



This Service Information bulletin supersedes S.I. M72 01 03 dated **March 2006**.

NEW designates changes to this revision

SUBJECT

Airbag Warning Light is ON, MRS FC 02, 03, 05, 06

MODEL

R50, R53 (Cooper, Cooper S) up to February 17, 2003 Vehicle Production

SITUATION

The Customer may complain that the airbag warning light is on, and the following faults are stored in the MRS (Multiple Restraint System) control unit:

- 02 – Driver's side belt tensioner ignition circuit
- 03 – Passenger's side belt tensioner ignition circuit
- 05 – Driver's side seat airbag ignition coil
- 06 – Passenger's side seat airbag ignition coil

NOTE: The warranty coverage of the vehicle for this specific issue is extended to 10 years / 150,000 miles, whichever occurs first – see attached customer letter. The customer will be provided with an extended warranty sticker that is to be affixed in page 25 of the Service and Warranty Book.

To minimize customer's inconvenience you may provide appropriate alternative transportation.

CAUSE

Faulty crimping of contacts at the seat connectors.

AFFECTED VEHICLES

Vehicles from start of production to February 17, 2003.

Model	Chassis Number Range
Cooper	TC30047 – TC43963
Cooper S	TD50072 – TD65791
Cooper Automatic	TE10037 – TE17624

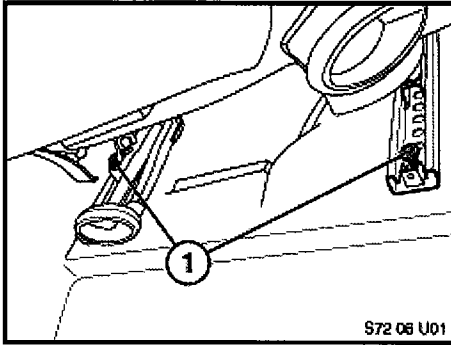
NEW PROCEDURE

In case of a customer complaint and one of the faults mentioned above is stored, replace the wiring to the respective belt tensioner and side airbag for the seat with the repair harnesses as follows. Always comply with the safety instructions when handling airbag devices as outlined in the repair manual RA 32 34 ...

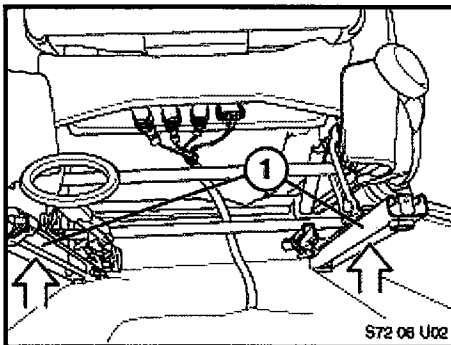
The following tools will be needed in order to perform this repair correctly:

- Pliers (without die plate) 61 9 041
- Die plate for pliers 61 9 042

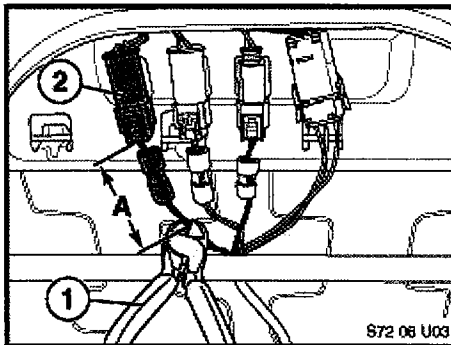
- Wire strippers 61 9 043
- Hot air blower.
- Disconnect the battery



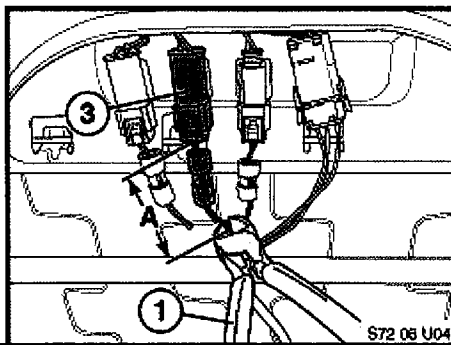
2. Remove the (4) mounting screws from the front seat with the stored fault.
Illustration shows the (2) front screws.



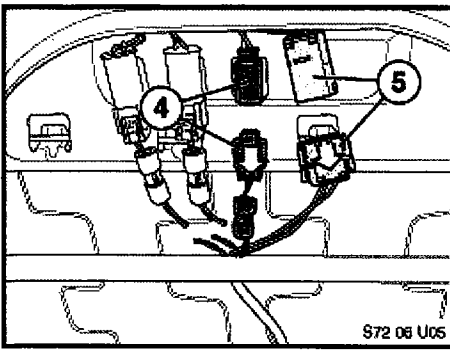
3. Raise the seat at the front (1)



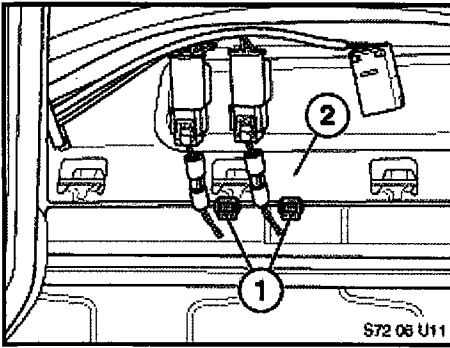
4. Locate the yellow side airbag connector (DO NOT DISCONNECT).
Cut the wire as shown, 100mm from the connector (A)



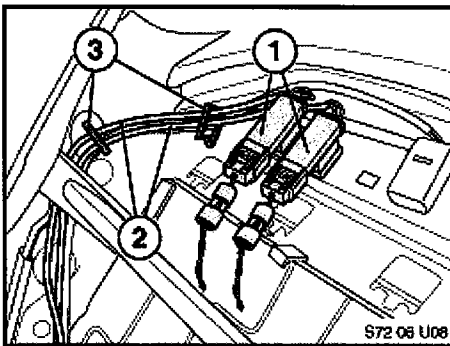
5. Locate the blue seat tensioner (DO NOT DISCONNECT).
Cut the wire as shown, 100mm from the connector (A)



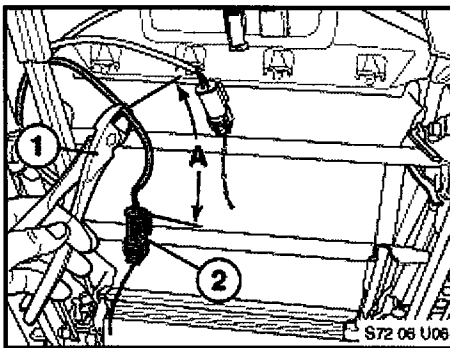
6. Disconnect remaining connectors (4) and (5), and remove seat from vehicle. Connector (4) may not be on all vehicles.



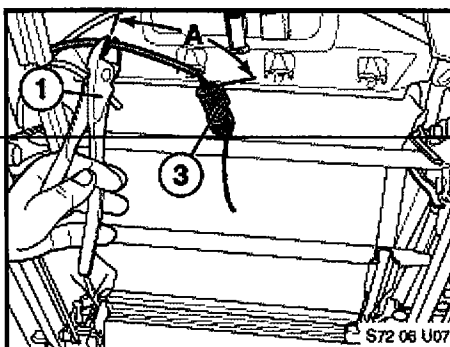
7. Install the new cable tie with holder (1) (PN 61 13 0 302 824) and fit to the carrier (2). Remove the cable tie for later use.



8. Release the connector housing (1) by turning it slightly.
 9. Release the seat wiring harnesses (2) for the side airbag and seat belt tensioner from the retainers (3).



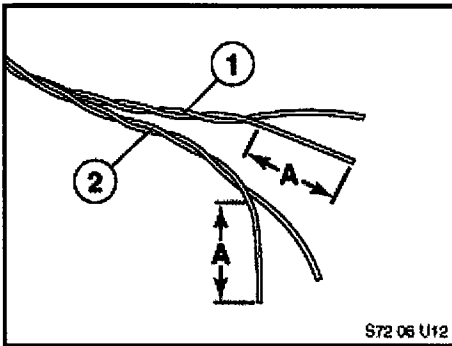
10. Locate the yellow side airbag connector (2). Cut the wire as shown, 100mm from the connector (A).
Tag the removed part with the VIN. Do not scrap the removed part - it may be necessary to ship the part to BMW for analysis (DO NOT DISCONNECT THE CONNECTOR).



11. Locate the blue seat tensioner connector (3). Cut the wire as shown, 100mm from the connector (A).
Tag the removed part with the VIN. Do not scrap the removed part - it may be necessary to ship the part to BMW for analysis (DO NOT DISCONNECT THE CONNECTOR).

Preparing seat wiring harnesses for repair

12. Shorten the outer sheath of the seat wiring harnesses by approximately 50 mm from the wire ends. **Take care not to cut the wiring.** Seal the outer sheaths to the wires using fabric adhesive tape.



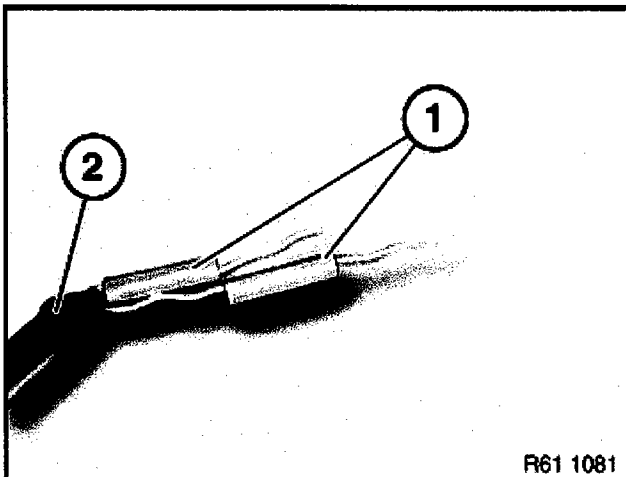
13. Cut the seat wiring harnesses for side airbag (1) and belt tensioner (2) to offset lengths with the following dimensions (cut only (1) wire of each wire pair):

Seat wiring harness for side airbag (1):

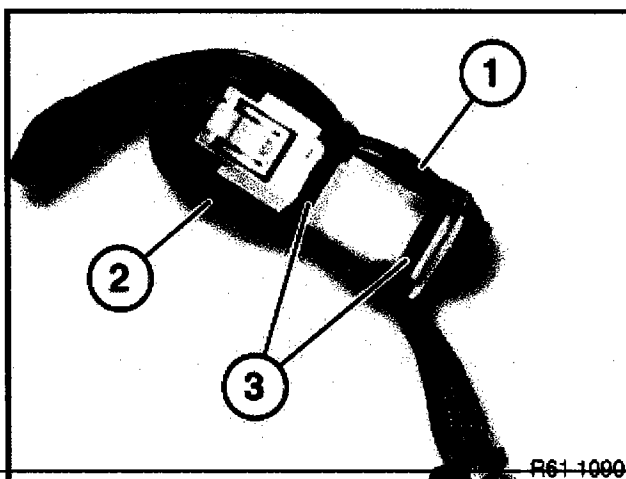
Violet/white triggering circuit wire **A = 30 mm**

Seat wiring harness for belt tensioner (2):

Green triggering circuit wire **A = 30 mm**



14. Strip the ends of the triggering circuit wires on the seat wiring harnesses to a length of 4 mm. Install shrink tube (1) (PN 61 13 0 149 206) over the wires.



15. Wap over the retainer clips from the old harness connectors to the new repair harness connectors

16. Connect the repair harness sections (1) and (2) together for both the seat side airbag repair harness (PN 61 12 6 937 521) and the seat belt tensioner repair harness (PN 61 12 6 937 522). Fold the repair harness sections (1) and (2) at the connection to form an "S" shape. Secure with cable ties (3) (PN 61 13 0 141 326). Take care to note the position of the cable fasteners. **Do not use Stabilant 22 or any other contact enhancer on the connections.**

17. Sorten the outer sheaths of the repair wiring harnesses to **B = 100 mm**. Seal the outer sheaths to the wiring harnesses

using fabric adhesive tape.

18. Cut the repair wiring harnesses for the side airbag (1) and the belt tensioner (2) to offset lengths with the following dimensions:

Note: the wire colors are different based on the date of manufacture of the repair harness.

Late production repair wiring harness.

Repair wiring harness for side airbag (1):

Black/White triggering circuit wire A = 40 mm

Violet/White triggering circuit wire C = 70 mm

Repair wiring harness for belt tensioner (2)

Black triggering circuit wire A = 40 mm

Green triggering circuit wire C = 70 mm

Early production repair wiring harness.

Repair wiring harness for side airbag (1):

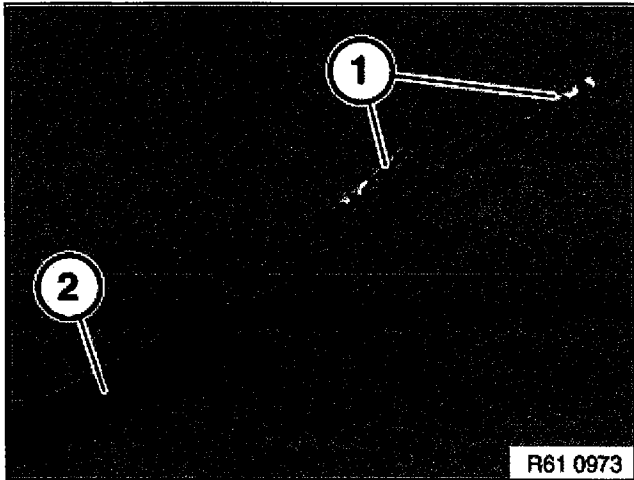
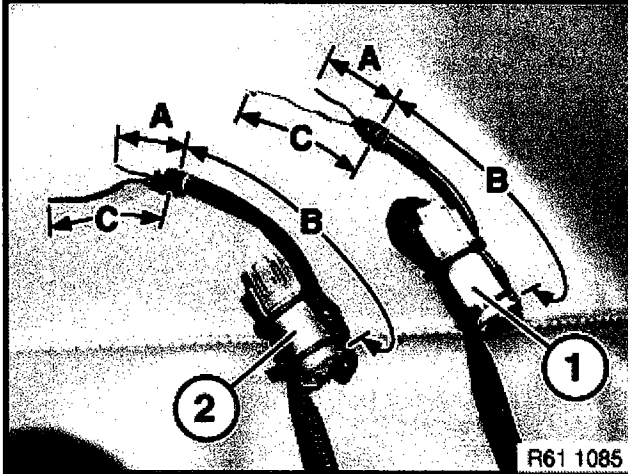
Brown triggering circuit wire A = 40 mm

Yellow triggering circuit wire C = 70 mm

Repair wiring harness for belt tensioner (2)

Yellow/Brown triggering circuit wire A = 40 mm

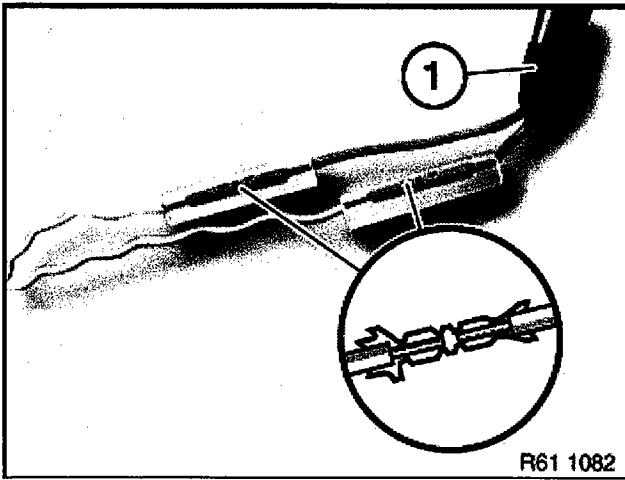
Yellow/Red triggering circuit wire C = 70 mm



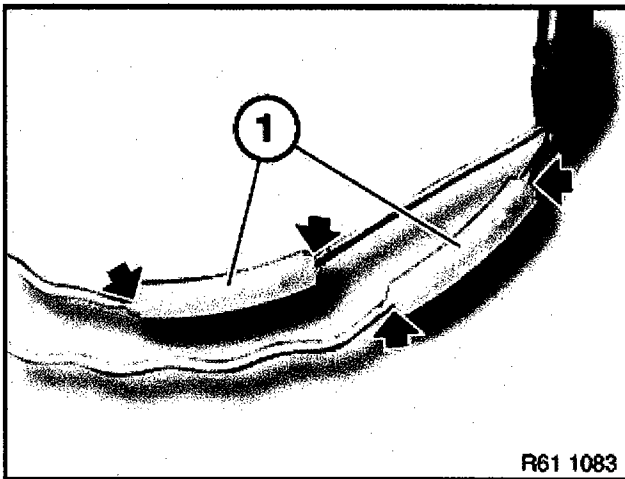
19. Strip the ends of the shortened triggering circuit wires on the repair harnesses to a length of 4 mm.

20. Crimp a butt connector (1) (PN 61 13 0 149 205) to each seat wiring repair harness (2) wire.

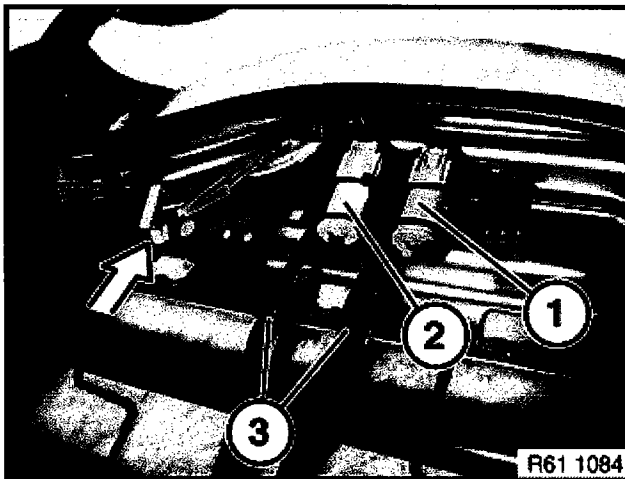
21. Crimp the repair wiring harnesses to the seat wiring harnesses in accordance



with the attachment Chart A. Make sure that the proper wire colors are used based on the manufacturing date of the repair harness.



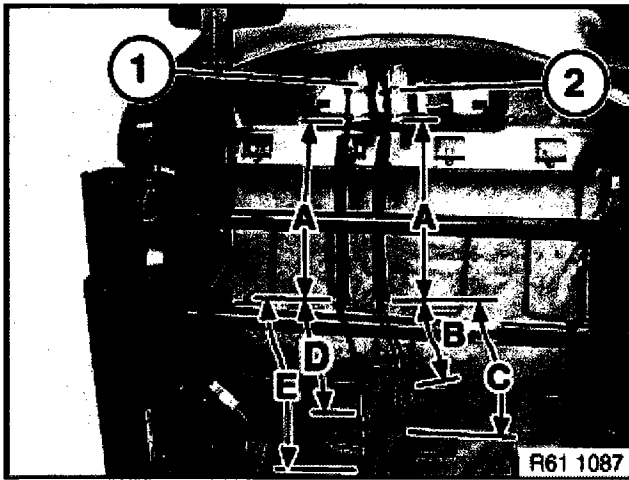
- 22. Slide the shrink tube (1) over the crimp connection and heat up with a hot air blower until glue escapes onto the wires as indicated by arrows.
- 23. Using fabric adhesive tape wrap the exposed harness.



- 24. Press the wiring harnesses into the retainer as indicated by arrow.
- 25. Secure the connector for the belt tensioner (1) and side airbag (2) onto carrier.
- 26. Secure the repair wiring harnesses to the retainers (3) with cable ties.

Preparing the repair wiring harnesses for connection to the body wiring harness.

- 27. Shorten the repair wiring harness for side airbag (1) and seat belt tensioner (2) as follows:
- 28. Shorten the outer sheaths of the repair wiring harnesses to **A = 150 mm**
- 29. Cut the repair wiring harnesses for the side airbag (1) and belt tensioner (2)



to offset lengths with the following dimensions:

Note: The colors of the triggering circuit wires for the repair harnesses have not changed.

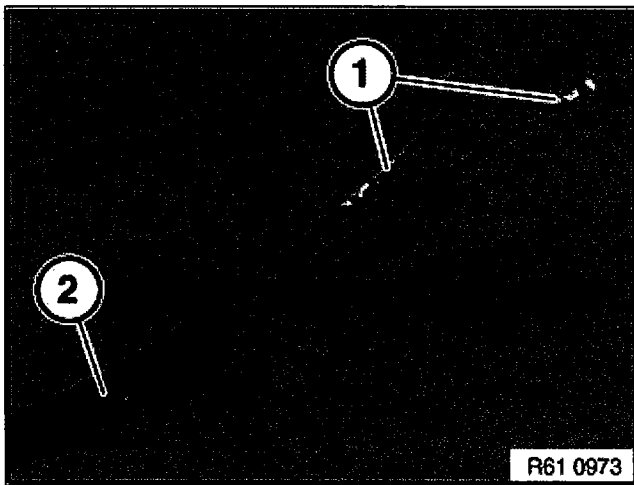
Repair wiring harness for side airbag (1):
Brown triggering circuit wire **D = 50 mm**

Yellow triggering circuit wire **E = 80 mm**

Repair wiring harness for belt tensioner (2):

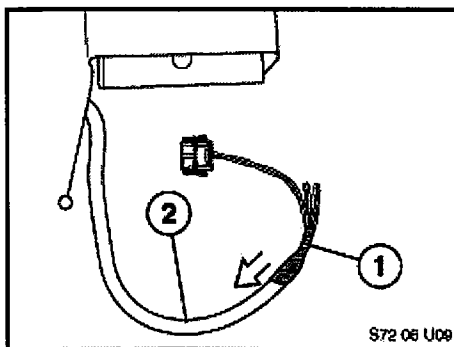
Yellow/Brown triggering circuit wire **B = 110 mm**

Yellow/Red triggering circuit wire **C = 140 mm**



30. Strip the ends of the shortened triggering circuit wires on the repair harnesses to a length of 4 mm.

31. Crimp a butt connector (1) (PN 61 13 0 149 205) to each seat wiring repair harness (2) wire.



Preparing the body wiring harness for repair.

32. Remove fabric adhesive tape (1) from the vehicle wiring harness and **slide back sheathing (2) by approximately 300 mm.**

33. Fix sheathing in place with cable tie or fabric adhesive tape.

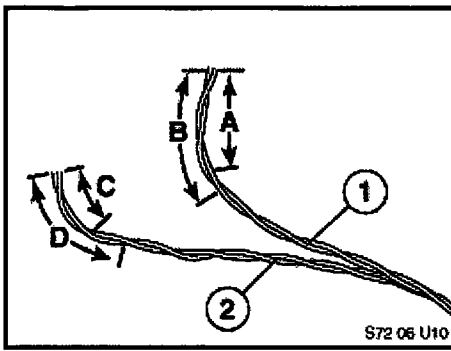
34. Cut the body wiring harness for the side airbag (1) and belt tensioner (2) to offset lengths with the following dimensions:

Body wiring harness for side airbag (1):
Brown triggering circuit wire **A = 50 mm**

Yellow triggering circuit wire **B = 80 mm**

Drivers side body wiring harness for belt tensioner (2):

Yellow/Brown triggering circuit wire **C**



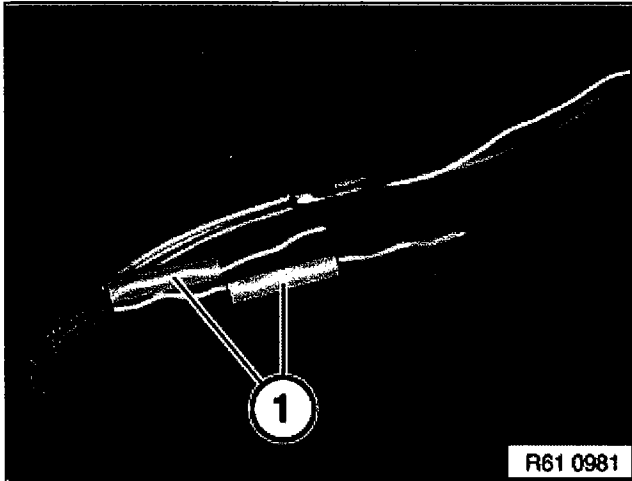
= 110 mm

Yellow/Red triggering circuit wire **D** = 140 mm

Passenger side body wiring harness for belt tensioner (2):

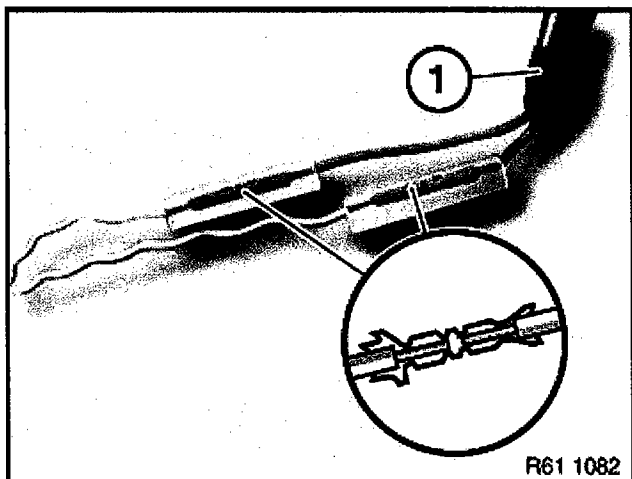
Blue/Brown triggering circuit wire **C** = 110 mm

Blue/Red triggering circuit wire **D** = 140



35. Strip a length of 4mm from at the end of each wire.

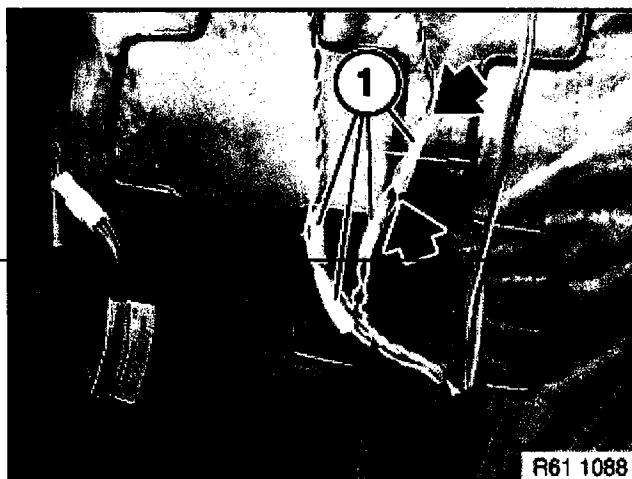
36. Slide a shrink tube (1) over each wire.



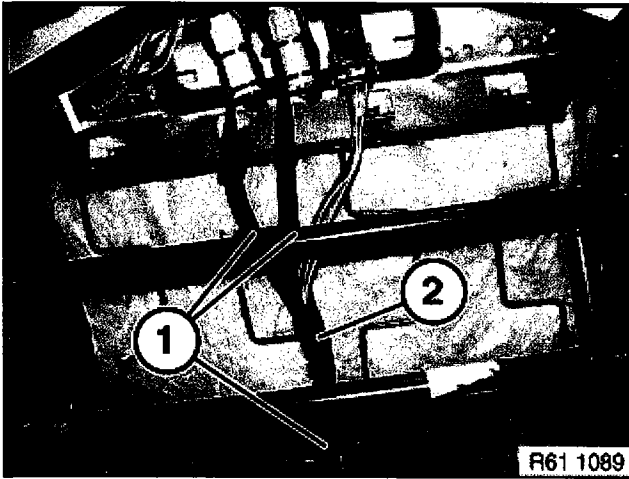
Connecting the repair wiring harness to the body wiring harness.

37. Place the seat in the vehicle and tilt back towards the rear seat.

38. Crimp the wiring harnesses (1) together in accordance with the attachment Chart B.



39. Slide the shrink tubing (1) over the crimp connections and heat up using a hot air blower, until glue escapes onto the triggering circuit wires, indicate by arrows.



- 40. Slide the wire sheathing (1) over the wiring harness and secure with fabric tape (2).
- 41. Reinstall the front seat.
- 42. Reconnect battery.
- 43. Clear fault memory.

PARTS INFORMATION

Part Number	Description	Quantity*
61 12 6 937 521	Repair harness for side airbag	1
61 12 6 937 522	Repair harness for belt tensioner	1
61 13 0 141 326	Cable Tie	4
61 13 0 149 205	Butt Connector	8
61 13 0 149 206	Shrink Tubing	8
61 13 0 302 824	Cable tie with holder	2

*Quantity is for the repair of one seat only

WARRANTY INFORMATION

Warranty coverage of the vehicle for this specific issue, is extended to 10 years / 150,000 miles, whichever occurs first.

Defect Code **61 12 94 79 00**

Labor Operation: Install repair wiring harness for side airbag **and** belt tensioner for one seat (left or right).

Labor Operation	Labor Allowance
00 56 127	12 FRU
+00 56 770	10 FRU

Labor Operation: Install repair wiring harness for side airbag **and** belt tensioner

for both seats.

Labor Operation	Labor Allowance
00 56 126	20 FRU

Note: The following explanations spell out the correct use of the work times.

Main Work: Use this labor operation number when the only repair performed is the listed warranty repair.

OR

+Associated Work: Use this labor operation number when other repairs or services are performed along with the listed warranty repair.
Under no circumstances should both labor operation numbers be claimed. Attempts to claim both times will result in an unnecessary delay in claim processing and payment.

RENTAL VEHICLES

Retailers participating in the MINI Dealer Administered Customer Assistance Program may self-authorize claims for reimbursement of rental costs from independent rental agencies in certain situations. For more details refer to SI M01 06 03.

ATTACHMENTS

view PDF attachment [M720103Customer_Letter](#).

view PDF attachment [M720103Wiring_Info](#).

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