

## Technical product information

|                        |                                                         |
|------------------------|---------------------------------------------------------|
| <b>Topic</b>           | Mulsanne - Camshaft Position - Diagnostic Trouble codes |
| <b>Market area</b>     | Bentley: worldwide (2WBE),Hongkong-Macau (5HK)          |
| <b>Brand</b>           | Bentley                                                 |
| <b>Transaction No.</b> | 2057991/1                                               |
| <b>Level</b>           | EH                                                      |
| <b>Status</b>          | Approval                                                |
| <b>Release date</b>    |                                                         |

### New customer code

| Object of complaint                             | Complaint type          | Position |
|-------------------------------------------------|-------------------------|----------|
| engine -> engine operation                      | noise, vibration        |          |
| engine -> operation, engine control             | functionality           |          |
| engine -> engine operation -> engine refinement | functionality -> uneven |          |

### 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

### Mulsanne

#### Sales types

| Type | MY   | Brand | Designation | Engine code | Gearbox code | Final drive code |
|------|------|-------|-------------|-------------|--------------|------------------|
| 3Y2* | 2016 | E     |             | *           | *            | *                |
| 3Y2* | 2017 | E     |             | *           | *            | *                |
| 3Y2* | 2018 | E     |             | *           | *            | *                |
| 3Y2* | 2019 | E     |             | *           | *            | *                |
| 3Y2* | 2020 | E     |             | *           | *            | *                |

## Documents

| Document name              |
|----------------------------|
| <a href="#">master.xml</a> |



## Customer statement / workshop findings

Malfunction Indicator Lamp (MIL) illuminated on driver instrument panel.

Engine runs "unevenly" when starting from cold.

Camshaft position Diagnostic Trouble Codes (DTC's) stored within Engine Control Unit (ECU).

## Technical background

When the engine is cold increased friction within the camshaft adjuster unit may result in "*camshaft position*" DTC's being stored within the ECU. The concern can be resolved by replacing the camshaft timing gear with a "B" level part which utilises an internal return spring with higher rate. See *Parts information* below.

There are many possible DTC's related to this failure, the following is a typical example – *P001200 : A Camshaft position (Bank 1) timing over-retarded*.

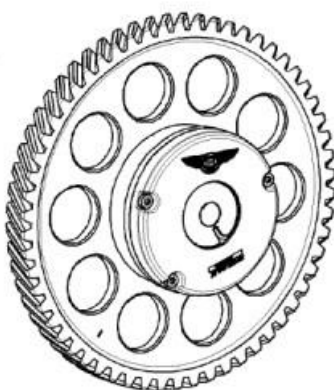
## Production change

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## Measure

With a confirmed customer complaint of uneven engine running and camshaft position DTC's stored within the ECU, replace the camshaft timing gear with a "B" level part.

Refer to *Repair Group - 15 Engine cylinder head, valve gear / Camshaft / Timing gear – to replace*.



When all work is complete conduct at least one "cold start" and two drive cycles prior to handing the vehicle to the Customer.

## Parts information

| Part Number | Description                                      | Quantity |
|-------------|--------------------------------------------------|----------|
| 07V109227B  | Camshaft Gear (including camshaft adjuster unit) | One      |