

Technical product information

Topic	Coolant warning lamp within the DIP - One or a combination of DTC's is evident P218100 - P017B00 - P017C00 - P017E00
Market area	Australia E04 Bentley rest Asia and Australia (6E04),China 723 Volkswagen (Anhui) Automotive CO (6723),China 796 VW Import Comp. Ltd (Vico), Beijing (6796),Germany E02 Bentley rest Europe (6E02),Japan E03 Bentley Japan (6E03),Korea, (South) E08 Bentley South Korea (6E08),United Arab Emirates E06 Bentley Middle East and Africa (6E06),United Kingdom E01 Bentley UK (6E01),United States E05 Bentley USA and rest America (6E05)
Brand	Bentley
Transaction No.	2070041/2
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0001 - Engine electronics	P218100: Cooling System Performance		static
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 control	functionality -> faulty	
engine -> cooling system	functionality	
engine -> cooling system -> engine cooling fan	noise, vibration -> 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		*	*	*
3S34CB	2023	E		*	*	*
3S42CB	2020	E		*	*	*
3S42CB	2021	E		*	*	*
3S42CB	2022	E		*	*	*
3S42CB	2023	E		*	*	*
3S44CB	2023	E		*	*	*
4V14D9	2018	E		*	*	*
4V14D9	2019	E		*	*	*
4V14D9	2020	E		*	*	*
4V14D9	2021	E		*	*	*
4V14D9	2022	E		*	*	*
4V14D9	2023	E		*	*	*
ZG22CB	2021	E		*	*	*
ZG22CB	2022	E		*	*	*
ZG22CB	2023	E		*	*	*
ZG24CB	2023	E		*	*	*
ZV14D9	2023	E		*	*	*

Documents

Document name
master.xml

INTERNAL

These documents are exclusively for internal use.

Coolant warning lamp within the DIP - One or a combination of DTC's is evident P218100 - P017B00 - P017C00 - P017E00

Customer statement / workshop findings

Customer statement

Customer reports a red engine coolant overhear warning within the DIP

Workshop findings

One or a combination of the following DTC's are evident within the engine control unit:

- P218100 - Malfunction in cooling system
- 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 2070041/2

The Warranty accounting instructions have been updated to align with the repair manual instructions within Rep.Gr 19

The plastic housing of the coolant temperature sensor G407 may not be correctly sealed against coolant vapour therefore damage to the O-ring located at the tip of the sender may allow moisture to enter the sensor element and restrict the function of the component

Note: The restrictions in some cases may be temporary

In the event the issue is as described the operative should refer to the instructions within the Measure section of this TPI

Production change

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Measure



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 accounting instructions

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 (Use 99 index until 08/02/24)

Time 90 TU

Bentayga (All V8 Kovomo models)

Time to replace G407

Labour operation code 19 78 19 23 (Use 99 index until 08/02/24)

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

Parts information

Refer to the ETKA parts catalogue