# **Technical product information**

Topic	W12 TSI Camshaft Phaser Position Related DTC
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2051219/1
Level	EH
Status	Approval
Release date	

#### New customer code

Object of complaint	Complaint type	Position
1, ", ", ", ", ", ", ", ", ", ", ", ", ",	functionality -> activates	

## New workshop code

Object of complaint	Complaint type	Position
engine -> cylinder head, valve gear -> camshaft actuation valve	functionality -> without function / defect	

# Vehicle data

## Bentayga W12 TSI

## Sales types

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

## **Documents**

Document name master.xml

## **Customer statement / workshop findings**

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

### **Technical background**

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## **Production change**

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#### **Measure**

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.

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- 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".

 $\label{lem:camshaft} \textbf{Replace the camshaft phasers. Refer to \textbf{``Camshaft phasing-To remove and fit''.}$ 

 $Replace the \ camshaft \ control\ solenoids.\ Refer to \ \textbf{``Camshaft} \ control\ solenoids \ (Bank\ 1\ and\ 2)\ -\ To\ remove\ and\ \textbf{fit''}.$ 

 $\textbf{Note.} \ \textbf{If the procedures are not yet available in Elsapro then please raise a DISS technical query.}$