

# TPMS Trigger Tool

## TT03

## User Guide



V0.4

Prepared by: Sysgration Inc. Cooperation

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### Introduction

- Purpose

TT03 is a Bluetooth TPMS trigger tool. Sending the low frequency trigger signal wakeup TPMS, then displays tire Pressure /Temperature/TPMS serial number on screen.

- Operation scenario

User press button, trigger TPMS and get Pressure /Temperature/TPMS serial number on screen.



- TT03 2.4G antenna position:



## Button UI:

Screen state / Action	Power Off	Power On (display 2s)	Main Menu	SCAN / TRIGGER (no sensor)	SCAN / TRIGGER (searching)	SCAN / TRIGGER (found sensor)	HISTORY screen
Long press Power key (USB plug out)	Power on		Power off	Power off	Power off	Power off	Power off
Short press UP key			Cursor up				Cursor up
Short press Down key			Cursor down				Cursor down
Short press OK key			No response for TPMS INFO item				
Short press Cancel key				Back to BLE TPMS CHECK menu	Cancel trigger	Back to BLE TPMS CHECK menu	Back to main menu
Short press Trigger key				Start trigger		Start trigger	

Screen state / Action	INSPECT (no sensor)	INSPECT (searching)	INSPECT (found sensor)
Long press Power key (USB plug out)	Power off	Power off	Power off
Short press UP key			
Short press Down key			
Short press OK key			
Short press Cancel key	Back to BLE TPMS CHECK menu	Cancel trigger	Back to BLE TPMS CHECK menu
Short press Trigger key	Start trigger		Start trigger then connect

Screen state / Action	BLE CONN TEST (no sensor)	BLE CONN TEST (searching)	BLE CONN TEST (found sensor)
Long press Power key (USB plug out)	Power off	Power off	Power off
Short press UP key			
Short press Down key			
Short press OK key			
Short press Cancel key	Back to main menu	Cancel trigger	Back to main menu
Short press Trigger key	Start trigger		Start trigger then connect

Screen state / Action	MMY RF TPMS CHECK (no sensor)	MMY RF TPMS CHECK (searching)	MMY RF TPMS CHECK (found sensor)
Long press Power key (USB plug out)	Power off	Power off	Power off
Short press UP key			
Short press Down key			
Short press OK key			
Short press Cancel key	Back to MMY menu	Cancel trigger	Back to MMY menu
Short press Trigger key	Start trigger		Start trigger then connect

Screen state / Action	Settings menu	Enter combo box field	FW Upgrade screen	BT upgrade screen	USB upgrade screen (without USB plug in)	RESTORE screen	ABOUT screen
Long press Power key(USB plug out)	Power off	Power off	Power off	Power off	Power off	Power off	Power off
Short press UP key	Cursor up	Switch field data item	Cursor up				
Short press Down key	Cursor down	Switch field data item	Cursor down				
Short press OK key	Respond item: FW UPGRADE, RESTORE, ABOUT Other items no response		Respond item: USB, BLUETOOTH			Reset to default settings then back to settings menu	
Short press Cancel key	Back to main menu		Back to settings menu	Back to FW upgrade menu	Back to FW upgrade menu	Back to settings menu	Back to settings menu
Short press Trigger key							
Short press Left key		Exit combo box field					
Short press Right key	Jump to combo box field item pointed by cursor.						
Plug-in USB			Enter USB DFU				

User Guide:


- Power on:



- Power off:

TT03 Screen

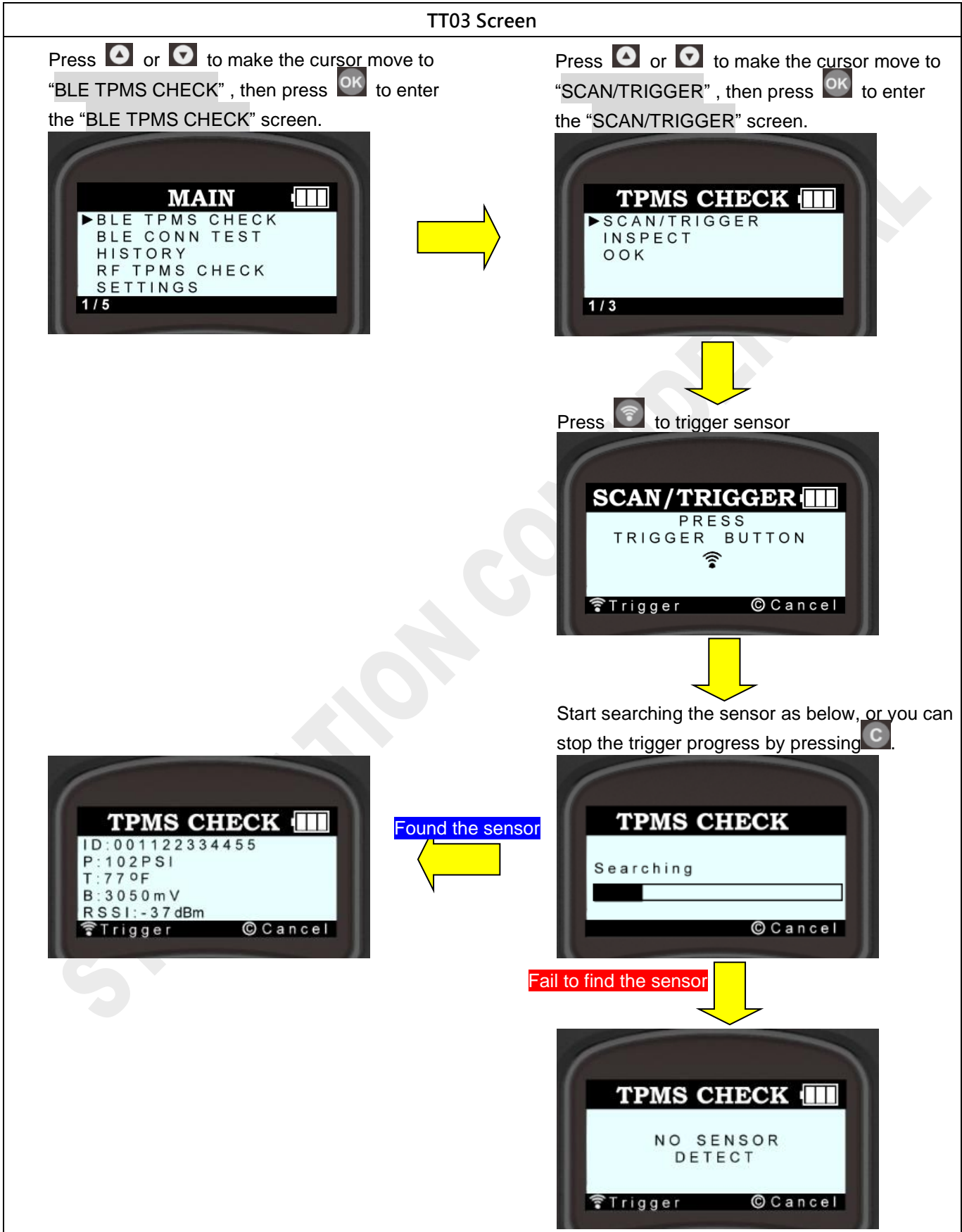
Note: TT03 Will keep power on if under TYPE-C connection.



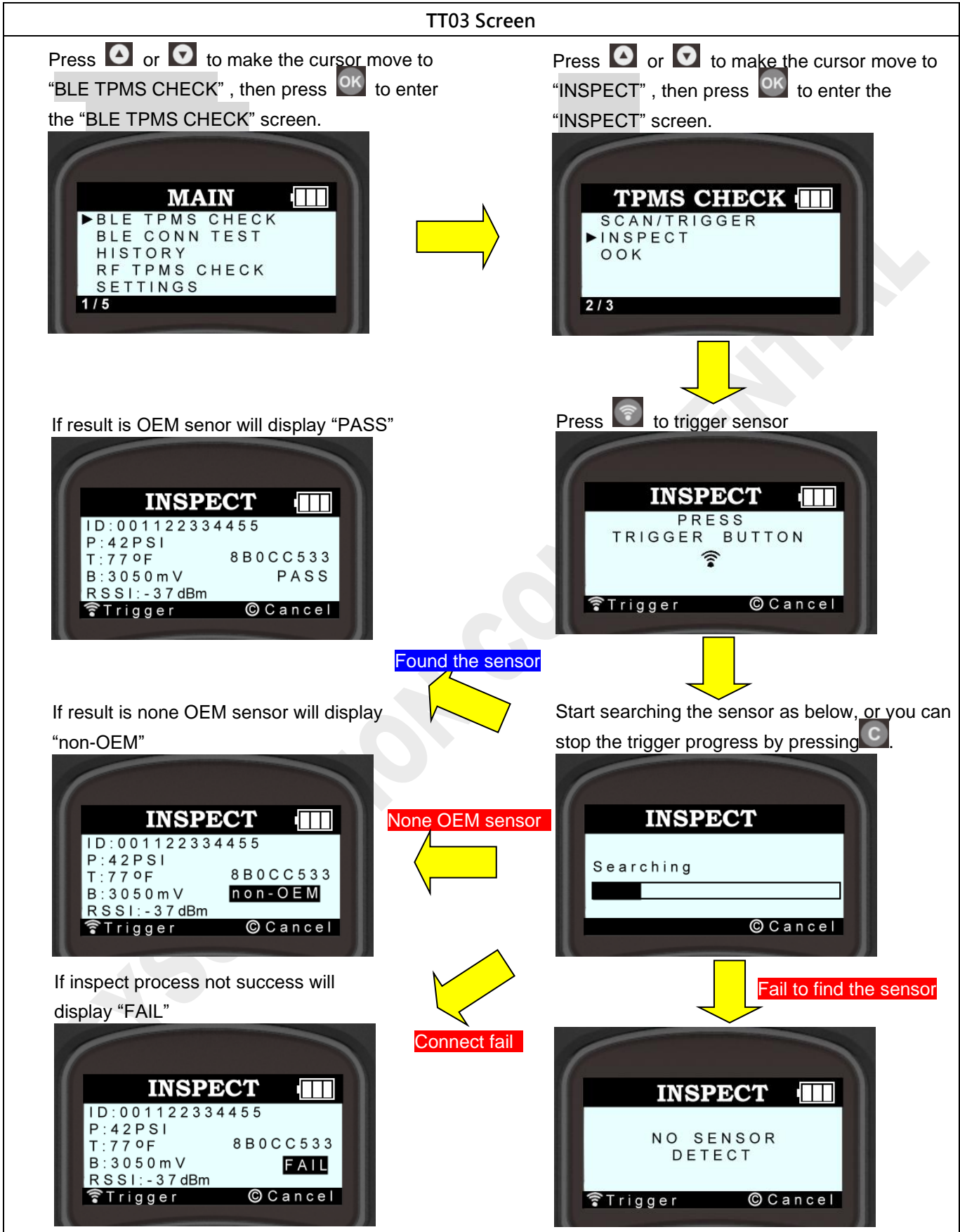
The diagram shows the front of a blue TT03 handheld device. The screen displays a menu with the following items: MAIN, BLE TPMS CHECK, BLE CONN TEST, HISTORY, RF TPMS CHECK, and SETTINGS. Below the screen is a control panel with several buttons: a Wi-Fi icon, a left arrow, an OK button, a right arrow, a C button, a power button (indicated by a red circle and a power symbol), and a down arrow. A blue arrow points from the text 'Power key' to the power button. Below this, the text 'Long Press 2s' is written in red. The device model 'TT-03' is printed at the bottom of the control panel.



- Trigger Sensor :
  1. BLE TPMS CHECK: SCAN/TRIGGER



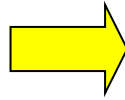
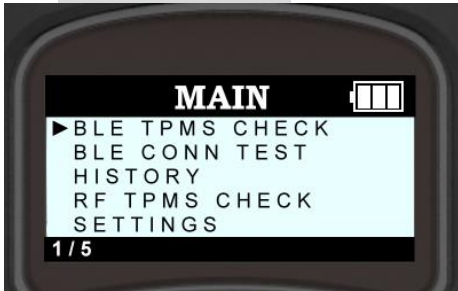
2. BLE TPMS CHECK: INSPECT



3. BLE TPMS CHECK: OOK

TT03 Screen

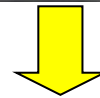
Press or to make the cursor move to "BLE TPMS CHECK", then press to enter the "BLE TPMS CHECK" screen.



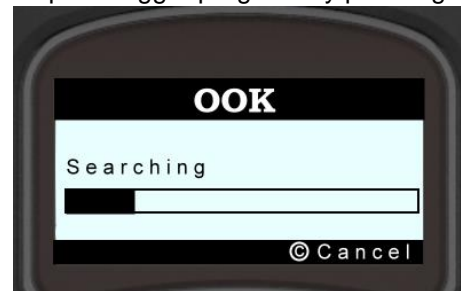
Press or to make the cursor move to "OOK", then press to enter the "OOK" screen.



Press to trigger sensor



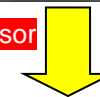
Start searching the sensor as below, or you can stop the trigger progress by pressing .



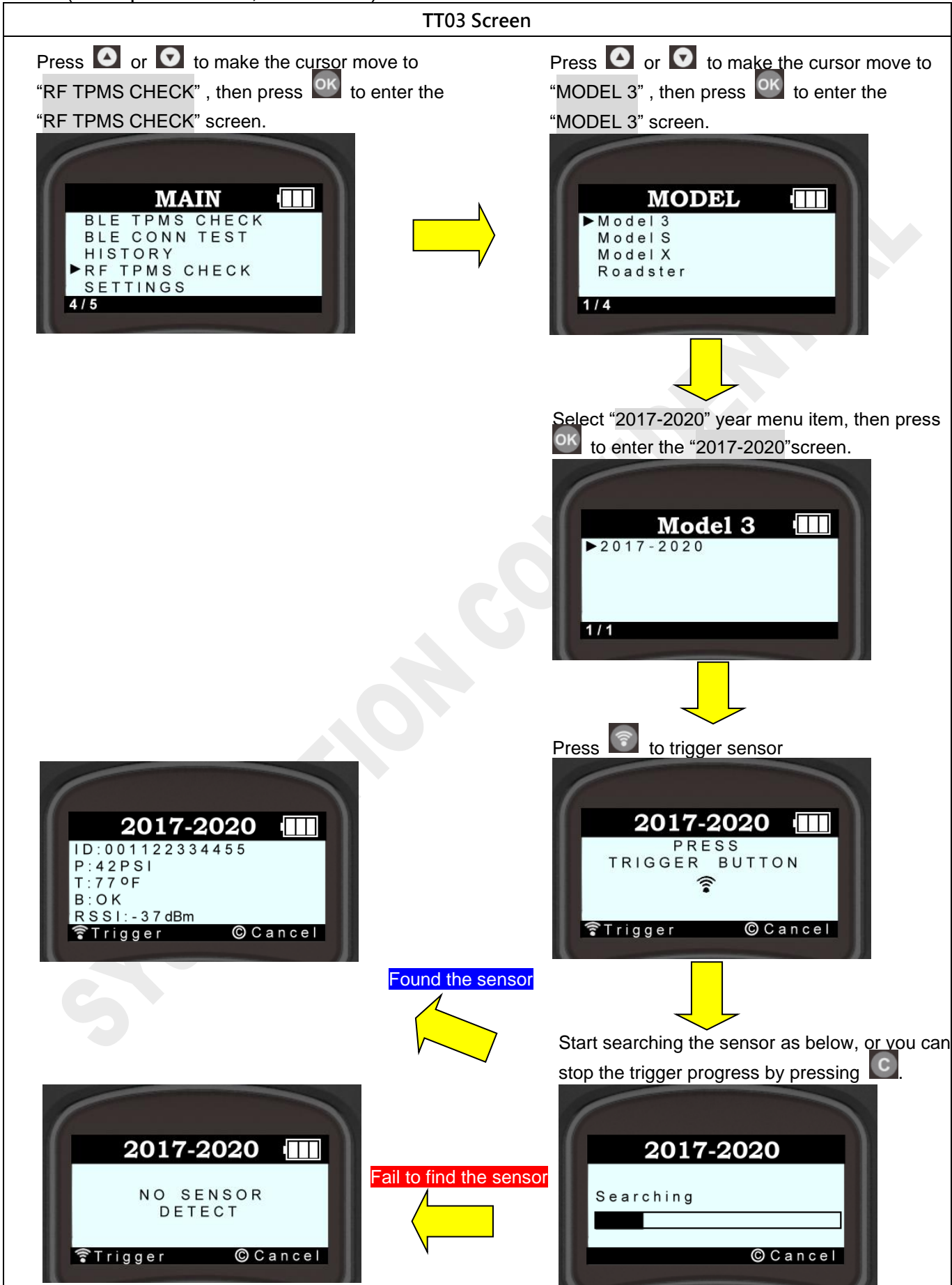
Found the sensor



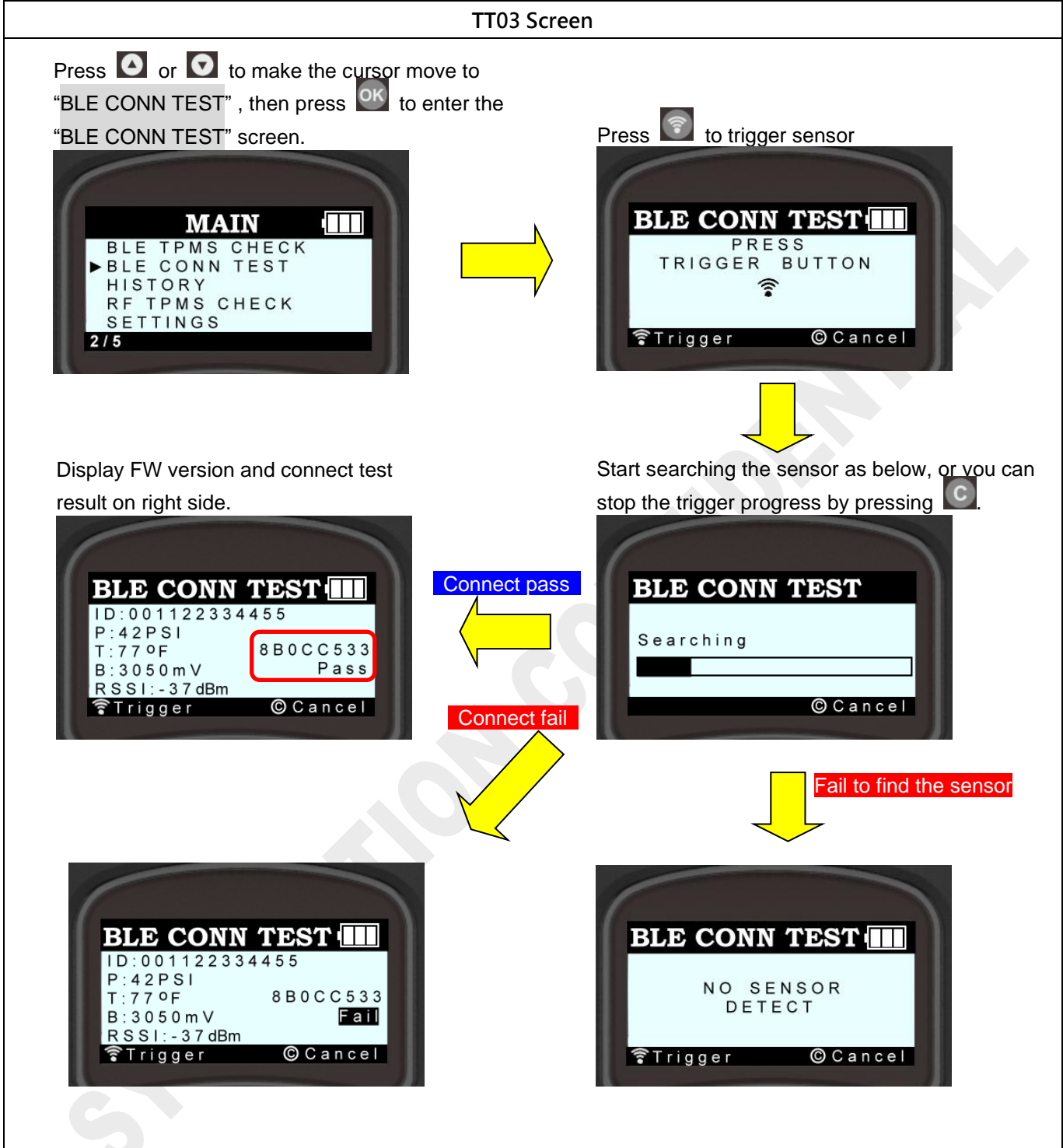
Fail to find the sensor



4. RF TPMS CHECK: Select the R sensor to be triggered from the MMY menu.  
 (Example: Model 3, 2017-2020)



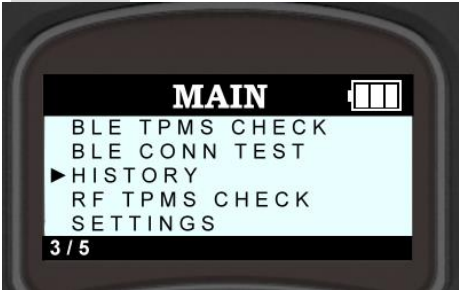
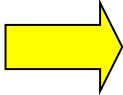

● Connect test:



● HISTORY:

**TT03 Screen**

Press or to make the cursor move to "HISTORY", then press to enter the "HISTORY" screen.

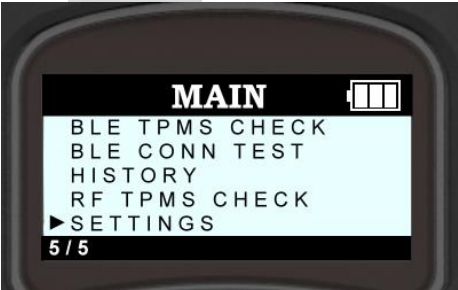

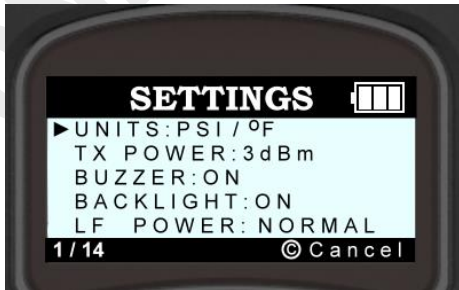




Press or to make the cursor move to review ID.

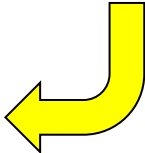

● Pressure / Temperature Units Setting:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

Press or to make the cursor move to "UNITS", then press to enter the "UNITS" item.

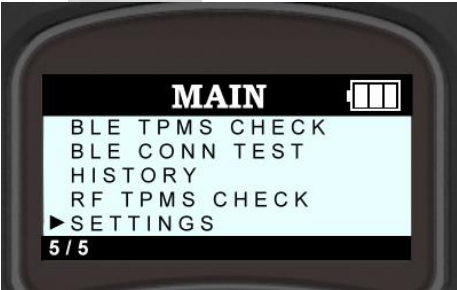



Press or to switch the following options ( → → → → → ), then press to exit the "UNITS" item.


● TX power level Setting:


**TT03 Screen**


Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.



Press or to make the cursor move to "TX POWER", then press to enter the "TX POWER" item.








Press or to switch the following options ( → → → → → → → → → → → → → ), then press to exit the "TX POWER" item.

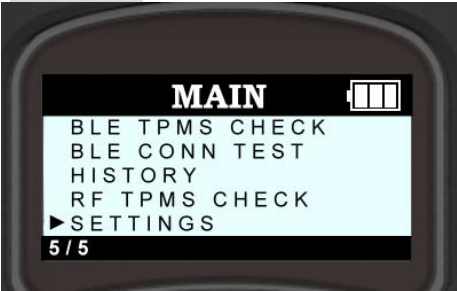
**Note:** In the TX power table above is for BLE type used, if sensor type is OOK type, the options will be changed to → → → → → → → → → →



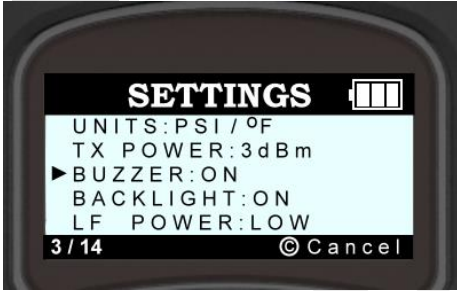
● Buzzer On/Off Setting:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

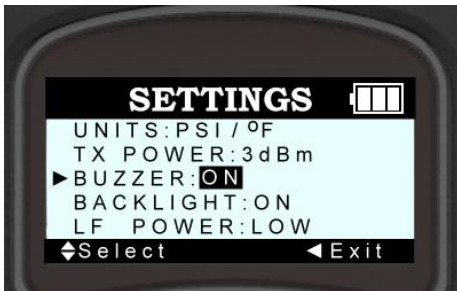


→



Press or to make the cursor move to "BUZZER", then press to enter the "BUZZER" item.

↙




Press or to switch the following options (**ON** → **OFF**), then press to exit the "BUZZER" item.

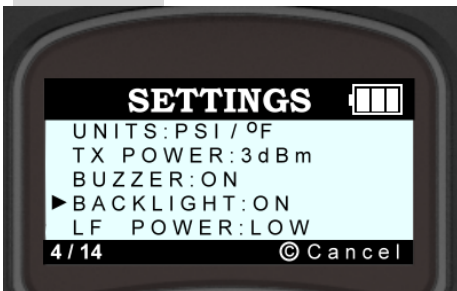
● Backlight On/Off Setting:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

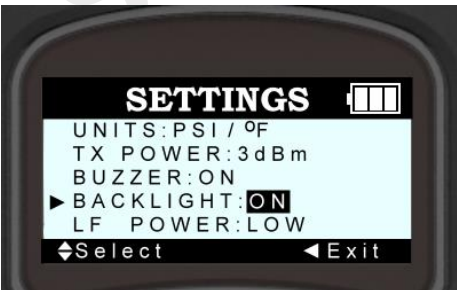


→



Press or to make the cursor move to "BACKLIGHT", then press to enter the "BACKLIGHT" item.

↙



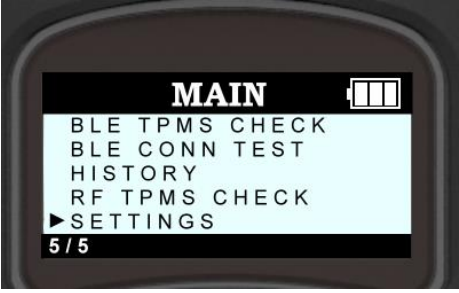
Press or to switch the following options (**ON** → **OFF**), then can press to exit the "BACKLIGHT" item.



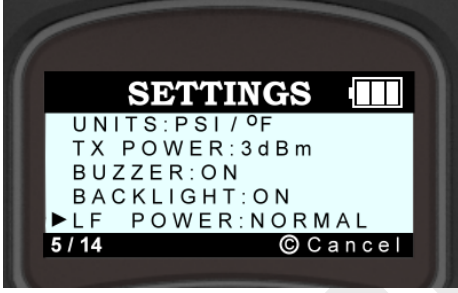
● LF Power Setting:

**TT03 Screen**

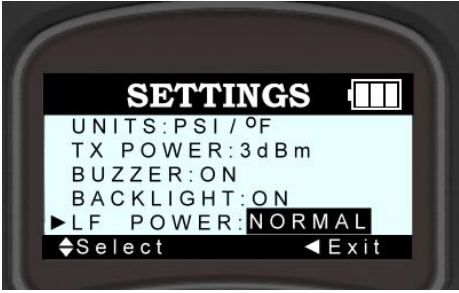
Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.



Press or to make the cursor move to "LF POWER", then press to enter "LF POWER" item.



Press or to switch the following options ( → → ), then press to exit the "LF POWER" item.

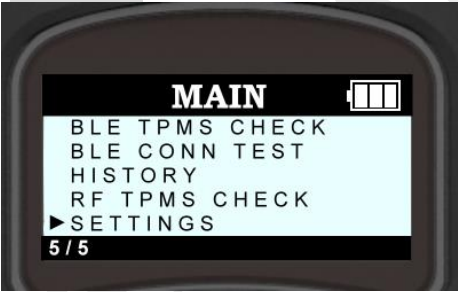


● USB Port Working Mode Setting (USB HID/ UART):

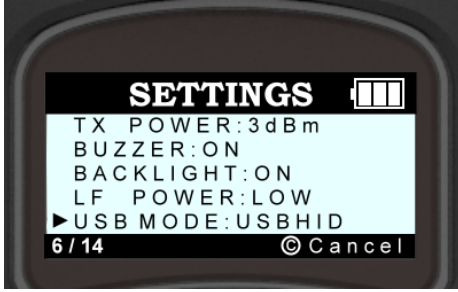
**TT03 Screen**

**✖Check if the USB is plugged out.**

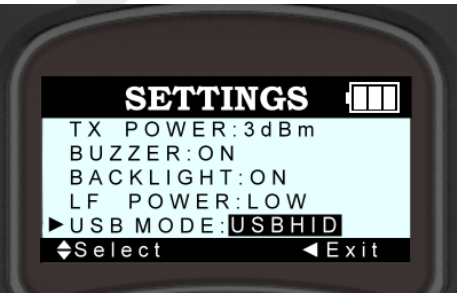
Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.



Press or to make the cursor move to "USB MODE", then press to enter "USB MODE" item.



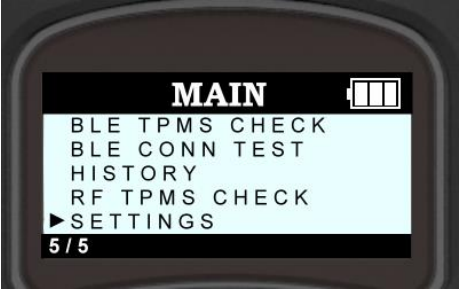
Press or to switch the following options ( → ), then press to exit the "USB MODE" item.



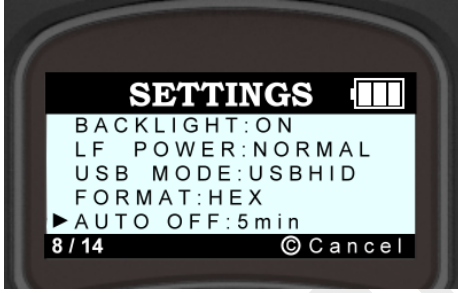
● Power OFF Time Setting:


**TT03 Screen**

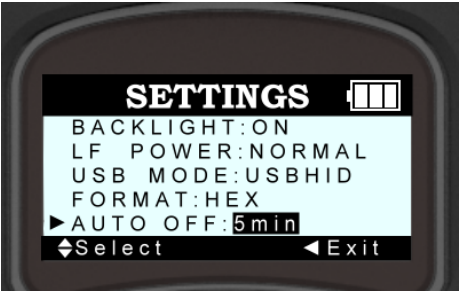
Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.




Press or to make the cursor move to "AUTO OFF", then press to enter the "AUTO OFF" item:







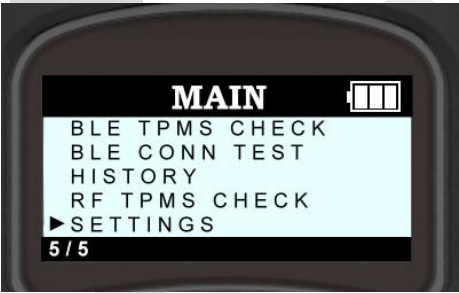
Press or to switch the following options (5 min → 3 min → 1 min → OFF), then press to exit the "AUTO OFF" item.



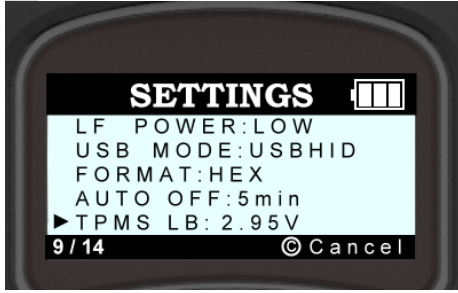
● TPMS Low Battery Alert Setting:


**TT03 Screen**

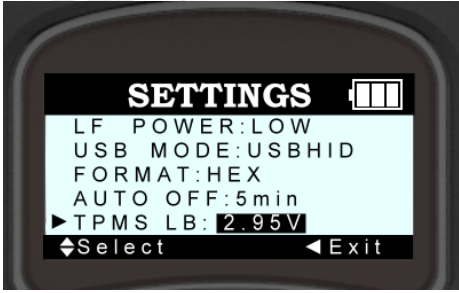
Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.



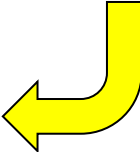
Press or to make the cursor move to "TPMS LB", then press to enter the "TPMS LB" item:







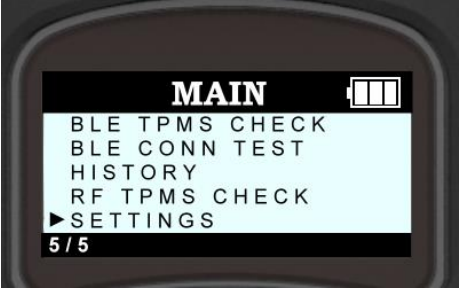

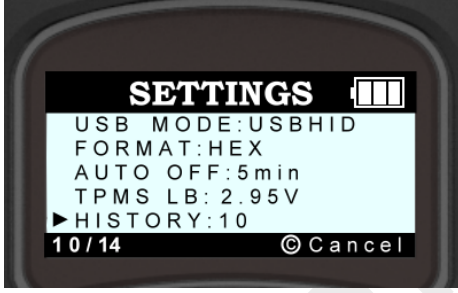
Press or to switch the following options (3.30V → 3.25V → 3.20V → 3.15V → 3.10V → 3.05V → 3.00V → 2.95V → 2.90V → 2.85V → 2.80V → 2.75V → 2.70V → 2.65V → 2.60V → 2.55V → 2.50V → 2.45V → 2.40V → 2.35V → 2.30V → OFF), then press to exit the "TPMS LB" item.





● History Setting:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

Press or to make the cursor move to "HISTORY", then press to enter the "HISTORY" item:

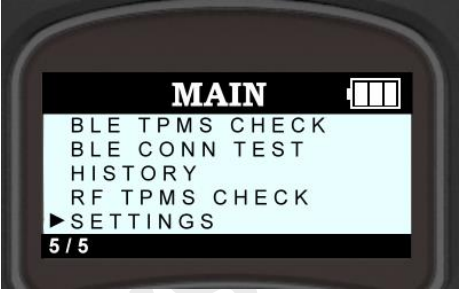

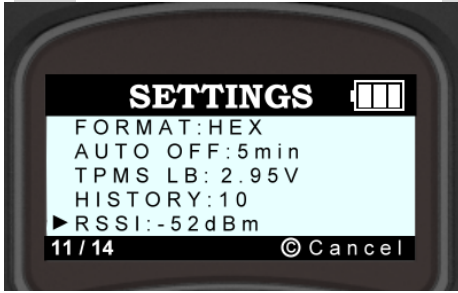



Press or to switch the following options ( → → → → → → → → → ), then press to exit the "HISTROY"


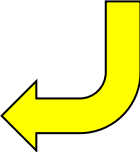
● RSSI:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

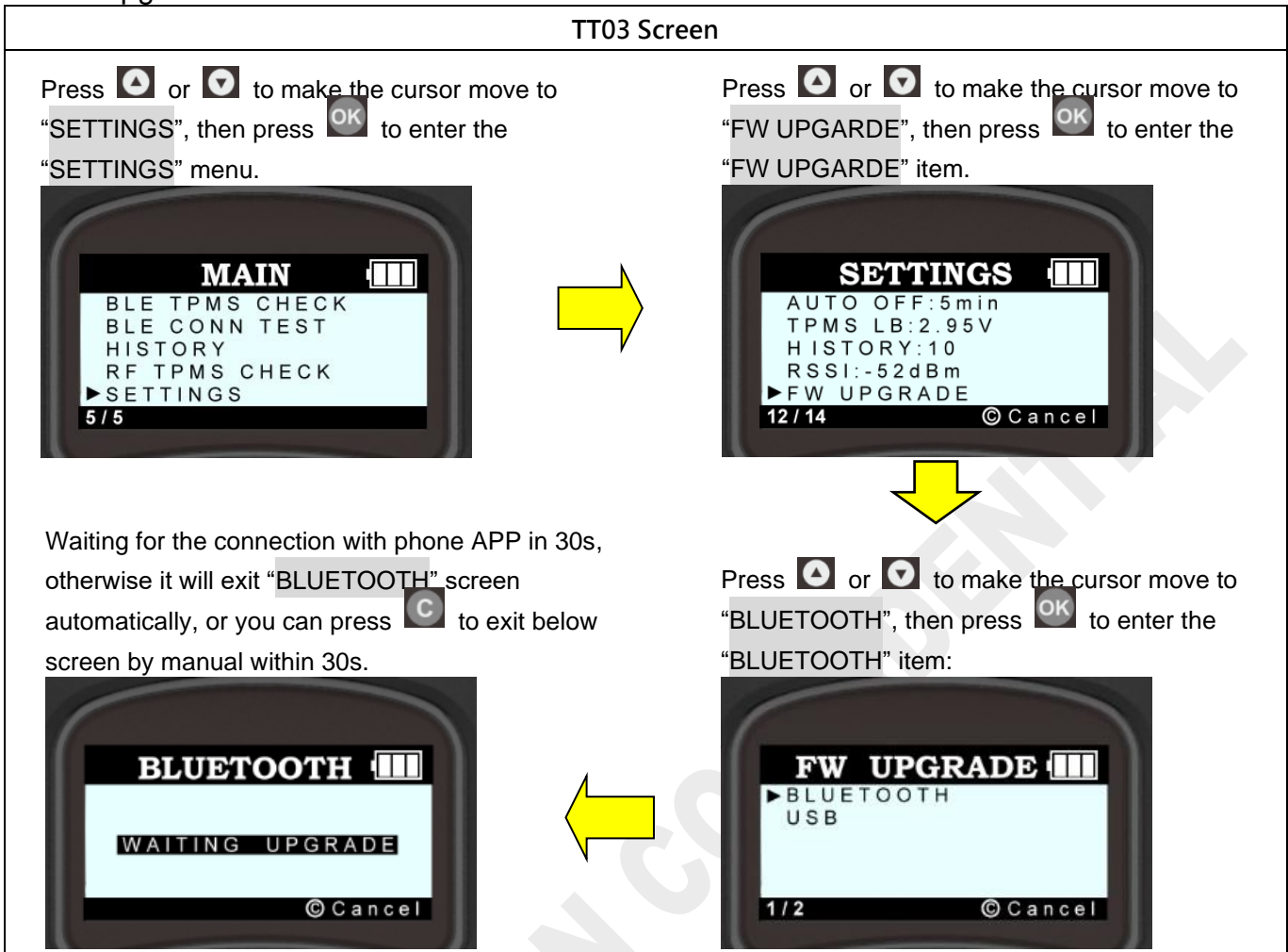




Press or to make the cursor move to "RSSI", then press to enter the "RSSI" item:

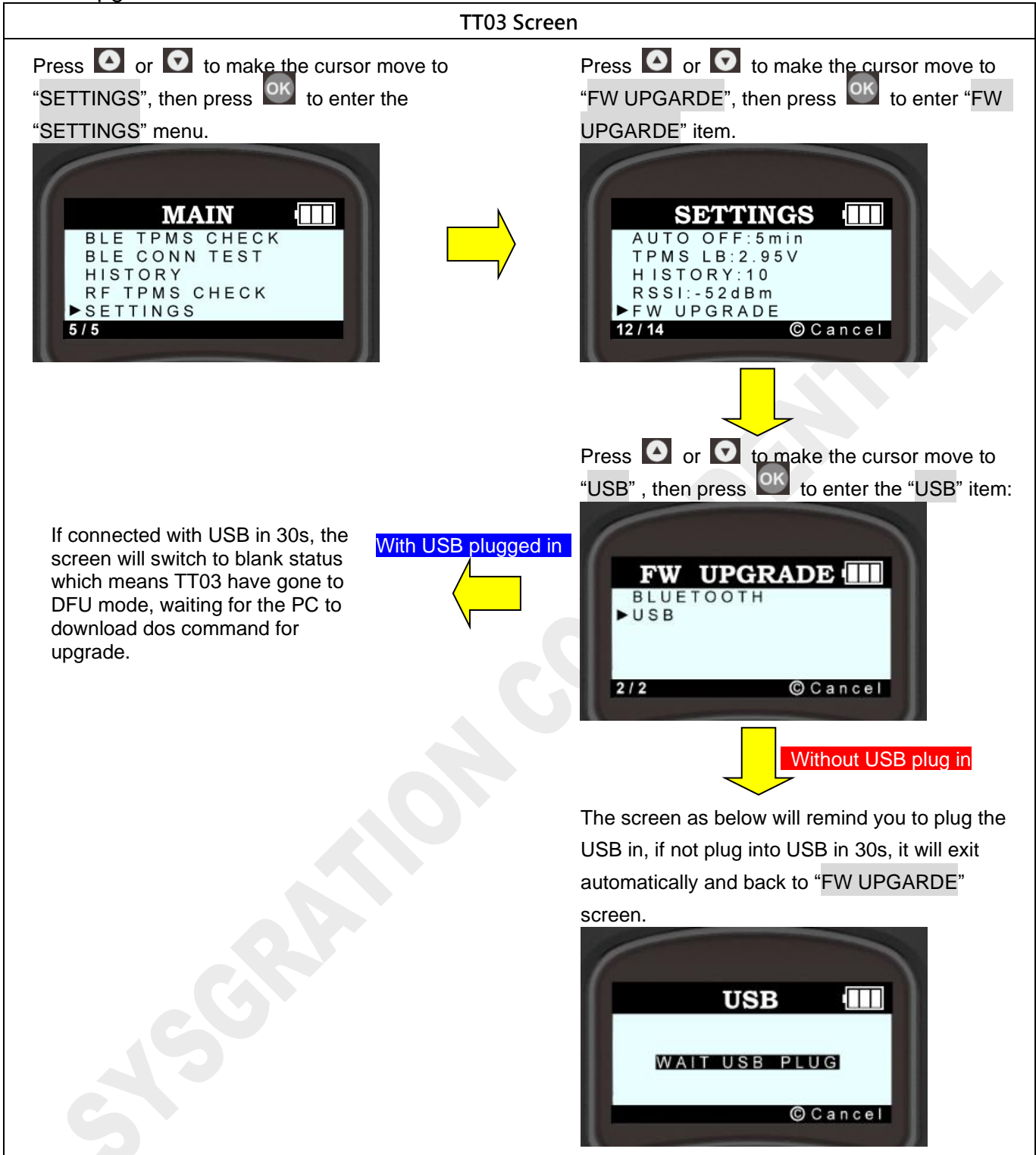



Press or to switch the following options ( ~ ), then press to exit the "RSSI" item.

● FW Upgarde – Thru BLUETOOTH:



● FW Upgrade – Thru USB:

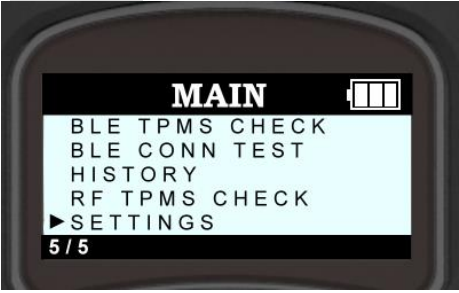
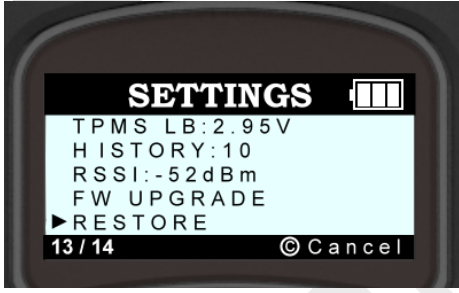



● Restore:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

Press or to make the cursor move to "RESTORE", then press to enter the "RESTORE" item:

(1) Press to reset to the default setting then it will exit "RESTORE" screen and back to "SETTINGS" screen automatically.

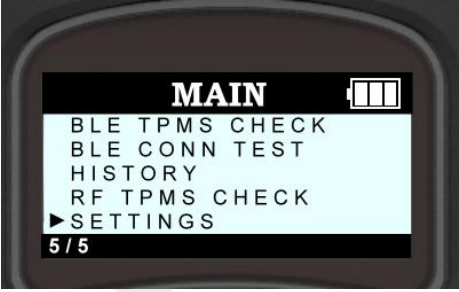
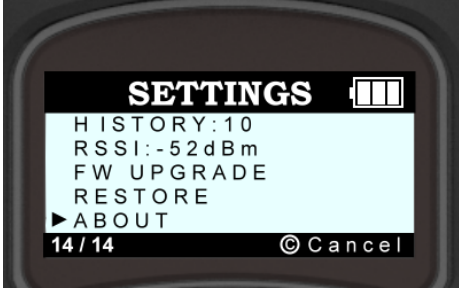

(2) Press to exit "RESTORE" screen.

● About screen:

**TT03 Screen**

Press or to make the cursor move to "SETTINGS", then press to enter the "SETTINGS" menu.

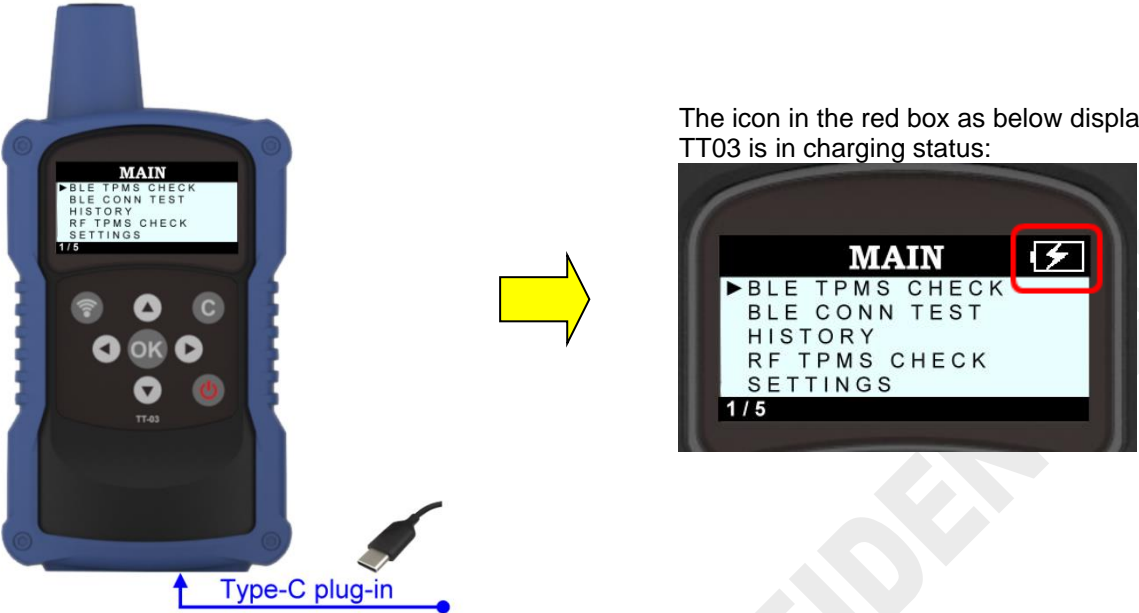
Press or to make the cursor move to "ABOUT", then press to enter the "ABOUT" screen:

The screen will display below information about TT03, you can exit "ABOUT" screen by pressing .

● USB Charging:

TT03 Screen



The icon in the red box as below display that TT03 is in charging status:

Type-C plug-in

MAIN  
▶ BLE TPMS CHECK  
BLE CONN TEST  
HISTORY  
RF TPMS CHECK  
SETTINGS  
1 / 5

MAIN  
▶ BLE TPMS CHECK  
BLE CONN TEST  
HISTORY  
RF TPMS CHECK  
SETTINGS  
1 / 5

The diagram illustrates the process of connecting a Type-C plug-in to the TT03 device. On the left, the device is shown with a blue Type-C cable plugged into its bottom port. A yellow arrow points to a close-up of the screen on the right. The screen displays the 'MAIN' menu with options: '▶ BLE TPMS CHECK', 'BLE CONN TEST', 'HISTORY', 'RF TPMS CHECK', and 'SETTINGS'. A red box highlights a lightning bolt icon in the top right corner of the screen, indicating that the device is in a charging status.

**Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- . Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- . Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- . Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

**FCC Radiation Exposure Statement**

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device complies with Industry Canada licence-exempt RSS 247, RSS 210, RSS-Gen standard.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.