

# Unlock ECU Function User Guide

# Background

- Some older Toyotas and Lexus models are equipped with a TPMS Reset button and local receivers at the wheels.
- When the TPMS Reset button is pressed for more than 3 seconds, the local receivers are turned on and they will search for TPMS IDs. However, if a local receiver cannot get the response signal because a TPMS sensor is faulty, broken or has been removed or replaced by a sensor with a new ID, the car ECU will enter into a loop because it cannot find the previously stored sensor ID. Under such a loop, the OBD reading and writing will fail. This is an error coming from the manufacturer itself.
- The Unlock ECU function in the Cub OBD Module serves to free the car ECU from such a loop so that new IDs can be written into the ECU via OBD II.

# Background (continued)

- An older Toyota or Lexus needs its ECU to be unlocked if, when attempting an OBD relearn on it, the tool screen displays any of the following two scenarios:
  - The 4 wheel screen is shown on the tool a few seconds after having pressed on Write Car ID, or
  - Read Errors E1, E2 or Write Errors E1, E2, E3 are shown on the tool after having pressed on Read Car ID or Write car ID.

# 1. Check the Coverage List

- The MMYs with the Unlock ECU function are marked with a “Y (Unlock Enable)” under the column “OBD II (CUB Module SUPPORT)”

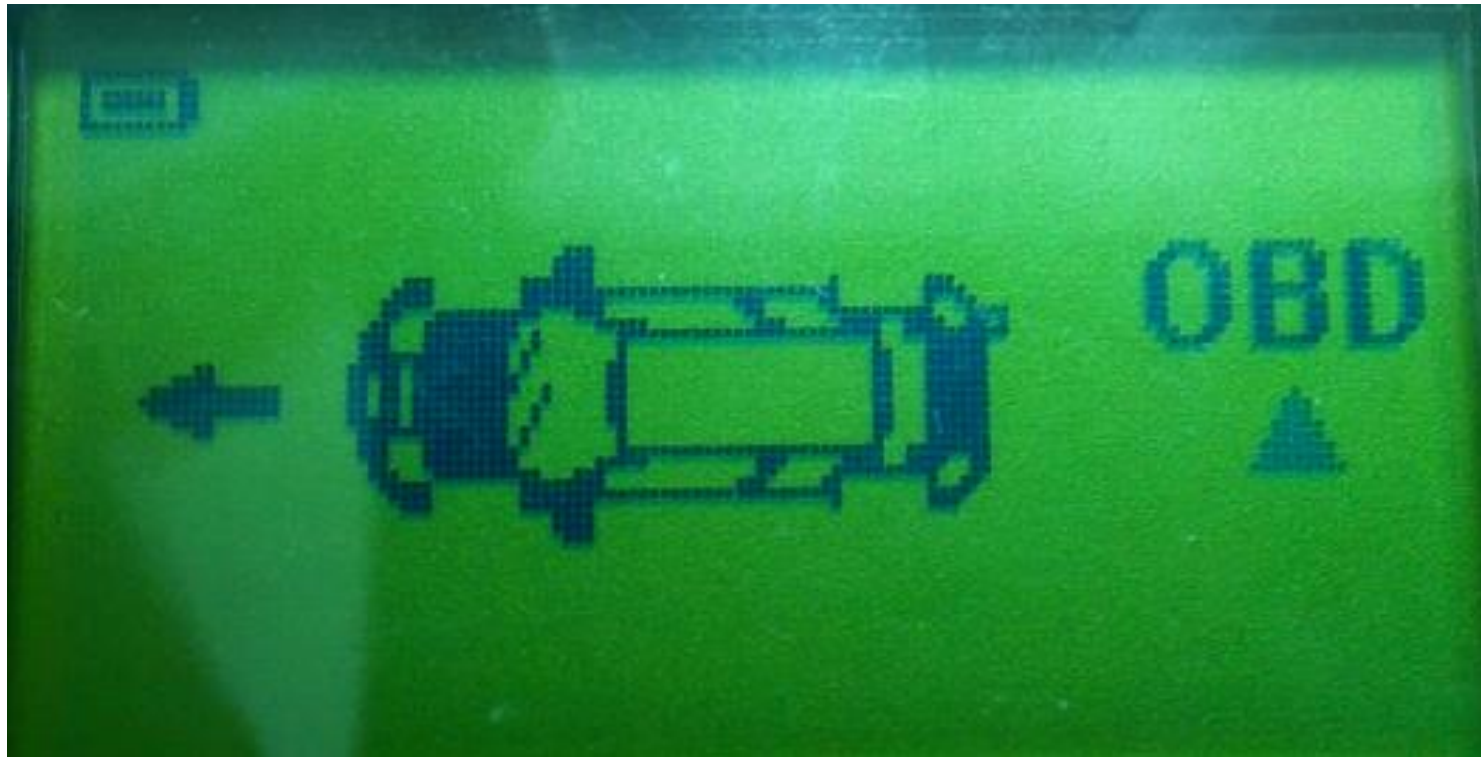
CUB TPMS Application Chart							
MAKE	MODEL	Model code	Start Year	End Year	Manufacturer Sensor #	Number on Sensor #	OBD II (CUB Module SUPPORT)
LEXUS	GS	S190/L10	01/2005	12/2011			Y (Unlock Enable)
LEXUS	LS	XF40	08/2006	12/2009			Y (Unlock Enable)
LEXUS	RX	XU30/AL10	2006	2010			Y (Unlock Enable)
TOYOTA	RAV 4	XA30	11/2005	12/2012			Y (Unlock Enable)

## 2. Select the MMY and its OBD Function

- For example, Lexus GS 01/2005 – 12/2011

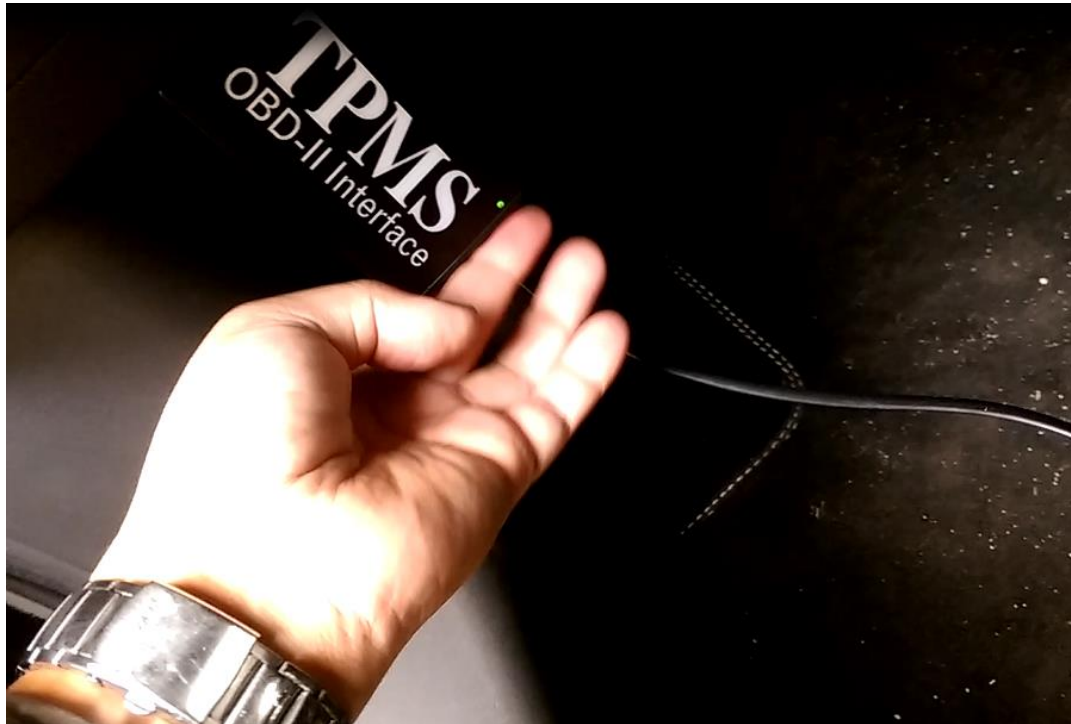


### 3. Select OBD



### 3. Select Unlock ECU

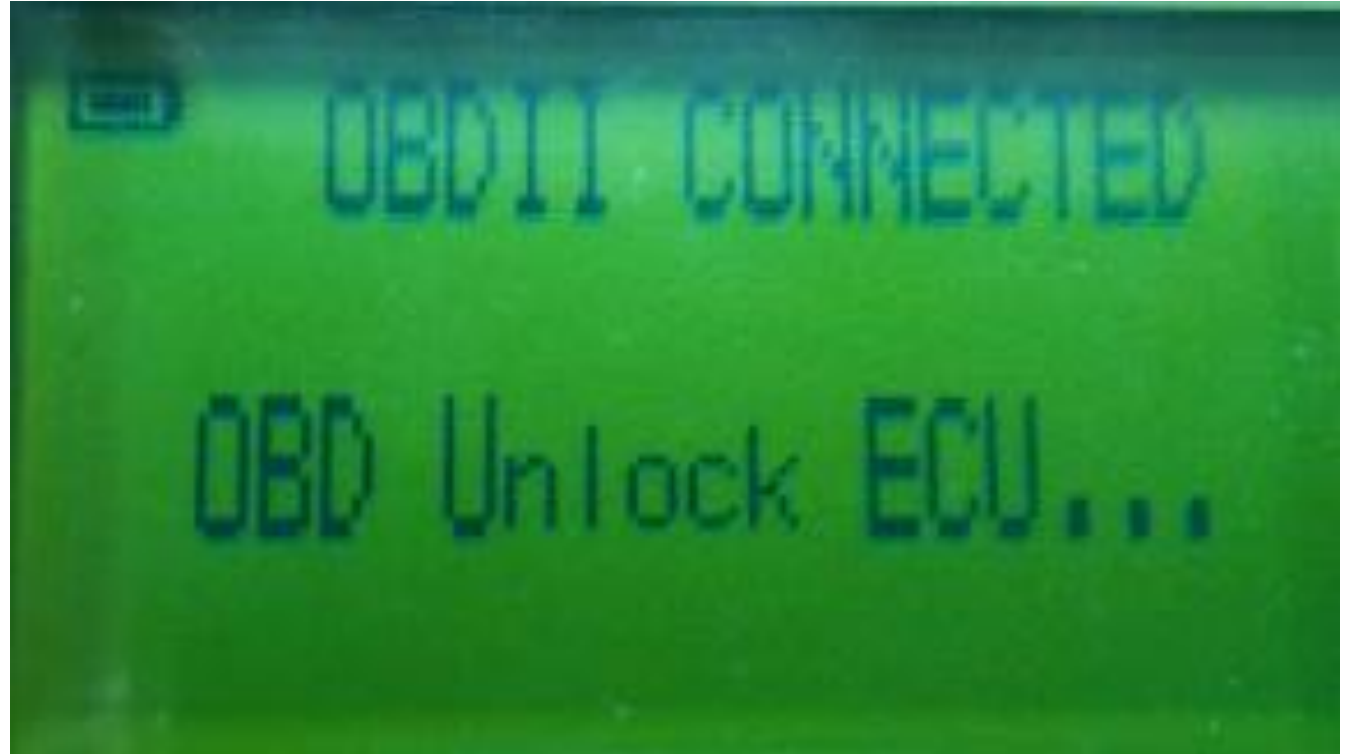
- At this stage, connect first the Sensor-Aid to the OBD Module and then OBD Module to OBD port, and make sure the ACC is on. Then press Enter on the tool.





## 4. Wait while the ECU is unlocked

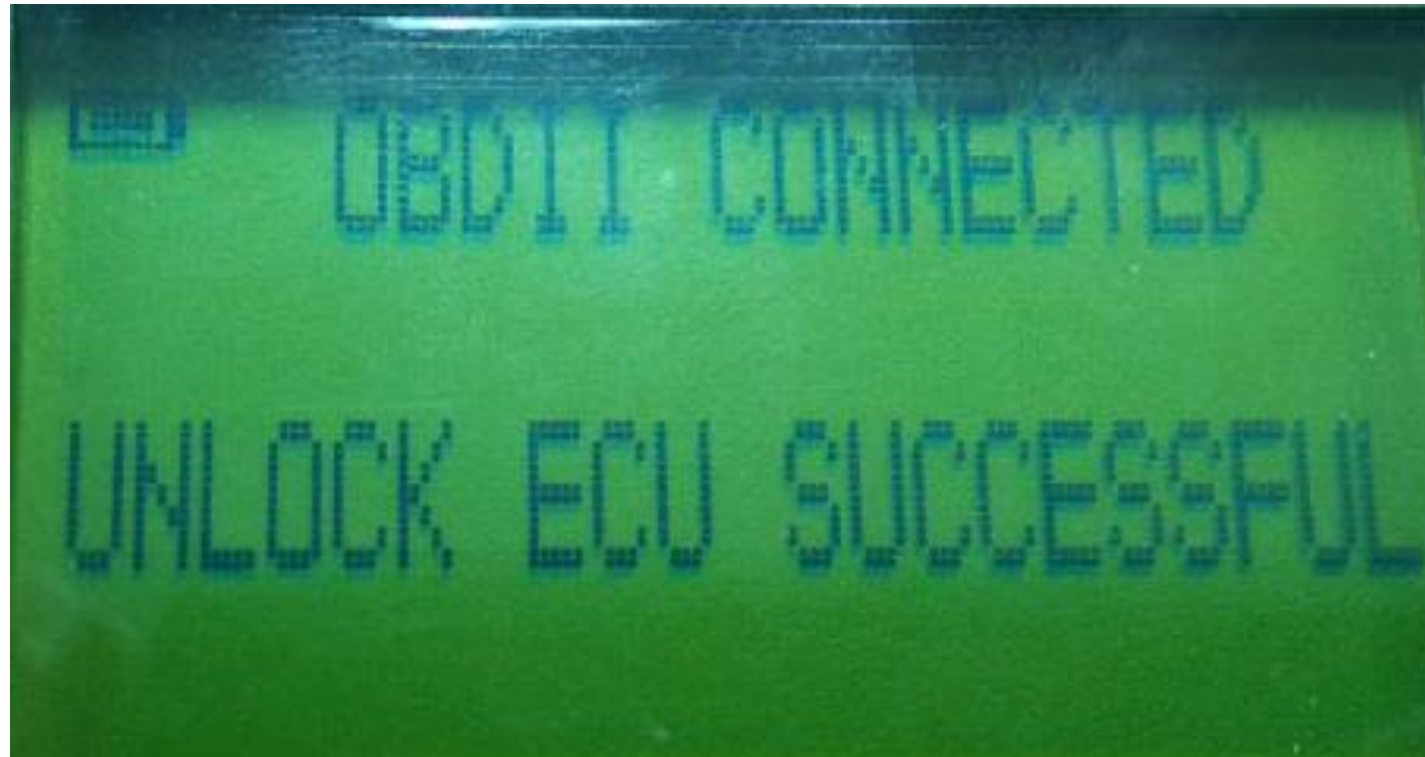
- The dashboard lights will start blinking. The process takes around 30 seconds.





## 5. ECU is unlocked successfully

- After the 30 seconds, a confirmation message will be shown on the tool display and the dashboard lights will stop blinking.



## 6. Attempt again the OBD Writing

- The tool display will go back to the 4 wheel display by default. Press enter here to go into the OBD II function menu.



## 6. Attempt again the OBD Writing (continued)

- Select again the OBD Writing function and attempt again the OBD relearn procedure as usual. This time it should work successfully.



Congratulations! You are  
now ready to use the  
Unlock ECU Function



# TPMS



GPS+  
TPMS



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