



Technical Journal

TITLE:

MY 2017 XC90/S90 D-TPMS system changed to I-TPMS

REF NO:
31694

ISSUING DEPARTMENT:
Technical Service

CAR MARKET:
United States and Canada

PARTNER:
3 US 7510 Volvo Car USA

ISSUE DATE:
2016-06-15

STATUS DATE:
2016-06-15

FUNC GROUP:
7761

FUNC DESC:
pressure control

Page 1 of 4

“Right first time in Time”

Attachment

| File Name | File Size |
|------------------|-----------|
| TJ 31694 - 1.jpg | 0.0592 MB |
| TJ 31694 - 2.jpg | 0.2426 MB |

Vehicle Type

| Type | Eng | Eng Desc | Sales | Body | Gear | Steer | Model Year | Plant | Chassis range | Struc Week Range |
|------|-----|----------|-------|------|------|-------|------------|-------|-----------------|------------------|
| 234 | | | | | | | 2017-9999 | | 0000001-9999999 | 201617-999952 |
| 256 | | | | | | | 2017-9999 | | 0105066-9999999 | 201617-999952 |

CSC Customer Symptom Codes

| Code | Description |
|------|--|
| LI | Warning lights and chimes/Tire pressure monitoring, Service required warning |

VST Operation Number

DTC Diagnostic Trouble Codes



Text

DESCRIPTION:

234=S90

256=XC90

TPMS = tire pressure monitoring system

I-TPMS= Indirect TPMS system

D-TPMS=Direct TPMS system

If the vehicle is equipped with a tire pressure monitoring system (TPMS), please be aware that the TPMS system has changed from MY 2017 (structure week 2016 week 17). Now an Indirect TPMS system is being used (I-TPMS). The Direct TPMS system (D-TPMS) that was used in XC90 MY 2016 is no longer used in production from MY 2017.

Note: Vehicles with D-TPMS sensors can be identified by the unique tire air valve, it has a “ring” in the rubber, see photo. A normal air valve does not have this ring.

Note: Vehicles with I-TPMS system can be identified that it using normal tire air valves, and one of the following VDN codes: RG06, RG07, RG08

In case there are TPMS error messages regarding TPMS service required and DTC's in the vehicle after software download, please follow advice under Service.

SERVICE:

If the vehicle is equipped with I-TPMS system, and in case there is a TPMS service required message and it is not possible to initiate any TPMS calibration, then it is required to perform a special VIDA diagnostic sequence to clear the DTCs and restore I-TPMS functionality.

Follow the following path in VIDA:

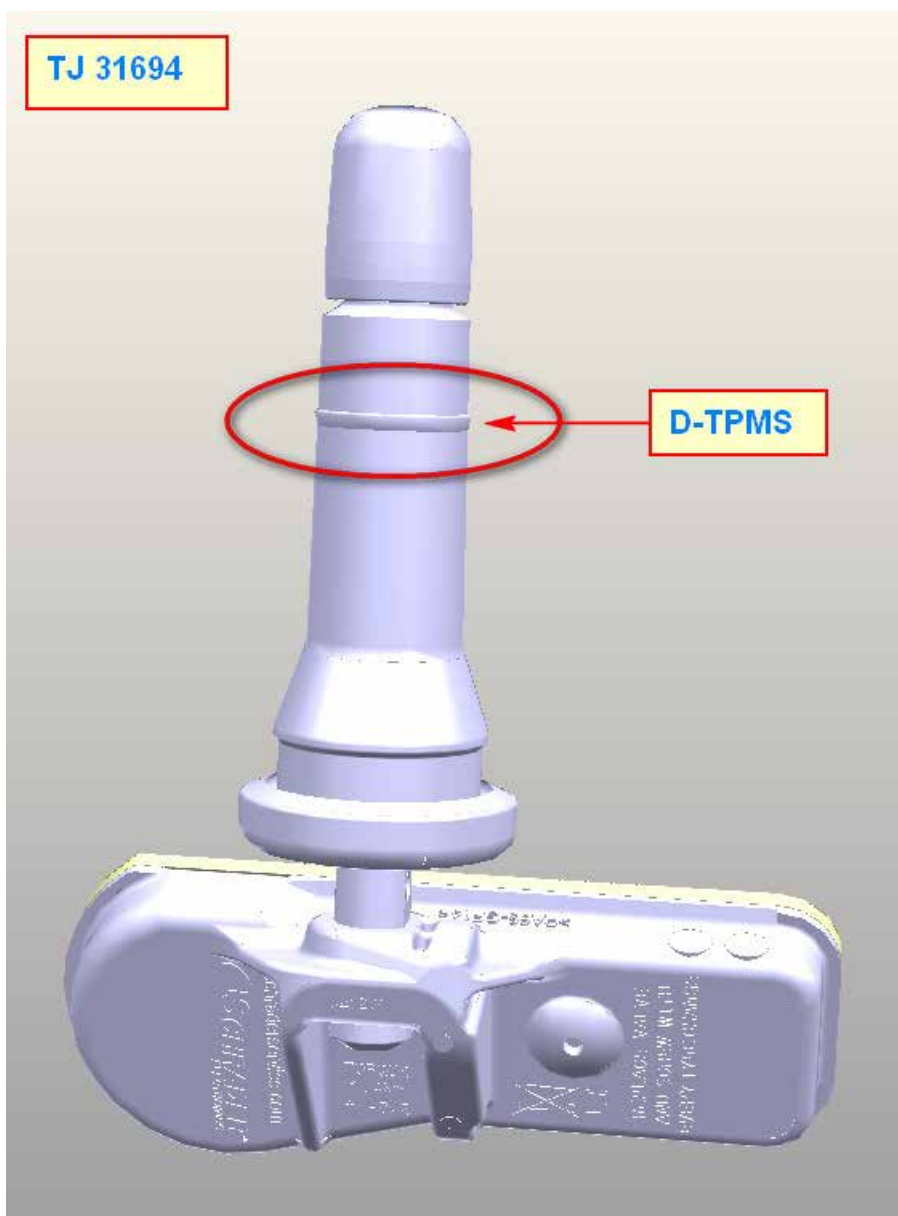
VIDA -> Diagnostics -> Components -> ECU -> 4/163 VDDM -> Diagnostic Sequences -> Clearing iTPMS calibration memory and DTCs.

Also see attached picture.

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 7761.

To view TJ attachment continue to next page. This TJ has two attachments.



TJ 31694 17-J, 2017, B4254T22, TG-21...

Planning Diagnostics Software Information

VIN: YV1P5A2ECH1000467 Customer Name: Conversion

Model Year/Chassis: 2017, 000457

Work List

Network

2 in Tracing

Components

Service Functions

ECUs

| ID | Name |
|---------|---|
| 4/210 | Power Seat Module Passenger (PSMP) |
| 6/183 | Power Steering Control Module (PSCM) |
| 4/211 | Restraint Module Left (RML) |
| 4/213 | Restraint Module Right (RMR) |
| 4/126 | Side Obstacle Detection Control Module Left (SOOL) |
| 4/127 | Side Obstacle Detection Control Module Right (SOOR) |
| 4/102 | Steering Column Lock Module (SCL) |
| 4/243 | Steering Wheel Module (SWM) |
| 9215_30 | Steering Wheel Module (SWM); SWM in SWM |
| 4/176 | Supplemental Restraint System Module (SRS) |
| 4/84 | Suspension Module (SCM) |
| 4/28 | Transmission Control Module (TCM) |
| 4/1 | Vehicle Connectivity Module (VCM) |
| 4/143 | Vehicle Dynamics Domain Master (VDDM) |
| 9215_30 | Vehicle Dynamics Domain Master (VDDM); BCM in VDDM |
| 4/245 | Wide Angle Vision Module (WAM) |

Source

5

DTCs Documents Wiring Diagrams Parameters Activations Diagnostic Sequences

Diagnostic Sequences

- 5 Clearing (TPMS) calibration memory and DTCs
- Calibration of the BCM internal pressure sensor, steering angle sensor and sensors in the inertia measurement unit
- Calibration of the hydraulic control unit in the Brake Control Module (BCM)
- Calibrate height sensors in VDDM