

Technical Service Bulletin

Topic	W12 TSI Camshaft Phaser Position Related DTC
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2051219/3
Level	EH
Status	Released for publishing

New customer code

Object of complaint	Complaint type	Position
information, navigation, communication, entertainment -> malfunction display symbols -> emissions control malfunction display	functionality -> activates	

New workshop code

Object of complaint	Complaint type	Position
engine -> cylinder head, valvetrain -> camshaft adjusting valve	functionality -> no function	

Vehicle data

Bentayga W12 TSI

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
4V14A9	2017	E	SUV BY636 447/W128AG	DDBB	QTZ	QUS
4V14A9	2017	E	SUV BY636 447/W128AG	DDBB	RGQ	QUS
4V14A9	2017	E	SUV BY636 447/W128AG	DDBB	SHT	QUS
4V14A9	2018	E	SUV BY636 447/W128AG	DDBB	QTZ	QUS
4V14A9	2018	E	SUV BY636 447/W128AG	DDBB	RGQ	QUS
4V14A9	2018	E	SUV BY636 447/W128AG	DDBB	SHT	QUS

New Continental GT W12

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3S3*	2018	E		*	*	*

Documents

Document name
master.xml

Condition

Customer reporting "Emission Control Warning Indicator" displayed. Engine running rough.

Technical Background

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Production Solution

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Service

In the event of the following fault codes, carry out the additional checks listed below prior to undertaking any further work:

Fault codes:

P001100: A Camshaft Position (Bank1) Timing over-advanced or System Performance

P002400: B Camshaft Position (Bank2) Timing over-advanced or System Performance

P002100: A Camshaft Position (Bank2) Timing over-advanced or System Performance

P000A00: "A" Camshaft Position Slow Response (Bank 1)

P000D00: "B" Camshaft Position Slow Response (Bank 2)

P052A00: Cold Start "A" Camshaft Position Timing Over-Advanced

P054C00: Cold Start "B" Camshaft Position Timing Over-Advanced

Additional checks

1. Ensure the electrical integrity of all VVT related systems is confirmed including all connections and pins.
2. Following the ELSA-PRO procedure, confirm the engine oil pressure.
 - a. If oil pressure is good then proceed to step 3.
 - b. If the oil pressure is low, the root cause is likely not phaser related and therefore further investigation is required. If necessary please raise a DISS technical query.
3. Replace the engine oil and filter, idle the vehicle for 30mins to get engine hot, clear all DTCs and drive the vehicle to see if the fault can be reproduced;
 - a. If no fault occurs, retest the vehicle from cold. If still no fault occurs, the root cause is likely not phaser related and therefore further investigation is required. If necessary please raise a DISS technical query.
 - b. If the fault reoccurs, proceed to step 4.
4. Replace all four camshaft phasers and camshaft control solenoids.

To replace the camshaft phasers and camshaft control solenoids.

Remove the engine and transmission. Refer to "Engine – To remove and fit".

Replace the camshaft phasers. Refer to "Camshaft phasing – To remove and fit".

Replace the camshaft control solenoids. Refer to "Camshaft control solenoids (Bank 1 and 2) - To remove and fit".

Note. If the procedures are not yet available in Elsapro then please raise a DISS technical query.