

**Field campaign**

<b>Topic</b>	Gear selector – warning and fault code – gear knob switch resistance high (SC12/02)
<b>Market area</b>	Worldwide Bentley (1WBE)
<b>Brand</b>	Bentley
<b>Transaction No.</b>	2028014/1
<b>Campaign number</b>	E763
<b>Note</b>	
<b>Type</b>	
<b>US code</b>	

**Vehicle data****Mulsanne****Sales types**

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3Y2*	2011	E		*	*	*
3Y2*	2012	E		*	*	*

**Chassis numbers**

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SCB	B**	3Y	*	B	C	015100	016528		
SCB	B**	ZH	*	B	C	015100	016528		

**Documents**

Document name
master.xml
master.doc

## Notes

### Technical background



A warning may be displayed in the driver's instrument panel that reads *Selector lever: System fault* *You can change gears*, this warning will be accompanied by fault code P17EC00, recorded in module 81-Selector lever sensors control unit UDS

The cause has been attributed to the four pin electrical connection between the gear knob and the gear selector shaft that forms part of the gearshift interlock. The relative movement produced between these two parts both from the drivers hand and from vehicle resonance can, in severe cases, result in a degradation of the terminals contact area. The subsequent out of specification resistance will result in this code being logged and the warning displayed

### Remedy

The vehicles detailed in the applicability section above require the application of a conductive enhancer to the four electrical connector pins located inside the gear knob

The conductive enhancer to be used is named Stabilant 22 which should be mixed, 4:1, with 99% Isopropanol or pure Ethanol the Stabilant 22 can also be applied neat. Only 99% Isopropanol or pure Ethanol must be used when mixing the Stabilant 22 mixture.



## Repair instructions

### Technical background



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### Check

If the vehicle is not already listed as repaired in the "Repair history" (in ElsaPro), check the vehicle for the campaign identification mark, (see Figure 4), if this is not visible carry out the required work in accordance with these instructions

### Genuine parts

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

## Work

If a fault of this nature has already been reported on a vehicle in the applicable section then this vehicle should have Stabilant applied to a new gear knob and that new part fitted to the vehicle. For all other vehicles in this campaign apply the Stabilant to the original gear knob

**Important:** When using Stabilant 22 and 99% Isopropanol or pure Ethanol be advised to wear eye protection and adhere to all health and safety guidelines.

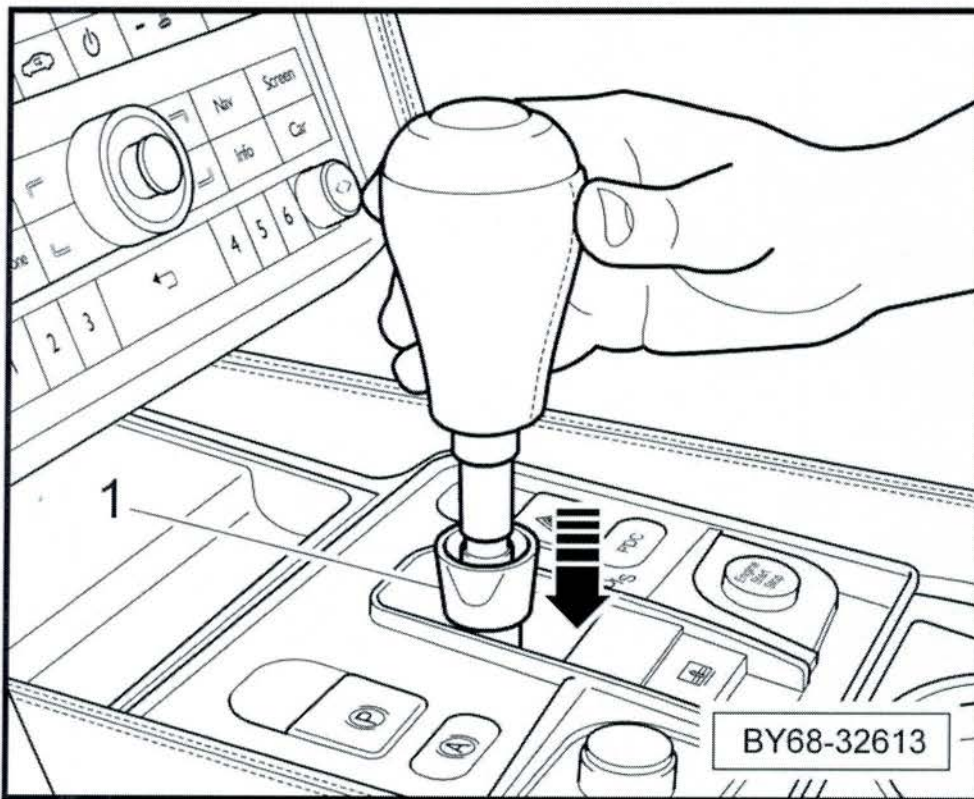


Figure 2

1. Remove the gear knob. Slide the collar (1) downwards then pull off the gear selector knob (see Figure 2)
2. Prepare the Stabilant
  - The Stabilant 22 kit (WT10224) includes 5ml of Stabilant 22 concentrate, an empty 15ml mixing bottle, application brushes, and manufacturers mixing instructions. The Stabilant 22 should be mixed by following the manufacturers mixing instructions.

- **Note:** Should Isopropanol or Ethanol not be available, Stabilant 22 can be used neat straight from the 5ml bottle, but use sparingly by applying only a thin coating ensuring an even and complete covering on the connections



- Figure 3
3. With the gear knob removed and away from the vehicle invert the knob to apply the Stabilant (see Figure 3)
    - Apply the mixed Stabilant 22A or 22E to the electrical pins located inside the gear knob. Use the application brush supplied in the kit, or a new clean cotton bud to apply a thin coating of Stabilant 22A/22E to each of the four connections. Ensure the pins are evenly and completely coated
    - Allow approximately 2-3 minutes for Isopropanol/Ethanol to evaporate, which will leave a thin layer of Stabilant 22 on the connections
  4. Apply yellow campaign completion mark to the base of the gear knob (see Figure 4)
  5. Refit the gear knob ensuring a positive click as it engages with the selector shaft. Refit the collar, again a positive click is indicative of correct engagement
  6. Clear any related fault codes and check the gear selector interlock function for correct operation

## Identification



Figure 4

On completion apply a yellow campaign completion mark to the underside of the gear knob