

Technical product information

Topic	W12 TSI engine replacement - parts change
Market area	Bentley: worldwide (2WBE),Hongkong-Macau (5HK)
Brand	Bentley
Transaction No.	2048194/3
Level	EH
Status	Draft
Release date	

New customer code

Object of complaint	Complaint type	Position
engine -> engine operation	functionality	

New workshop code

Object of complaint	Complaint type	Position
engine -> lubrication system -> oil separator pipe	component / consumables -> incorrectly installed	

Vehicle data

Bentayga W12

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

Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prodto
SJA	***	**	*	*	*	000001	017261		

Documents

Document name
master.xml

Customer statement / workshop findings

- Car requires engine replacement
- Car requires replacement part for crank case ventilation system

Technical background

- A change to the engine crankcase ventilation system was made at VINSJAAC2ZV2JC017261. Service replacement engines will be supplied with this new engine crankcase ventilation system for all applications. Other than the visual difference in the crankcase ventilation system the new supplied engine is interchangeable with the unit removed from cars pre VIN SJAAC2ZV2JC017261.
- Careful consideration must be made when selecting parts from ETKA on cars affected by this change

Production change

Change as described above from VIN SJAAC2ZV2JC017261

Measure

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Car requirement	Practical consideration
Car pre VIN SJAAC2ZV2JC017261 that requires a replacement engine	Supplied new engine will have different crank case ventilation hardware but will be a direct replacement engine no changes required
A future event necessitates that a car pre VIN SJAAC2ZV2JC017261 that is now fitted with this replacement engine requires one or more of the parts that make up the crank case ventilation system	Do not use the cars VIN in ETKA when searching for these parts, the part numbers for the new crank case ventilation system are found in the post VIN SJAAC2ZV2JC017261 parts frame

For guidance during replacement the following sections of the workshop manual should be referenced

- Engine and automatic transmission assembly – to remove and fit located in -power unit – removing and installing engine Rep. Gr. 10
- Engine oil cooler – to remove and fit located in -power unit – lubrication Rep. Gr. 17
- Oil separator tank – to remove and fit located in -power unit – lubrication Rep. Gr. 17
- Oil breather system return line – to remove and fit in Rep. Gr. 17
- Assembly breather valves and pipes – to remove and fit located in -power unit – lubrication Rep. Gr. 17
- Thermostat coolant distribution pipe – to remove and fit in Rep. Gr. 19
- Turbocharger speed sensor G688/G689 – to remove and fit, located in Rep. Gr. 21
- Water pump vacuum solenoid and pipes – to remove and fit in Rep. Gr. 21
- Exhaust manifold and turbo charger assembly RH – to remove and fit located in power unit – exhaust system Rep. Gr. 26
- Engine harness Bank 1 – to remove and fit located in vehicle electrics – wiring Rep. Gr. 97

Parts information

Original parts	New part	Description (brief change detail)
07P103283C	07P103283D	Breather line with bracket (Re-routed oil drain pipe, breather to engine sump)
07P121070N	07P121070AG	Coolant pipe with coolant hose (New coolant pipe for deletion of breather pipe)
07P103474M	07P103474R	Breather line – NESI – ESI is tamper-proofed assembly 07P103474K. >L
07P103464D	07P103464E	Oil separator (Re-routed oil drain pipe for sump pipe connection)
07P117037G	07P117037H	Oil cooler (revised coolant pipe stub connection)
07P121070J	07P121070AH	Coolant pipe (Revised coolant return pipe, re-routed with revised connection)
07P133778L	07P133778G	1 set of vacuum pipes (Re-positioned / re-routed vacuum pipe and valve for water pump control)
07P145140H	07P145140K	Oil pipe (Re-routed Bank 1 turbo oil return pipe)
07P145675M	07P145675J	Vacuum unit for exhaust gas turbocharger
07P145721G	07P145721H	Exhaust gas turbocharger, Bank 1 (Not necessarily required, as speed sensor, available separately can be supplied. Also, heatshield deleted)
07P145245	07P145245K	Bracket
07P906341C	07P906341E	Speed sensor with cable (can be supplied in lieu of Bank 1 turbocharger assembly 07P145675J)
36A971595P	36A971595S	Wiring set for engine (Re-routed for new turbocharger speed sensor position)