

Technical Service Bulletin

Topic	Engine cooling system over cooling - One or a combination of DTC's may be evident P218100 - P1BB400
Market area	Bentley: worldwide (2WBE),China 796 VW Import Comp. Ltd (Vico), Beijing (6796)
Brand	Bentley
Transaction No.	2075140/2
Level	EH
Status	Released for publishing
Release date	Mar 12, 2025

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0001 - Engine electronics	P218100: Cooling System Performance		Intermittent
0001 - Engine electronics	P219100: System Too Lean at Higher Load; Bank 1		static
0001 - Engine electronics	P1BB400: Cylinder head temperature too low		Intermittent
0001 - Engine electronics	P1BB400: Cylinder head temperature too low		static
0001 - Engine electronics	P226300: Turbocharger/Supercharger Boost System Performance		Intermittent
0001 - Engine electronics	P06DA00: Engine Oil Pressure Control Circuit/Open		Intermittent
0001 - Engine electronics	P06DB00: Engine Oil Pressure Control Circuit Low		Intermittent

New customer code

Object of complaint	Complaint type	Position
engine -> cooling, lubrication	functionality	
engine -> cooling system	functionality	
engine -> cooling, lubrication -> engine coolant temperature regulation	functionality -> faulty	
engine -> cooling, lubrication -> engine coolant temperature regulation	functionality -> too slow	

Vehicle data

Bentayga Series

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14D9	2018	E		*	*	*
4V14D9	2019	E		*	*	*
4V14D9	2020	E		*	*	*
4V14D9	2021	E		*	*	*
4V14D9	2022	E		*	*	*
4V14D9	2023	E		*	*	*
ZV14D9	2023	E		*	*	*

New Continental GT/C and New Flying Spur

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		*	*	*
ZG22CB	2021	E		*	*	*
ZG22CB	2022	E		*	*	*
ZG22CB	2023	E		*	*	*
ZG24CB	2023	E		*	*	*

Documents

Document name
master.xml

Condition

- DTC P218100 - Cooling System Performance and / or DTC P1BB400 Cylinder head temperature too low is stored in the Engine Control Module (ECM)
- Emission Control Lamp illuminated on the Driver Instrument Panel (Figure 1)



Figure 1

- The vehicle "warm up" time is longer when compared to comparison vehicles of the same specification (model / engine)

Technical Background

It is possible for the engine coolant thermostat to corrode over time, this corrosion is due to an adverse reaction of the thermostat material with the engine coolant

The corrosion and subsequent build-up of debris prevents the correct operation of the thermostat when closing, resulting in over cooling. The ECM triggers a DTC when the target engine temperature is outside of the specified parameter

In the event that the described symptoms are evident the operative should conduct the instructions within the Measure section

Production Solution

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Service

1) Replace the engine coolant thermostat (Figure 2) - Refer to 19 - Engine cooling - Coolant regulator (Thermostat insert) (V8 biturbo) - To remove and fit



TIP: Within the quoted Rep.Gr procedures there are single use items which must be replaced and not reused. Ensure that new replacements are available prior to starting this procedure



IMPORTANT: Ensure all procedures within the Repair manual are followed including full wheel alignment and calibrations

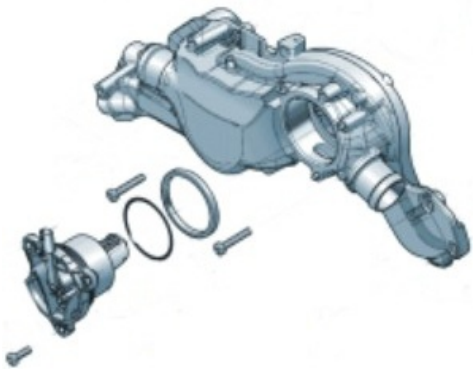


Figure 2

2) On completion conduct a road test to confirm the issue is resolved

Warranty

Warranty type 110 or 910
 Damage service number 19 58
 Damage code 00 10

Bentayga - Up to and including 20 M/Y

Time to replace the Coolant regulator (Thermostat)

Labour operation code 19 58 19 71
 Time 40 TU

Time to position the front end module into service position

Labour operation code 50 38 09 20
 Time 550 TU

Bentayga - 21 M/Y onwards

Time to replace the Coolant regulator (Thermostat)

Labour operation code 19 58 19 71
 Time 40 TU

Time to position the front end module into service position

Labour operation code 50 38 09 20
 Time 630 TU

Road test

Labour operation code 01 21 00 00
 Time 50 TU



IMPORTANT: Ensure all procedures within the Repair manual are followed including full wheel alignment and calibrations

Time to replace the Coolant regulator (Thermostat) depending on model

New Continental GT/C

Labour operation code 19 58 19 71
 Time - 40 TU

New Flying Spur

Labour operation code 19 58 19 71
 Time - 40 TU

Road test

Labour operation code 01 21 00 00
 Time 50 TU

Required Parts and Tools

Refer to the electronic parts catalogue (ETKA).

