



Technical Journal

TITLE:

I-TPMS and Low Tire Pressure warning

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3 US 7510 Volvo Car USAISSUE DATE:
2021-09-09STATUS DATE:
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3674FUNC DESC:
Tire pressure monitoring
control system

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“Right first time in Time”

Rows beginning with * are modified

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DESCRIPTION:

If low tire pressure is detected by the tire monitoring system (I-TPMS) with a warning message in DIM “Low Tire Pressure”, follow advice under Service.

Note: Vehicles equipped with I-TPMS can be identified with the following VDN codes: RG06, RG07, RG08 or RG09.

CSC Customer Symptom Codes

Code	Description
21	Warning lights and chimes/Tire pressure monitoring, Low tire pressure warning
LI	Warning lights and chimes/Tire pressure monitoring, Service required warning

DTC Diagnostic Trouble Codes

Control Module	Code	Fault Type
BCM2	C007768	Intermittent
BCM	C007768	Intermittent



Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
224							2019-9999		0000001-9999999	201835-999952
225							2019-9999		0000001-9999999	201817-999952
227							2019-9999		0000001-9999999	201846-999952
234							2017-2017		0000001-9999999	201617-999952
235							2017-9999		0000001-9999999	201624-999952
236							2017-9999		0000001-9999999	201646-999952
238							2017-9999		0000001-9999999	201646-999952
246							2018-9999		0000001-9999999	201717-999952
256							2017-9999		0105001-9999999	201617-999952
536							2018-9999		0000001-9999999	201746-999952

SERVICE:

If TPMS warning lamp in DIM is active with warning text message “Low Tire pressure”, then instruct the customer to perform the following steps, (no workshop visit required):

1. Check if there is any air leak due to a screw or nail, or if the wheel is damaged from hitting a pot-hole. Repair or replace any faulty tires or rims.
2. Check that the tire pressure (with cold tires) is according to the Owners Manual or Tyre label on B-pillar.
3. If there been a recent ambient temperature drop, then it is important to inflate more air since the tire pressure changes with fluctuations in temperature (gas contracts when the temperature declines).
Example: Temperature +20C (68F) with tire pressure 275 kPa (40 PSI), with lower temperature 0C (32F) the tire pressure will be 250 kPa (36 PSI), a 10% reduction of tire pressure.
4. If the same set of tires are used all year round, it is important to check the tire pressure at least 5-6 times a year due to diffusion and temperature changes.
Note: Diffusion is a natural slow process due to the smaller air molecules travel through the rubber structure.

After the basic checks, initiate TPMS Store Pressure using the following method:

1. Start the engine and with vehicle standing still initiate calibration of Tire Monitoring system (Navigation Panel -> Status -> TPMS Store Pressure) according to Owners Manual.
2. The car should then be driven between 50-100 km/h (31-62 mph) for 20 minutes and then the tire pressure should be stored as the preferred tire pressure.

Notes:

- Extra time is needed if the if car is driven slower than 50 km/h (31 mph), higher than 100 km/h (62 mph) or braking during the calibration process.
- Avoid aggressive driving in order to keep the temperature in tires low during the calibration process.
- The DTC will self erase, there is no need to clear the DTC using VIDA.



* If the customer cannot solve the symptom and the car is brought to the workshop:

If the customer fails to solve the issue by calibrating their I-TPMS system on their own (at least two attempts), then it could be necessary for a workshop to inspect the wheel speed sensors and encoder rings (on the wheel hubs). Check and eventually clean the parts for eventual dirt, mud or metal flanges since this could cause disturbances for the I-TPMS system.

Tips: Ensure that all speed sensors are giving the same speed signals, this can be done while test driving the car while VIDA laptop is connected to read out all wheel sensors.

* In some cases the following procedures have solved the issue:

1. Reload the VDDM software
2. Install Total Upgrade
3. Initiate a new calibration of TPMS (using cold tires)

Warranty claim info:

* No warranty claims are accepted for this TJ (if Customer is performing TPMS calibration).

* In case workshop has to be involved in the fault tracing, use:

* 96663-3 Fault tracing instrumentation: 21

* 36004-2 Software control module downloading

* 36002-3 Software control module downloading

VEHICLE REPORT:

Yes, please submit a Vehicle Report if the service solution described in this TJ has no effect. Use concern area "Vehicle Report" and sub concern area "Support not needed", use function group 3674.