

## MAX TPMS Beginners Guide

### How to Program Sensor (Create New Sensor)

1. Select PROGRAM SENSOR on Main Menu
2. Select Vehicle Make
3. Select Vehicle Type
4. Select Vehicle Year
5. Select Create Sensor
  - a. Point Tool at sensor and press START
  - b. Do not move tool or sensor until it's done deleting, uploading, and verifying that sensor information programming has been completed.
  - c. TIP: Make sure no other sensors or wireless devices such as cellular phones and wireless routers around the sensor you're programming. This causes error due to signal interference and the tool not recognizing which sensor it's trying to program.
  - d. TIP: Signal strength is stronger on left side of antenna. Point sensors towards left side of antenna when programming or checking sensors.

### How to Clone an Existing Sensor

1. Select PROGRAM SENSOR on Main Menu
2. Select Vehicle Make
3. Select Vehicle Type
4. Select Vehicle Year
5. Select COPY ID
  - a. Point tool at sensor you'd like to clone.
  - b. Press START and DO NOT move sensor or tool until it's done copying sensor information
  - c. Once existing sensor information has been copied to tool, place blank sensor next to tool and press START. DO NOT move sensor or tool until it's done uploading and verifying cloning has been complete.

### How to Check Sensor

1. Select CHECK SENSOR on Main Menu
2. Select Vehicle Make
3. Select Vehicle Type
4. Select Vehicle Year
5. Use arrows on tool to select which wheel/sensor you'd like to check.

6. Place tool next to wheel, where valve stem/sensor is located and press START
  - a. The small white box titled TX will start blinking. This means information is being transmitted from tool.
  - b. Hold tool in the same position next to wheel until you receive a response.
  - c. Either the tool will verify/check that a sensor is active with the tire's current PSI or tool will respond with NO SENSOR DETECTED.

### **How to Relearn Sensors to Vehicle**

1. Select SERVICE TPMS on Main Menu
2. Select Vehicle Make
3. Select Vehicle Type
4. Select Vehicle Year
5. Select your preferred Relearn method: OBDII RELEARN or MANUAL RELEARN (if available)
  - a. Read the instructions on the screen and press OK to start Relearn protocol
  - b. Please follow EXACT instructions on the following screens. Any deviation from steps on tool will cause OBDII/Manual Relearn failure.
  - c. TIP: DO NOT plug OBDII into vehicle before tool specifically asks you to.
  - d. TIP: DO NOT turn on engine when tool asks you for IGNITION ON. Only turn vehicle to IGNITION ON position.

### **How to UPDATE TOOL**

1. Launch your web browser and go to the following website:  
  
<https://www.max-sensor.com/software-updates/>  
  
[https://www.ateq-tpms.com/wp-content/uploads/2016/09/WebVT\\_V8004.zip](https://www.ateq-tpms.com/wp-content/uploads/2016/09/WebVT_V8004.zip)
2. Download app and install on computer.
3. Connect MAX Tool to computer using the USB cord provided.
4. Click UPDATE TOOL and allow app to upload and complete tool programming. DO NOT disconnect until update is 100% complete.
5. Please disable any firewalls or admin locks on your computer if you have them as this will cause drivers to improperly install.

### **Online Video Tutorials**

<https://www.max-sensor.com/tutorials/>

# MAX TPMS Troubleshooting Guide

**\*Please begin every troubleshooting inquiry with the following questions:**

1. What version of our software are you running? Tool should be updated to most recent software patch -Check MAX Sensor website for updates.
2. What year is the vehicle? Use VIN for absolute verification on Year. The placard on door is not accurate. i.e. vehicles manufactured in 2015 may actually be "2016" model. <https://jalopnik.com/5165656/how-to-read-a-cars-vin>
3. Is the tire pressure inflated to what is stated on vehicle placard?
4. Is the TPMS light flashing or solid? Flashing means TPMS system fault (sensors not working with car). Solid light means air pressure is low and/or TPMS hard reset button must be activated (Toyota/Honda).

**OBDII Relearn won't initiate when you press START (frozen on start screen).**

- OBDII was plugged into the vehicle before triggering sensors. You must follow relearn protocol exactly by triggering the sensors, then connecting OBDII module to tool, and then to the vehicle.
- OBDII indicator light must be GREEN. Red indicates error.
- Ignition On – DO NOT start the engine. Only turn vehicle to IGNITION ON position.

**MAX Tool will not trigger sensors inside wheel.**

- Low Battery Power – Low power battery may affect the strength of the signal from our tool. Please charge battery.
- Signal strength is stronger on left side of antenna. Point sensors towards left side of antenna when programming or checking sensors.

**37"+ Tires - Relearn outside of wheel before installation.**

- Tires 37" and bigger may require sensors to be programmed and relearned outside of the wheel. Place the sensors on top of the tires and run through the relearn process. Install sensors into wheel after they've been relearned.

### **Manual relearn options**

- Some manufacturers have more than one option for vehicle relearns i.e. OBDII and traditional Manual Relearns are available. Select your preferred method. Many prefer using Manual Relearns over OBDII.

### **Auto-Relearn Fail** – Vehicles with auto-relearn will not sync with sensors

- Park the vehicle after sensor install and let the vehicle sit for 15 minutes (IGNITION ON, Engine OFF) without movement before initiating drive. Setting vehicle in motion immediately after sensor install prolongs sensor calibration.

### **Sensor and Wireless Device Interference**

- Proximity of wireless devices and other sensors may interfere with programming and triggering with certain vehicles. Please keep select sensor 5 feet distance from other sensors and wireless devices during programming. This may lead to programming errors.



VIN

1ZVHT82H485113456

**MAKE**

**VEHICLE FEATURES**

**VERIFYING #**

**MODEL YEAR**

**ASSEMBLY PLANT**

**SEQUENCE OF MODEL PRODUCTION**

A	<b>1980</b>	L	<b>1990</b>	Y	<b>2000</b>	A	<b>2010</b>
B	1981	M	1991	1	2001	B	2011
C	1982	N	1992	2	2002	C	2012
D	1983	P	1993	3	2003	D	2013
E	1984	R	1994	4	2004	E	2014
F	1985	S	1995	5	2005	F	2015
G	1986	T	1996	6	2006	G	2016
H	1987	V	1997	7	2007	H	2017
J	1988	W	1998	8	2008	J	2018
K	1989	X	1999	9	2009	K	2019

Tip for all Dodge RAM auto-relearns

**How to Auto-Relearn on Dodge RAM:**

1. Program sensors, install in wheels, and inflate all tires to proper PSI that's stated on placard
2. Turn IGNITION ON (Engine OFF)
3. LOWER DRIVER SIDE WINDOW OF VEHICLE all the way down
4. Select SERVICE TPMS in Main Menu
5. Select Vehicle Make, Vehicle Type, Vehicle Year
6. Select MANUAL RELEARN
7. After reading instructions on screen, press the OK button
8. Select number of wheels
9. Scan all sensors
10. Let vehicle sit with IGNITION ON (Engine OFF) for 20 minutes
11. Drive for up to 20 minutes

All 2004-2009 Toyota/Lexus/Scion's have an ECU lock causing "TPMS lost communication"

**How to UNLOCK ECU on Toyota/Lexus/Scion Vehicles**

1. Select SERVICE TPMS on Main Menu
2. Select Vehicle Make
3. Select Vehicle Type
4. Select Vehicle Year
5. Select UNLOCK ECU
  - a) Please follow EXACT instructions on the following screens.
  - b) Connect OBDII module to tool and then to vehicle OBDII port.
  - c) TIP: DO NOT plug OBDII into vehicle before tool specifically asks you to.
  - d) TIP: DO NOT turn on engine when tool asks you for IGNITION ON. Only turn vehicle to IGNITION ON position.

# Tire Pressure Monitoring System (TPMS) Tire Registration "Lost Communication With ECU"

**Service Category** Suspension

**Section** Tire Pressure Monitoring

**Market** USA

Toyota Supports  
 ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2004 – 2009	4Runner	
2007 – 2009	Avalon, Camry, Camry HV, RAV4, Sienna	
2008 – 2009	Corolla, FJ Cruiser, Highlander, Highlander HV, Matrix, Yaris	
2006 – 2009	Land Cruiser, Prius, Tacoma	
2005 – 2009	Sequoia, Tundra	
2007 – 2009	Solara	

## Introduction

The purpose of this bulletin is to provide procedures on Tire Pressure Monitoring System sensor registration when Lost Communication With ECU appears on the Techstream display.

This condition may occur when trying to register one or more sensors. Follow the procedures in this bulletin to properly register TPMS sensors.

## Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* NOTE: Software version 4.00.017 or later is required.	ADE	TSPKG1	1

\* Essential SST.

### NOTE

Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

# Tire Pressure Monitoring System (TPMS) Tire Registration "Lost Communication With ECU"

## Required Tools & Equipment (Continued)

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Jumper Wire	<a href="#">09843-18040</a>	1

\* Essential SST.

**NOTE**  
 Additional SSTs may be ordered by calling 1-800-933-8335.

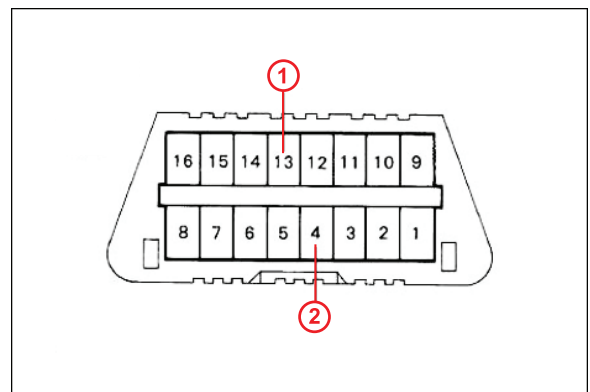
## Warranty Information

OP CODE	DESCRIPTION	TIME	OPF	T1	T2
N/A	Not Applicable to Warranty	—	—	—	—

## Repair Procedure

1. Connect TIS Techstream to the vehicle
2. Turn the ignition switch to the "IG-ON" position.
3. Select the datalist for the Tire Pressure Monitoring System.
4. Check and set all tire pressures to specification with an accurate tire pressure gauge and compare the information to what is displayed on the datalist.
5. After checking the tire pressure, record the TPMS sensors ID numbers.
6. With the vehicle set to "IG-ON" mode, disconnect the TIS Techstream.
7. Using Jumper wire or equivalent, connect terminals TC and CG at the DL3 connector for at least 30 seconds. Do not cycle the ignition switch to "OFF" position during this step. (Landcruiser use TC and E1 at DLC1)

**Figure 1.**



<b>1</b>	TC
<b>2</b>	CG

## Tire Pressure Monitoring System (TPMS) Tire Registration "Lost Communication With ECU"

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### Repair Procedure (Continued)

8. Once 30 seconds have passed, with the vehicle still in "IG-ON" mode, remove the jumper wire.
9. Connect TIS Techstream and begin the registration process.

**NOTE**

If "Lost Communication With ECU" appears during the registration process, then terminals TC and CG were not connected properly or the key was cycled during this process.

10. After registration has been performed, leave TIS Techstream connected and confirm that the tire pressures are reading correctly and the threshold pressures show a difference of 5 to 7psi less than the inflation pressure. For vehicles with a TPMS reset switch, press and hold the reset switch to begin the initialization process.
11. After tire pressures and threshold pressures display on the datalist, adjust all tire pressures in relation to the expected changes in ambient temperatures.

**NOTE**


Please refer to TSB [T-SB-0345-08](#) for tire inflation pressure compensation and adjustment procedures.

# Tire Pressure Monitoring System (TPMS) Tire Registration and "Lost Communication with ECU"

**Service Category** Suspension

**Section** Tire Pressure Monitoring

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2009	ES350, LS460, LS600H	
2006 – 2009	GS300, GS350, IS250, IS350, LX470, LX570, RX350, RX400H	
2006 – 2007	GS430	
2008 – 2009	GS450H, IS F	
2008 – 2009	GS460	
2004 – 2009	GX470	
2007 – 2009	SC430	

## Introduction

The purpose of this bulletin is to provide procedures on Tire Pressure Monitoring System sensor registration when "Lost Communication With ECU" appears on the Techstream display.

This condition may occur when trying to register one or more sensors. Follow the procedures in this bulletin to properly register TPMS sensors.

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

## Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* NOTE: Software version 4.00.017 or later is required.	ADE	TSPKG1	1



# Tire Pressure Monitoring System (TPMS) Tire Registration and "Lost Communication with ECU"

## Required Tools & Equipment (Continued)

\* Essential SST.

**NOTE**  
 Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Jumper Wire	<a href="#">09843-18040</a>	1

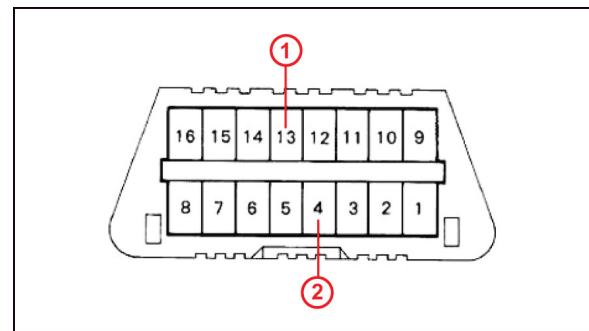
\* Essential SST.

**NOTE**  
 Additional SSTs may be ordered by calling 1-800-933-8335.

## Repair Procedure

1. Connect TIS Techstream to the vehicle.
2. Turn the ignition switch to the "IG-ON" position.
3. Select the datalist for the Tire Pressure Monitoring System.
4. Check and set all tire pressures to specification with an accurate tire pressure gauge and compare the information to what is displayed on the datalist.
5. After checking the tire pressure, record the TPMS sensors ID numbers.
6. With the vehicle set to "IG-ON" mode, disconnect the TIS Techstream.
7. Using Jumper wire or equivalent, connect terminals TC and CG at the DL3 connector for at least 30 seconds. Do not cycle the ignition switch to "OFF" position during this step. (LX470 use TC and E1 at DLC1)

Figure 1.



<b>1</b>	<b>Tc</b>
<b>2</b>	<b>CG</b>

8. Once 30 seconds have passed, with the vehicle still in "IG-ON" mode, remove the jumper wire.

## Tire Pressure Monitoring System (TPMS) Tire Registration and "Lost Communication with ECU"

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### Repair Procedure (Continued)

9. Connect TIS Techstream and begin the registration process.

**NOTE**

If "Lost Communication With ECU" appears during the registration process, then terminals TC and CG were not connected properly or the key was cycled during this process.

10. After registration has been performed, leave TIS Techstream connected and confirm that the tire pressures are reading correctly and the threshold pressures show a difference of 5 to 7psi less than the inflation pressure. For vehicles with a TPMS reset switch, press and hold the reset switch to begin the initialization process.
11. After tire pressures and thresholds pressures display on the datalist, adjust all tire pressures in relation to the expected changes in ambient temperatures.

**NOTE**

Please refer to TSIB [L-SB-0154-08](#) for tire inflation pressure compensation and adjustment procedures.

S-SB-0013-09


March 12, 2009

# Tire Pressure Monitoring System (TPMS) Tire Registration & "Lost Communication With ECU"

**Service Category** Suspension

**Section** Tire Pressure Monitoring

**Market** USA

Scion Supports ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2007 – 2009	tC	
2008 – 2009	xB	
2008 – 2009	xD	

## Introduction

The purpose of this bulletin is to provide procedures on Tire Pressure Monitoring System sensor registration when “Lost Communication With ECU” appears on the Techstream display.

This condition may occur when trying to register one or more sensors. Follow the procedures in this bulletin to properly register TPMS sensors.

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

## Required Tools & Equipment

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream* NOTE: Software version 4.00.017 or later is required.	ADE	TSPKG1	1

\* Essential SST.

### NOTE

Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Jumper Wire	<a href="#">09843-18040</a>	1

\* Essential SST.

# Tire Pressure Monitoring System (TPMS) Tire Registration & "Lost Communication With ECU"

## Required Tools & Equipment (Continued)

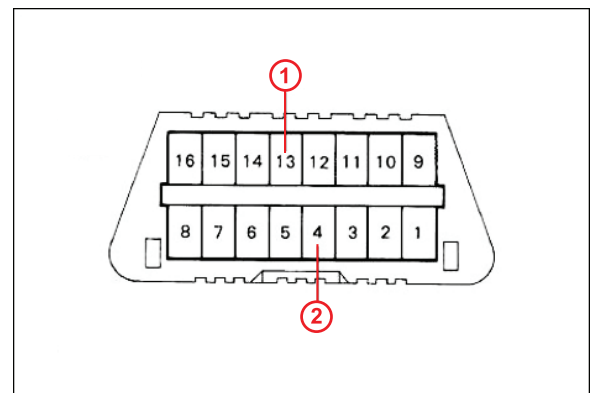
**NOTE**

Additional SSTs may be ordered by calling 1-800-933-8335.

## Repair Procedure

1. Connect TIS Techstream to the vehicle
2. Turn the ignition switch to the "IG-ON" position.
3. Select the datalist for the Tire Pressure Monitoring System.
4. Check and set all tire pressures to specification with an accurate tire pressure gauge and compare the information to what is displayed on the datalist.
5. After checking the tire pressure, record the TPMS sensors ID numbers.
6. With the vehicle set to "IG-ON" mode, disconnect the TIS Techstream.
7. Using Jumper wire or equivalent, connect terminals TC and CG at the DL3 connector for at least 30 seconds. Do not cycle the ignition switch to "OFF" position during this step.

Figure 1.



1	TC
2	CG

8. Once 30 seconds have passed, with the vehicle still in "IG-ON" mode, remove the jumper wire.

## Tire Pressure Monitoring System (TPMS) Tire Registration & "Lost Communication With ECU"

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### Repair Procedure (Continued)

9. Connect TIS Techstream and begin the registration process.

**NOTE**

If "Lost Communication With ECU" appears during the registration process, then terminals TC and CG were not connected properly or the key was cycled during this process.

10. After registration has been performed, leave TIS Techstream connected and confirm that the tire pressures are reading correctly and the threshold pressures show a difference of 5 to 7psi less than the inflation pressure. For vehicles with a TPMS reset switch, press and hold the reset switch to begin the initialization process.
11. After tire pressures and thresholds pressures display on the datalist, adjust all tire pressures in relation to the expected changes in ambient temperatures.

**NOTE**

Please refer to TSB:

- xB ([PD011-07](#))
- tC ([PD020-07](#))
- xD ([PD026-07](#))

for tire inflation pressure compensation and adjustment procedures.





"The Purple Sensor"

**2014 Chrysler Town & Country**

Reference #: 14V632000

Issue: TPMS receiver may be in incorrect mode therefore the TPMS light will stay illuminated.

Action: Dealership must change the receiver's mode.

**2014 Dodge Grand Caravan**

Reference #: 14V632000

Issue: TPMS receiver may be in incorrect mode therefore the TPMS light will stay illuminated.

Action: Dealership must change the receiver's mode.

**2014-2015 Ferrari LaFerrari**

Reference #: 15V306000

Issue: In the event of a tire puncture, 'Low Tire Pressure-Max speed 50 mph' will display.

Action: Dealership must update the vehicle so 'Low Tire Pressure-Do not proceed' displays.

**2015-2016 Fiat 500**

Reference #: 08-122-15

Issue: TPMS light is illuminated along with DTC's C1012-88 and/or C1015-88 are present.

Action: Dealership needs to reset the system.

**2014 Honda Civic**

Reference #: 1005597 4

Issue: TPMS light illuminates when pressures are correct.

Action: Dealership must update Indirect TPMS software.

**2015 Honda CR-V**

Reference #: 14-065

Issue: TPMS warning light is illuminated and DTC C0077 or C0078 is present yet the tire pressures are correct.

Action: Dealership will update the vehicle's VSA control unit software.

**2016 Honda Pilot**

Reference #: 15V668000

Issue: TPMS warning lights may not illuminate if there is a problem unless the vehicle is restarted.

Action: Dealership will update the vehicle's combination meter software.

**2014 Jeep Wrangler**

Reference #: 14V632000

Issue: TPMS receiver may be in incorrect mode therefore the TPMS light will stay illuminated.

Action: Dealership must change the receiver's mode.





"The Purple Sensor"

**2016 KIA Optima & Sorento**

Reference #: SA213

Issue: TPMS malfunction light flashes at start-up and DTC's are present yet the tire pressures are correct.

Action: Dealership will replace the sensors.

**2013-2014 Land Rover LR4, 2014 Range Rover, 2014 Range Rover Sport**

Reference #: 14V618000

Issue: OE sensors won't register to the vehicle.

Action: Dealership must update TPMS receiver software on all models. In addition to updating, the 2013 LR4 will receive all new sensors.

**2014-2015 Mazda MAZDA6**

Reference #: 14V675000

Issue: Indirect TPMS software cannot inform driver if all tire pressures drop the same level at the same time.

Action: Dealership must update Indirect TPMS software.

**2015 MINI Cooper Hardtop (2dr & 4dr)**

Reference #: SI-M36-01-15

Issue: A TPM Failure message displays on instrument cluster along with DTC's related to sensor signal reception.

Action: Dealership will replace antenna/antennas under warranty.

**2014 RAM ProMaster**

Reference #: 14V633000

Issue: Receiver could illuminate the wrong location of a low tire.

Action: Dealership must update TPMS module software.

**2014-2015 RAM 2500, 3500 SRW, & 3500 DRW**

Reference #: 22-002-15 REV. A

Issue: "Service Tire Pressure System" message appears along with DTC's related to sensor mechanical failure.

Action: Dealership will replace all four or six sensors under warranty.

**2012-2013 Volkswagen CC**

Reference #: 10051380

Issue: OE sensors won't register to the vehicle.

Action: Dealership must replace sensors with updated version.

## **Customer Service Numbers**

ATEQ Tech Support:

- 888-621-8767 (US)
- 210-451-1074 (Spanish - USA and Latin/S. America)
- 855-455-8767 (Canada)