

# Artura TPMS system overview and diagnosis guide

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## Document Information

**Location:** Chassis

**Topic:** Artura TPMS calibration concerns and diagnosis guide

**Condition:** N/A

### Diagnostic Trouble Codes:

C175C16 – FL Low battery warning active  
C175D16 – FR Low battery warning active  
C175E16 – RL low battery warning active  
C175F16 – RR low battery warning active  
C176296 – FL wheel electronic sensor fault  
C176396 – FR wheel electronic sensor fault  
C176496 – RL wheel electronic sensor fault  
C176596 – RR wheel electronic sensor fault  
C170093 – VRR Front not scanning ADVs  
C170193 – VRR Rear not scanning ADVs  
C170000 – Authorisation error on VRR front  
C170100 – Authorisation error on VRR rear  
C174700 – Autolearning/Autolocation not completed when expected

## Measure

The McLaren Artura is fitted with Pirelli Cyber Tyres. These tyres have a TPMS sensor located on the inside of the tyre as opposed to being mounted on the rim. The system comprises of the following components:

- 4x Pirelli Cyber Tyres
- 2x Bluetooth ranging HUBs
- 2x Antennas

If a concern appears on the cluster that is not related to a pressure issue, a system calibration can be carried out.

To calibrate the TPMS system on the McLaren Artura, a drive cycle is to be carried out where the system should calibrate within 10 minutes if the following conditions of the drive cycle are met:

## RESTRICTED

- Vehicle speed is kept within 40-100kph (25-62mph)
- Smooth vehicle trajectory (no harsh accelerating/braking and no tight turns)

If the system fails to calibrate, a DTC read should be carried out. The DTC reads in ZB2 could potentially indicate which sensor(s) has failed. If there is no indication as to what sensor has failed, a DTC for autolearning failure will appear as seen below:

Code	Description
C174700	TPMS: Autolearning/Autolocation not completed when expected - No Sub Type Information

In the event of this occurring and it is the only DTC present, please carry out the following:

- Fit a known good set of donor wheels and attempt a calibration to see if the issue remains
- To • identify the faulty tyre(s), fit a donor set to each axle and then each individual corner If

the above DTC is present accompanied by the following DTCs, please submit a TR:

- C170093 – VRR Front not scanning ADVs
- C170193 – VRR Rear not scanning ADVs
- C170000 – Authorisation error on VRR front
- C170100 – Authorisation error on VRR rear

## Parts Information

N/A

## Attachments

N/A

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