

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.	2053348/4
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0001 - Engine electronics	P257900: Turbocharger Speed Sensor "A" Circuit Range/Performance		static
0011 - Engine Electronics 2	P257900: Turbocharger Speed Sensor "A" Circuit Range/Performance		static
0001 - Engine electronics	P259400: Turbocharger Speed Sensor "B" Circuit Range/Performance		static
0011 - Engine Electronics 2	P259400: Turbocharger Speed Sensor "B" Circuit Range/Performance		static
0001 - Engine electronics	P259500: Turbocharger Speed Sensor "B" Circuit Low		static
0011 - Engine Electronics 2	P259500: Turbocharger Speed Sensor "B" Circuit Low		static

New customer code

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

Vehicle data

Bentayga W12 - New Continental GT - New Continental GTC

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S31BB	2018	E		*	*	*
3S31BB	2019	E		*	*	*
3S31BB	2020	E		*	*	*
3S31BB	2021	E		*	*	*
3S31BB	2022	E		*	*	*
3S41BB	2019	E		*	*	*
3S41BB	2020	E		*	*	*
3S41BB	2021	E		*	*	*
3S41BB	2022	E		*	*	*
4V14A9	2017	E		*	*	*
4V14A9	2018	E		*	*	*
4V14A9	2019	E		*	*	*
4V14A9	2020	E		*	*	*
4V14A9	2021	E		*	*	*
4V14A9	2022	E		*	*	*
4V14G9	2020	E		*	*	*
4V14G9	2021	E		*	*	*
4V14G9	2022	E		*	*	*

Documents

Document name
master.xml

W12 Engine management light on - Turbocharger speed sensor DTC's stored

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.

1) Referring to Rep.Gr 24 - Remove the air filter top cover

- Inspect for damage or missing components NOTE: The example in Figure 1 shows an air filter box divider that has become detached, causing DTC - P259400: Turbocharger Speed Sensor "B" – Circuit Range/Performance
- Reattach the divider and retest the vehicle if this particular fault is found



Figure 1

- Should no issues be found in the air filter box please continue with the remaining instructions from step 2

2) 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

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

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.

Warranty accounting instructions

Due to the numerous possible scenarios/issues which could be evident, please use the Labour Operation times within Elsa Pro ensuring all applicable/required information is supplied with each warranty claim

Parts information

Refer to the ETKA parts catalogue