

Technical Service Bulletin

Topic	High pitched whistle from the engine - Warning light within the DIP - Engine not running smoothly - Numerous DTC's
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2059379/1
Level	EH
Status	Released for publishing
Release date	May 4, 2020

Diagnostic trouble codes

Diagnostic address	Diagnostic trouble code	Fault symptom	Storage state
0001 - Engine Control Module 1	P030000: Random/Multiple Cylinder Misfire Detected		Intermittent
0001 - Engine Control Module 1	P030000: Random/Multiple Cylinder Misfire Detected		static
0001 - Engine Control Module 1	P030500: Cyl.5 Misfire Detected		Intermittent
0001 - Engine Control Module 1	P030500: Cyl.5 Misfire Detected		static
0001 - Engine Control Module 1	P030600: Cyl.6 Misfire Detected		Intermittent
0001 - Engine Control Module 1	P030600: Cyl.6 Misfire Detected		static
0001 - Engine Control Module 1	P030700: Cyl.7 Misfire Detected		Intermittent
0001 - Engine Control Module 1	P030700: Cyl.7 Misfire Detected		static
0001 - Engine Control Module 1	P030800: Cyl.8 Misfire Detected		Intermittent
0001 - Engine Control Module 1	P030800: Cyl.8 Misfire Detected		static
0001 - Engine Control Module 1	P01C900: Fuel Rail/System Pressure Bank 2 Too High		Intermittent
0001 - Engine Control Module 1	P01C900: Fuel Rail/System Pressure Bank 2 Too High		static
0001 - Engine Control Module 1	P227900: Intake Air System Leak		Intermittent
0001 - Engine Control Module 1	P227900: Intake Air System Leak		static
0001 - Engine Control Module 1	P036300: Misfire Detected - Fueling Disabled		Intermittent
0001 - Engine Control Module 1	P036300: Misfire Detected - Fueling Disabled		static
0001 - Engine Control Module 1	P016A00: Excessive Time To Enter Closed Loop Air/Fuel Ratio Control		Intermittent
0001 - Engine Control Module 1	P016A00: Excessive Time To Enter Closed Loop Air/Fuel Ratio Control		static

New customer code

Object of complaint	Complaint type	Position
engine -> cooling, lubrication	functionality	
engine -> emissions control	control modules, services	
engine -> engine operation -> engine running	noises, vibrations -> noise	
vehicle service -> vehicle diagnosis -> Guided Fault Finding (GFF)	control modules, services -> with fault stored in the DTC memory	
engine -> lubrication system	noises, vibrations	

Vehicle data

Bentayga - V8 Kovomo

Sales types

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

Documents

Document name
master.xml



Condition

Customer statement/Workshop findings

- Emission control warning light evident within the DIP (Figure 1)



Figure 1

- Engine not running/idling smoothly
- High pitched whistle from the right hand side of the engine *TIP: Refer to video within the Bentley Hub referencing TPI 2059379/-*
- A selection of DTC's are evident (as per TPI Event memory entries)

Technical Background

Air intake leak due to a broken one-way diaphragm valve from within the Bank 1 breather line

Production Solution

Not applicable

Service

1) At engine idle speed - Listen for air leaks/whistle noise from right hand side of engine

- Attempt to clear all related DTC's
- Conduct an ignition cycle
- Recheck for the presence of any related DTC's/symptoms **NOTE:** In the event of related DTC's and symptoms returning carry out the remaining instructions

2) Referring to Figure 2 - Replace the Bank 1 breather line (Point A) and fixing (Point B) – Refer to applicable sections from Rep.Gr 10 - Oil mist separator bank 1 - To remove and fit

- Replace the oil filler pipe seal to the Bank 2 oil separator (Point C)

And

Replace the oil filler pipe including all seals (Figure 3) – Refer to applicable sections from Rep.Gr 10 - Oil mist separator bank 2 - To remove and fit

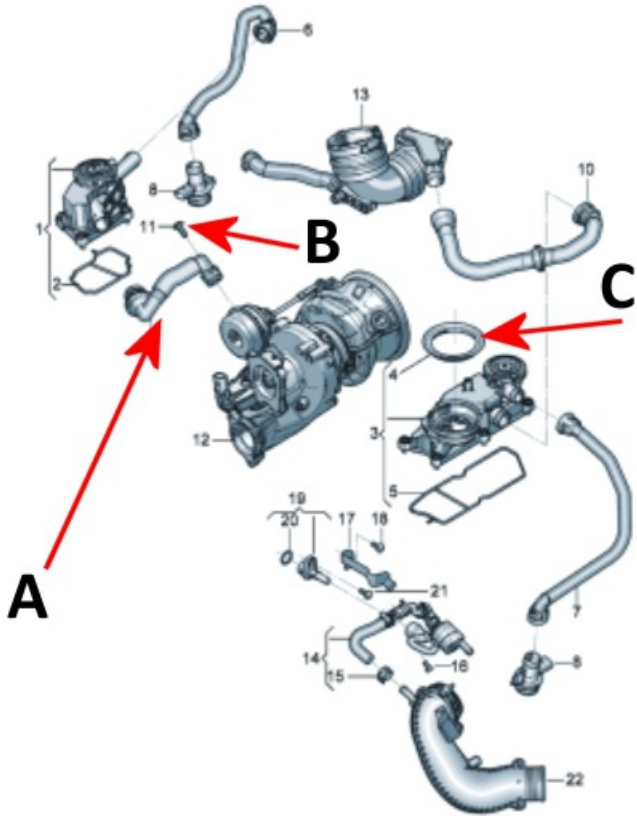


Figure 2

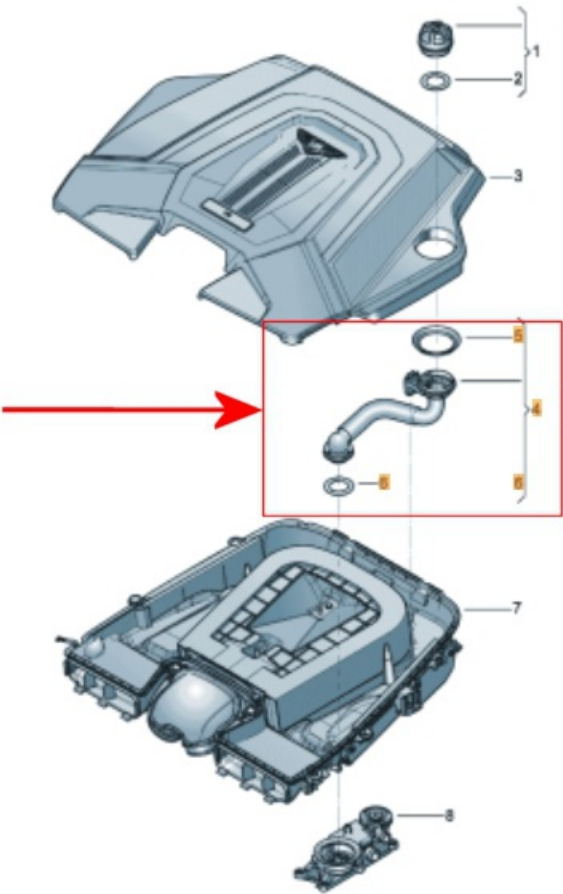


Figure 3

Warranty

Warranty Type - 910 or 190

Damage Service Number 10 50

Damage Code 00 20

Labour

Labour Operation Code 10 52 41 22 (Use 10 52 41 99 until 04/06/20)

Time 50 Time units

Required Parts and Tools

Part number	Description	Quantity
0P2 103 211B	Bank 1 - Breather line	1
0P2 103 448	Fixing	1
4M0 115 301M	Oil filler pipe	1
06M 103 727A	Oil filler pipe seal to Bank 2 oil separator	1