

Technical Service Bulletin

Topic	Engine coolant overheat warning in the DIP - One or a combination of DTC's may be evident P017B00 - P017C00 - P017E00
Market area	Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796)
Brand	Bentley
Transaction No.	2070041/4
Level	EH
Status	Released for publishing
Release date	Mar 10, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0001 - Engine electronics	P017B00: Cylinder Head Temperature Sensor Circuit Range/Performance		static
0001 - Engine electronics	P017C00: Cylinder Head Temperature Sensor Circuit Low		static
0001 - Engine electronics	P017E00: Cylinder Head Temperature Sensor Circuit Intermittent/Erratic		static

New customer code

Object of complaint	Complaint type	Position
engine -> cooling, lubrication -> engine coolant temperature regulation	functionality -> faulty	
engine -> cooling system	functionality	
engine -> cooling system -> engine cooling fan wheel	noises, vibrations -> too loud	

Vehicle data

Bentayga-New Continental GT/C-New Flying Spur (V8 Kovomo)

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S32CB	2020	E		*	*	*
3S32CB	2021	E		*	*	*
3S32CB	2022	E		*	*	*
3S32CB	2023	E		*	*	*
3S32CB	2024	E		*	*	*
3S34CB	2023	E		*	*	*
3S34CB	2024	E		*	*	*
3S42CB	2020	E		*	*	*
3S42CB	2021	E		*	*	*
3S42CB	2022	E		*	*	*
3S42CB	2023	E		*	*	*
3S42CB	2024	E		*	*	*
3S44CB	2023	E		*	*	*
3S44CB	2024	E		*	*	*
4V14D9	2018	E		*	*	*
4V14D9	2019	E		*	*	*
4V14D9	2020	E		*	*	*
4V14D9	2021	E		*	*	*
4V14D9	2022	E		*	*	*
4V14D9	2023	E		*	*	*
4V14D9	2024	E		*	*	*
4V14D9	2025	E		*	*	*
4V15D9	2024	E		*	*	*
4V15D9	2025	E		*	*	*
ZG22CB	2021	E		*	*	*
ZG22CB	2022	E		*	*	*
ZG22CB	2023	E		*	*	*
ZG22CB	2024	E		*	*	*
ZG24CB	2023	E		*	*	*
ZG24CB	2024	E		*	*	*

ZV14D9	2023	E		*	*	*
ZV14D9	2024	E		*	*	*
ZV14D9	2025	E		*	*	*

Documents

Document name
master.xml

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Condition

Customer statement

Engine coolant overhear warning within the DIP

Workshop findings

One or a combination of the following DTC's could be evident within the ECM:

- P017B00 - Cylinder head temperature sensor implausible signal
- P017C00 - Cylinder head temperature sensor short circuit to ground
- P017E00 - Cylinder head temperature sensor open circuit/loose contact

Technical Background

Revision history - TPI 2070041/3

- DTC applicability revised
- TPI title has been amended

Production Solution

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Service



Before continuing with the onward instructions the operative must raise a technical DISS query to request permission to replace the coolant temperature sensor G407, ensuring a current up to date ODIS log is attached

1) Referring to Rep.Gr 19 coolant temperature sensor (V8 biturbo) - Remove G407

- Check if the O-ring located directly at the tip of the coolant temperature sender (Figure 1) is visibly damaged/pinched



Figure 1

- In the event the O-ring is damaged / pinched replace G407 including O-ring

Hint: Attach photographs of the G407 O-ring to the open DISS query, any damage should be highlighted

2) In the event that no issues are found with the O-ring - Refer to the applicable circuit diagram, conduct an electrical integrity check of the applicable circuit

- In the event the wiring circuit and connections are to specification and one or a combination of the DTC's remains please replace G407 including the O-ring as per Rep.Gr 19

Warranty

Warranty type 110 or 910
Damage service number 19 78
Damage code 00 10

New Continental GT / GTC and New Flying Spur

Time to replace G407

Labour operation code 19 78 19 23
Time 90 TU

Bentayga (All V8 Kovomo models)

Time to replace G407

Labour operation code 19 78 19 23
Time 40 TU

Time to remove and refit the front end module (17MY to 20MY)

Labour operation code 50 38 19 00
Time 760 TU

Time to remove and refit the front end module 21MY onwards)

Labour operation code 50 38 19 20
Time 800 TU

Alignment of applicable driver assist systems (Depending on vehicle specification)

- Vehicle front + rear measured wheel alignment checked - 44 95 03 00 - 110 TU
- Rear wheel camber adjust - 44 94 15 50 - 30 TU
- Rear wheel track adjust - 44 93 15 50 - 30 TU
- Front wheel camber adjust - 44 89 15 50 - 40 TU
- Front wheel track adjust - 44 88 15 50 - 20 TU
- (ACC) - Radar sensor checked + adjusted - 91 63 05 51 - 30 TU
- Overhead view camera adjusted - 90 83 15 00 - 40 TU
- Driver assist camera adjusted - 96 38 15 50 - 120 TU
- Control unit for (Lane change assist) adjusted - 96 35 15 00 - 50 TU
- Night vision system calibration - 90 80 15 50 - 40 TU
- Headlamps to adjust - 94 15 16 00 - 20 TU

Road test

Labour Operation Code 01 21 00 00
Time 50 TU

Required Parts and Tools

Refer to the ETKA parts catalogue