

Technical product information

Topic	Continental Series and Flying Spur - Camshaft Timing Over Advanced - V8T
Market area	Bentley: worldwide (2WBE)
Brand	Bentley
Transaction No.	2047762/4
Level	EH
Status	Approval
Release date	

Event memory entries

Diagnostic address	Event memory entry	Fault type	Fault status
0001 - Engine electronics	P001100: A Camshaft Position (Bank1) Timing over-advanced or System Performance		Intermittent
0001 - Engine electronics	P001400: B Camshaft Position (Bank1) Timing over-advanced or System Performance		Intermittent
0001 - Engine electronics	P001600: Crankshaft Position-Camshaft Position Correlation Bank 1 Sensor A		Intermittent
0001 - Engine electronics	P001700: Crankshaft Position-Camshaft Position Correlation Bank 1 Sensor B		Intermittent
0011 - Engine Electronics 2	P002100: A Camshaft Position (Bank2) Timing over-advanced or System Performance		Intermittent
0011 - Engine Electronics 2	P002400: B Camshaft Position (Bank2) Timing over-advanced or System Performance		Intermittent
0011 - Engine Electronics 2	P001800: Crankshaft Position-Camshaft Position Correlation Bank 2 Sensor A		Intermittent
0011 - Engine Electronics 2	P001900: Crankshaft Position-Camshaft Position Correlation Bank 2 Sensor B		Intermittent

New customer code

Object of complaint	Complaint type	Position
engine -> operation, engine control -> engine control unit	control units, services -> error message	
vehicle service -> vehicle diagnosis -> guided fault finding	control units, services -> with event log entry	
electrical power, electric system, data transfer -> power supply	functionality	
engine -> engine operation	functionality	

New workshop code

Object of complaint	Complaint type	Position
engine -> operation, engine control -> engine control unit	control units, services -> with event log entry	

Vehicle data

Continental GT, GTC and Flying Spur - GT3R- V8T

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
39*2**	2012	E		*	*	*
39*2**	2013	E		*	*	*
39*2**	2014	E		*	*	*
39*2**	2015	E		*	*	*
39*2**	2016	E		*	*	*
39*2**	2017	E		*	*	*
39*2**	2018	E		*	*	*
39349B	2015	E		*	*	*
4W22**	2014	E		*	*	*
4W22**	2015	E		*	*	*
4W22**	2016	E		*	*	*
4W22**	2017	E		*	*	*
4W22**	2018	E		*	*	*

Documents

Document name
master.xml

Customer statement / workshop findings

Check engine warning lamp illuminated on Drivers Instrument Panel.

DTC's stored within the Engine Control Module (ECM)

Technical background

Internal failure of Inlet or Exhaust Camshaft Adjuster may result in Malfunction Indicator Lamp illumination and DTC's stored within the ECM.

Production change

Modified locking pin within the Camshaft Adjuster introduced 08.09.2016.

Measure

Note: A DISS query must be raised prior to commencing with this TPI.

With a confirmed Complaint of Malfunction Indicator Lamp illumination and one or more of the following DTC's stored: -

0001 - Engine Control Module 1	P001100: A Camshaft Position (Bank1) Timing over-advanced or System Performance
0001 - Engine Control Module 1	P001400: B Camshaft Position (Bank1) Timing over-advanced or System Performance
0001 - Engine Control Module 1	P001600: Crankshaft Position-Camshaft Position Correlation Bank 1 Sensor A
0001 - Engine Control Module 1	P001700: Crankshaft Position-Camshaft Position Correlation Bank 1 Sensor B
0011 - Engine Control Module 2	P002100: A Camshaft Position (Bank2) Timing over-advanced or System Performance
0011 - Engine Control Module 2	P002400: B Camshaft Position (Bank2) Timing over-advanced or System Performance
0011 - Engine Control Module 2	P001800: Crankshaft Position-Camshaft Position Correlation Bank 2 Sensor A
0011 - Engine Control Module 2	P001900: Crankshaft Position-Camshaft Position Correlation Bank 2 Sensor B

- Check the date code marked on each of the four Camshaft Adjusters, any found to be prior to 8/9/2016 (Date code 09T08) - Figure 1 - should be replaced. When changing a Camshaft Adjuster the relevant Camshaft Control Valve should also be replaced.
- Camshaft adjusters later than date code 8/9/2016 (09T08) do not need to be changed – Figure 2 - unless the fault code stored is specifically for that particular Camshaft Adjuster.

As a guide, use the applicable sections from Repair Group 15 – Engine cylinder head, valve gear – 4.0L V8 – Camshaft timing chains – To remove and fit

The Elsa Pro procedure must be strictly adhered to, ensure all parts and fixings are replaced as instructed Always refer to the electronic parts catalogue for the latest parts information



Figure 1



Figure 2

- When replacing the camshaft adjusters check and confirm the specification of ALL four camshaft mating faces IMPORTANT: Should the camshaft faces be smooth as shown in Figure 3 all four camshafts should be replaced

As a guide, use the applicable sections from Repair Group 15 – Engine cylinder head, valve gear – 4.0L V8 – Camshaft timing chains – To remove and fit.

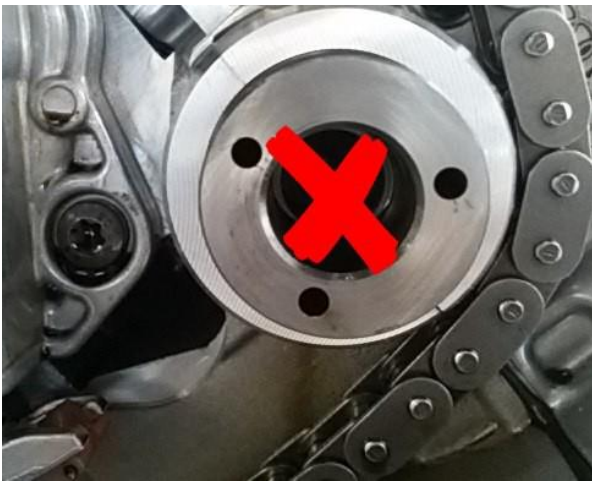


Figure 3

- Should the camshaft mating faces be machined patterned as Figure 4, there is no requirement to replace the camshafts

IMPORTANT: Should the camshafts be required to be replaced ensure all associated components are to specification as per Elsa Pro guidelines



Figure 4

Warranty accounting instructions

Continental GT - Camshaft adjuster – check date code

Warranty Type – 110 or 910

Damage Service Number 15 84

Damage Code 00 11

Labour

Labour Operation 15 84 02 20

Time 1610 TU

Continental GTC - Camshaft adjuster – check date code

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 02 20

Time 1650 TU

Flying Spur - Camshaft adjuster – check date code

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 02 20

Time 1620 TU

One Camshaft adjuster replaced - Bank 2

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 55 71

Time 180 TU

Two Camshaft adjusters replaced – Bank 2

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 56 71

Time 190 TU

One Camshaft adjuster replaced – Bank 1

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 55 72

Time 210 TU

Two Camshaft adjusters replaced – Bank 1

Warranty Type – 110 or 910

Labour

Labour Operation 15 84 56 72

Time 220 TU

Replace all four camshafts

Warranty Type – 110 or 910

Labour

Labour Operation 15 05 56 74

Time 240 TU

Parts information

Always refer to the electronic parts catalogue to ensure the latest specification parts are supplied

Part Number	Description	Quantity
06E 109 257T	Control valve camshaft	As required
06E 109 084N	Exhaust camshaft adjuster unit	As required
06E 109 083N	Inlet camshaft adjuster unit	As required
079 109 003GQ	Camshaft exhaust cylinders 1 – 4	1
079 109 003GN	Camshaft inlet cylinders 1 – 4	1
079 109 003HA	Camshaft exhaust cylinders 5 – 8	1
079 109 003GS	Camshaft inlet cylinders 5 – 8	1