FS44 Trigger Tool

Owner's Manual

With Flex-Sens's Flexibility Rest Assured Knowing that
You are Quality Insured

1. The Dedicated Tool

The FS44 is a specialized tool built just for the Flex-Sens with ATEQ quality. Key features of our Trigger tool include Light weight , easy hand ability and customized high signal strength allowing communication to be done with the TPMS while installed within the Tire. Functions of t he FS44 include, customized functions such as successive programming of multiple sensor and same ID programming avoidance.

2. Method of relearning TPMS ID

When coming across new ID's to be programmed to the ECU (Electric C ontrol Unit), the programming procedure will vary vehicle to vehicle. In the TPMS market each has its own type of procedures to be followed to correctly register its replacement TPMS.

The 3 common types of Relearn syst ems are listed below:

1. OBD2 Relearn

You need to write the ID of the new TPMS transmitter to the ECU. After reading the programmed Flex-Sens ID, connect the FS44 to the vehicle ECU with OBD2 unit and write the new transmitter ID to the ECU.

2. Auto Relearn/European Relearn

This type of relearn requires new IDs to be registered by driving the vehicle. Some case require the procedure to be started in the vehicle's computer board setting. For European relearn the vehicle needs to be reset before being driven. For the TPMS reset method, check the owners manual of each vehicle.

3. Manual Relearn

Each vehicle has its own specific procedure that puts the vehicle in a learn mode that allows it to recognize new IDs. For how to put the vehicle into learning mode, check the instruction manual of each vehicle.

Note1: If you program the Flex-Sens using the "Copy ID", "Manual ID" or "Retrieve ID" vehicle do not need to relearn the TPMS ID.

Note2: If there is uncertainty to what kind of relearn procedure should be done, please refer to the vehicles handbook.

3. What you can do with FS44

   Within the FS44 trigger tool, there are 4 processes that can be followed for exchanging the TPMS.

1. Create ID

Program Flex-Sens to match your vehicle. After the Flex-Sens program, it is necessary to register the transmitter ID in the vehicle (registration method is different for each vehicle).

2. Copy ID

Read the transmitter ID from the OE transmitter installed in the vehicle and program the Flex-Sens with the same ID as the OE transmitter (clone ID feature). No ID registration is required for the vehicle after the Flex-Sens program.
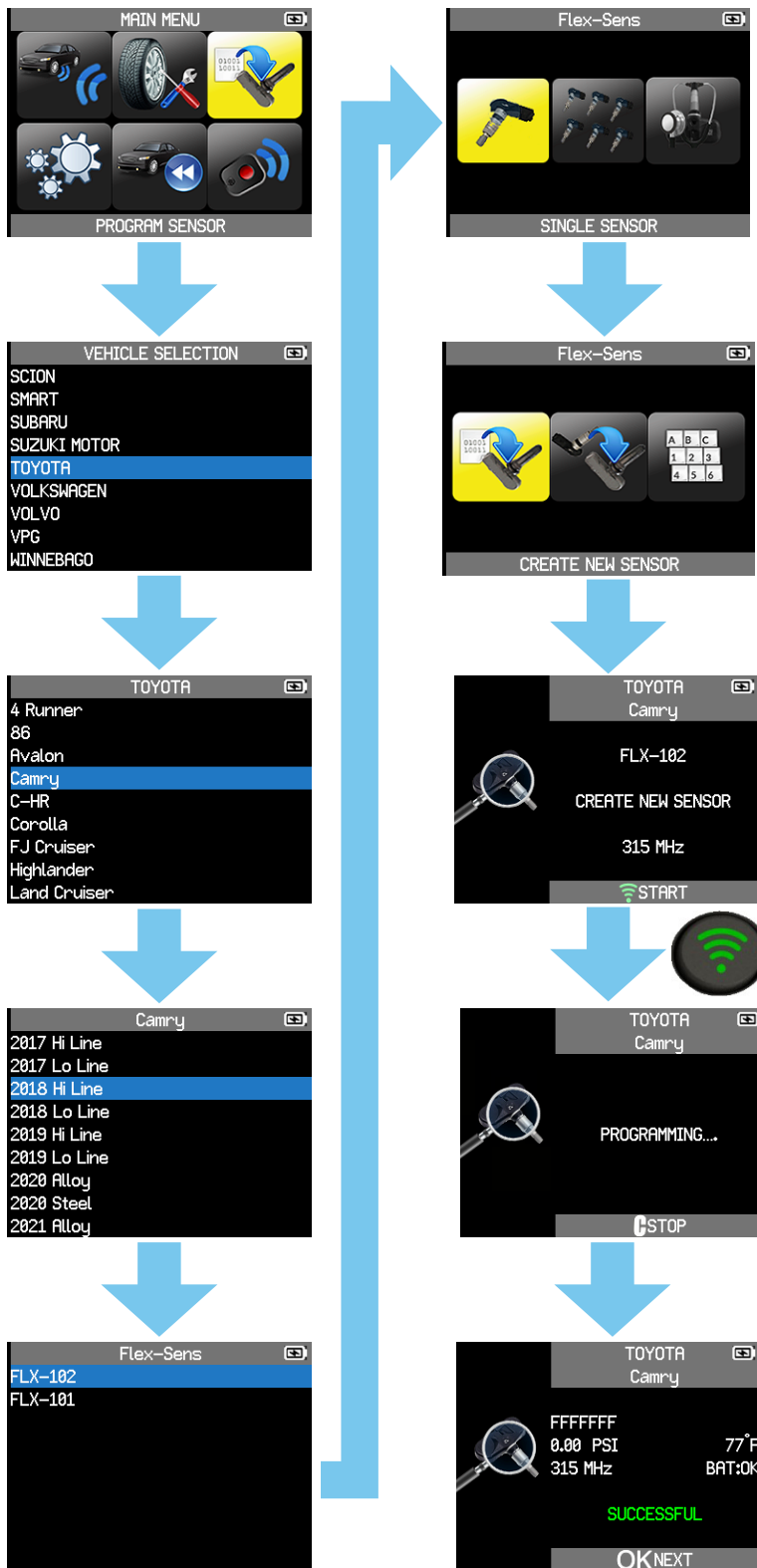
3. Manual ID

Enter the transmitter ID of the OE transmitter installed in the vehicle into the FS44 and program the Flex-Sens with the same ID as the OE transmitter (clone ID function). No ID registration is required for the vehicle after the Flex-Sens program.

4 Retrieve ID

Program the TPMS transmitter ID registered in the vehicle ECU (Electric Control Unit) to the Flex-Sens (clone ID function) (vehicles with OBD2 relearn function only). No ID registration is required for the vehicle after the Flex-Sens program.

3-1. For OE TPMS replacement using Create ID

MAIN MENU 🔋

PROGRAM SENSOR

Flex-Sens 🔋

SINGLE SENSOR

1. Select the "PROGRAM SENSOR" menu icon.

2. Select the appropriate make, model and year.

VEHICLE SELECTION 🔋

SCION
SMART
SUBARU
SUZUKI MOTOR
TOYOTA
VOLKSWAGEN
VOLVO
VPG
WINNEBAGO

Flex-Sens 🔋

CREATE NEW SENSOR

3. In the case of 1 TPMS, select the "SINGLE icon then select the "CREATE NEW SENSOR" icon.

4. Use the displayed Flex-Sens part number.

TOYOTA 🔋

4 Runner
86
Avalon
Camry
C-HR
Corolla
FJ Cruiser
Highlander
Land Cruiser

TOYOTA 🔋
Camry

FLX-102

CREATE NEW SENSOR

315 MHz

📶START

5. Face the trigger towards the Flex-Sens, then press the "Green signal". Following this procedure "Successful" will be displayed.

6. I nstall the programmed sensor into the Tire.

7. Follow the appropriate Relearn procedure for registering the TPMS to the vehicle.

Camry 🔋

2017 Hi Line
2017 Lo Line
2018 Hi Line
2018 Lo Line
2019 Hi Line
2019 Lo Line
2020 Alloy
2020 Steel
2021 Alloy

TOYOTA 🔋
Camry

PROGRAMMING...

↻STOP

Note1: If the relearn procedure is OBD2, continue from step 3 from the "CHECK SENSOR" menu icon by scanning each Tires TPMS then connecting the OBD2 cable to the ECU port for programming.

Flex-Sens 🔋

FLX-102
FLX-101

TOYOTA 🔋
Camry

FFFFFFF
0.00 PSI   77°F
315 MHz   BAT:OK

SUCCESSFUL

OK NEXT

Note2: After scanning each sensor through the "CHECK SENSOR" menu icon, rechecking if the Tire has the correct TPMS installed can be viewed.

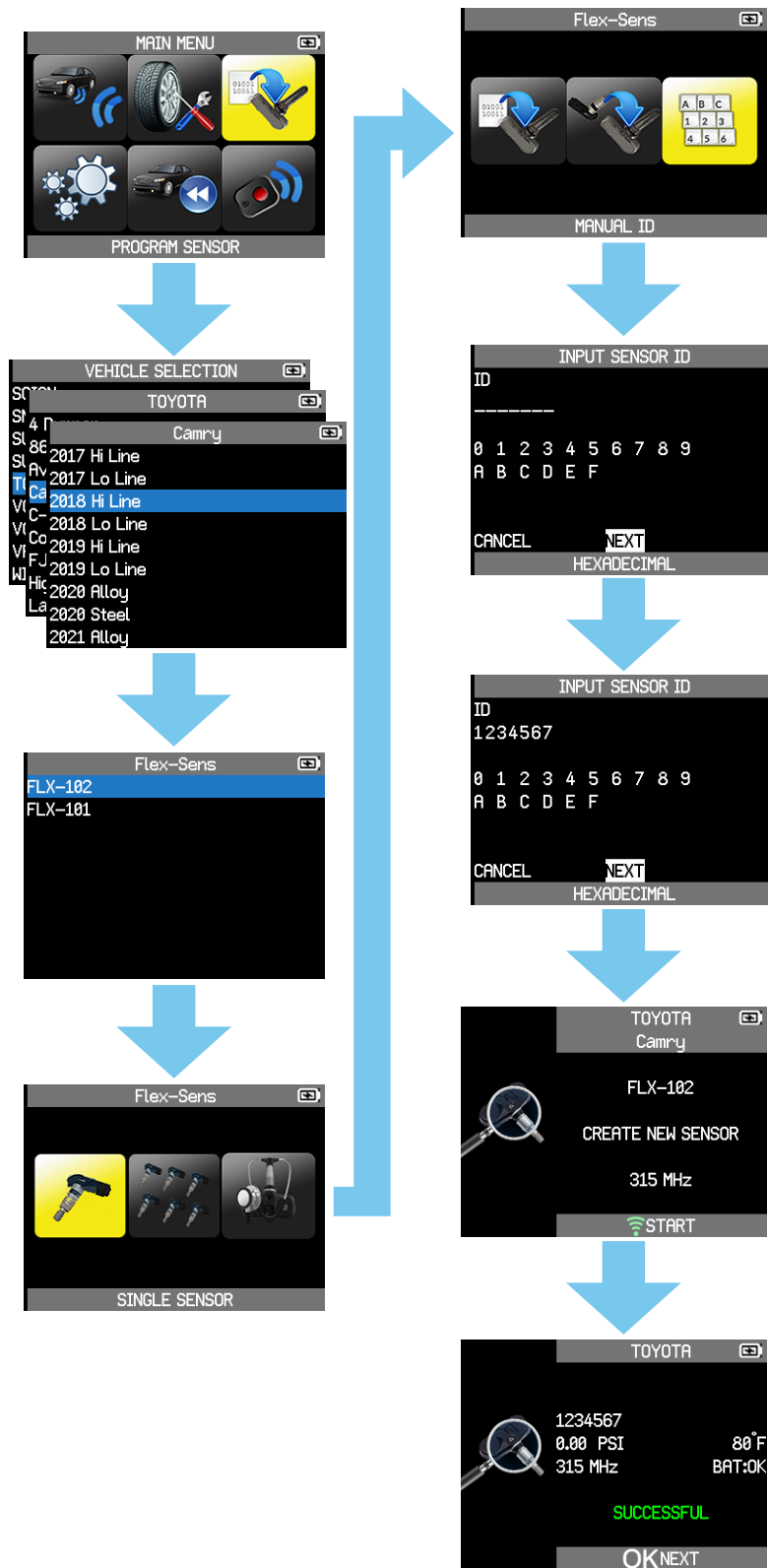# 3-2. For OE TPMS replacement using Copy ID

1. Select the "PROGRAM SENSOR" menu icon.

2. Select the appropriate make, model and year.

3. In the case of 1 TPMS, select the "SINGLE SENSOR" icon,

4. then select the "COPY ID" icon

5. Read the original TPMS ID by pressing the Green signal "Green signal " button.

6. Copy the read ID to the replacement by pressing the"Green signal " button signal button towards the Flex-Sens with part number displayed on FS44. Following this procedure "Sucsessful" will be displayed.

7. After program ming install back to original location of the OE's ID. (No relearning required)

Note: In the case of multiple sensors being programmed select "MULTIPLE SENSORS" then select the number of wheels required. Select the "COPY SET OF SENSORS" read each sensor's ID that is being replaced in correspondence to the location being displayed in the top left corner of the screen. The new TPMS can be programmed consecutively by pressing both the "Green signal" button and the "OK" button.

3-3. For OE TPMS replacement using Manual ID

MAIN MENU
PROGRAM SENSOR

VEHICLE SELECTION
TOYOTA
Camry
2017 Hi Line
2017 Lo Line
2018 Hi Line
2018 Lo Line
2019 Hi Line
2019 Lo Line
2020 Alloy
2020 Steel
2021 Alloy

Flex-Sens
FLX-102
FLX-101

Flex-Sens
SINGLE SENSOR

Flex-Sens
MANUAL ID

INPUT SENSOR ID
ID
----
0 1 2 3 4 5 6 7 8 9
A B C D E F
CANCEL   NEXT
HEXADECIMAL

INPUT SENSOR ID
ID
1234567
0 1 2 3 4 5 6 7 8 9
A B C D E F
CANCEL   NEXT
HEXADECIMAL

TOYOTA
Camry
FLX-102
CREATE NEW SENSOR
315 MHz
START

TOYOTA
1234567
0.00 PSI   80°F
315 MHz   BAT:OK
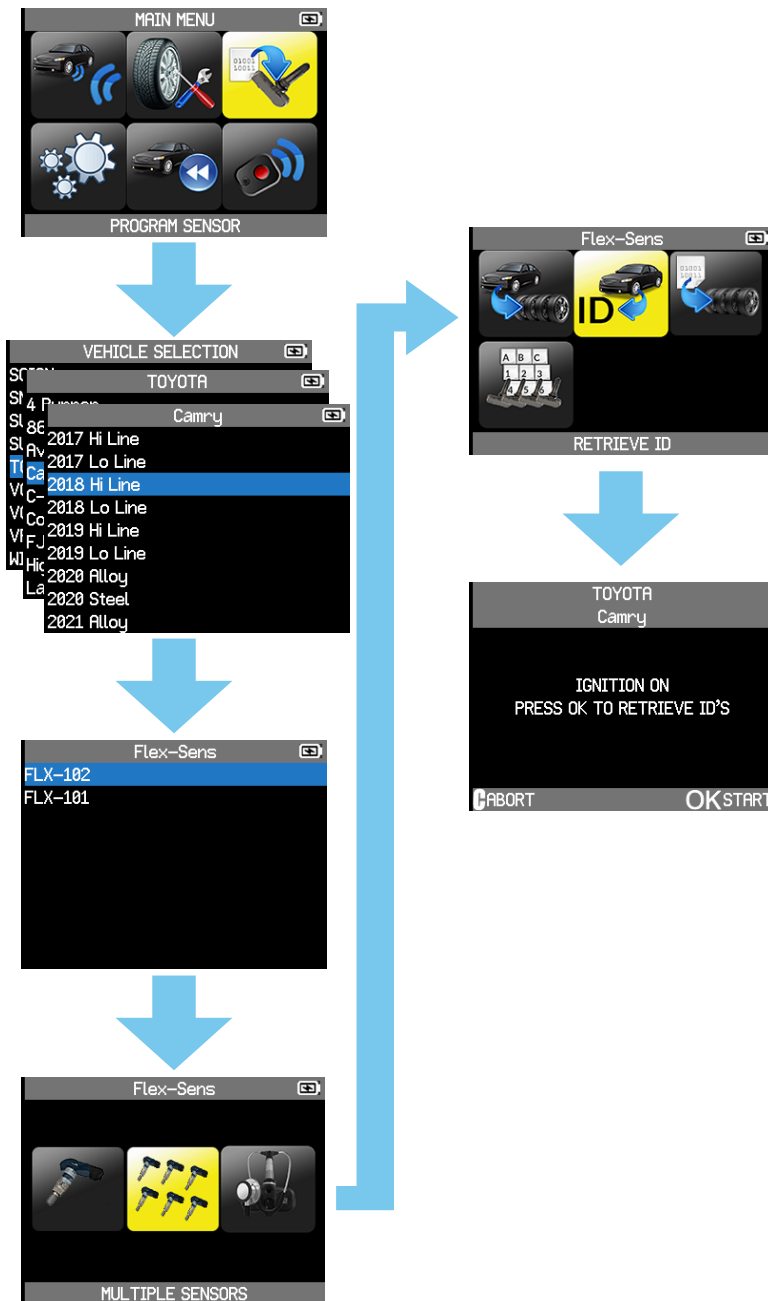SUCCESSFUL
OK NEXT

1. Select the "PROGRAM SENSOR" menu icon.

2. Select the appropriate make, model and year.

3. In the case of 1 TPMS, select the "SINGLE SENSOR" icon then select the "MANUAL ID" icon.

4. Input the TPMS's ID written on the transmitterinto the FS44. Program the ID to the replacement TPMS while facing the trigger towards Flex-Sens and press the Green signal button Following thisn procedure will be displayed.

5. After program ming install back to original location of the OE's ID. (No relearning required)

Note: In the case of multiple sensors being programmed select "MULTIPLE SENSORS" then input each sensor's ID that is being replaced in correspondence to the location being displayed in the top left corner of the screen. The new TPMS can be programmed consecutively by pressing both the "Green signal button and the "OK" button.

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3-4. For OE TPMS replacement using Manual ID

MAIN MENU

PROGRAM SENSOR

VEHICLE SELECTION

TOYOTA

Camry

2017 Hi Line
2017 Lo Line
2018 Hi Line
2018 Lo Line
2019 Hi Line
2019 Lo Line
2020 Alloy
2020 Steel
2021 Alloy

Flex-Sens

FLX-102
FLX-101

Flex-Sens

MULTIPLE SENSORS

Flex-Sens

ID

RETRIEVE ID

TOYOTA
Camry

IGNITION ON
PRESS OK TO RETRIEVE ID'S

ABORT   OK START

1. Plug in the OBD2 cable into the FS44 and into the ECU port.

2. Obtain the TPMS ID registered in the vehicle.

3. Program the acquired ID into Flex-Sens.

4. After running the program, reinstall Flex-Sens in the original location of the OE ID. (No re-learning required)
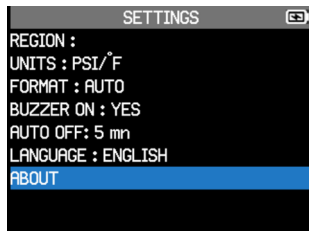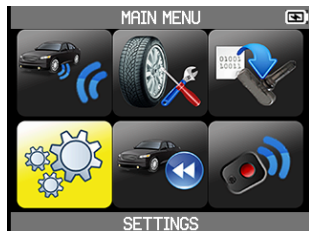
For more information on switching models and assembling Flex-Sens to Tires, visit the "How to" tab on our website and watch videos and more. (http://flex-sens.com)

Any questions may be direct-ed to our online question form. (flex-sens@pacific-ind.com)

4. FS44 version confirmation

The trigger tool software version should be verified when the transmitter is warranty replaced or the trigger tool software is updated.

Follow the steps below to check the software version of the trigger tool.

1. Select "SETTINGS" in the main menu.

2. Select "ABOUT"

3. Record the following information displayed (within the red frame).

   Ⅰ. Software version

   Ⅱ. Database version