

### Field campaign

<b>Topic</b>	V8T cold start valve coolant leak (SC12/05)
<b>Market area</b>	Worldwide Bentley (1WBE)
<b>Brand</b>	Bentley
<b>Transaction No.</b>	2030588/1
<b>Campaign number</b>	E765
<b>Note</b>	
<b>Type</b>	
<b>US code</b>	

### Vehicle data

#### V8T

#### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3932*	2012	E		*	*	*
3932*	2013	E		*	*	*
3942*	2012	E		*	*	*
3942*	2013	E		*	*	*

#### Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SCB	***	**	*	C	C	██████████	██████████		
SCB	***	**	*	D	C	██████████	██████████		

### Documents

Document name
master.xml
master.doc

## Notes

### Technical background

A seal in the coolant warm up valve may have not seated correctly during assembly. On assemblies where this is the case a minor coolant leak will be evident in early life

### Remedy

The coolant warm up valve on all affected vehicles must be checked for evidence of coolant leakage then, once the coolant residue has been removed, the valve should be repeatedly cycled using the process detailed in this document. This operation has been proven to correctly seat the seal in the majority of cases whilst identifying the few valves that are not serviceable.

### Customer notification

Please ensure that all affected vehicles are checked and repaired before delivery to customers.

**This campaign is not applicable to cars that have been handed over to customers**

You should also inform your new car sales department so that the vehicles affected can be checked and repaired immediately (and not just before sale).

### Warranty accounting instructions

#### Check only including 50 engine cycles

Warranty type	710 or 910
Labour Operation Code	19 84 01 20
Damage Service Number	E765
Damage Code	0066
Time	80TU
Criteria ID	01

#### Remove and replace – Coolant warm up valve

Warranty type	710 or 910
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Labour Operation Code      19 84 19 20  
 Damage Service Number      E765  
 Damage Code                  0066  
 Time                              640TU  
 Criteria ID                      01

## Genuine parts

Parts only required if leak is present after carrying out flow chart process

New Part Number	Description	Old Part Number	Quantity
079 121 678 G + green or yellow identification spot in the centre of the valve housing (see figure 1 D)	coolant warm up valve	079 121 678 G	1

## Parts supply

If required replacement parts should be ordered from Bentley Motors Limited Crewe or through your regional Bentley parts distribution centre

## Parts despatch control

## Repair instructions

### Technical background

A seal in the coolant warm up valve may have not seated correctly during assembly. On assemblies where this is the case a minor coolant leak will be evident in early life

### Check

If the vehicle is not already listed as repaired in the "Repair history" (in ElsaPro), check the vehicle for the campaign identification mark, either a green or yellow mark on the valve housing (see position 'D' Figure 1) or a green mark on the charge air cooler fastener (see Figure 5) if one of these marks is not visible on an applicable vehicle then carry out the required work in accordance with these instructions

### Genuine parts

Parts only required if leak is present after carrying out flow chart process

New Part Number	Description	Old Part Number	Quantity
079 121 678 G + green or yellow identification spot in the centre of the valve housing (see figure 1 D)	coolant warm up valve	079 121 678 G	1

### Work



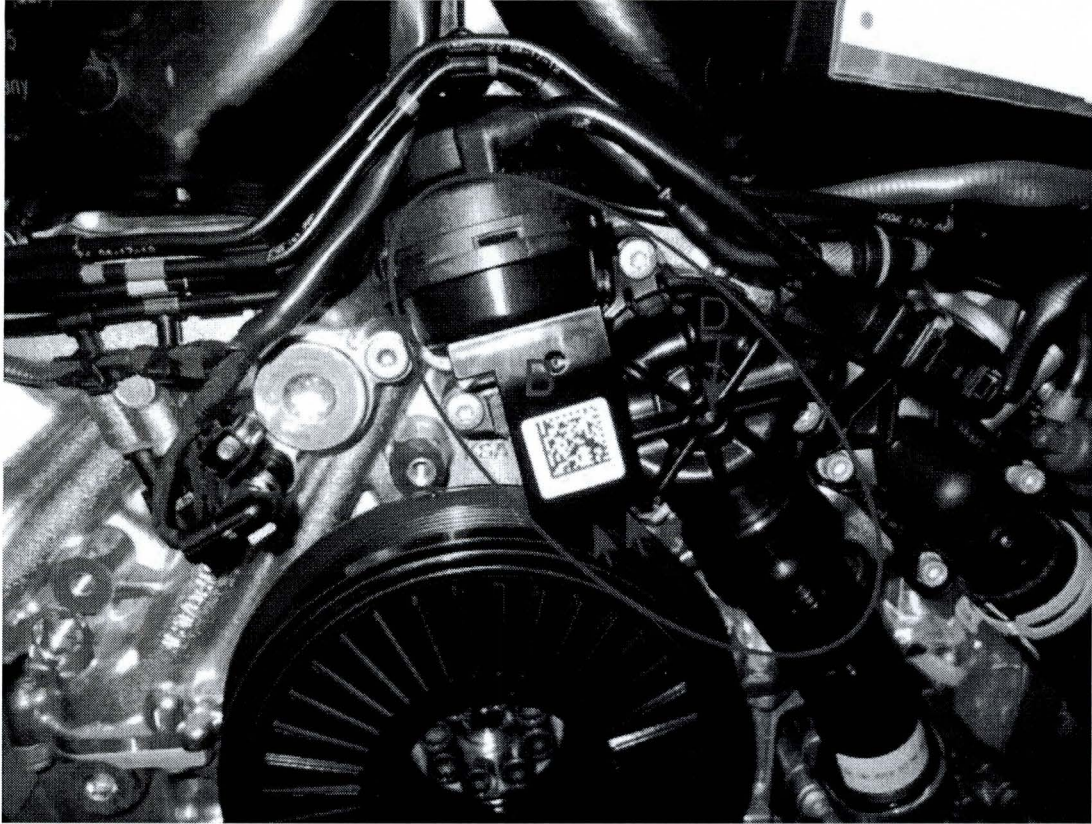


Figure 1

1. Locate the coolant warm up valve assembly (B). It is incorporated into the main engine coolant system and positioned adjacent to the crankshaft pulley, it is fitted with a distinctive bar code label (see Figure 1)

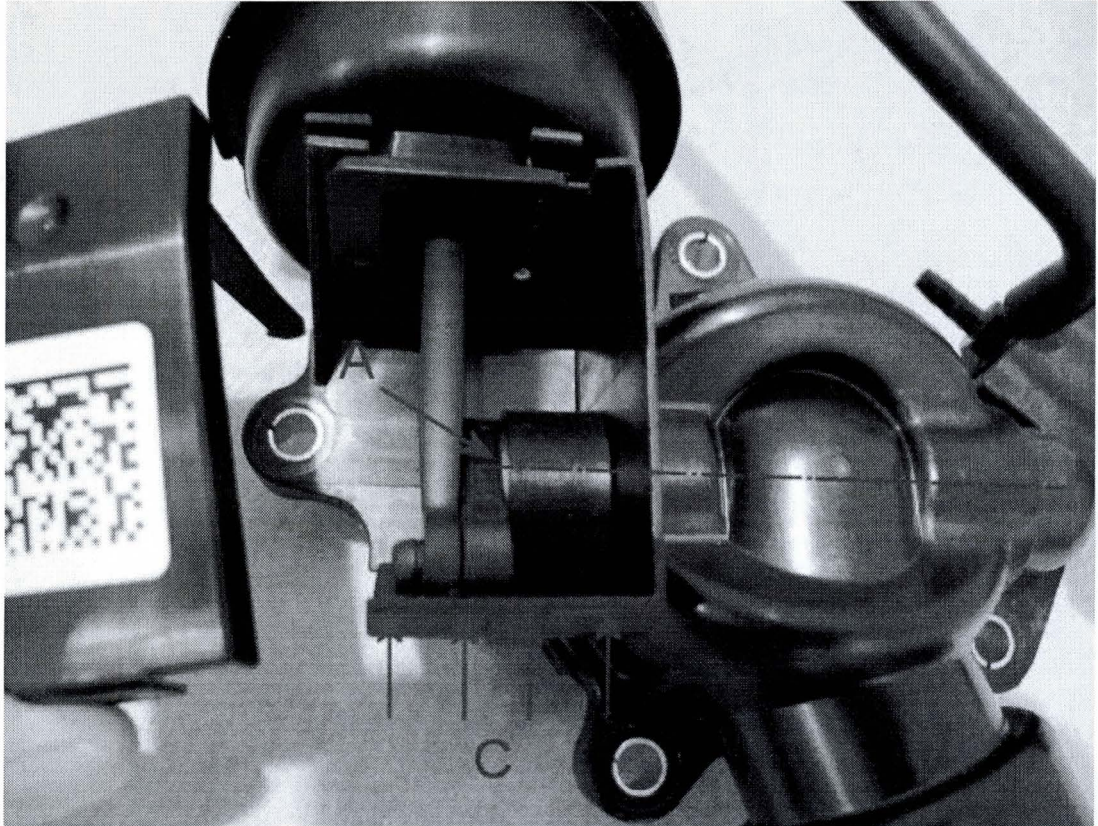


Figure 2

2. If the seal is leaking it will discharge a small amount of coolant from the valve spindle (A) into the actuating arm housing, this will subsequently be visible on the outside lower edge of the housing cover at point 'C'. Figure 2 shows the actuating arm housing cover removed. This is to aid understanding and clearly describe the leak path. It is not a requirement of this procedure to remove this cover. Note: the valve body in figure 2 is not fully representative of the series production part.



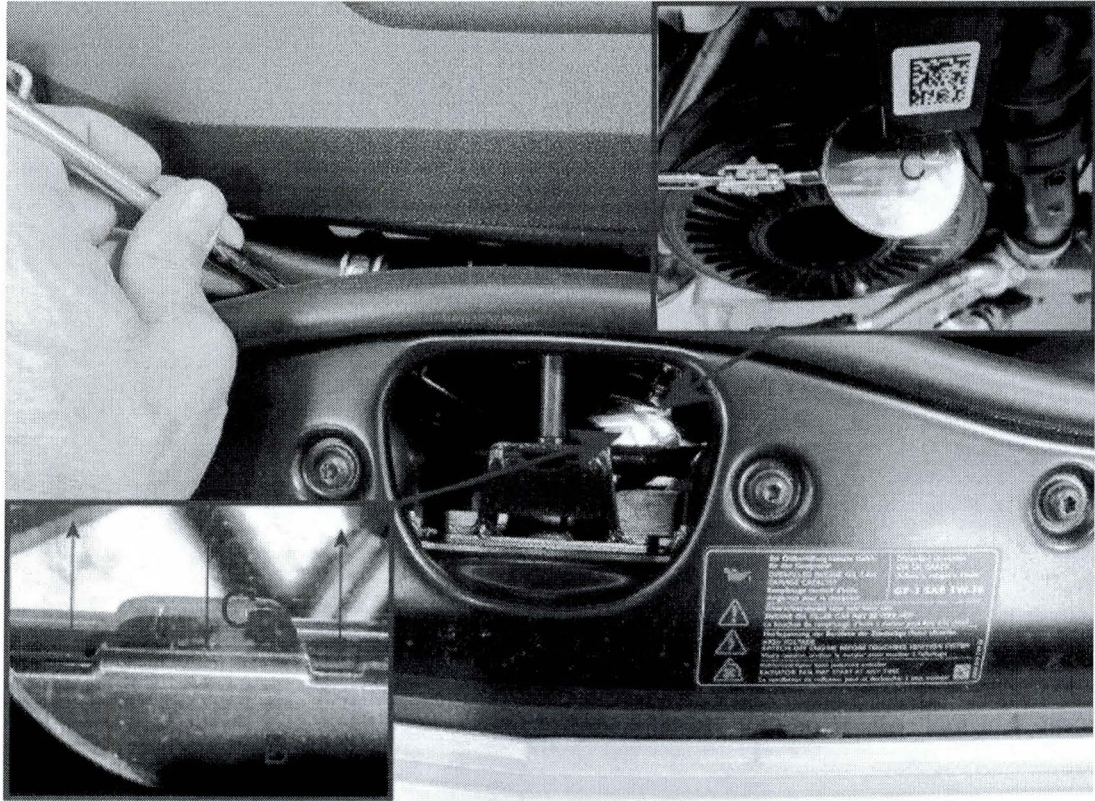


Figure 3

3. The initial inspection is carried out using a mirror. Note: no parts have to be removed for the inspection. Position the mirror so as to enable the underside of the lower edge of the housing cover (B) to be viewed at point 'C'. Check for the presence of coolant on this face (see Figure 2 and 3)
4. If there is any evidence of this component leaking coolant then spray the area with cleaning fluid to remove the coolant residue before carrying out the repeated cycle procedure detailed in the flow chart. If no coolant leak is evident on first inspection the flow chart procedure must still be performed. This test will initially expose the valve to the condition in which a valve with the incorrectly fitted seal will leak, then by continued cycling in a controlled environment will correctly position a misplaced seal, resulting in a serviceable component.

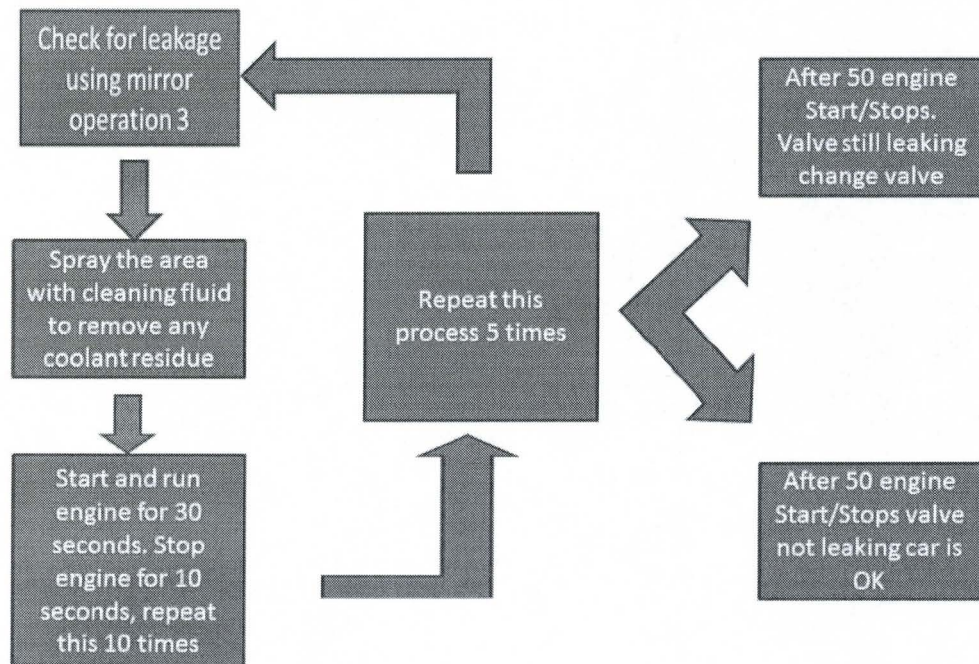


Figure 4

5. If any coolant leak is visible at the end of the above procedure then the valve must be replaced Refer to workshop manual Rep Gp19 Engine coolant warm-up valve - To remove and refit.
6. If no coolant leak is evident on completion of the above procedure then the valve is serviceable and therefore does not require replacement
7. On completion apply a green paint campaign mark to the charge air cooler fastener (see Figure 5)



## Identification

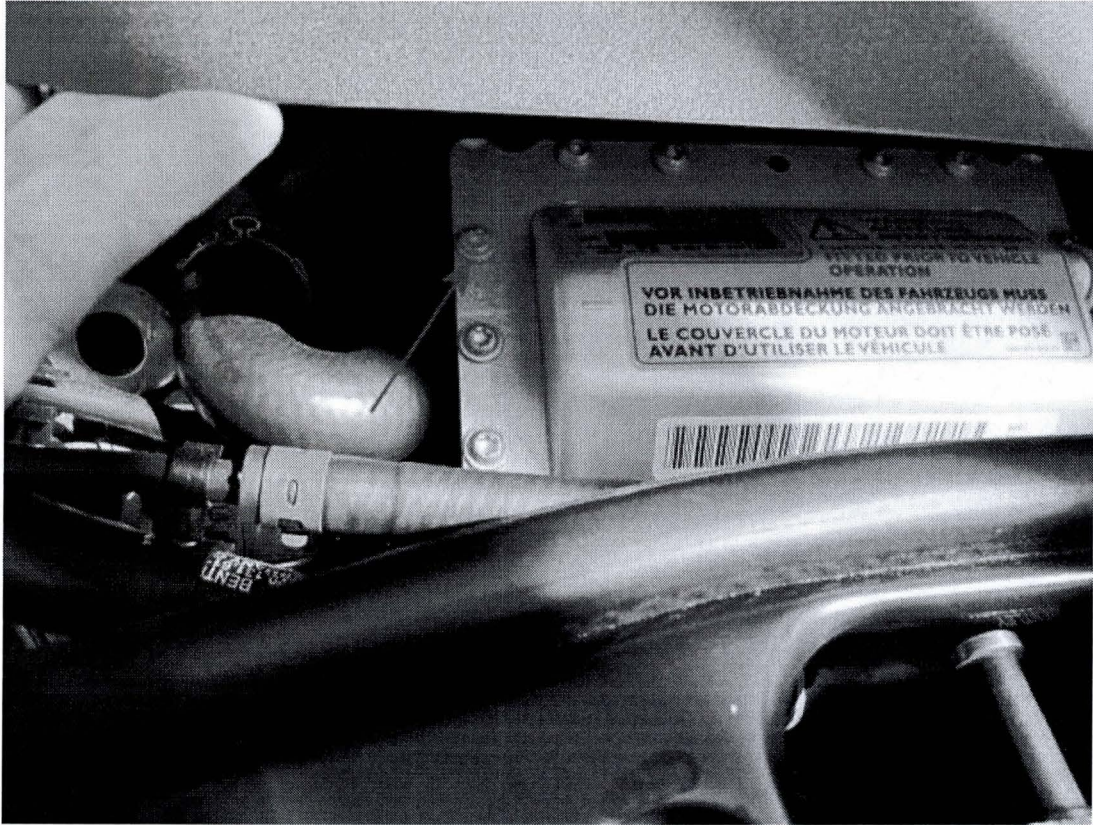


Figure 5