

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Tire Pressure Indicator Sensor Learn

Special Tools

EL-52545, Tire Pressure Monitor Sensor and RF Diagnostic Tool

For equivalent regional tools, refer to Special Tools.

Tire Pressure Sensor Learn with EL-52545 (Preferred)

The *EL-52545* allows the tire pressure sensors to be learned without transmitting RF data between the tire pressure sensors and the vehicle. When using the *EL-52545* each tire pressure sensor ID is learned to the *EL-52545* and stored internally. The *EL-52545* is then connected to the vehicle DLC using the OBD2 Interface Module, which is part of the *EL-52545* kit. The stored tire pressure sensor information will then be loaded into the K9 Body Control Module. Using the *EL-52545* to learn tire pressure sensors will prevent the vehicle from learning errant nearby tire pressure sensor from other vehicles in a service facility environment, especially if the tire pressure sensor batteries are low. This is the GM recommended method to learn tire pressure sensors.

1. Turn on *EL-52545*
2. Select RDR from the on-screen display
3. If available, scan the QR code on the vehicle's tire placard or certification label. If QR is not available, select MMY from the on-screen display and manually input the vehicle information.

4. Note:

Make sure the TPM tool battery is sufficient to complete TPM learn process. Do not place the TPM tool directly on the valve stem. The TPM tool should be placed against the tire sidewall near the valve stem. The TPM sensor learn activation procedure may have to be repeated up to 3 times before determining a sensor is malfunctioning.

5. Approach the vehicle starting with the left front tire and read each tire pressure sensor information by pressing the green trigger button with the *EL-52545* located near the tire valve stem. Read each tire pressure sensor in the order identified on the *EL-52545*.

6.
 - If any tire pressure sensors do not respond
 - Replace the tire pressure sensor only after several attempts have been made to identify all sensors. Undetected sensor will be identified with "No Sensor Detected" displayed in the table. After sensor replacement rerun RDR procedure.

7.
 - If all tire pressure sensors do respond

8. Verify the BAT value for each tire pressure sensor in the table on the *EL-52545* is OK

9.
 - If not OK
 - Replace the tire pressure sensor and rerun RDR procedure.

10.
 - If OK

11. Verify the pressure and temperature values are reasonable based on the ambient conditions and actual tire pressure.

- 12.

- **If either value is inaccurate**
- Replace the tire pressure sensor and rerun RDR procedure.

13.

- **If both values are accurate**

14. Ignition On/Vehicle in Service Mode.

15. Connect the *EL-52545* OBD2 Interface Module to the *EL-52545*.

16. Verify the OBDII icon is displayed on the *EL-52545* and the green com LED is flashing on the *EL-52545* OBD2 Interface Module.

17. Connect the other end of the OBD2 Interface Module to the vehicle DLC.

18. Select OK on the *EL-52545* and follow the on-screen instructions.

Tire Pressure Sensor Learn with EL-50448 (Alternative)

When *EL-50448* Tire Pressure Monitor Sensor Activation Tool is used in activate mode, it produces a low frequency transmission that activates the sensor. The sensor responds to a low frequency activation by transmitting in Learn Mode-Remotely Triggered. When the BCM receives a learn mode transmission while in Learn mode, it will assign that sensors ID to the location on the vehicle relative to the order in which it was learned.

Note:

In the event a particular sensor is activated and the horn does not chirp, it may be necessary to rotate the wheel so that the valve stem is in a different position due to the sensor signal is being blocked by another component. Make sure the TPM tool battery is sufficient to complete TPM learn process. Do not place the TPM tool directly on the valve stem. The TPM tool should be placed against the tire sidewall near the valve stem. The TPM sensor learn activation procedure may have to be repeated up to 3 times before determining a sensor is malfunctioning.

1. Ignition On/Vehicle in Service Mode, using driver information center buttons (refer to owners manual), initiate the Tire Pressure Sensors Learn mode. A double horn chirp will sound indicating the Learn mode has been enabled. The left front turn signal will also be illuminated.
2. Starting with the left front tire, activate the sensor by holding the antenna of the tire pressure monitor activation tool aimed upward against the tire sidewall close to the wheel rim at the valve stem location. Press and release the activate button. Ensure that the transmit indicator on the special tool indicates that the sensor activation signal is being transmitted. Wait for a horn chirp. If the horn does not chirp, repeat the sensor activation sequence with the tool. Once the horn chirp has sounded, the sensor information is learned and the turn signal in the next location to be learned will illuminate.

3. Note:

When activating Right rear and Left rear sensors, there will not be a solid turn signal illuminated at the respective location.

4. After the horn chirp has sounded and the right front turn signal is illuminated, repeat step 3 for the remaining 3 sensors in the following order:

5.
 1. Right front
 2. Right rear
 3. Left rear
6. When the left rear sensor has been learned and a double horn chirp has sounded, the learn process is complete and the BCM exits the Learn mode.