

Technical product information

Topic	Overheat condition-DTC logged for air in the system or DTC P218100-Cooling System Performance with symptom code 8113
Market area	Bentley; worldwide (2WBE)
Brand	Bentley
Transaction No.	2051893/4
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		Intermittent
0011 - Engine Electronics 2	P218100: Cooling System Performance		static
0001 - Engine electronics	P218100: Cooling System Performance		static
0011 - Engine Electronics 2	P218100: Cooling System Performance		Intermittent

New customer code

Object of complaint	Complaint type	Position
engine -> cooling system	functionality	
engine -> cooling system -> coolant expansion tank	leaks -> coolant leak	
engine -> cooling, lubrication	functionality	
lighting system, signalling -> sound signals -> "coolant level" acoustic warning	functionality -> activates	
vehicle service -> vehicle diagnosis -> guided fault finding	control units, services -> with event log entry	

Vehicle data

New Continental GT/C - New Flying Spur and Bentayga W12

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S31AB	2018	E		*	*	*
3S31BB	2018	E		*	*	*
3S31BB	2019	E		*	*	*
3S31BB	2020	E		*	*	*
3S31BB	2021	E		*	*	*
3S31BB	2022	E		*	*	*
3S31BB	2023	E		*	*	*
3S31EB	2021	E		*	*	*
3S31EB	2022	E		*	*	*
3S31EB	2023	E		*	*	*
3S41BB	2019	E		*	*	*
3S41BB	2020	E		*	*	*
3S41BB	2021	E		*	*	*
3S41BB	2022	E		*	*	*
3S41BB	2023	E		*	*	*
3S41EB	2020	E		*	*	*
3S41EB	2021	E		*	*	*
3S41EB	2022	E		*	*	*
3S41EB	2023	E		*	*	*
4V14A9	2017	E		*	*	*
4V14A9	2018	E		*	*	*
4V14A9	2019	E		*	*	*
4V14A9	2020	E		*	*	*
4V14A9	2021	E		*	*	*
4V14A9	2022	E		*	*	*

4V14A9	2023	E		*	*	*
4V14G9	2020	E		*	*	*
4V14G9	2021	E		*	*	*
4V14G9	2022	E		*	*	*
4V14G9	2023	E		*	*	*
ZG21BB	2020	E		*	*	*
ZG21BB	2021	E		*	*	*
ZG21BB	2022	E		*	*	*
ZG21BB	2023	E		*	*	*
ZG26BB	2023	E		*	*	*

Documents

Document name
master.xml

Overheat condition-DTC logged for air in the system or DTCP218100-Cooling System Performance with symptom code 8113

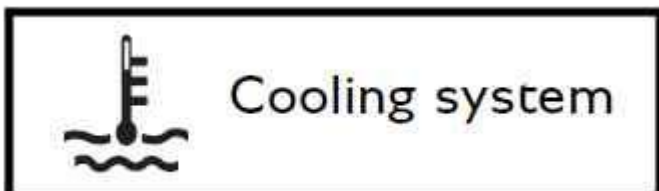
Customer statement / workshop findings

Engine coolant overheat condition

Technical background

The following symptoms are evident individually or as a combination:

- Warning light within the Drivers Information Panel (DIP)



- Coolant loss
- Diagnostic trouble codes (DTC's) logged within the Engine control module/s relating to "Air in the coolant system"
- Engine overheating issues and/or DTCP218100: Cooling System Performance symptom code 8113 is evident



CAUTION: In the event that coolant leaking from the mechanical water pump the operative should refer to TPI 2065919/-

NOTE: Should any of the symptoms be evident refer to the Measure section of this TPI ensuring the Repair manual procedure is followed using the applicable VIN to confirm the correct procedure is adhered to

Production change

In the event the issue described is evident post the following VIN's the operative must raise a DISS query and await feedback before conducting any further work

New Continental GT/C and New Flying Spur

- SCBBE53S0LC083892

Bentayga

- SJAAP14V3LC032134

Measure

- 1) Fully drain the cooling system - Refer to Elsa Pro Rep.Gr 19 Cooling system - To drain and fill
- 2) Replace the Thermostat housing (includes thermostat) - Refer to Elsa Pro Rep.Gr 19 Cooling system - Thermostat - To replace

Within this procedure there are single use items which must be replaced and not reused. Ensure that new replacements are available prior to starting this procedure

DO NOT REMOVE THE THERMOSTAT FROM THE HOUSING AT ANY TIME FROM EITHER THE NEW OR OLD HOUSING.THE THERMOSTAT IS ALIGNED AT THE SUPPLIER AND SHOULD NOT BE DISTURBED

DO NOT ATTEMPT TO REFILL THE COOLANT SYSTEM WITHOUT REPLACING THE THERMOSTAT HOUSING

- 3) Refill the cooling system - Refer to Elsa Pro Rep.Gr 19 Cooling system - To drain and fill
- 4) Park the vehicle in a well ventilated area ensuring suitable exhaust extraction is available and used at all times

- Allow the engine to idle for 30 minutes in a well ventilated area whilst monitoring the engine coolant temperature using ODIS



CAUTION: In the event the coolant temperature exceeds 115 degrees Celsius the operative **MUST** switch off the engine and raise a new Technical DISS query or respond via an existing DISS query, the operative must await feedback before conducting any further work

VERY IMPORTANT: Whilst the engine is idling the operative **MUST** check to confirm the engine is operating to specification and also confirm there are no warnings evident within the DIP whilst the engine is idling in particular engine overheating warnings/issues

5) Conduct a road test to confirm the issue is now resolved

IMPORTANT: In the event the issue is not resolved the operative must raise a DISS query and await feedback before conducting any further work

Warranty accounting instructions

Warranty Type 110 or 910

Damage Service Number 19 55

Damage Code 00 55

Time to replace the thermostat housing

Bentayga

Labour Operation Code 19 55 19 50

Time 60 TU

Time to Remove the Front End Module into service position (Bentayga only)

Labour Operation Code 50 38 09 00

Time 550 TU

New Continental GT/C

Labour Operation Code 19 55 19 00

Time 310 TU

New Flying Spur

Labour Operation Code 19 55 19 00

Time 260 TU

Road test

Labour Operation Code 01 21 00 00

Time 50 TU

Parts information

Description	Part Number	Quantity
Thermostat housing	Refer to ETKA parts catalogue	1
Thermostat housing associated replacement parts	Refer to ETKA parts catalogue	As per Elsa pro instruction