Field campaign

Topic	Convertible Roof - Revised Clip Arrangement - C Flap Bowden Cable (SC13/12)
Market area	Worldwide Bentley (1WBE)
Brand	Bentley
Transaction No.	2033508/3
Campaign number	E788
Note	E788
Type	E788
US code	

Vehicle data

GTC derivatives

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
394*	2012	E		*	*	*
394*	2013	E		*	*	*
3W4*	2010	E		*	*	*
3W4*	2011	E		*	*	*
3W7*	2011	E		*	*	*
3W7*	2012	E		*	*	*
3W7*	2013	E		*	*	*

Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SCB	**	**	*	B	C	[redacted]			
SCB	**	**	*	C	C	[redacted]			
SCB	**	**	*	D	C	[redacted]			
SCB	GR3	ZA	5	C	C	000003	000003		
SCB	GR3	ZA	7	C	C	[redacted]			
SCB	**	**	*	A	C	[redacted]			

Documents

Document name
master.xml
master.doc

Notes

Repair instructions

Technical background

A potential compression point has been identified between the tonneau cover hydraulic ram and the C flap Bowden cable as it routes under the tonneau cover drive system (see Figure 1). A revised clip arrangement has been specified to avoid this compression damage. In severe cases the damage to the Bowden cable is such as to impair correct operation of the C flap, therefore a test of the C flap function is required to ensure the Bowden cables are serviceable before implementing the revised clip arrangement

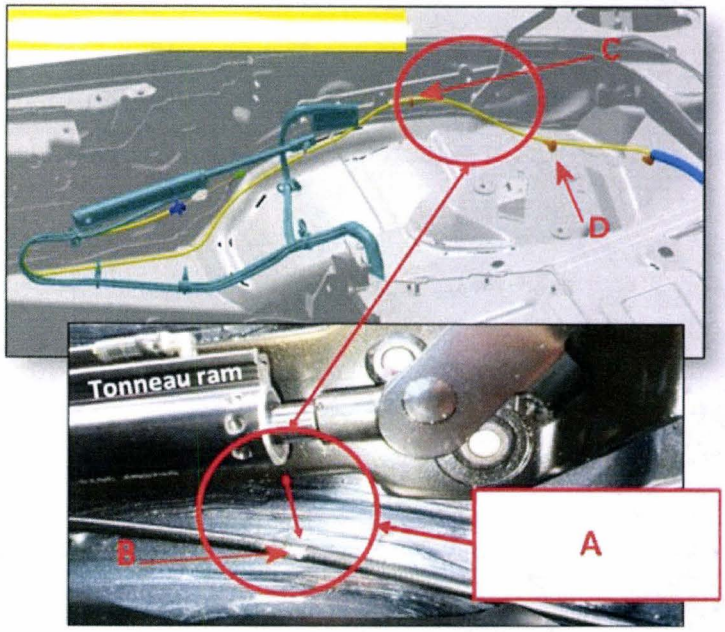

Figure 1

1. Figure 1 details the original routing and single cable tie (C) securing the Bowden cable (shown in yellow). The detail at point A shows the potential contact point between the tonneau cover hydraulic ram and the Bowden cable. The actual contact takes place when the tonneau is almost closed and therefore the close proximity of the hydraulic ram and the Bowden cable cannot be seen when viewed with the tonneau cover in a transient position. Detail B shows, in this case, a section of the outer sheath of the Bowden cable that has been removed by repeated contact with the ram. Note: as long as the system has passed the C flap function test then the absence of some of the outer sheathe is not sufficient grounds to change the cables

Remedy

All affected vehicles require a C flap function check to ensure correct operation before either applying the revised clip arrangement or in the case of failed function test refer to TPI 2033467 C flap Bowden cable replacement

Customer notification

Customers do not need to be informed directly of this campaign. Please ensure that all affected vehicles are checked and repaired during a service visit. You should also inform your new and used car sales departments so that the vehicles affected can be checked and, if necessary, repaired immediately (and not just before sales)

Warranty

Warranty Type	710 or 790
Labour Operation Code	61 91 50 99 (for RO open date on or before 8 August 2013)
	61 91 50 00 (for RO open date after 8 August 2013)
Damage Service Number	E788
Damage Code	00 66
Time	30 TU
Criteria ID	01

Parts

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

Parts supply

Part number	Description	Quantity
SPC1442	Cable tie	4

Parts despatch control

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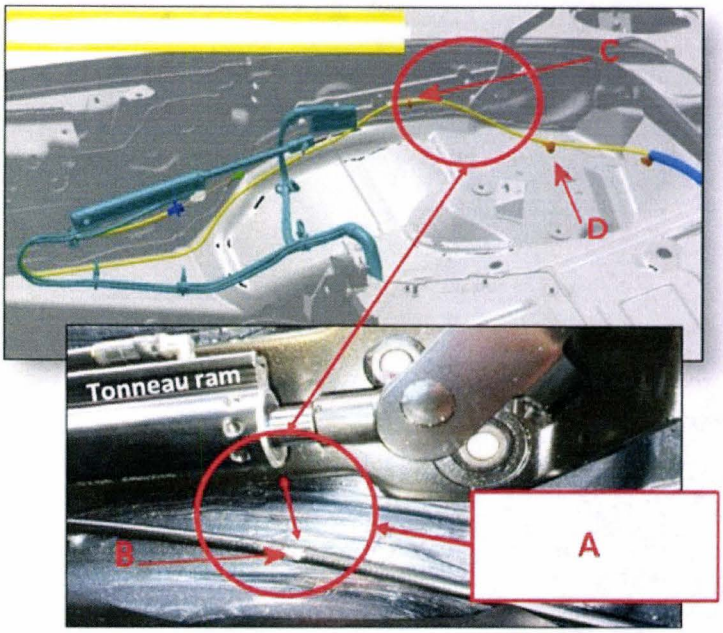

Figure 1

1. Figure 1 details the original routing and single cable tie (C) securing the Bowden cable (shown in yellow). The detail at point A shows the potential contact point between the tonneau cover hydraulic ram and the Bowden cable. The actual contact takes place when the tonneau is almost closed and therefore the close proximity of the hydraulic ram and the Bowden cable cannot be seen when viewed with the tonneau cover in a transient position. Detail B shows, in this case, a section of the outer sheath of the Bowden cable that has been removed by repeated contact with the ram. Note: as long as the system has passed the C flap function test then the absence of some of the outer sheathe is not sufficient grounds to change the cables

Check

If the vehicle is not already listed as repaired in the "Repair history" (in Elsa pro), check for the presence of the correctly located cable tie (see Figure 7), should neither be evident carry out the required work in accordance with these instructions

Parts

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

Work

The procedural outline for this workshop campaign is:

- Function test C flap operation and measure against specification
- Systems performing to specification fit the revised clip arrangement to both Bowden cables
- On systems not performing to specification refer to TPI 2033467 to carry out C flap Bowden cable replacement

The following procedure describes the operation being carried out on the right hand side of the roof assembly. The same operation must be carried out on the left hand side

The following should be noted before the procedures are carried out

Warning: There are no anti-trap features fitted to the linkage flaps, front header panel, tension bow or tonneau cover. Ensure all persons are clear of the mechanism, and there are no obstructions in the vicinity during the operation of the roof

Caution: To avoid a clash of panels it is important that the luggage compartment and tonneau cover assembly are not opened at the same time. One of these must be fully closed at all times

Note: To carry out the following procedures, the power operated roof assembly will have to be positioned partially open in a transient state. With the ignition on any transient roof position will only be maintained for 10 minutes after which a warning will sound prior to the roof assembly gradually folding down as the hydraulic pressure decays. Therefore consideration should be given to supporting the roof system during the following procedure (see Figure 6)

Caution: Whenever air tools are employed or compressed air is used to remove debris it is imperative that the air is clean and dry and does not contain any lubricants. The exhaust from an air tool supplied with lubricated air is likely to stain the hood

Function Test

1. Throughout the test procedure correct system voltage must be maintained therefore ensure a suitable battery charger is connected to the vehicle via engine bay charging lead WT 10165
2. With an assistant operating the power operated hood observe a full open and close cycle. During the cycle note the operation of both C flaps.
3. Both C flaps should operate simultaneously and in synchronisation with a smooth action

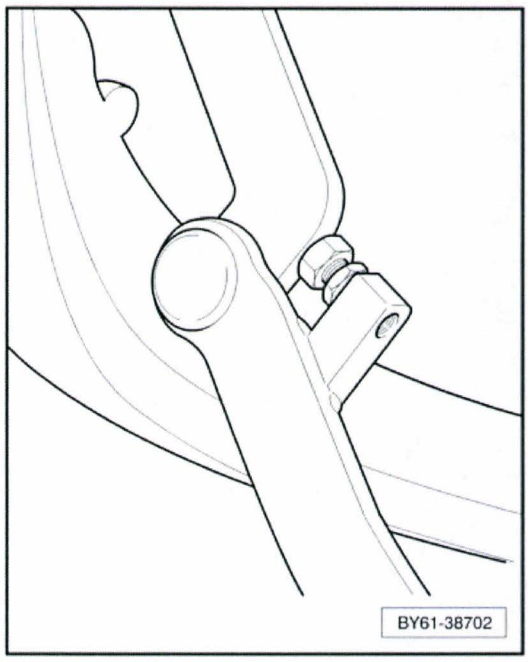

Figure 2

4. With the ignition on, partially raise the power operated roof until the tonneau cover is held in the vertical position and secured against the lock stops on the hinge mechanism (see Figure 2)

Figure 3

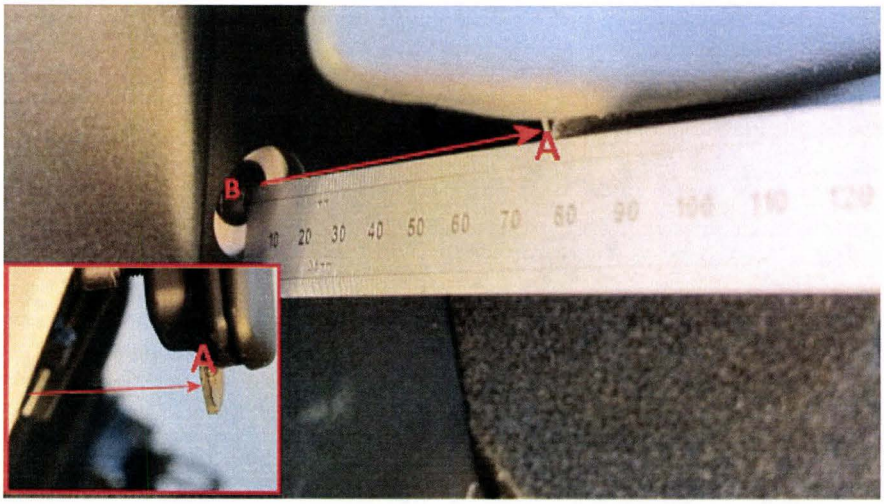

Figure 4

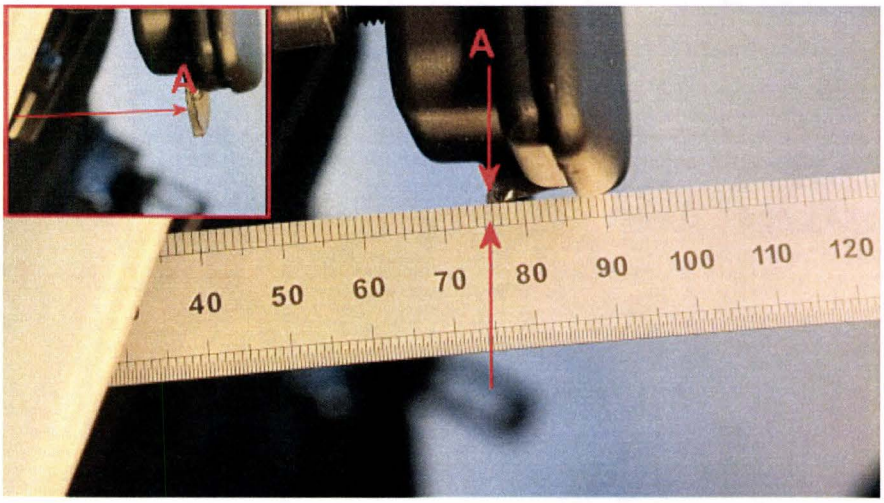

Figure 5

5. Referencing figures 3, 4 and 5 take a measurement between point (A), C flap obscuration lip, and (B), tonneau brightware securing bolt head. The correct specification for this measurement is 74mm to 90mm. If this measurement is not to specification or the C flaps are out of synchronisation or judder during operation then refer to TPI 2033467 to carry out C flap Bowden cable replacement. If the C flap is to specification then perform the revised clip arrangement

Revised clip arrangement

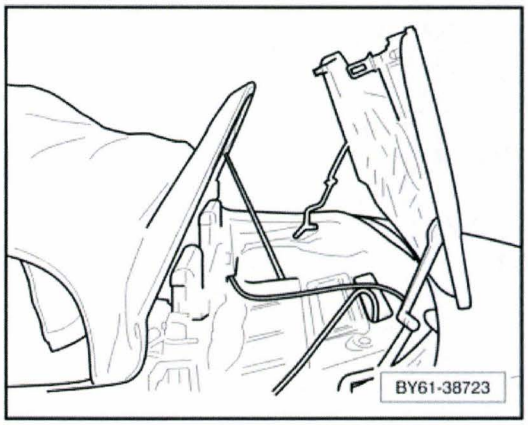

Figure 6

6. With the tonneau cover still held in the vertical position, support the tension bow with a suitable prop taking care not to damage any trim (see figure 6)

7. Remove the original cable tie securing the Bowden cable (C) to the tonneau cover drive system and discard the clip securing the Bowden cable at point D, securing point D is not used with this revised clip arrangement (see Figure 1)

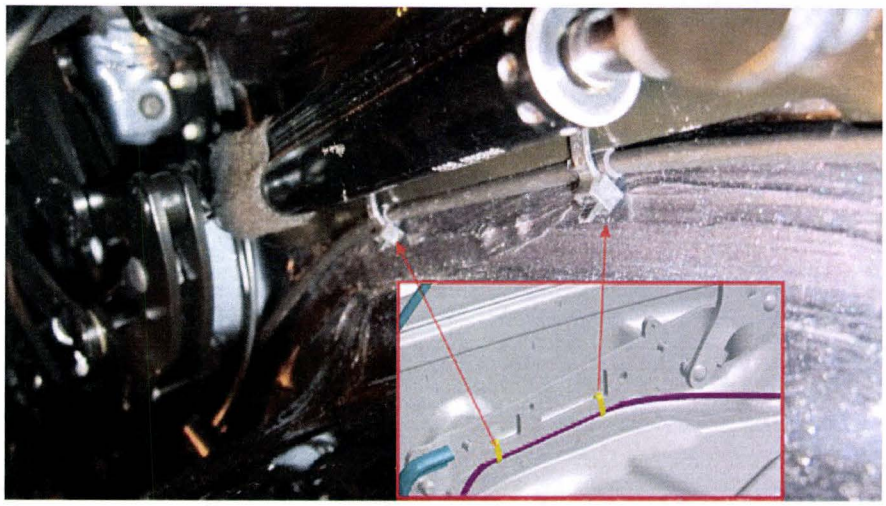

Figure 7

8. Referencing figure 7 secure the Bowden cable to the tonneau cover drive system using two cable ties. Ensure the Bowden cable is retained underneath, along the bottom of the bracket, where it cannot come into contact with the hydraulic ram. It may be necessary to temporarily release the Bowden cable from other retaining clips to gain sufficient length to enable the two new cable ties to be attached.

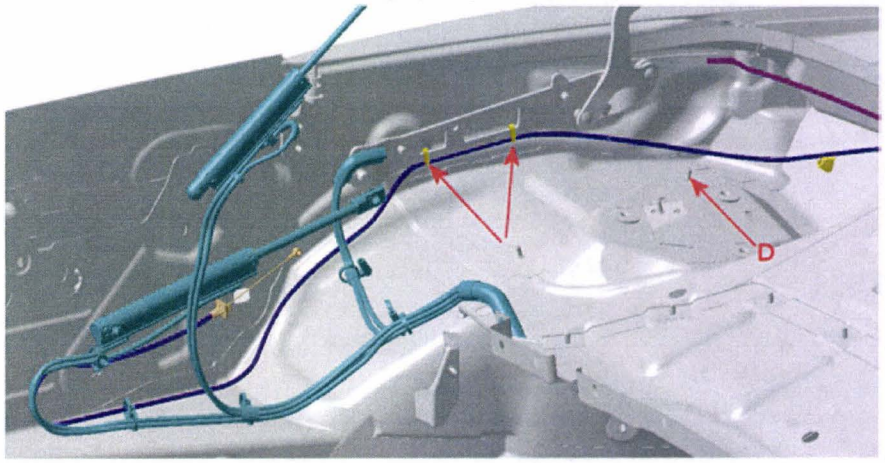

Figure 8

9. The final route and clipping arrangement is detailed in Figure 8. **Note:** The original stud and clip position previously securing the Bowden cable at point D is not to be used with this new arrangement

Identification

The presence of cable ties conforming to the location specified in this document will serve to indicate that this campaign has been performed (see Figure 7)
