

Technical product information

Topic	W12 Engine management light on - Turbocharger speed sensor DTC's stored
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2053348/1
Level	EH
Status	Approval
Release date	

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> symbolic fault indicators -> emission control system fault indicator	functionality -> activates	

Vehicle data

Bentyga and New Continental GT

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S3*	2018	E		*	*	*
3S3*	2019	E		*	*	*
4V1*	2017	E		*	*	*
4V1*	2018	E		*	*	*
4V1*	2019	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Customer statement:

- The engine management light is on.

Workshop findings:

The customer statement can be reproduced.

Either of the following DTC's are stored in address *01 – Engine Control Module 1* or address *11 – Engine Control Module 2*

- P257900: Turbocharger Speed Sensor "A" – Circuit Range/Performance

Or

- P259400: Turbocharger Speed Sensor "B" – Circuit Range/Performance

Or

- P259500: Turbocharger Speed Sensor "B" – Circuit low

Technical background

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Production change

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Measure

Ask the customer under what driving conditions they experienced the complaint; duration driven, throttle load (was it under harsh or light acceleration), what gradient they were driving on etc. and feedback via a DISS technical enquiry.

Measure

1. Road test the vehicle to try and reproduce the complaint, carry out an extensive test if required.

- Drive the vehicle under the same driving conditions as when the customer experienced the complaint
- Use light and hard acceleration cycles

2. Check the intake and exhaust systems for air leaks, if a leak is detected rectify the leak.

3. Check and drain the intercooler pipes as per TPI 2050222, feedback the amount drained via DISS. If an excessive amount of oil is drained then erase the DTC and carry another road test as detailed in point 1. If the fault does not return the vehicle can be handed back to the customer, if the fault does return, proceed with point 4.

4. Carry out the test plan for the affected Turbocharger speed sensor, if wiring checks are suggested also carry out the following manual wiring checks for the affected sensor;

- Open circuit
- Short circuit to ground
- Short circuit to B+
- Short circuit of the wires to each other

If the wiring tests OK then replace the affected Turbocharger speed sensor.

When replacing the Turbocharger speed sensor take extreme care not to damage the component, the sensor will be required back at Bentley Motors Crewe for analysis.

A DISS technical query detailing your findings must be submitted.