



Technical Journal

TITLE:
2016 XC90 D-TPMS, Low tire pressure warning

REF NO: TJ 31408	ISSUING DEPARTMENT: Technical Service	CAR MARKET: United States and Canada	
PARTNER: 3 US 7510 Volvo Car USA		ISSUE DATE: 2016-03-31	STATUS DATE: 2016-03-31
FUNC GROUP: 7761	FUNC DESC: pressure control	Page 1 of 3	

“Right first time in Time”

Attachment

File Name	File Size
TJ 31408.MOV	0.8103 MB

Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
256							2016-2016		0000001-0105000	201505-201616

CSC Customer Symptom Codes

Code	Description
U2	Tires/Slow leaks
21	Warning lights and chimes/Tire pressure monitoring, Low tire pressure warning

VST Operation Number

VST Operation Number	Description
96364-2	TPMS troubleshooting CSC = LI
38641-2	Sensor (TPMS) x1 replace (only use if replace air valve)

DTC Diagnostic Trouble Codes



Text

DESCRIPTION:

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

D-TPMS= Direct Tire Pressure Monitoring Sensors
DIM= Driver Information Module
VIDA= Vehicle Information and Diagnostics for Aftersales
DTC= Diagnostic Trouble Code
TPMS= Tire Pressure Monitoring Sensors
CEM= Central Electronic Module

If the vehicle is equipped with direct tire pressure monitoring sensors (D-TPMS) and there is a warning message in the DIM about Low tire pressure, follow advice under Service.

Note: Vehicles with D-TPMS can be identified by one of the following VDN codes:
RG02;RG03;RG04;RG05

Note: Cases with “TPMS Service Required” messages in DIM together with DTC’s are not covered by this TJ, check other TJ 31398 or if any VIDA method is available.

SERVICE:

In case there is a TPMS warning message in DIM about Low tire pressure:

- Check tire pressure on the concerned wheel to confirm the symptom.
Note: Refer to Tire label on B-pillar for the correct tire pressure.
- If the tire pressure is low, check that there are no visible damages or screws / nails in the tire.
- If the tire is defective, have it replaced.
- Place some soap water between the air valve and rim to check if there are any bubbles at the air valve.
Note: also push the air valve sideways to see if there are any air leaks when valve is not in centre position.
- If leak / bubbles are found at the air valve, pull up the air valve one or few millimetres using tire valve tool until the air leak stops.
- If air valve is defective or if the leak continues after pulling up the air valve, then check and eventually replace the air valve with a service air valve PN 31400856.
- Once tires are not leaking and have the correct tire pressure, initiate a D-TPMS calibration and road test vehicle
Note: Warnings for Low tire pressure will self-erase after road test .

General Notes about D-TPMS:

- Do not download CEM Reload or CEM Upgrade software, it will not solve anything in XC90.
- Do not initiate a TPMS Calibration while there is a warning message about TPMS Service Required, it will not help.



- Only use Volvo XC90 original TPMS sensor, other Volvo TPMS sensors and universal TPMS sensors will not work in XC90 due to a different signal algorithm.
- In general it is not advisable to initiate any D-TPMS calibration unless the car is having extra high tire pressure due to heavy load (trailer/caravan).
- For D-TPMS design and function overview, check VIDA VCC-ID VCC-477152-1

VEHICLE REPORT:

Yes, submit a Vehicle Report if the air valve was leaking due to wrong assembly. Use concern area "Vehicle Report" and sub concern area "Support not needed", use function group 7761.