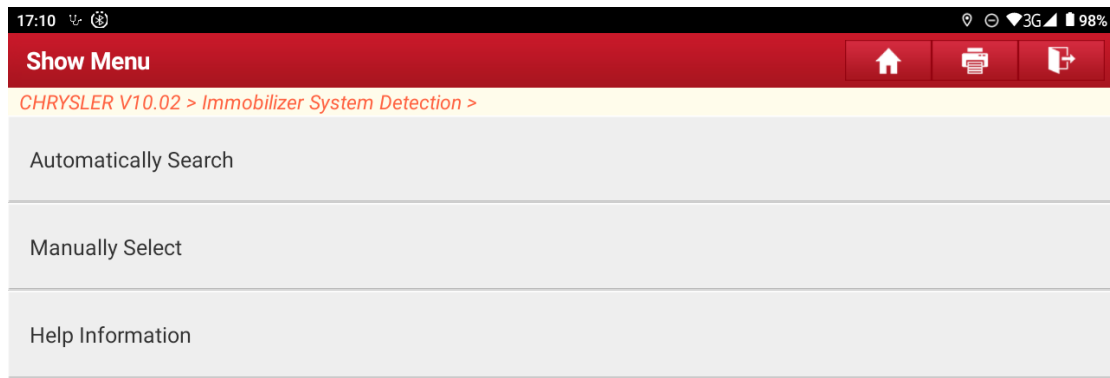


Figure 3

2. Wait until model scanning ended, click [Yes] button (figure 4).

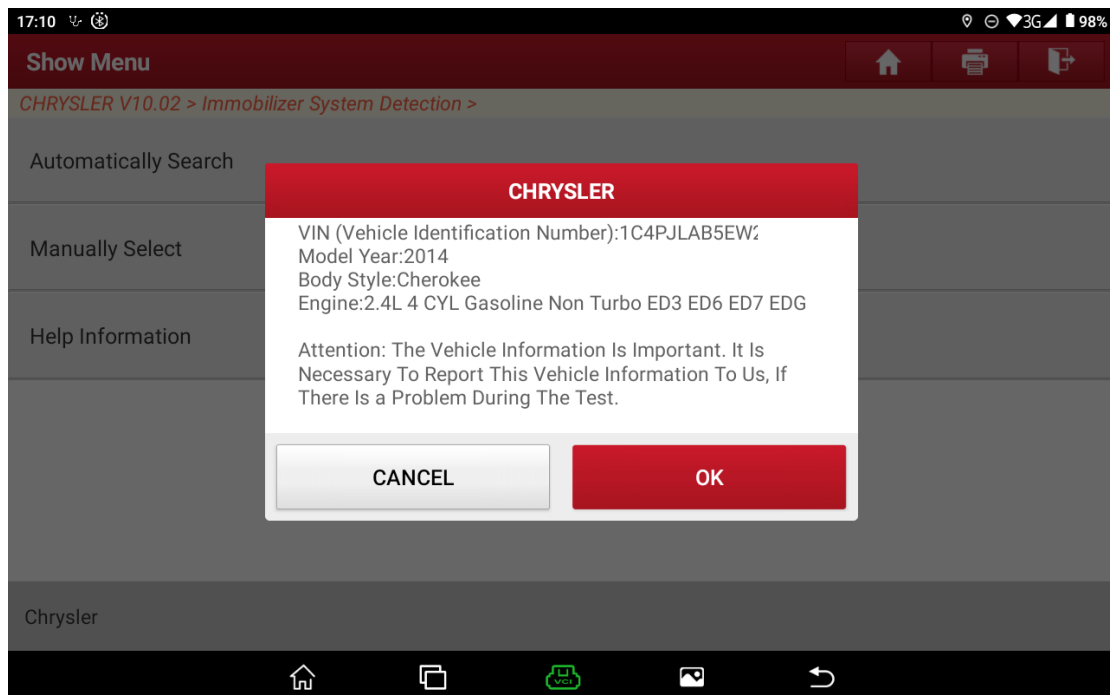


Figure 4

3. Select [Immobilizer System Selection] (see figure 5).

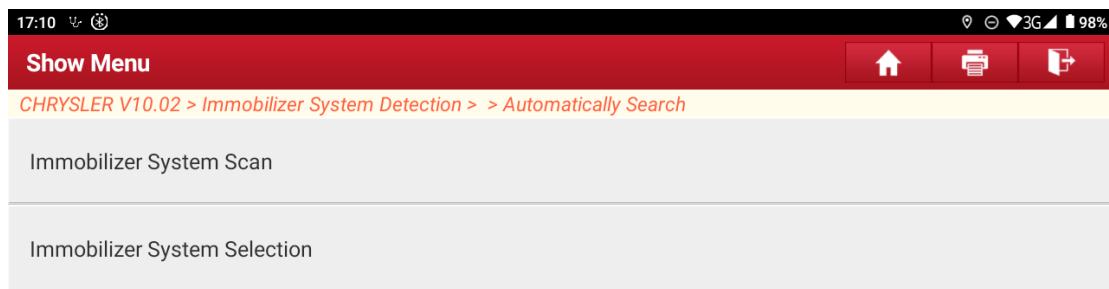


Figure 5

4. Select [RFH/TPMS (Radio Frequency Hub - Tire)] (see figure 6)

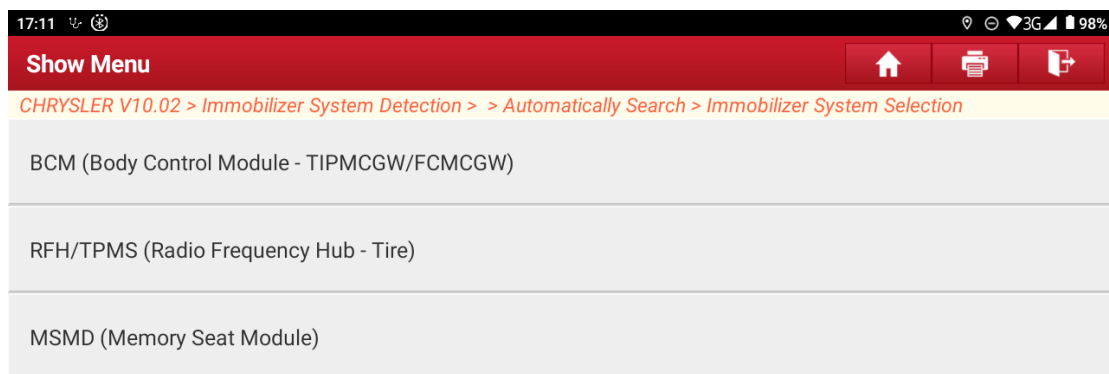


Figure 6

5. When performing IMMP function, please make sure network connection is normal and account is logged in, click [Yes] (figure 7)

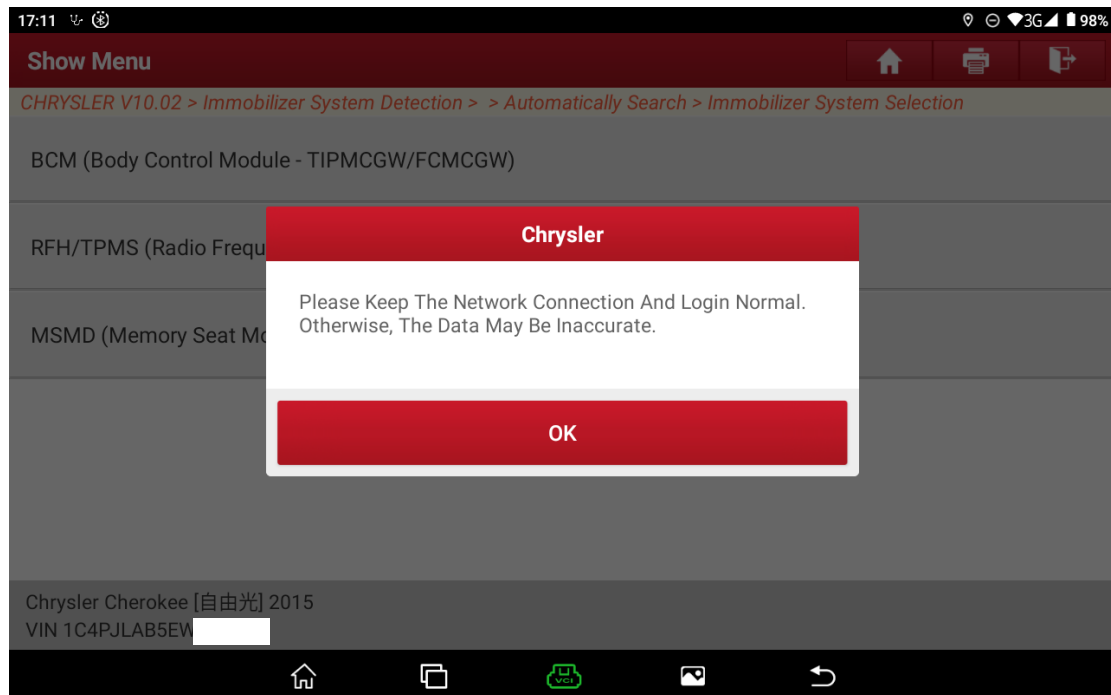


Figure 7

6. Select [Special Function]. (Figure 8)

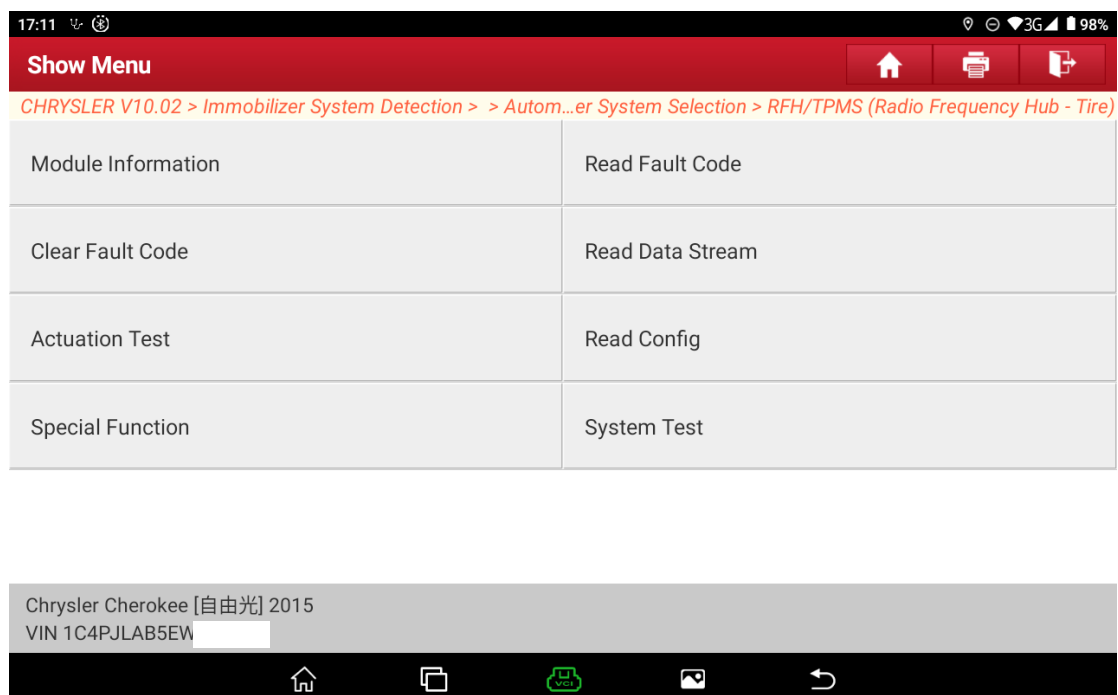


Figure 8

7. Select corresponding function according to key type (here intelligent key is illustrated), select Read immobilizer password (PIN Code) – Intelligent key/FOBIK (figure 9)

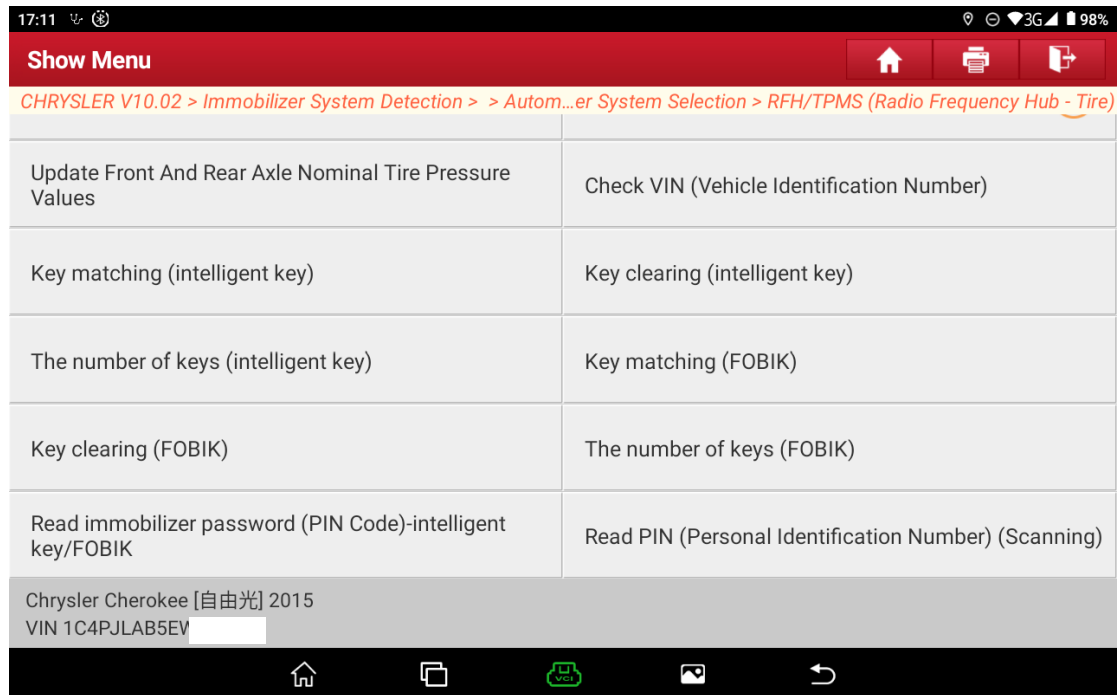


Figure 9

8. Click [OK] (figure 10)

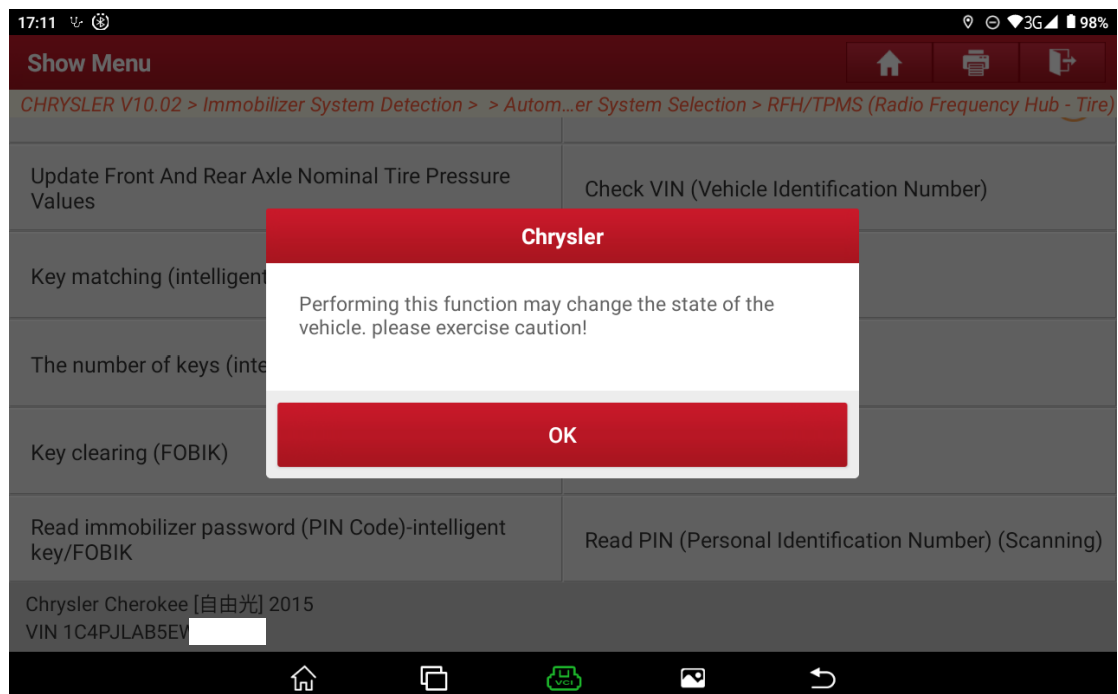


Figure 10

9. Turn ignition switch off, and turn on emergency flasher, then click [OK] (figure 11)

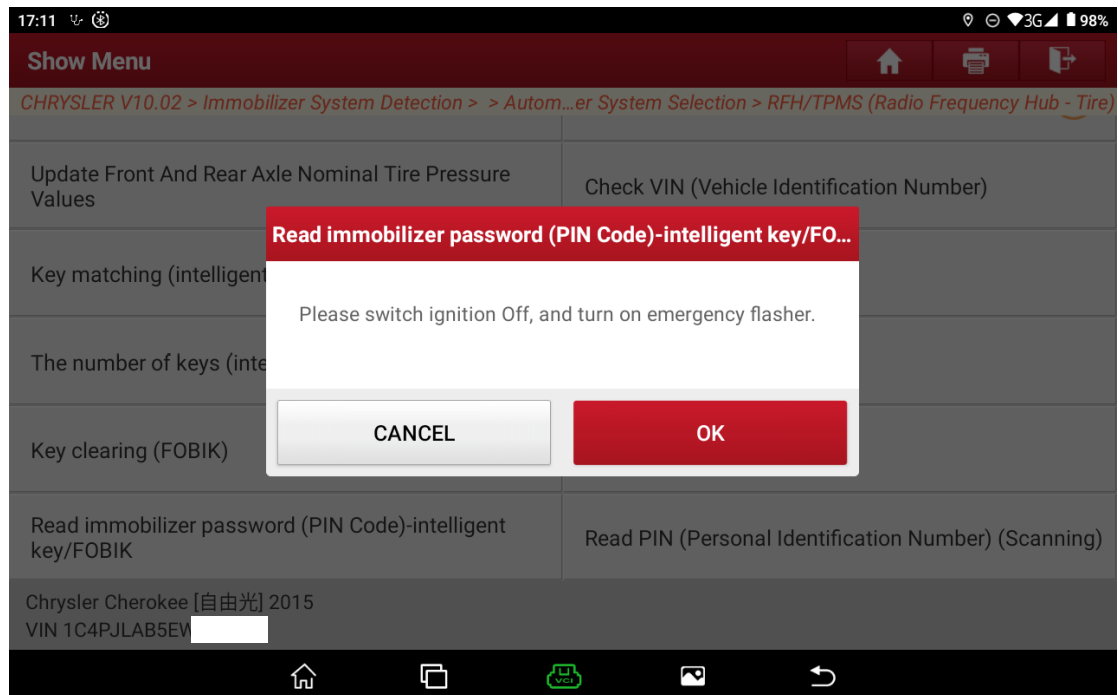


Figure 11

10. Wait patiently for reading PIN, do not perform any other actions when waiting (figure 12)

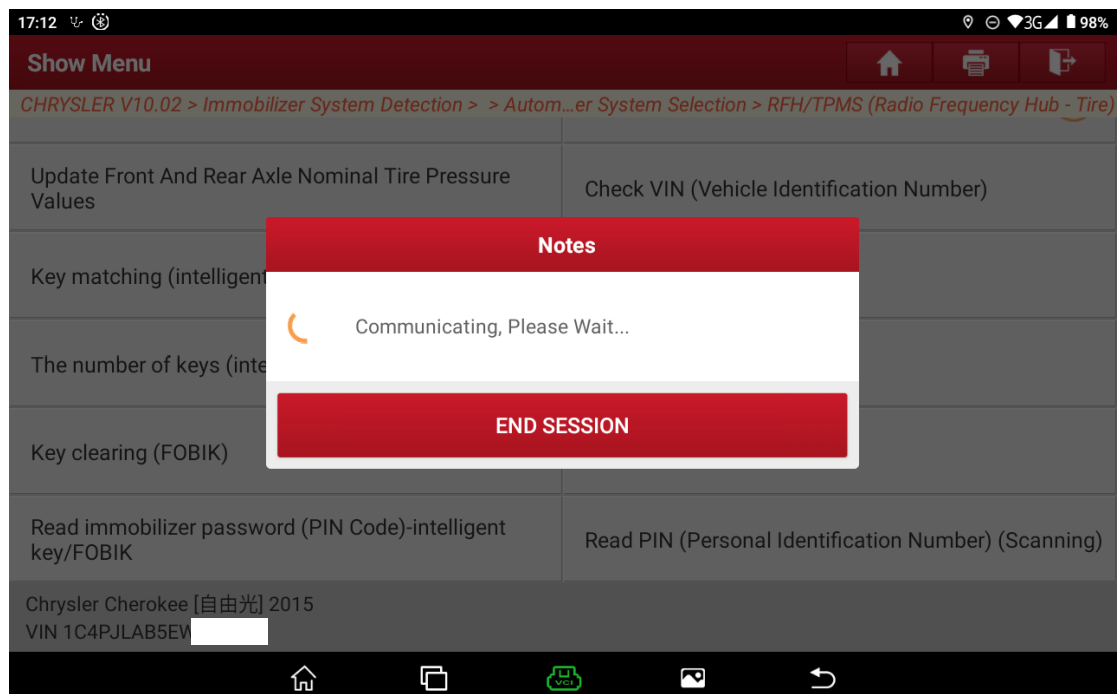


Figure 12

11. Read PIN successful (23179) . Please take a screen shot or record the code in other ways in case if is required by other functions (figure 13)

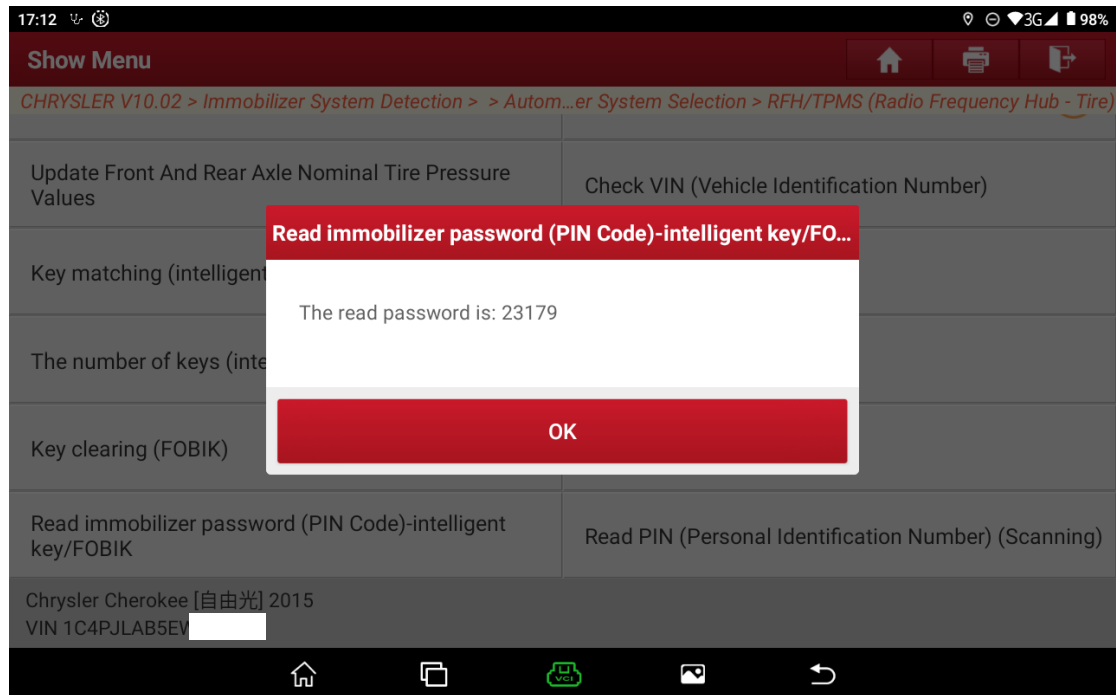


Figure 13

## Operation procedure 2

Taking Jeep Year 2014 Cherokee as an example [key matching]

Here we are going to start to show key matching function after the interface of read immobilizer password (PIN Code) function . Select the same menu path as steps 1-7 with read immobilizer password (PIN Code) function

1. Select [Key matching (intelligent key)] (figure 14)

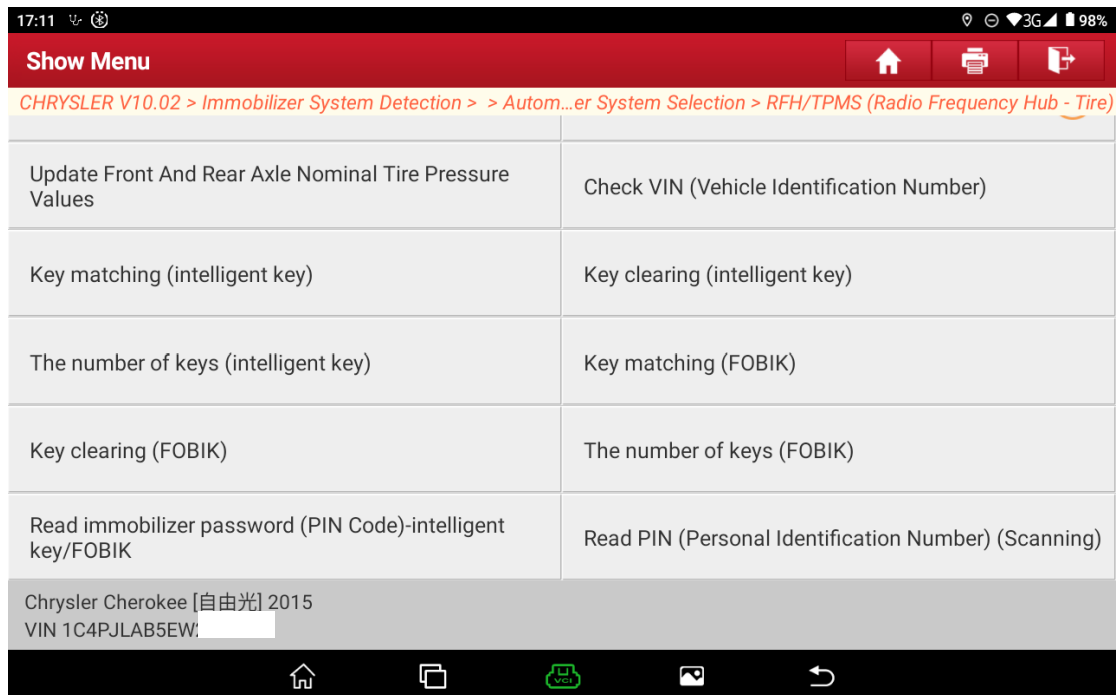


Figure 14

2. Make sure all other devices are far away from the intelligent key to be matched. It displays current number of matched keys is 2, click [OK] (figure 15)

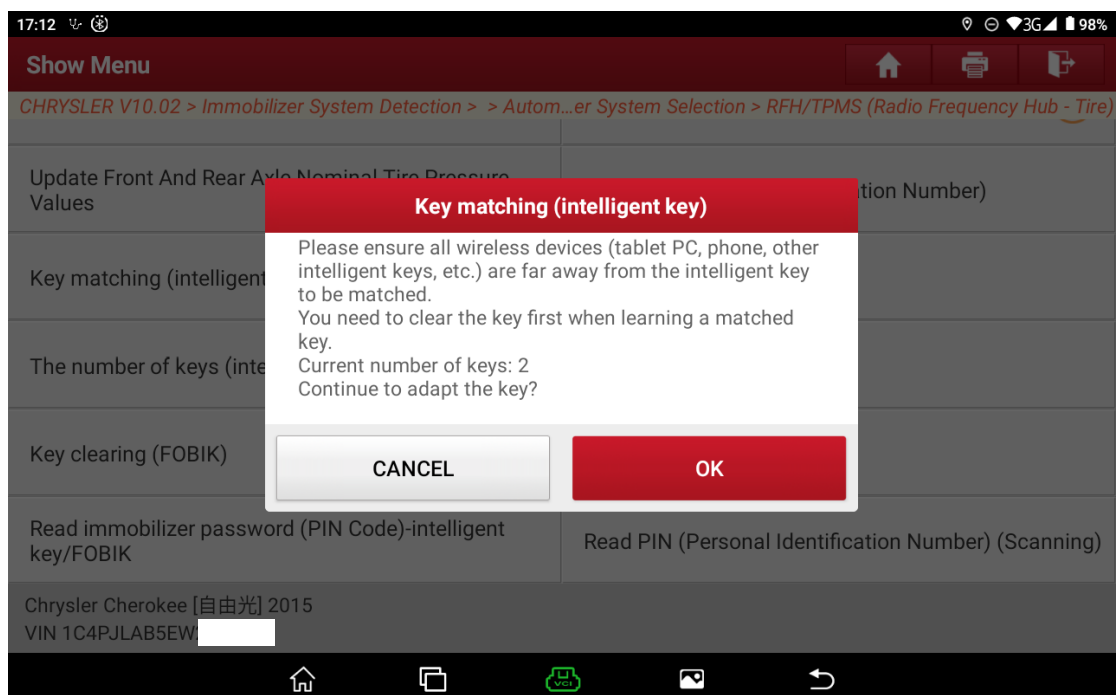


Figure 15

- It displays to input 5-digit security code, please input PIN code just read [23179], then click [OK] (figure 16)

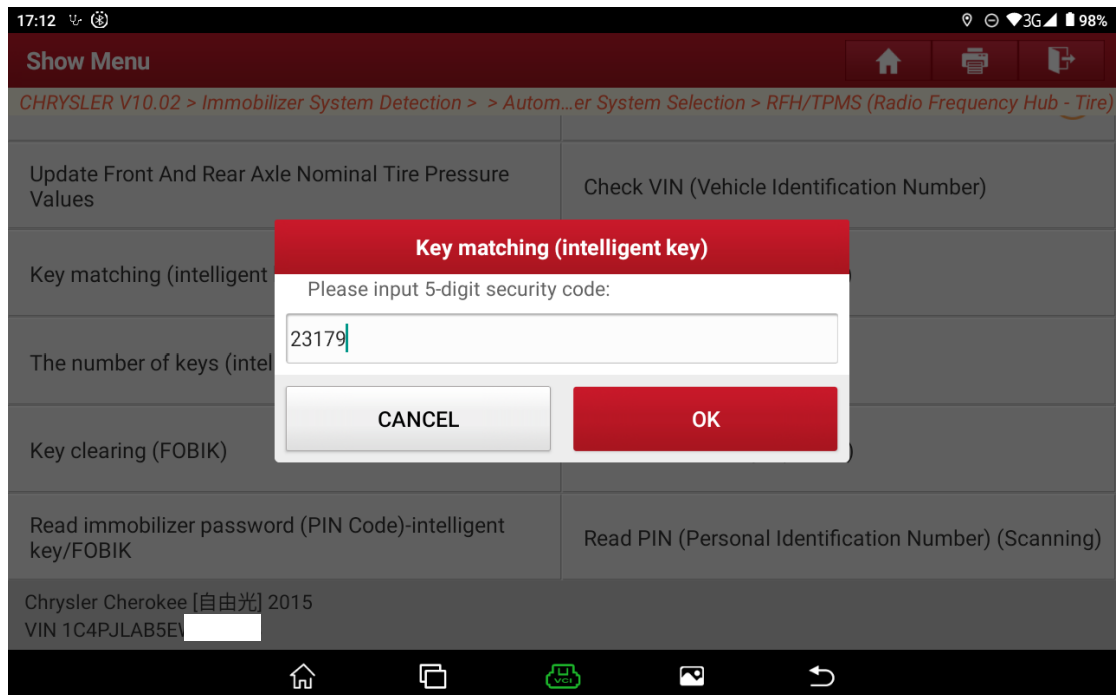


Figure 16

- Please check it again to see if it is correct, click [OK] when checked no error (figure 17)

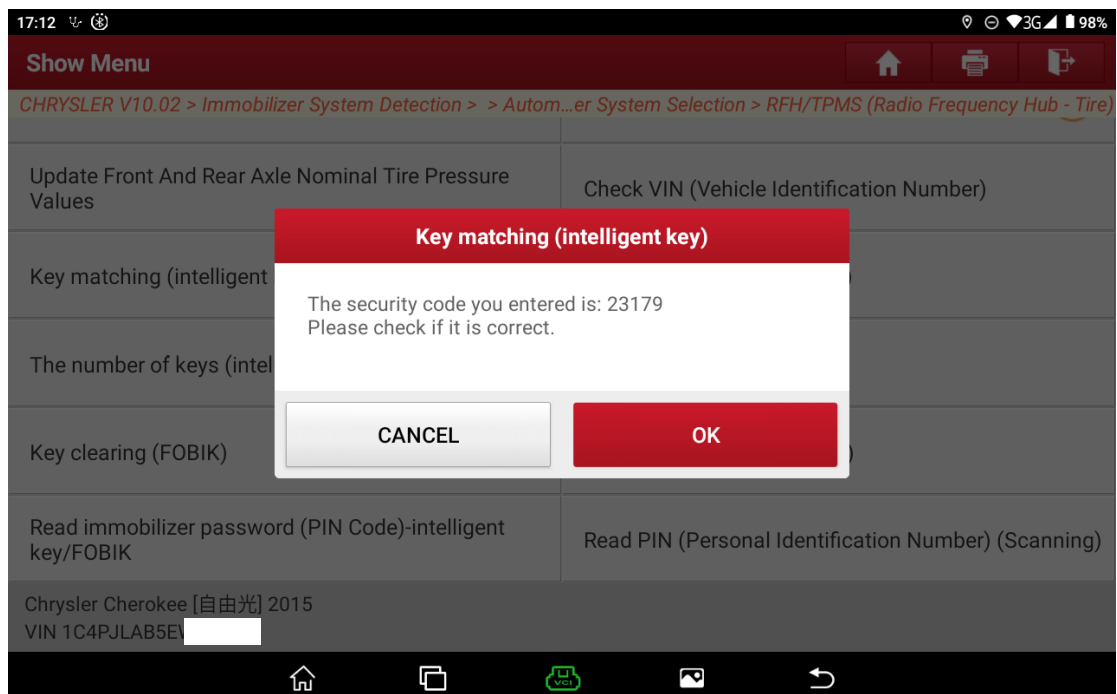


Figure 17

5. Place the intelligent key to be matched on the position of central console as prompted, press Unlock button for twice within 30s, click [OK] (figure 18)

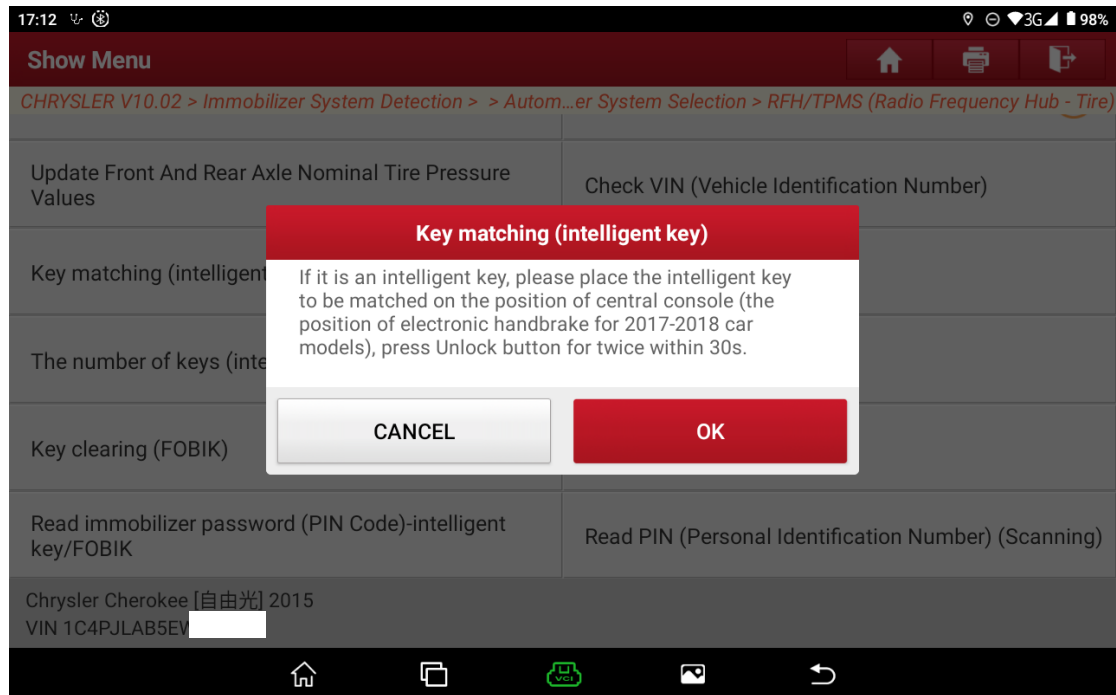


Figure 18

6. Wait for 30 seconds, press and release the Unlock button for twice (figure 19)

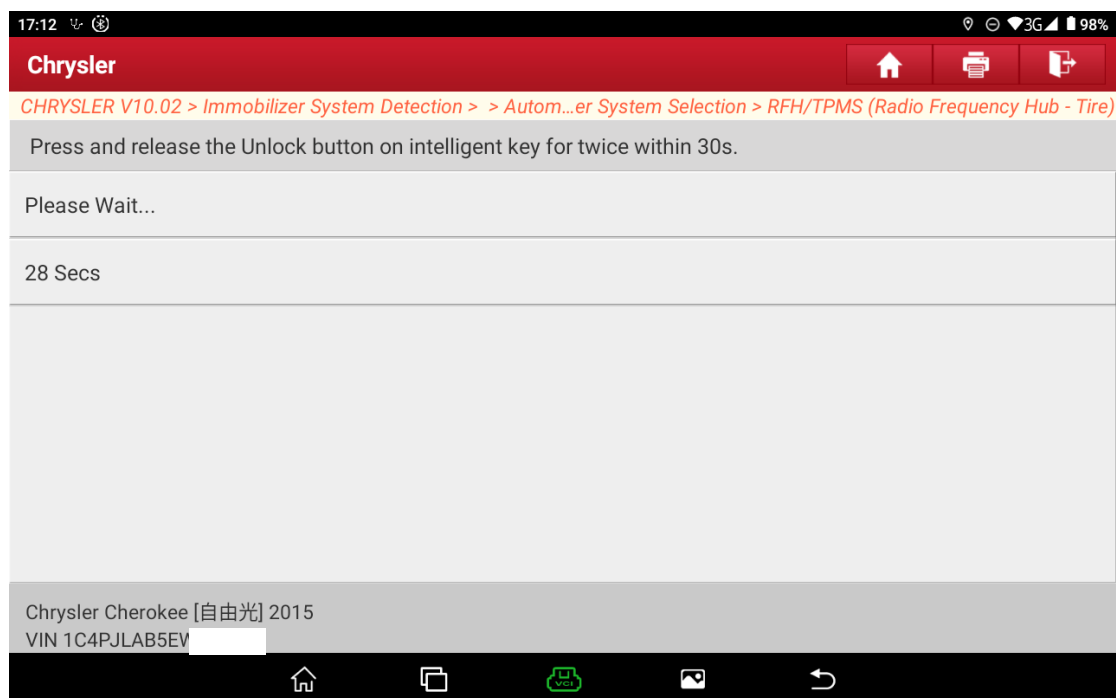


Figure 19

7. Matching is successful, click [OK] if you want to match the next key (figure 20)

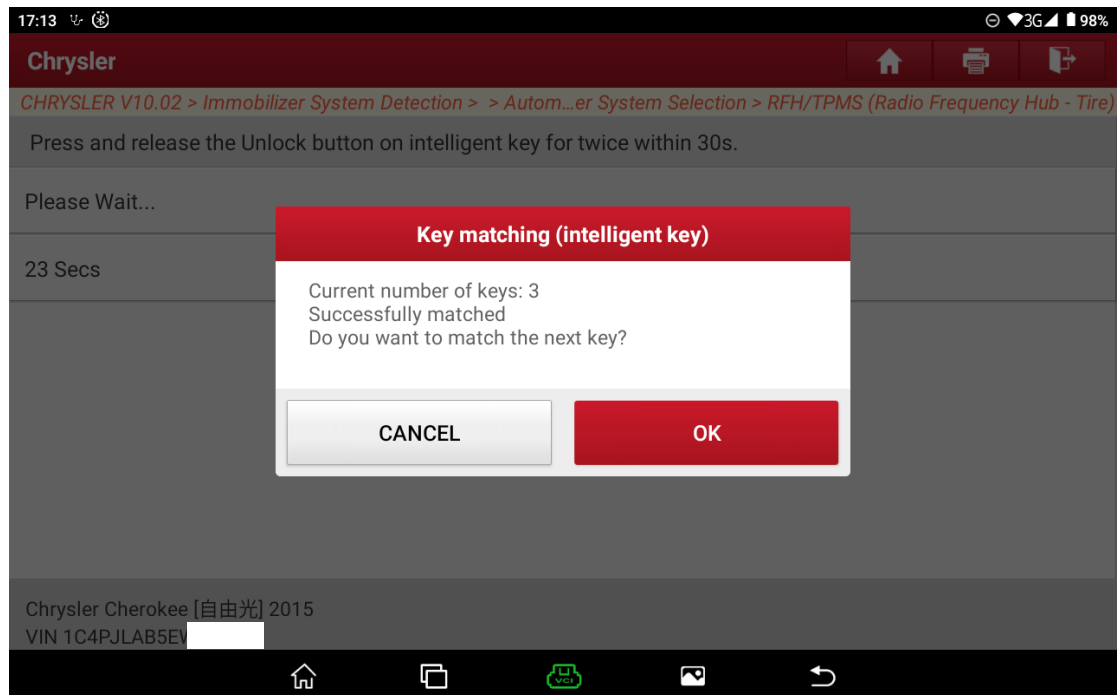


Figure 20

8. Click [OK] after performing the procedures in prompt. The aforementioned procedures will be repeated later (figure 21)

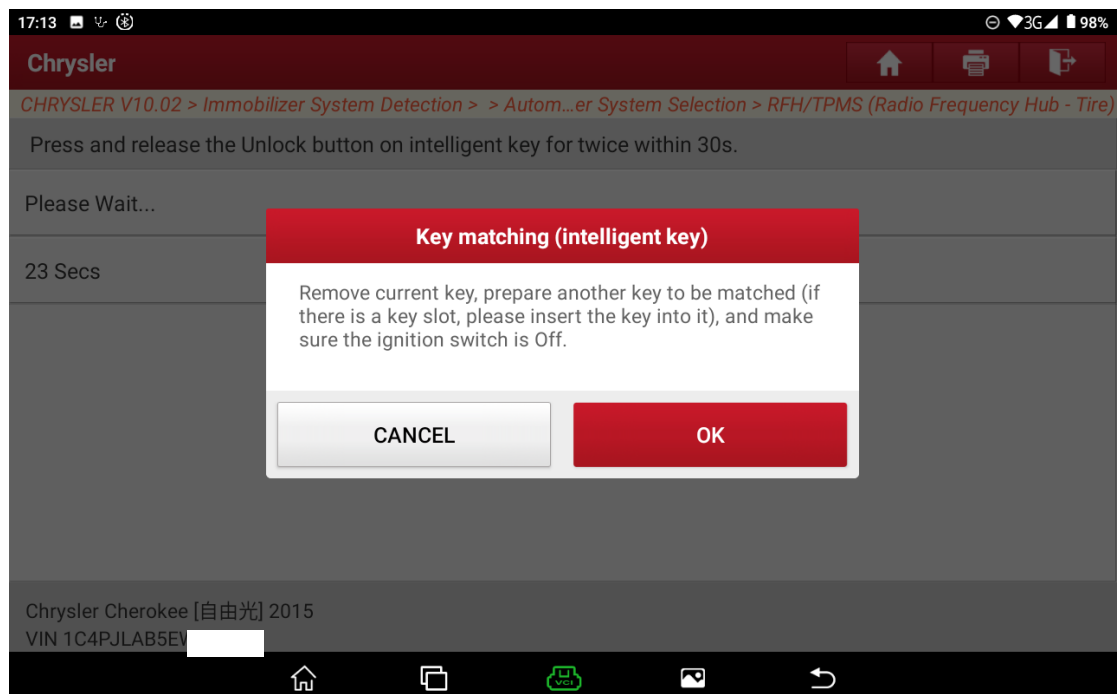


Figure 21

## Programming Procedures

**Model Coverage (only a few year models are listed, please refer to testable model list for more information)**

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	Grand Cherokee	2005-2017
	Grand Commander	2019-2020
	Renegade (BQ-China)	2016-2019
	Wrangler	2008-2018

## Condition requirements

Module will not fix any known issues unless it is required in new module installation, DTC and service.

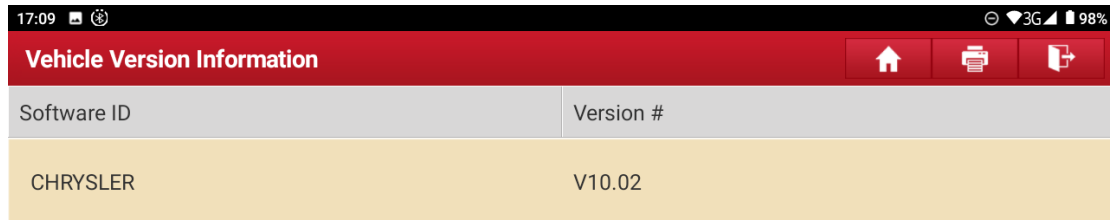
Please use Launch PAD comprehensive diagnostic tool, Launch X-431 PRO IMMO matching tool. Make sure device network connection is normal, battery voltage between 12 to 15 V. Please do not disconnect diagnostic device connector or turn ignition switch off unless prompted.

You can skip programing when there is no DTC that needs programing when replacing IMMO module. Whether programing is needed is dependent on if there is DTC related to IMMO. Whether to perform corresponding function is dependent on module fault.

## Operation Procedure

Taking Year 2014 Cherokee as an example [ECU replacement]

1. Select [IMMO system check] -> [Automatic search] (figure 22, 23, 24).



### Chrysler/Jeep/Dodge Anti-theft Diagnostic Software V10.02

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##### Summary of covered ECUs:

Wireless Control Module, Radio Frequency Hub, Body Control Module and more systems.

##### Summary of covered functions:

- WCM/Wireless Control Module



Figure 22

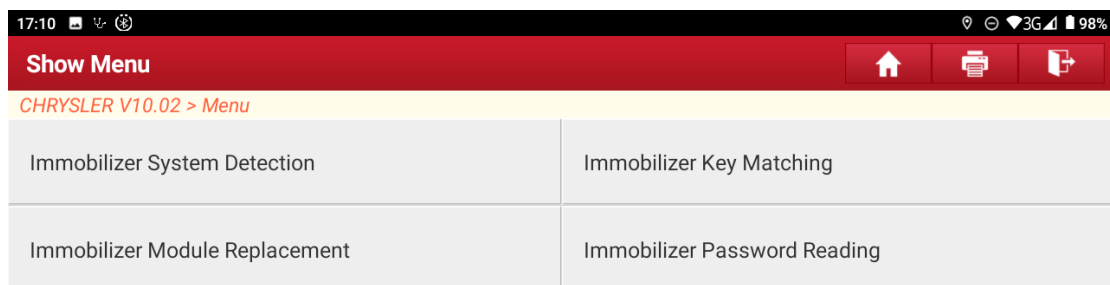


Figure 23

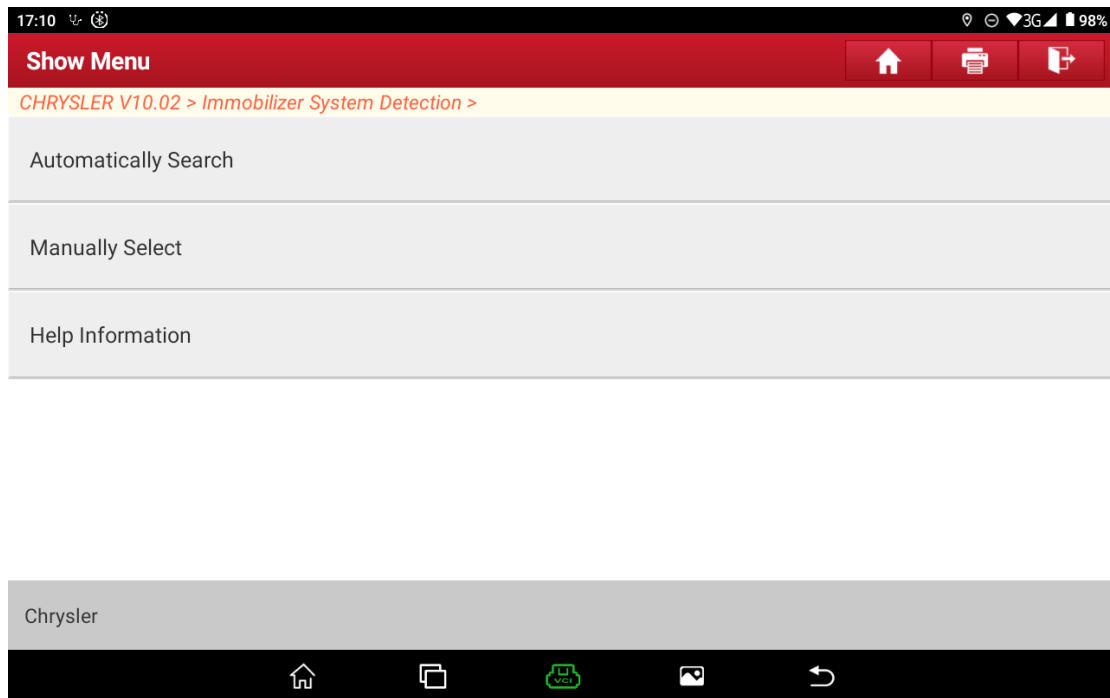


Figure 24

2. Wait until model scanning ended, click [Yes] button (figure 25).

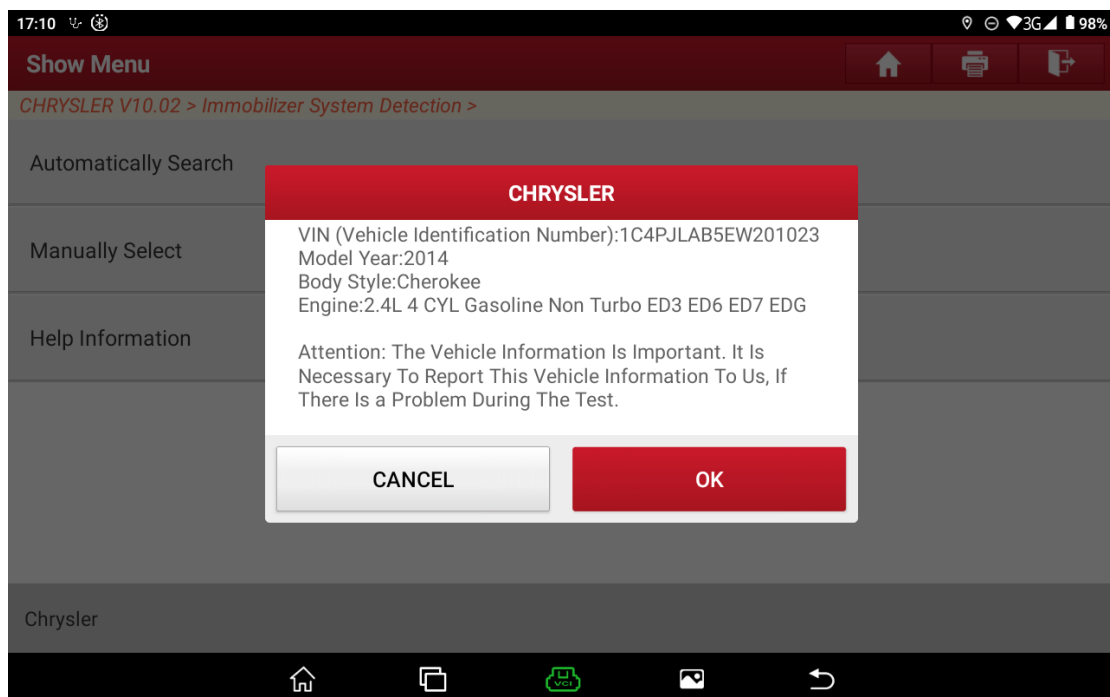


Figure 25

3. Select [Immobilizer System Selection] (see figure 26).

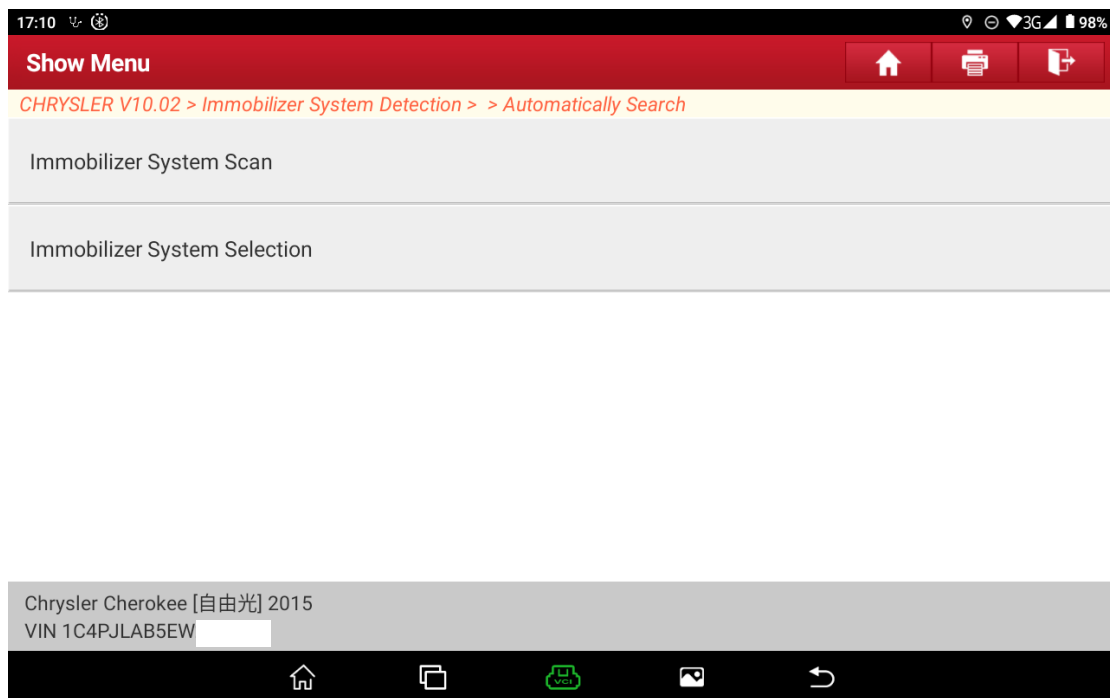


Figure 26

4. Select [BCM (Body Control Module/Central Gateway – TIPMCGW/FCMCGW)] (figure 27)

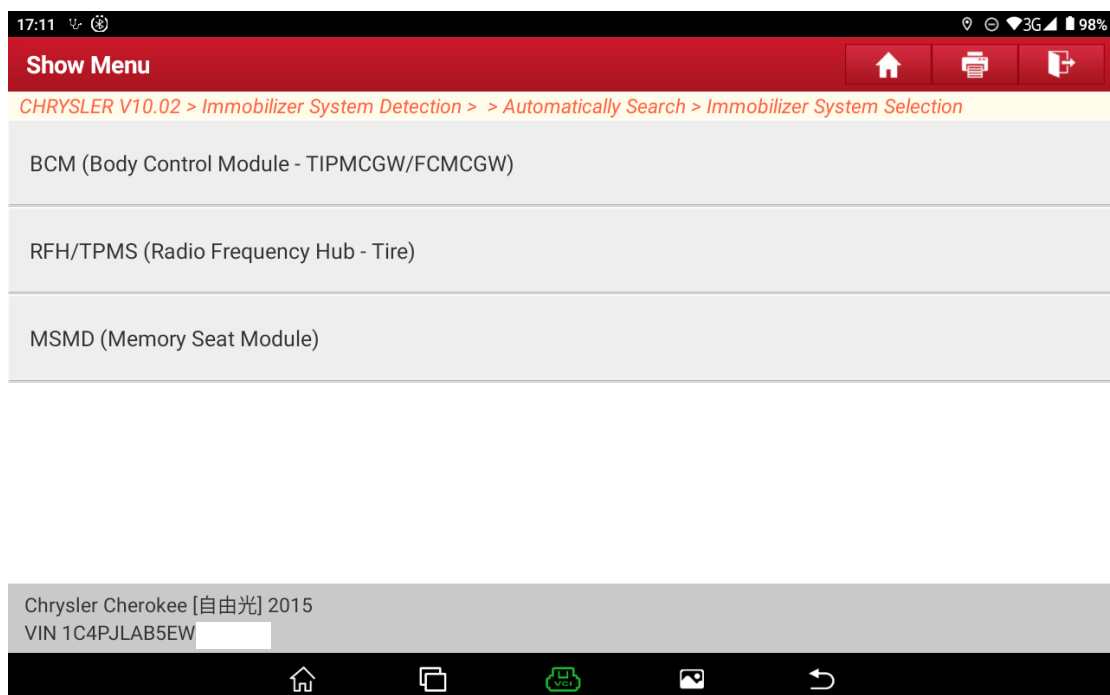


Figure 27

5. When performing IMMP function, please make sure network connection is normal and account is logged in, click [Yes] (figure 28)

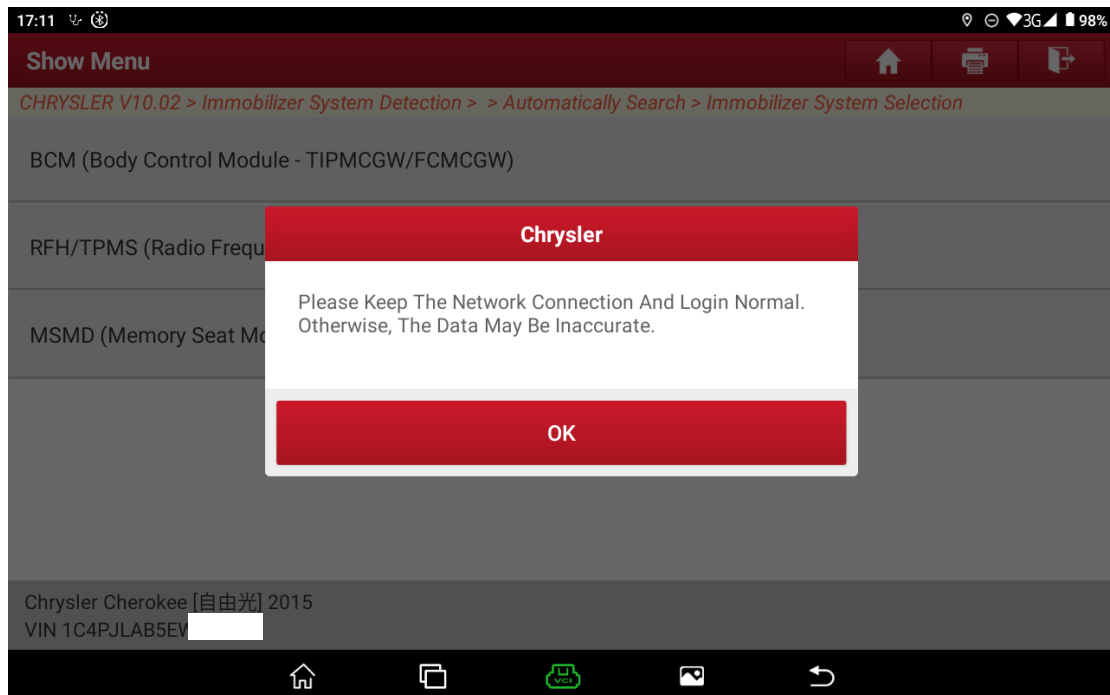


Figure 28

6. Select special function ( figure 29)

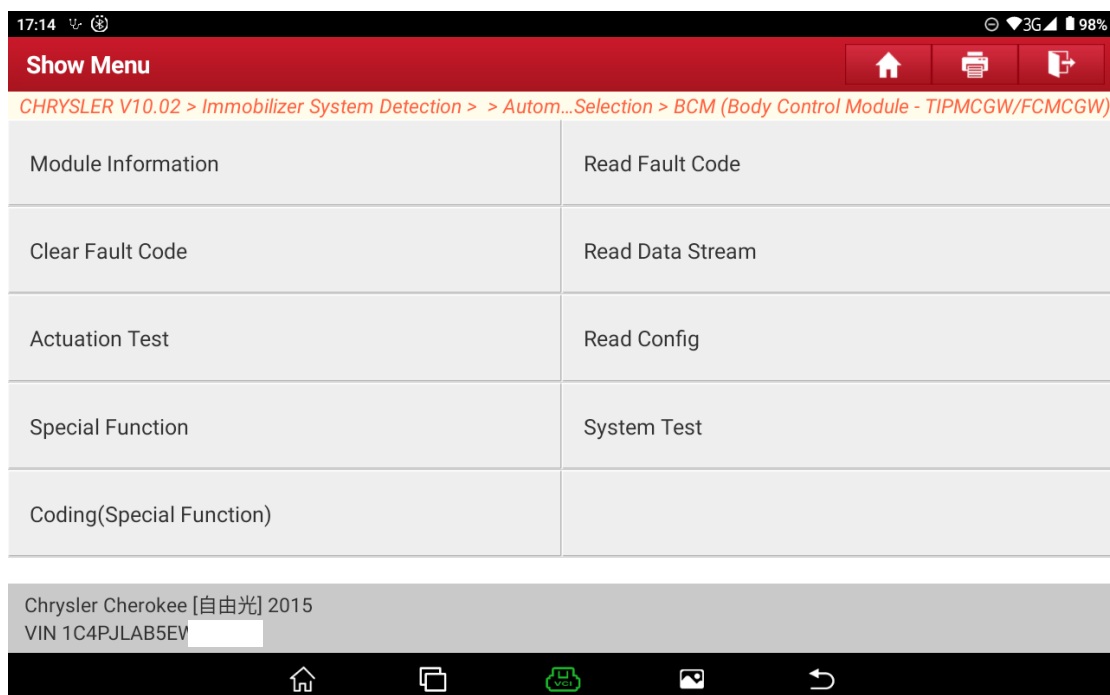


Figure 29

## 7. Select [ESL(Electronic Steering Lock) was replaced] (figure 30)

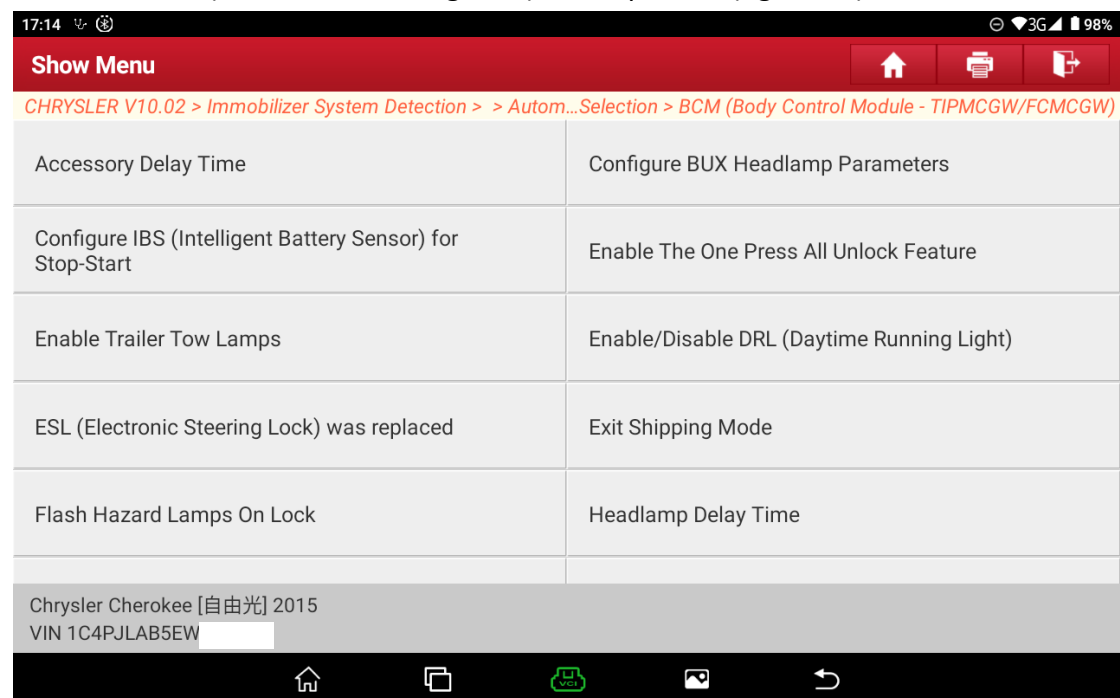


Figure 30

## 8. Click [OK] (figure 31)

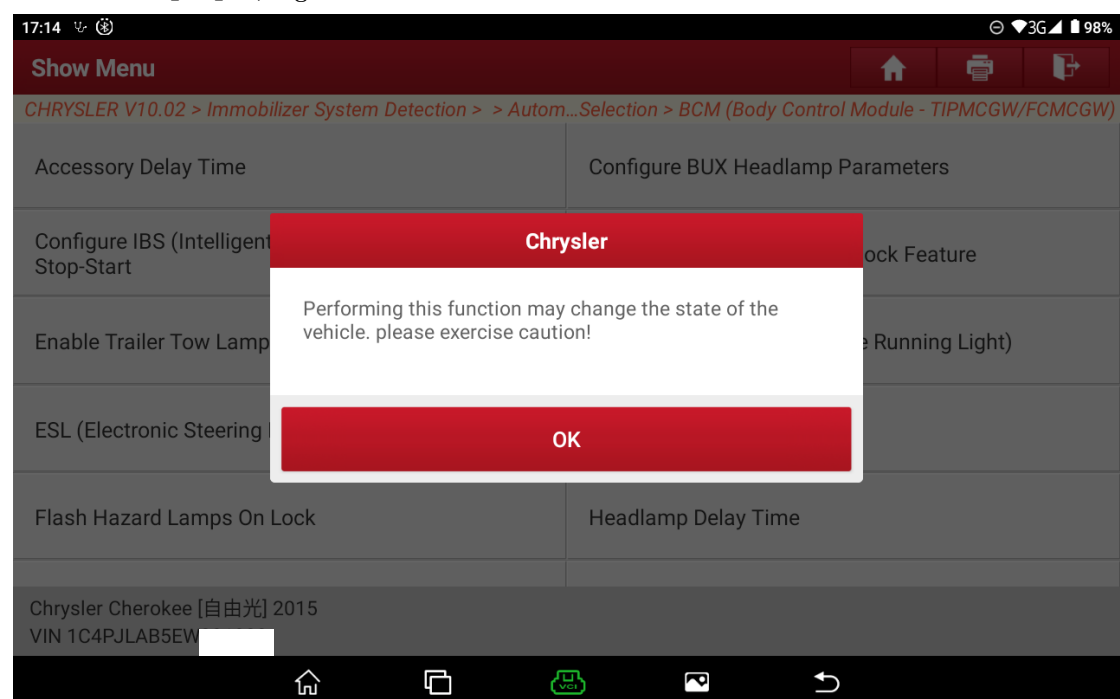


Figure 31

9. Click [OK] (figure 32)

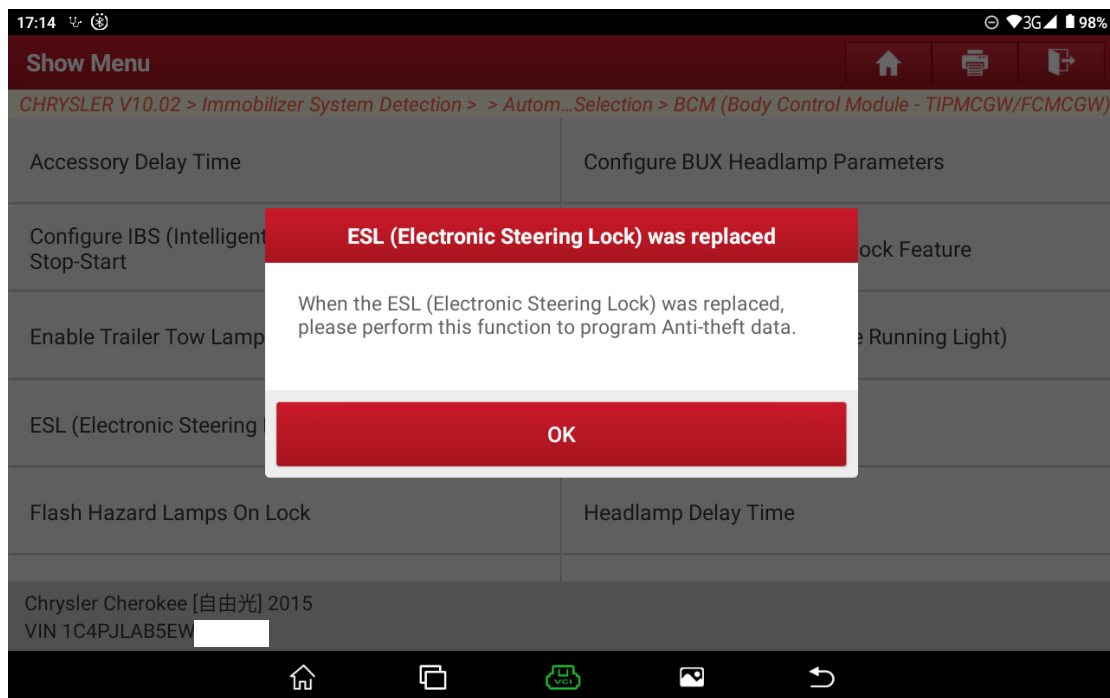


Figure 32

10. Please input 5-digit security code, which is PIN (IMMO password), then click [OK].  
If there is no security code, read it first according to procedures related to PIN (IMMO password) read (figure 33)

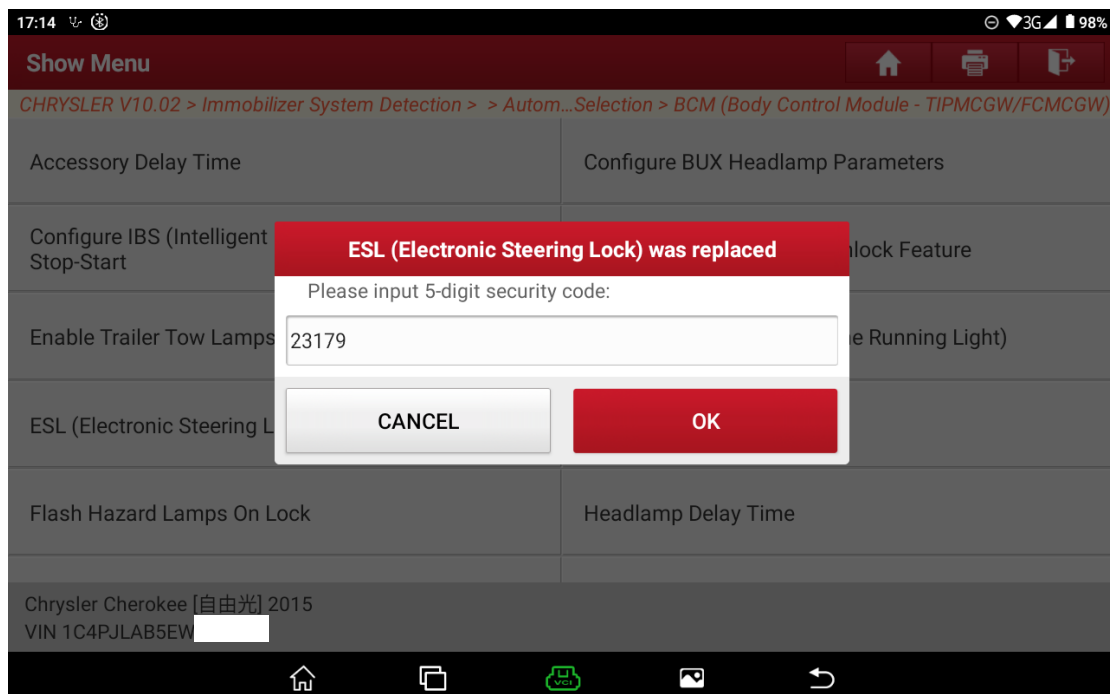


Figure 33

11. Click [OK] when checked with no error (figure 34)

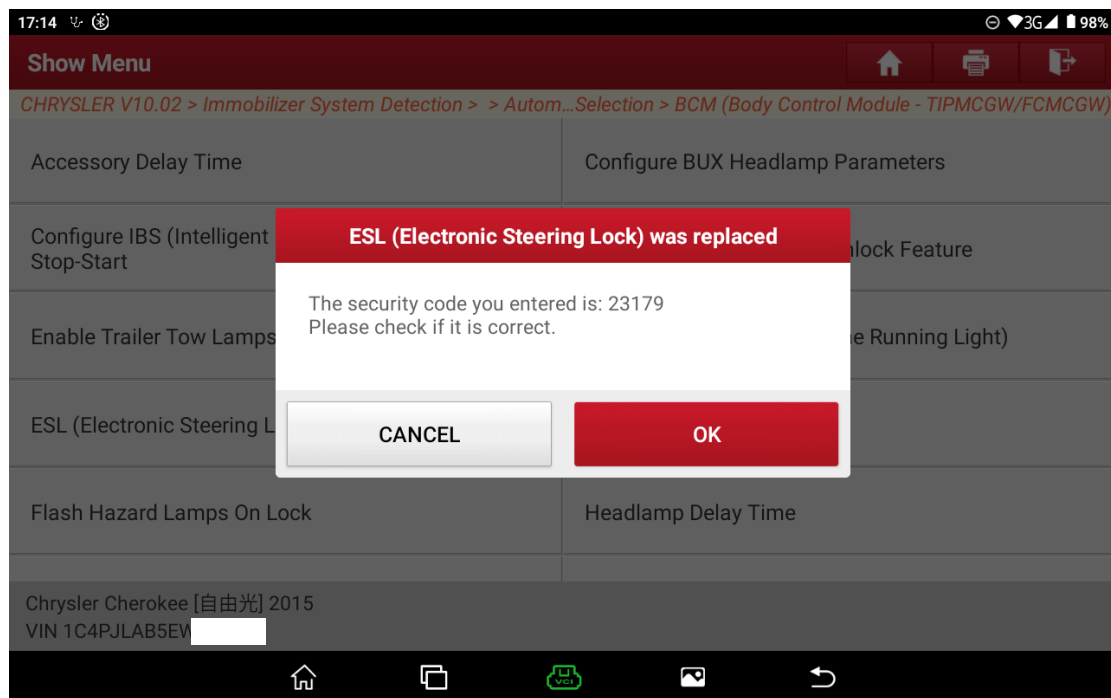


Figure 34

12. Waiting when programing to ECU (figure 35)

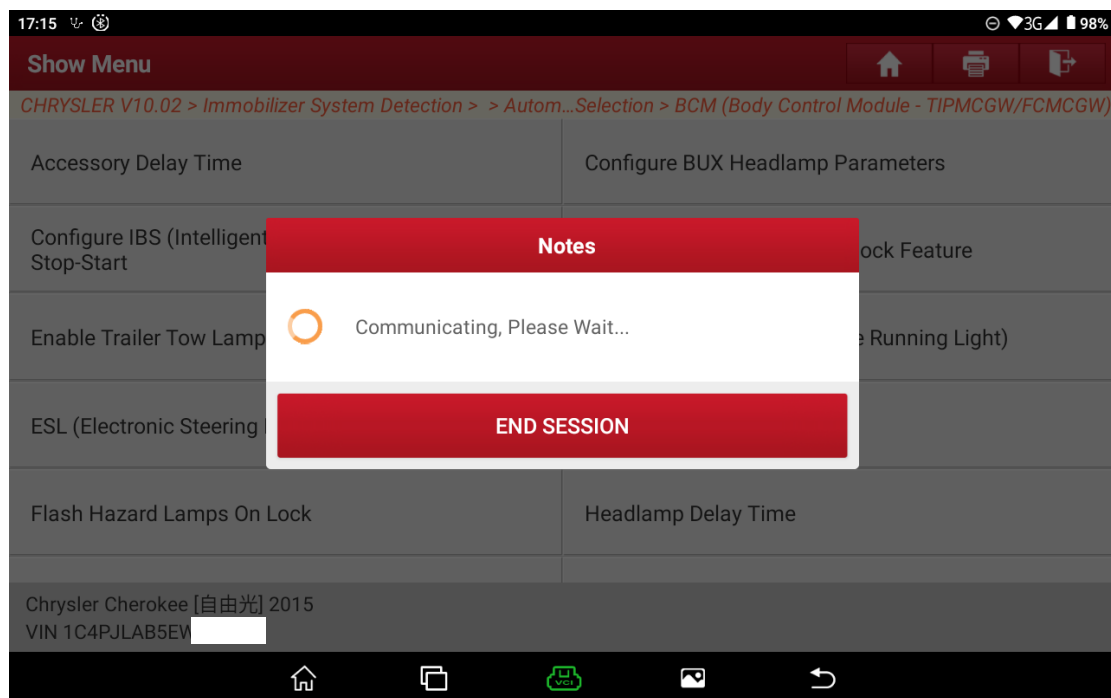


Figure 35

13. Programming succeeded (figure 36)

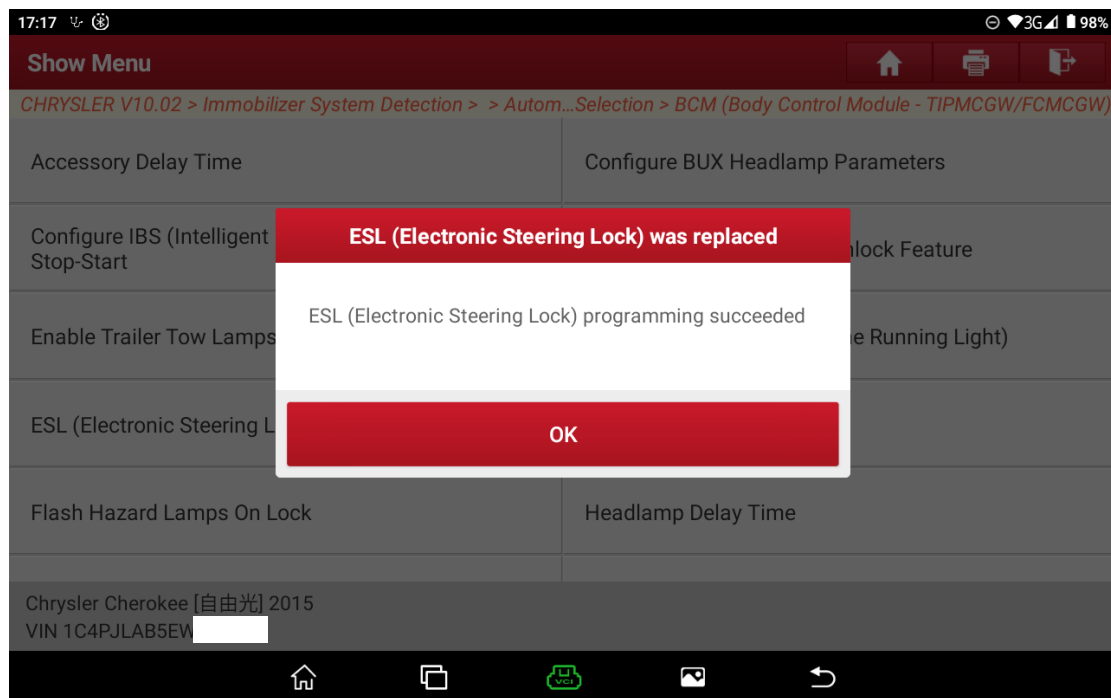


Figure 36

## Statement:

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