

# Tire Pressure Warning System Activation & Initialization

**Service Category** General

**Section** Pre-Delivery Service

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

| YEAR(S) | MODEL(S) | ADDITIONAL INFORMATION |
|---------|----------|------------------------|
| 2017    | LS460    |                        |

## Introduction

2017 model year LS 460 vehicles are equipped with a direct-type Tire Pressure Warning System (TPWS). Each tire (including the spare tire) has a tire pressure warning valve/sensor that measures tire pressure. The data is transmitted to the Tire Pressure Warning System antenna/receiver and then to the Tire Pressure Warning System ECU.

During Pre-Delivery Service (PDS), the tire pressure warning valves/sensors **MUST** be activated according to the procedure in this bulletin.

## Warranty Information

| OP CODE | DESCRIPTION                | TIME | OPF | T1 | T2 |
|---------|----------------------------|------|-----|----|----|
| N/A     | Not Applicable to Warranty | –    | –   | –  | –  |

## Required Tools & Equipment

| REQUIRED EQUIPMENT            | SUPPLIER | PART NUMBER  | QTY |
|-------------------------------|----------|--------------|-----|
| Techstream 2.0*               | ADE      | TS2UNIT      | 1   |
| Techstream Lite               |          | TSLITEPDLR01 |     |
| Techstream Lite (Green Cable) |          | TSLP2DLR01   |     |

\* Essential SST.

### NOTE

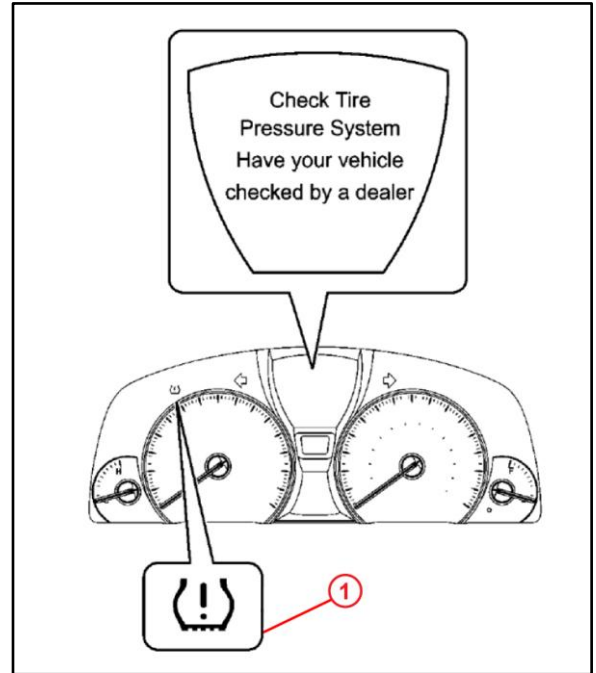
- Only **ONE** of the Techstream units listed above is required.
- Software version **11.20.019** or later is required.
- Additional Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at **1-800-368-6787**.

## Tire Pressure Warning System Activation & Initialization

### Reference

- After cycling the ignition to the “IG-ON” mode, the Low Tire Pressure Warning Light will blink until ALL the tire pressure warning valves/sensors are activated.
- The Diagnostic Trouble Codes (DTCs) listed below may be stored in the TPWS ECU until the tire pressure warning valves/sensors are activated.
- The multi-information display will read “Check Tire Pressure System” until ALL tire pressure warning values/sensors are activated.
- The DTCs will automatically clear when the tire pressure warning valves/sensors are activated.

**Figure 1.**



|          |  |
|----------|--|
| <b>1</b> | <b>Low Tire Pressure Warning Light</b> |
|----------|--|

| DTC <sup>*1</sup> | DTC <sup>*2</sup> | DTC                      |
|-------------------|-------------------|--------------------------|
| 11                | C2111             | Transmitter ID1 Inactive |
| 12                | C2112             | Transmitter ID2 Inactive |
| 13                | C2113             | Transmitter ID3 Inactive |
| 14                | C2114             | Transmitter ID4 Inactive |
| 15                | C2115             | Transmitter ID5 Inactive |

\*1: Indicated by flashing of the Low Tire Pressure Warning Light.

\*2: Indicated by Techstream.

## Tire Pressure Warning System Activation & Initialization

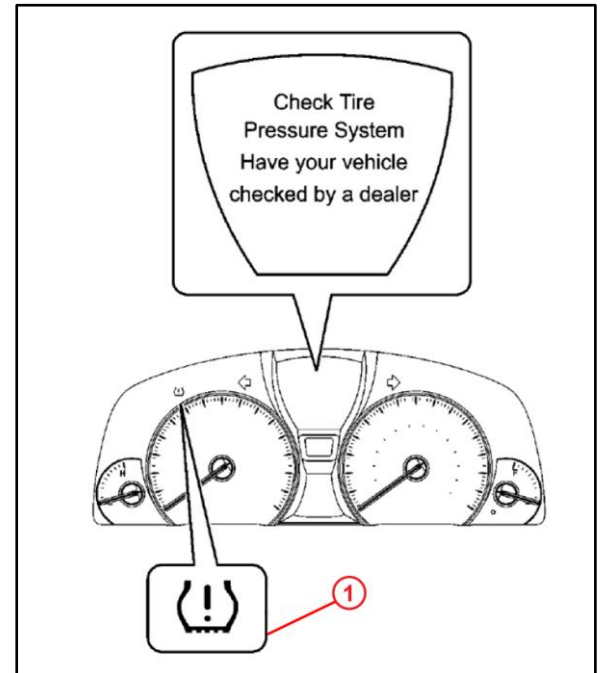
### Activation Procedure

1. Connect Techstream.
2. Cycle the ignition switch to the "IG-ON" mode and check that the Low Tire Pressure Warning Light blinks for 1 minute and then remains illuminated.

**NOTE**

"Check Tire Pressure System" is displayed on the multi-information display until ALL tire pressure warning valve/sensors are activated

**Figure 2.**



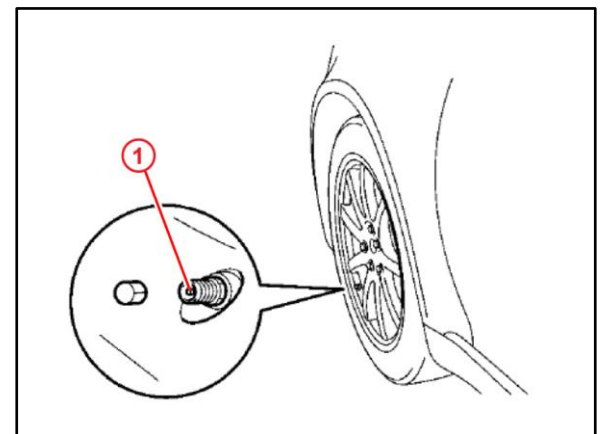
**1** Low Tire Pressure Warning Light

3. Press or remove the valve core to reduce the tire inflation pressure rapidly by 6 psi (0.4 kgf/cm<sup>2</sup>, 40 kPa), or more, within 30 seconds. If the tire inflation pressure is NOT reduced by 6 psi (0.4 kgf/cm<sup>2</sup>, 40 kPa), or more, within 30 seconds, the tire pressure warning valves/sensors will NOT be activated.

**NOTE**

This operation is required for the system to be activated and MUST be performed for each tire (including the spare tire), one at a time.

**Figure 3.**



**1** Core

## Tire Pressure Warning System Activation & Initialization

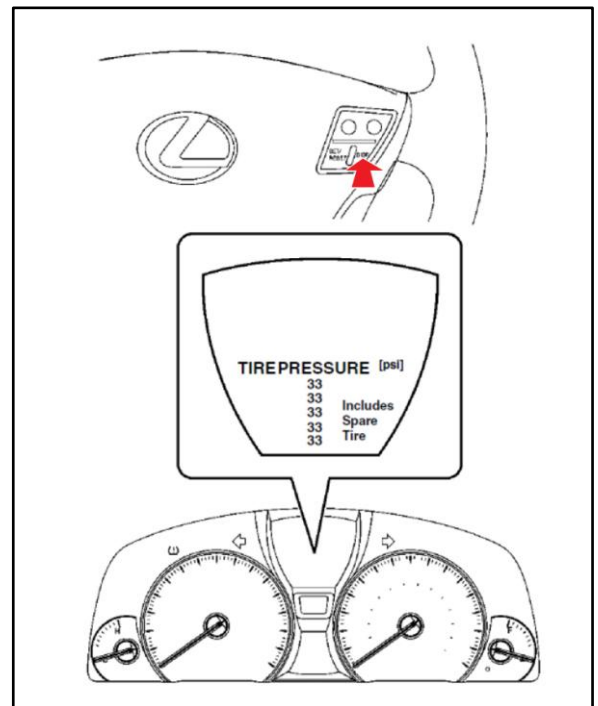
### Activation Procedure (Continued)

4. Check that the Low Tire Pressure Warning Light goes OFF after ALL the tire pressure warning valves/sensors are activated.
5. Using Techstream, check for TPWS DTCs.
  - If NO DTCs are stored, go to step 6.
  - If DTCs C2111 – C2115 are stored, repeat step 3.
  - If ANY other DTCs are stored, refer to the Repair Manual.
6. Press the “DISP” switch on the steering wheel and check that the tire pressures are displayed on the multi-information display.

**NOTE**

- The tire pressure display is **NOT** shown until **ALL** tire pressure warning valves/sensors are activated.
- If “Check Tire Pressure System” or “CHECKING” (which means the tire pressures are being measured) is displayed, repeat step 3. If step 3 is performed and the tire pressures are still **NOT** displayed, turn the tires 90 to 270 degrees.
- If the above steps are performed and the multi-information display does **NOT** show the tire pressures, refer to the Repair Manual.

**Figure 4.**



# Tire Pressure Warning System Activation & Initialization

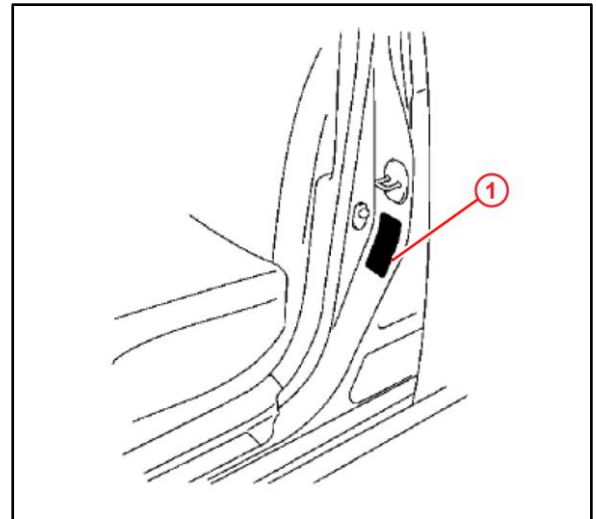
## Initialization Procedure

1. Adjust ALL tires (including the spare tire) to the standard tire inflation pressure, as indicated on the Tire and Loading Information Label located in the vehicle.

**NOTE**

- To adjust tire pressure correctly when outside temperature is significantly colder than shop temperature, perform a Health Check using Techstream and select the “Compensation Tire Pressure” checkbox. Compensation pressures will be displayed on the Health Check results screen.
- Adjust the tire pressure when the tires are cold.

Figure 5.



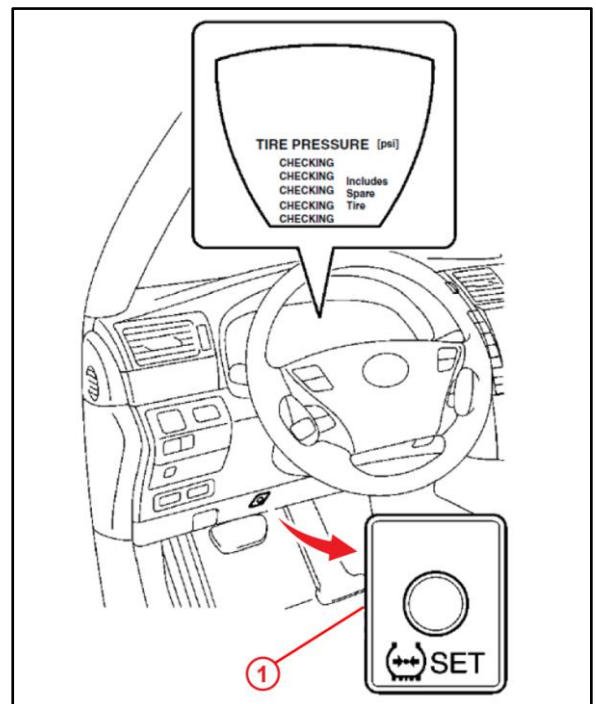
1 Tire and Loading Information Label

2. Cycle the ignition switch to the “IG-ON” mode and then push and hold the Tire Pressure Warning “SET” switch for 3 seconds until the Low Tire Pressure Warning Light blinks 3 times and then turns OFF to set the tire pressure initialization.

**NOTE**

- Make sure that the “Tire Pressure Reset Proceeding” appears on the multi-information display. After a few seconds, the display changes to “CHECKING” (which means the tire pressures are being measured).
- It is necessary for the ignition to be in the “IG-ON” mode AT LEAST 5 minutes for initialization to complete correctly.

Figure 6.



1 Tire Pressure Warning “SET” Switch

## Tire Pressure Warning System Activation & Initialization

### Initialization Procedure (Continued)

3. Cycle the ignition switch to "OFF" and then to "IG-ON" mode.
4. Check that the tire pressures for ALL 5 tires are displayed on the multi-information display.

If the tire pressure values are NOT displayed on the multi-information display, the initialization is NOT complete. Repeat steps 2 – 4.

#### NOTE

- Check that the tire pressure adjusted in step 1 is displayed.
- Initialization will be completed if signals are received from ALL 5 tires. It takes 2 – 3 minutes to display the tire pressure data.

Figure 7.

