

Title

Tyre Pressure Monitor System (TPMS) Inoperative

Description

Electrical – Electrical Systems. (AIS) – P13, 570S, 570GT, 570 Spider, 540C, 600LT, 600LT Spider, P14 720S, 720S Spider, P22 GT. All tyre pressures display maximum values for pressure and temperature.

Tags

C174700, C174A00, C174B00, C174800, C174900, TPMS, tyre pressure, tyre temperature, tyre monitor error

Document Information

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Vehicles affected:

P13: 570S, 570GT, 570S Spider, 540C, 600LT, 600LT Spider

P14: 720S, 720S Spider

P22: GT

Location: Electrical – Electrical Systems

Concern: TPMS warning on dash and pressures and temperatures display maximum values.

Condition: Ignition ON and/or driving.

Diagnostic Trouble Codes

TPMS:

C174700 Check/Learn Did Not Complete When Expected

C174A00 Own Wheel Detection Error

C174B00 Wheel Allocation Error
C174800 Too Many Wheels Detected
C174900 Too few wheels detected

Measure

The TPMS sensors fitted to P13 and P14 vehicles are only activated when the wheels start turning. If one or more sensors are faulty the system will fail to learn any of the wheels.

To efficiently identify which sensor(s) are faulty you need to use a TPMS exciter/reader special tool. Follow the link below to find a recommended tool:

<https://www.sykes-pickavant.com/products/electrical-diagnostics-and-test-tools/tpms/1772>

Care Point: Ensure the tool can excite bf1systems Gen 3.4 TPMS sensors.

If all the sensors read back OK with the tool showing 4 unique serial numbers then the TPMS module may be faulty.

If one or more TPMS sensors fail to respond, show battery status as low or read back with an alternative operating frequency, replace the affected sensor with a new one and proceed to the next step.

Once all 4 sensors responding correctly carry out the following drive cycle.

Drive the car between 20kph and 120kph until tyre pressure and temperature are displayed on the IC.

If the speed drops below 20kph the learning will have to restart.

There is a 8 minute timer on the car learning the sensors assuming it is above 20kph. If it doesn't learn within this time, the learning procedure will not complete and the display will show default values for pressure and temperature.

MTI Updates Information

N/A

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