

## Technical product information

<b>Topic</b>	PSIS 750600B0001 Seat belt pre-tensioner buckle switches - Harness modification
<b>Market area</b>	Russische Föderation (5RU),Australia E04 Bentley rest Asia and Australia (6E04),China 796 VW Import Comp. Ltd (Vico), Beijing (6796),Germany E02 Bentley rest Europe (6E02),Japan E03 Bentley Japan (6E03),Korea, (South) E08 Bentley South Korea (6E08),United Arab Emirates E06 Bentley Middle East and Africa (6E06),United Kingdom E01 Bentley UK (6E01),United States E05 Bentley USA and rest America (6E05)
<b>Brand</b>	Bentley
<b>Transaction No.</b>	2068644/1
<b>Level</b>	EH
<b>Status</b>	Released for publishing
<b>Release date</b>	18-Nov-2022

### New customer code

Object of complaint	Complaint type	Position
occupant protection, pedestrian protection -> belts	functionality	

## Vehicle data

### Arnage and Silver Seraph

#### Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
0D2BL6	1998	E		Z1J	Z1C	-
0D2BL6	1999	E		Z1J	Z1C	-
3Z22K6	1998	E		Z1H	Z1C	-
3Z22K6	1999	E		Z1H	Z1C	-

## Documents

Document name
<a href="#">master.xml</a>
<a href="#">750600b0001_deu.pdf</a>
<a href="#">750600b0001_eng.pdf</a>
<a href="#">750600b0001_esp.pdf</a>
<a href="#">750600b0001_fra.pdf</a>
<a href="#">750600b0001_ita.pdf</a>

## Customer statement / workshop findings

This PSIS has been issued to inform parts and service personnel of a wiring modification to the buckle switches on the seat belt pre-tensioners. If a vehicle enters the workshop with an owner complaint of airbag warning light illumination and codes are stored for;

Drivers seat belt buckle switch resistance undefined – intermittent

Passenger seat belt buckle switch resistance undefined – intermittent

Then the following modification to the wiring should be carried out.

## Technical background

Heritage PSIS (Product Support Information Sheet). Reference attached PDF for details

## Production change

Reference attached PDF for details

## Measure

Reference attached PDF for details



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## **Wiring modification for seat belt pre-tensioner buckle switches**

**P.S.I.S.** 750600B0001

**Author** Tim Badger

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### **Applicable to**

<b>Model</b>	<b>Model Year</b>	<b>From VIN</b>	<b>To VIN</b>
Bentley Arnage	1998	SCBLB51E9WCX01001	SCBLB51E0WCX01033
Bentley Arnage	1999	SCBLB51E8XCH01107	SCBLB51E8XCX03050
Rolls-Royce Silver Seraph	1998	SCALA61E4WCX01002	SCALA61E1WCH01106
Rolls-Royce Silver Seraph	1999	SCALA61E9XCH01078	SCALA61E3XCX03051

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### **Introduction**

This Product Support Information Sheet has been issued to inform parts and service personnel of a wiring modification to the buckle switches on the seat belt pre-tensioners. If a vehicle enters the workshop with an owner complaint of airbag warning light illumination and codes are stored for;

Drivers seat belt buckle switch resistance undefined - intermittent

Passenger seat belt buckle switch resistance undefined - intermittent

then the following modification to the wiring should be carried out.

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### **Description**

It has become apparent in service that an increase in the electrical resistance of the wiring for the seat belt buckle switches may be experienced in certain circumstances. This resistance increase is caused by the formation of oxides in the harness terminals of two connectors applicable to this circuit.

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Because the buckle switch circuit is of a low voltage / low current type, this resistance increase can disrupt the passage of data from the buckle switch to the airbag control module. When this is detected the airbag warning light will be illuminated and the codes listed above will be stored.

This modification involves the rewiring of the buckle switch circuit, so that these two connectors are not utilised. For clarification this procedure is broken down into two parts, right-hand drive vehicles and left-hand drive vehicles.

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## **Procedure**

Before commencing work on the vehicle;

Unbolt and carefully tilt back both front seats as described in ASSIST - Workshop information.

Pull back the carpet on both sides of the console as described in ASSIST - Workshop information.

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## **RIGHT-HAND DRIVE VEHICLES**

### **Drivers side**

1. Remove drivers footrest and passengers false floor as described in ASSIST - Workshop information.
2. Locate the seat belt buckle switch connector (X1406) under the drivers seat and disconnect.
3. Using electrical tape fully insulate the connector.
4. Place the new connector on the link loom next to the original so that the correct length of harness can be obtained. Then double back the original connector and tape to the harness using electrical tape. Reconnect the switch connector.
5. Tie wrap the link loom to the seat harness as far as the console.
6. Remove the 8 mm bolt which retains the rear footwell ducting and feed the link loom under the ducting so that it lies against the transmission tunnel.
7. Resecure the ducting.
8. With reference to figure 1 locate connector X1456.
9. On the female side of the connector cut the following cables as near to the terminal as possible;



Black slate at cavity 13

Black green at cavity 18

10. Fit a piece of the heat shrink sleeve to both of these cables.
11. Splice and then solder the black slate cable on the link loom to the black slate cable cut at operation 9. Repeat this operation with the black green cables.
12. Using a heat gun shrink down the sleeving on both splices.

### **Passenger side**

1. Feed the link loom over the transmission tunnel following the route of the main harness at the front of the console under the heater box.
2. Remove the 8mm bolt which retains the rear footwell duct and feed the link loom under it so that it lies against the transmission tunnel. Resecure the footwell ducting.
3. Disconnect the connector (X1417) for the seat belt buckle switch under the passenger seat. Tape up this connector so that it is fully insulated.
4. Place the new connector on the link loom next to the original so that the correct length of harness can be obtained. Then double back the original connector and tape to the harness using electrical tape. Reconnect the switch connector.
5. Tie wrap the new link loom to the seat harness as far as the console.
6. Run the link loom under the console carpet ensuring that there is a clearance to the false floor mounts.
7. On the female side of connector X1456 cut the following cables as near to the terminal as possible;

Slate black at cavity 19

Black blue at cavity 20

8. Fit a piece of heat shrink to both of these cables.
9. Splice and then solder the slate black cable on the link loom to the slate black cable cut at operation 7. Repeat this operation with the black blue cables.
10. Using a heat gun shrink down the sleeving on each splice.

### **Power splice**

1. With reference to figure 1 identify connector X1457.

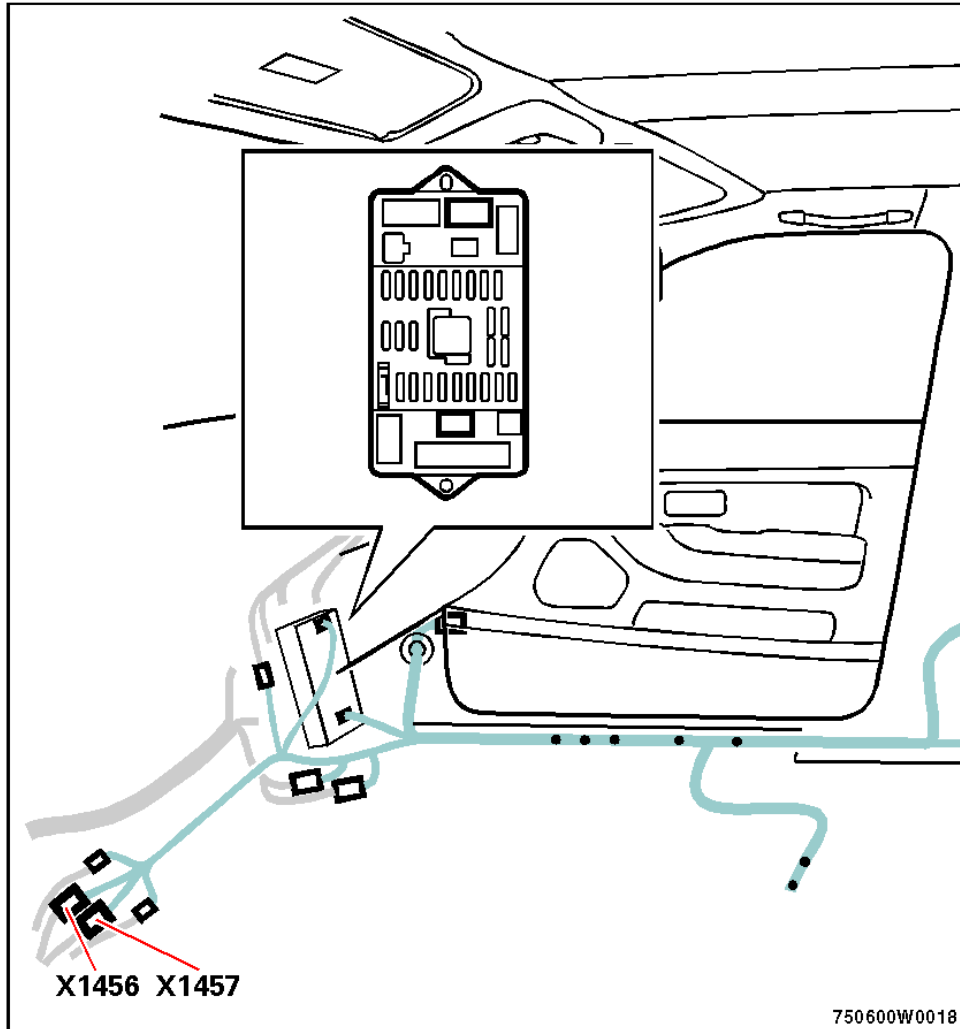


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2. On the female side of this connector cut the yellow cable at cavity 1. The cut should be made approximately 2 inches (50 mm) from the terminal. Strip back the insulation on each side of the cut and fit a piece of heat shrink.
3. Splice and solder together the two yellow cables from the link looms and the two yellow cables stripped at connector X1457. This splice should have two cables on each side of it.
4. Using a heat gun shrink the sleeving onto the splice.
5. Tidy up all the splices and ensure that they will not foul on the foot rest or it's mounts.
6. Clear the stored fault code with the GDS machine and exit the diagnostic routine.
7. Start the car and check that the airbag warning light does not illuminate.
8. Disconnect the passengers buckle switch and check that the warning light illuminates. Turn off the engine.
9. Re enter the airbag diagnostic routine and check that the code for undefined resistance of the passenger buckle switch is stored.
10. Reconnect the buckle switch. Clear the code and then exit diagnostics fully.
11. Rebuild the vehicle.



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**Figure 1 Right-hand drive vehicles**

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## **LEFT-HAND DRIVE VEHICLES**

### **Drivers side**

1. Remove the carpets on the drivers side of the vehicle and the passengers false floor as described in ASSIST - Workshop information.
2. Feed the link loom over the transmission tunnel following the route of the main harness at the front of the console under the heater box.



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3. Remove the 8 mm bolt which retains the rear footwell duct and feed the link loom under it so that it lies against the transmission tunnel. Resecure the rear footwell ducting.
4. Locate the seat belt buckle switch connector (X1285) under the drivers seat and disconnect. Using electrical tape fully insulate the connector.
5. Place the new connector on the link loom next to the original so that the correct length of harness can be obtained. Then double back the original connector and tape to the harness using electrical tape. Reconnect the buckle switch connector.
6. Tie wrap the new link loom to the seat harness as far as the console.
7. Run the link loom under the console carpet ensuring that the loom clears any moving parts.
8. With reference to figure 2 locate connector X1247.
9. On the female side of this connector cut the following cables as near to the terminal as possible:  
  
Black slate at cavity 13  
  
Black green at cavity 18
10. Fit a piece of heat shrink to each of these cables.
11. Splice and then solder the black slate cable on the link loom to the black slate cable cut at operation 9. Repeat this operation with the black green cables.
12. Using a heat gun shrink down the sleeving on each splice.

### **Passenger side**

1. Locate the seat belt buckle switch connector (X1317) under the passenger seat and disconnect.
2. Using electrical tape fully insulate the connector.
3. Place the new connector on the link loom next to the original so that the correct length of harness can be obtained. Then double back the original connector and tape to the harness using electrical tape. Reconnect the switch connector.
4. Tie wrap the link loom to the seat harness as far as the console.
5. Remove the 8 mm bolt which retains the rear footwell ducting and feed the link loom under the ducting. Lie the link loom against the transmission tunnel so that it clears the false floor mounts.
6. Resecure the ducting.



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7. On the female side of connector X1247 cut the following cables as near to the terminal as possible:

Slate black at cavity 19

Black blue at cavity 20

8. Fit a piece of heat shrink sleeve to both of these cables.

9. Splice and then solder the slate black cable on the link loom to the slate black cable cut at operation 7. Repeat this operation with the black blue cables.

10. Using a heat gun shrink down the sleeving on both splices.

### **Power splice**

1. With reference to figure 2 identify connector X1239.

2. On the female side of this connector cut the yellow cable at cavity 1. The cut should be made approximately 2 inches (50 mm) from the terminal. Strip back the insulation on each side of the cut. Apply a piece of heat shrink to one of the cables.

3. Splice and then solder together the two yellow cables from the link looms and the two yellow cables stripped at connector X 1239. The splice should have two cables on each side of it.

4. Using a heat gun shrink the sleeving onto the splice.

5. Tidy up all the splices and ensure that they will not foul the false floor or it's mounts.

6. Clear the stored fault code with the GDS machine and exit the diagnostic routine.

7. Start the car and check that the airbag warning light does not illuminate.

8. Disconnect the passenger buckle switch and check that the warning light illuminates. Turn off the engine.

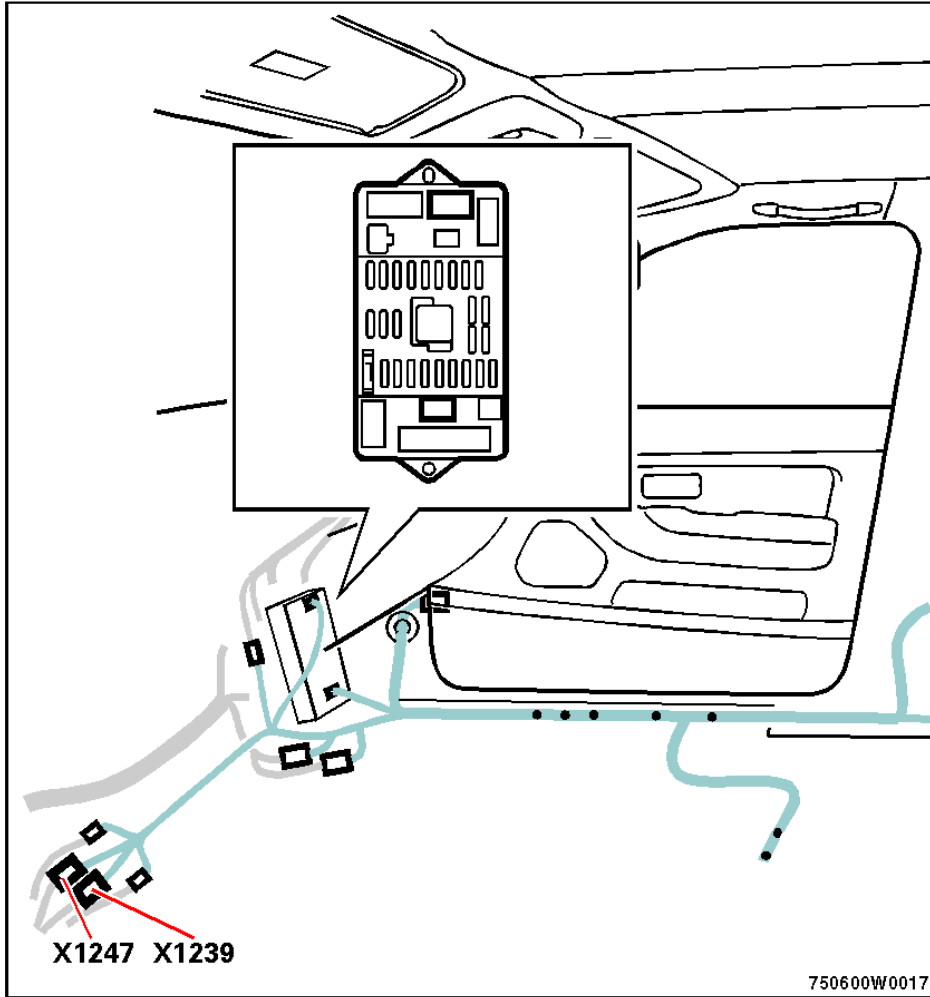
9. Re enter the airbag diagnostic routine and check that the code for undefined resistance of the passenger buckle switch is stored.

10. Reconnect the buckle switch. Clear the code and then exit diagnostics fully.

11. Rebuild the vehicle.



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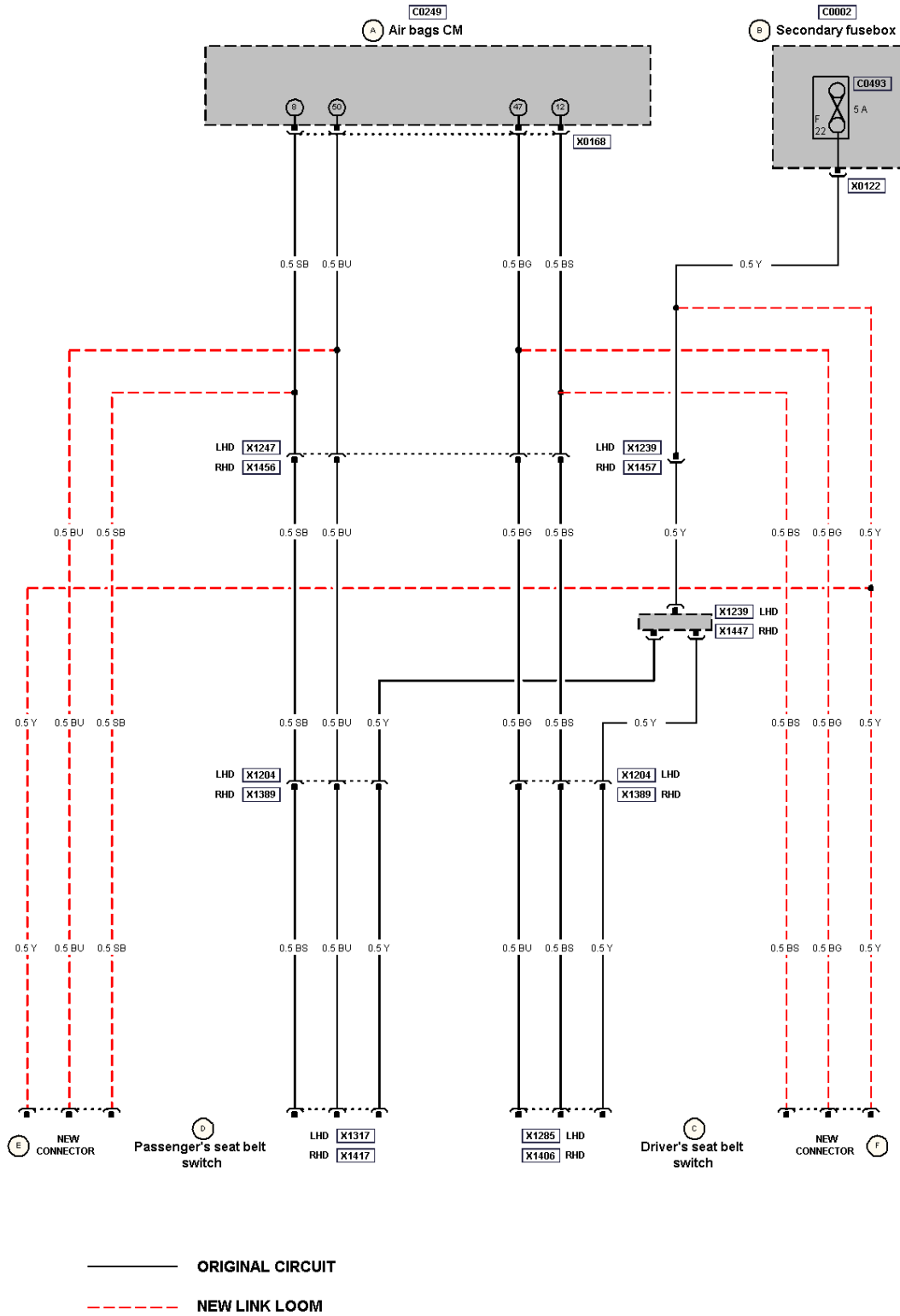
**Figure 2 Left-hand drive vehicles**

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# Wiring diagram





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A	Air bag control module
B	Secondary fusebox
C	Drivers seat belt switch
D	Passengers seat belt switch
E	New connector - drivers seat belt switch
F	New connector - passengers seat belt switch
	Solid line on diagram designates original circuit
	Dashed line on diagram designates new link loom

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### Parts affected

New part number	Description	Displaced part number	Quantity
PM 58150PA	Right-hand drive kit	-	1 off
PM 58151PA	Left-hand drive kit	-	1 off

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### Parts availability

Parts now in stock.

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### Defect and Repair code manual

Defect code	Repair code	Time
75 06 27 99 99	75 06 27 99 S	3.0 hours