DAIMLERCHRYSLER

DaimlerChrysler
India Private Limited

Pune, June 24, 2005

Workshop Incharge
DC India Authorised Workshops

Recall Service Measure
[redacted]
Accounting No. 5496033.

Dear All,

We are in receipt of the subject Recall Service Measure from DCAG for vehicle models W 211, W 219 and R 230. On these vehicles, vibrations of the SBC hydraulic unit can have a negative affect on the contacts in the connector at the SBC control unit. For this reason, an additional bracket and a new ground line on the SBC wiring harness is to be mounted on models 211, 219, and 230. Please refer to the attached work instructions for the procedures. The list of the affected vehicles is included in the enclosed CD. Please note that the locations mentioned in the list are only indicative and any vehicle mentioned in the list visiting your workshop has to be attended for this Campaign.

Kindly note that this is an active Service Measure and you need to call the vehicles to complete the same. The Customers reporting to you are to be informed through a written communication [redacted] as per the attached approved text format, advising them about this action and requesting to send their vehicles to your workshop. Please note that there **should not be** any change in the approved text format of the invitation letter.

Very Important Note: Some vehicles affected for this Service Measure as mentioned in the list are to be attended for this Recall Service Measure (Mounting ground line & bracket on SBC wiring harness, Accounting No. 5496033) as well as for Recall Service Measure - Checking SBC hydraulic unit and replace if necessary (Accounting No. 4391101).

However, the enclosed approved text format should be sent for the vehicles to be attended **only** for mounting ground line & bracket on SBC wiring harness (Accounting No. 5496033).

Spare Parts, Operation texts and flat rates:

Please refer enclosed Work Instructions.

Please ensure that the necessary parts are available in your parts stock in sufficient quantities before calling the vehicles. The orders against Service Measures **will not be** considered for VOR/stock ratio. This campaign being of unprecedented magnitude, the off take of related parts **will not contribute** to Dealer target achievement, hence **will not be** considered for performance oriented incentives (POM). To avoid bottleneck of spare parts, [redacted]

2

Damage code: 054960337

Accounting No.: A warranty/goodwill claim for the costs of labour and material (if any) may be submitted to us, quoting the accounting number **5496033.**

It is **mandatory** for you to ensure that the vehicles visiting your workshop for this Recall Service Measure is also checked and attended, if applicable, for the below mentioned Service Measures released by us.

1. Recall campaign - Check SBC hydraulic unit and replace if necessary, accounting number 4391101.
2. Check SBC suction hose and replace if necessary, accounting number 4392001.
3. Check alternator regulator and replace it, if necessary, accounting number 5493001.
4. Program battery control unit, accounting number 5498031.

Completion Deadline: This service measure should be completed by [redacted]

Considering the criticality of these activities, kindly explain the above instructions to your concerned staff and also provide your personal **attention** [redacted]

For any queries you may have related to this information & activities, please immediately contact the right undersigned or Mr. Devendra Thakur.

Please acknowledge receipt of this letter.

With best regards,
DaimlerChrysler India Private Limited

D. Chandavarkar
Director
After-Sales

Ashish Salvi
Dy. General Manager
Field Service

Copies to - DCIPL Service Representatives) for close follow up with the workshops.

Encl. - Work Instructions
- Letter format
- CD with affected vehicle details

Letter to Customers

(Note: Letter for E , SL & CLS Class

Please fill in the appropriate details in the brackets & send this letter on your Dealerships Letter head)

Sub: Recall for free inspection of your vehicle as a precautionary measure.

Dear Sir/ Madam,

Greetings from all of us at (Dealer Name)

As you are aware, examinations related to safety aspects always have priority during our servicing / repair process. As part of our quality checks, we determined that natural vibrations of the SBC hydraulic unit may result in malfunction of brake system of vehicles of the E, SL & CLS - Class. In this case, greater braking force will be required. In order to prevent this situation from occurring, we would like to check the vehicle SBC system thoroughly.

We therefore request that you make an appointment as soon as possible with the service advisor at your Mercedes-Benz Authorised Service center/dealership. The fixed appointment will reduce the down time to a minimum. The work will require approx. 2.0 hours and will of course be carried out free of charge.

If you have in the meantime sold your vehicle, we kindly request that you write the address of the new owner or the whereabouts of the vehicle on the back of this letter and return it to us.

We are convinced that by proceeding in this manner we are also acting in your best interests, and we apologize for the need for you to make an unscheduled visit to the workshop.

Awaiting your reply and assuring you of our best services at all times, we remain.

Yours sincerely,
For (Dealer Name)

(Name)
Workshop Incharge

Reverse side of letter

To

(Dealer Name & address)
.....
.....
.....

Mercedes-Benz model .....

Chassis number .....

Recall for free inspection of your vehicle as a precautionary measure.

The vehicle has been sold to the following address:

Name/company _____

Postal Address _____

City / Pin code _____

Country* _____
*if abroad

Please tick the following additional statements (if applicable):

New owner/whereabouts of vehicle unknown: ☐

Vehicle stolen: ☐

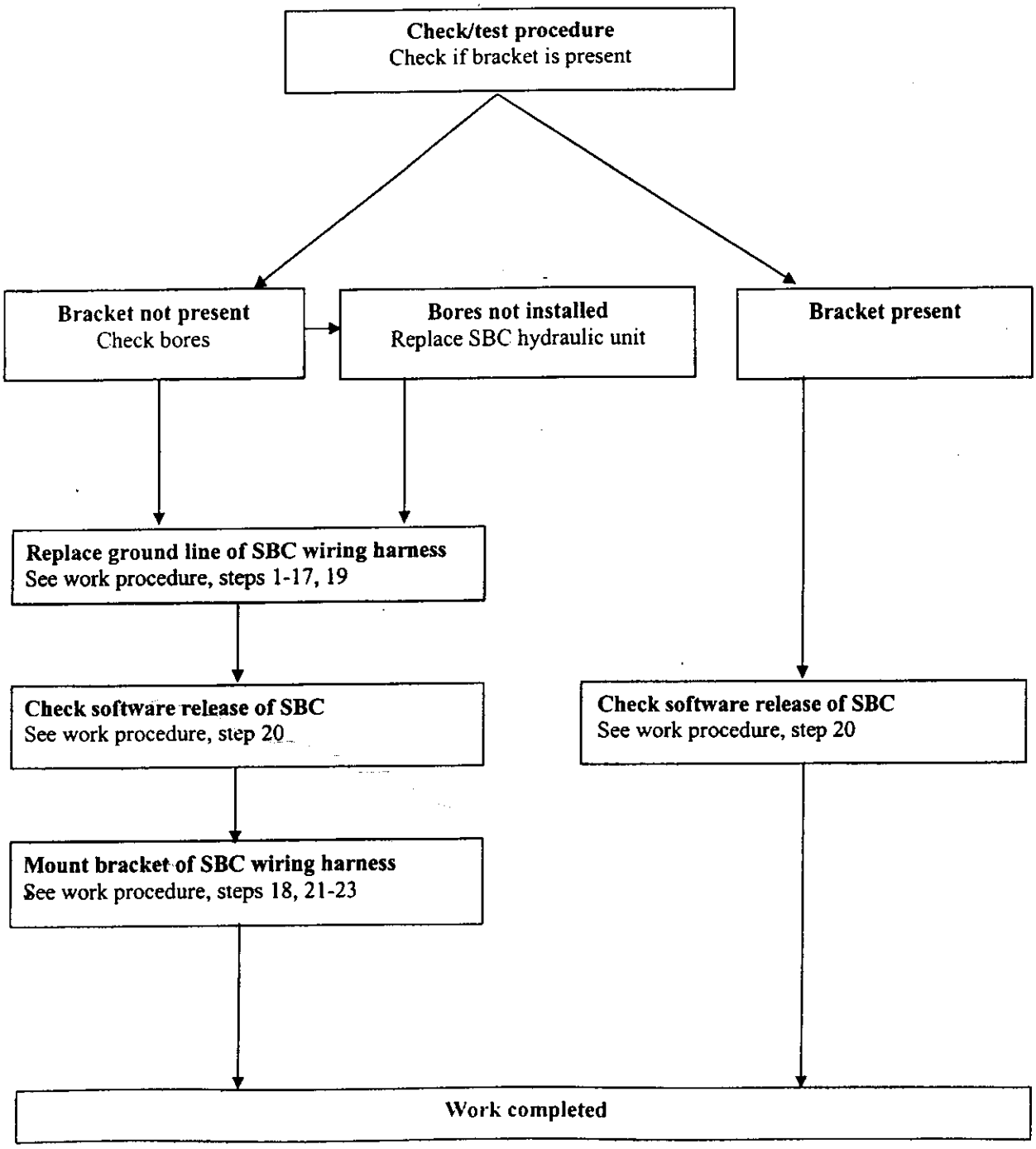
Date..... Signature.....

SERVICE MEASURE WORK DESCRIPTION

Code: 0503P54A31 **Version 3.6**

Mount ground line and bracket to SBC wiring harness
Models 211, 219

Brief instructions



Check/test procedure

Check/test procedure A:

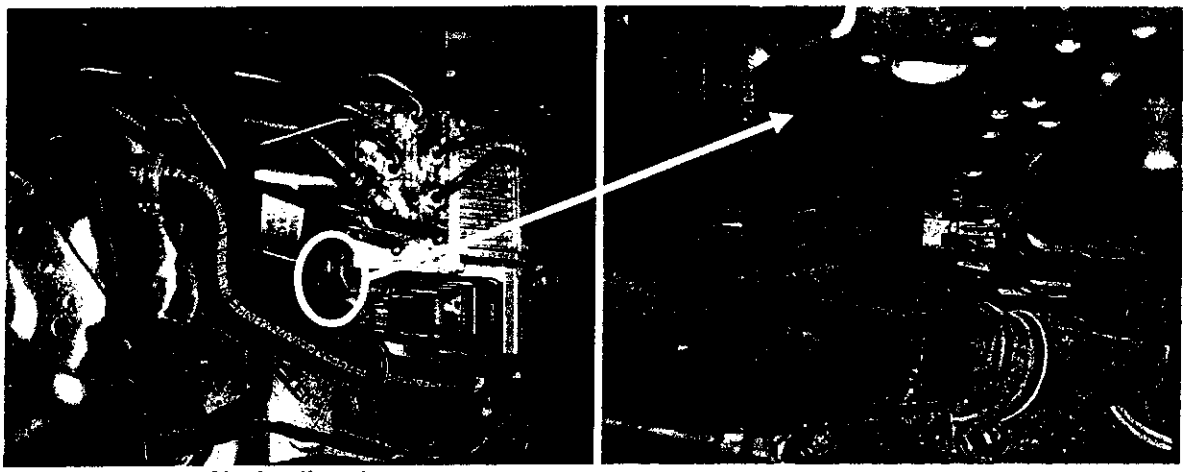


Figure 1: Bracket of hydraulic unit

Check whether bracket is installed on the SBC hydraulic unit
If bracket is installed, check software release
If a bracket is not installed, continue with check/test procedure B

Check/test procedure B:

Figure 2: Mounting bores for bracket

Check whether mounting bores are available on the SBC hydraulic unit (Figure 2).
If bores are available, continue with steps 1 - 23
If bores are not available, carry out the following: **(Only model 211)**

- Replace SBC hydraulic unit as per AR42.46-P-0010R.
- Check the leaktightness of the intake duct connecting points.

Note: Even the smallest drops indicate leakage! The maximum pressure of the filling unit (2.5 - 3.0 bar) must be applied for at least five minutes. Then check the entire suction line for visible leaks, particularly at the connections.

- **Then carry out steps 4 - 18 when the SBC hydraulic unit has been removed.**

Work procedure

1. *Lock the vehicle globally and then wait for 30 seconds for the SBC control unit to power-down.*
2. Loosen bracket (A) with hose and place aside in order to have space to work (Figure 1).
3. Unplug connector from SBC hydraulic unit.
4. Detach the SBC hydraulic unit ground line at the threaded stud (Figure 3)

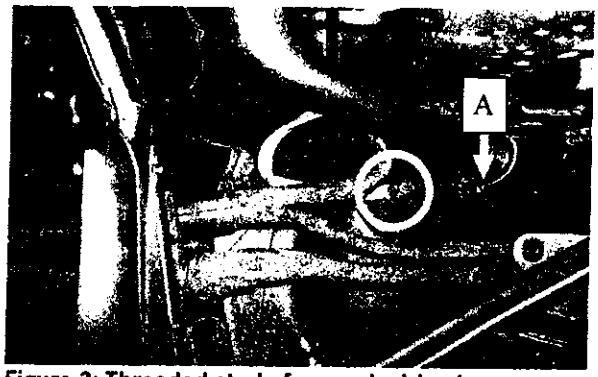


Figure 3: Threaded stud of ground wiring harness

5. Remove cable tie where SBC connector housing fits into SBC wiring harness (Figure 4).

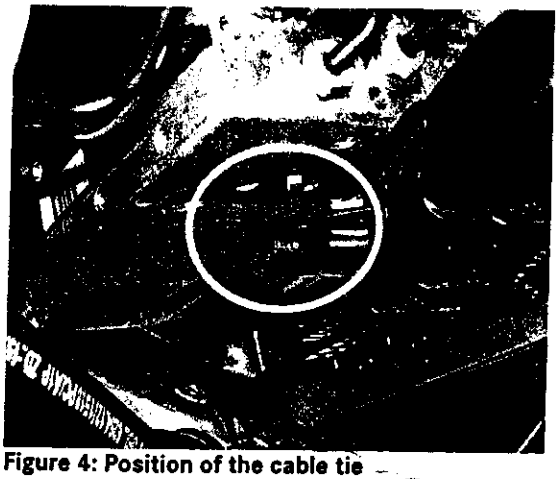


Figure 4: Position of the cable tie

6. Remove fabric tape from wiring harness up to the next rubber grommet (Figure 5)

Figure 5: Removing fabric tape

7. Remove SBC connector housing cap.

Note: There are two different versions (Figure 6)
First, carefully lift the plastic lug on one side until the cap disengages.
Then repeat this process on the other side.
The cap now can be removed.

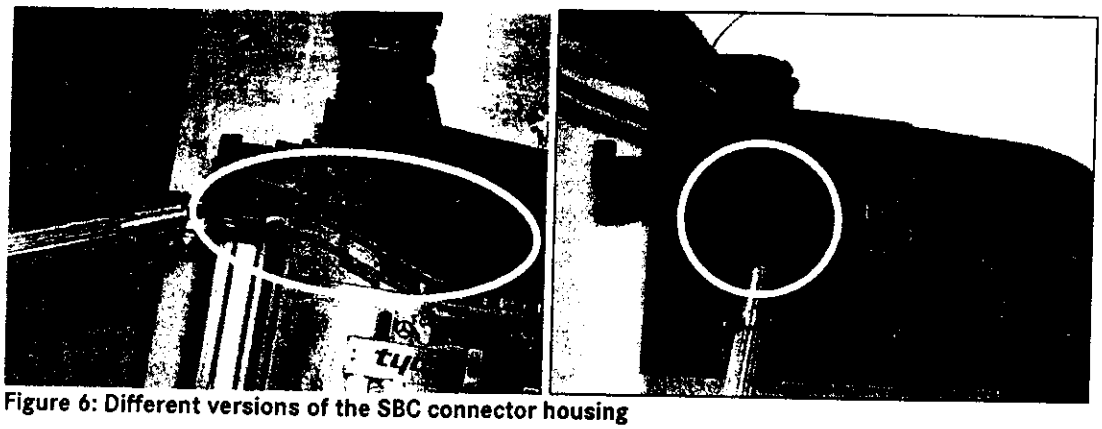


Figure 6: Different versions of the SBC connector housing

8. Check which SBC connector housing version is installed. (Figure 7)

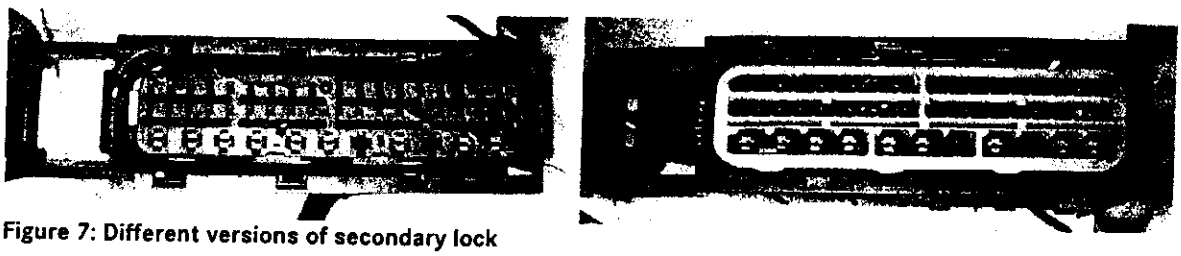


Figure 7: Different versions of secondary lock

9. Open gray secondary lock in the SBC connector housing.
   To do this, slide the secondary lock in the direction indicated by the arrow using a small screwdriver (Figure 8).

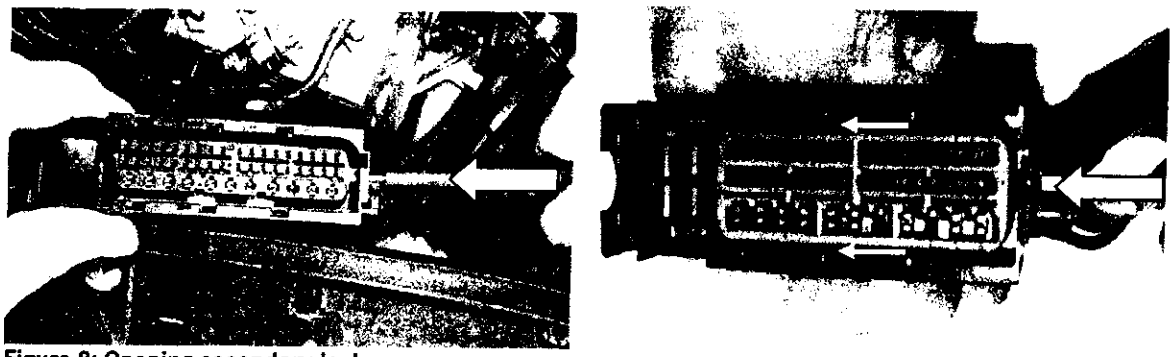


Figure 8: Opening secondary lock

10. Remove pin 37 and pin 44 (Figure 9) from the SBC connector housing using cable release tool (W 000 589 13 99 30 and W 220 589 01 99 50), otherwise the SBC connector housing can be damaged.
    The removed ground wiring harness is no longer needed.

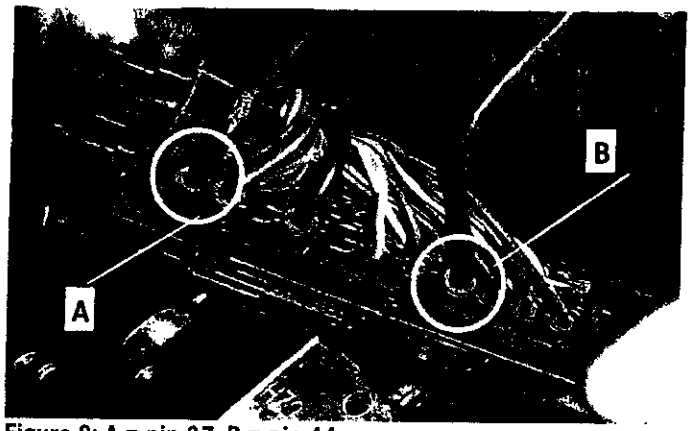


Figure 9: A = pin 37, B = pin 44

11. Insert the new ground wiring harness into the SBC connector housing and **properly** lock into place.

Note: Ensure that the longer ground line of the ground wiring harness is inserted into plug position 44 and that the shorter ground line is inserted into plug position 37.

12. Close the gray contact strip secondary lock of the SBC connector housing. To do this, slide the gray secondary lock in the direction indicated by the arrow using a small screwdriver (Figure 10).

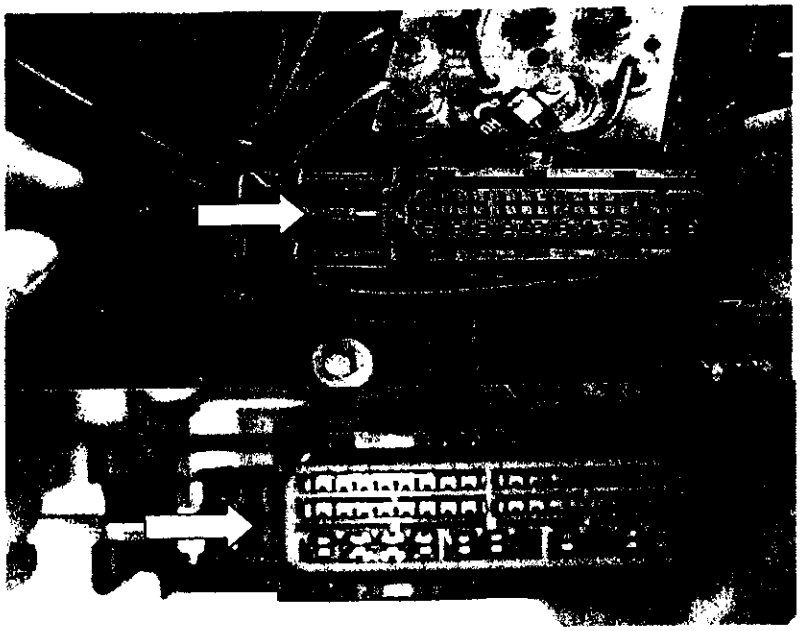


Figure 10: Closing the secondary lock

13. **Very loosely** wrap the exposed cable of the SBC wiring harness (**excluding** the lines of the ground wiring harness) using adhesive fabric tape (Figure 9). Do not wrap more than 2 layers deep.

Note: The lines of the ground wiring harness must be routed outside the wrapped wires (Figure 11).

Figure 11: Fabric tape on SBC wiring harness

14. Install the SBC connector housing cap in the reverse order as described in step 7.

15. Affix the SBC wiring harness **without** the ground wiring harness lines to the SBC connector housing cap using a new cable tie (see Figure 12).

Note: Ensure that the SBC wiring harness is routed free of tension in the SBC connector housing. The cable tie "buckle" **must be located outside on the housing of the connector.**

Figure 12: Affixing the SBC wiring harness to the cap of the SBC connector housing

16. **New affixing** of the SBC wiring harness in the guide grommet

a. Remove rubber seal and take SBC wiring harness out of the guide grommet (Figure 13).

Original routing (A) of the SBC wiring harness

Figure 13: Rubber seal and SBC wiring harness

b. Reposition SBC wiring harness towards the front so that routing can be modified (Figure 14)

New routing (B) of the SBC wiring harness

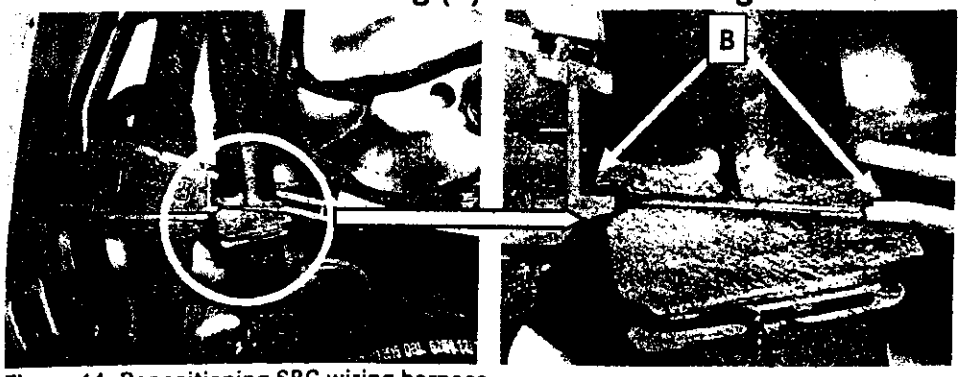


Figure 14: Repositioning SBC wiring harness

c. **Only veh. with code RHD (right-hand drive vehicle)**
If the cable length for tension-free displacement of the SBC wiring harness is not sufficient, loosen the cable tie (arrow) in the area of the ground point, remove SAM cover, lift the SBC wiring harness and displace feed-through grommet approx. 10 mm toward the SAM housing and displace wiring harness out of the SAM housing by lightly pulling in the direction of the SBC hydraulic unit.

Figure 15: SBC wiring harness at SAM housing

d. Mount SBC wiring harness with new routing bracket (Figure 16)

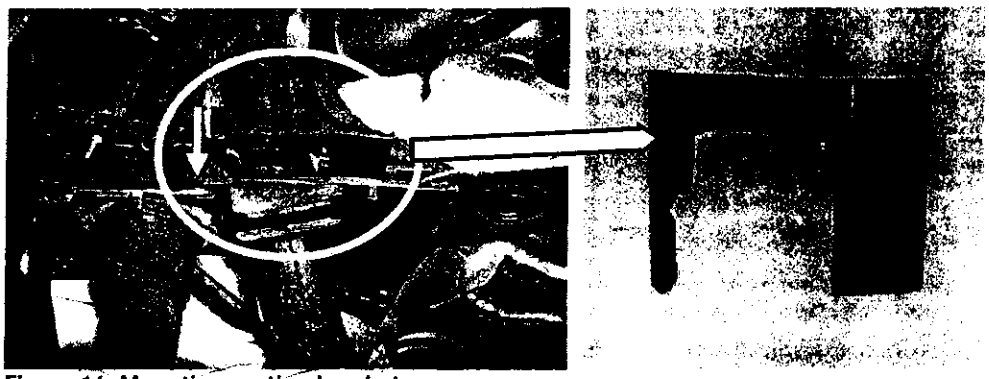


Figure 16: Mounting routing bracket

e. Mount rubber seal (Figure 17).

Figure 17: Mounting rubber seal

17. Mount ground wiring harness parallel to the vehicle longitudinal axis (X-axis) on the threaded stud of the body. Tighten the M6 nut using the prescribed tightening torque of 10 Nm.

Note: The position of the cable lug must be maintained as shown in Figure 18 (A). Chafing marks are to be avoided!

Avoid contact with the water hose!! (B)

This threaded bolt is to be used exclusively for mounting the SBC ground line!
No other ground lines of any kind may be connected!

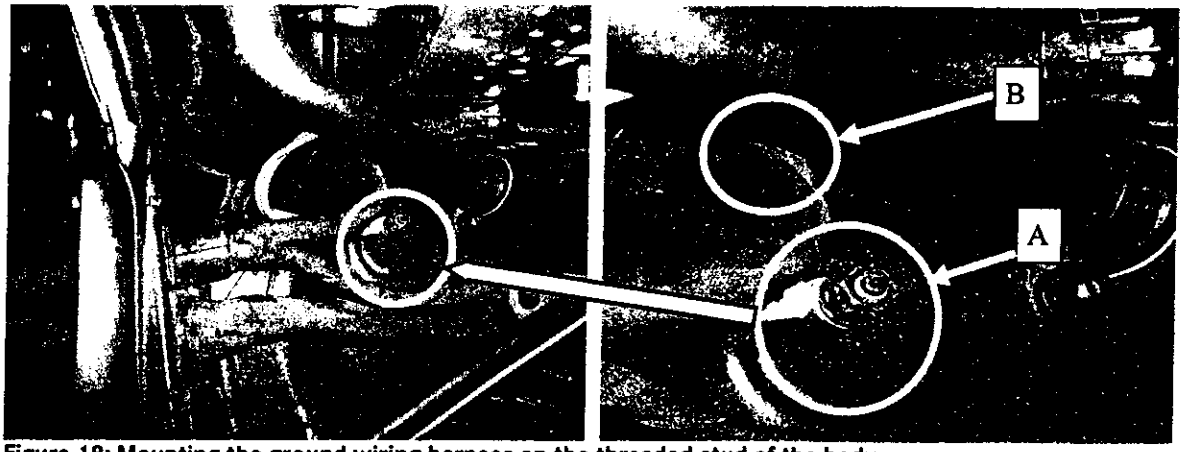


Figure 18: Mounting the ground wiring harness on the threaded stud of the body

18. Attach bracket with self-tapping screw to the SBC hydraulic unit (Figure 19). In order to prevent the self-tapping screw from snapping off, the screw must be positioned **absolutely straight** and tightened with the prescribed torque of 7 Nm.

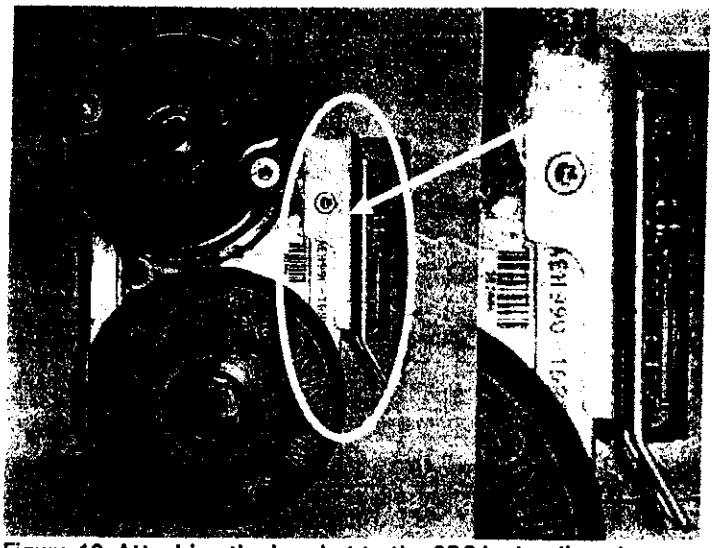


Figure 19: Attaching the bracket to the SBC hydraulic unit

19. Mount the connector on the SBC hydraulic unit and secure with connector locking mechanism.

20. Check the software release of the SBC using DAS and update if necessary. DAS menu: "Control units - Chassis – SBC - Sensotronic Brake Control - Control unit adaptations" **Ensure that you follow the instructions in DAS!**

21. Connect ground wiring harness at height of bracket to cable set using two layers of adhesive fabric tape (Figure 20).

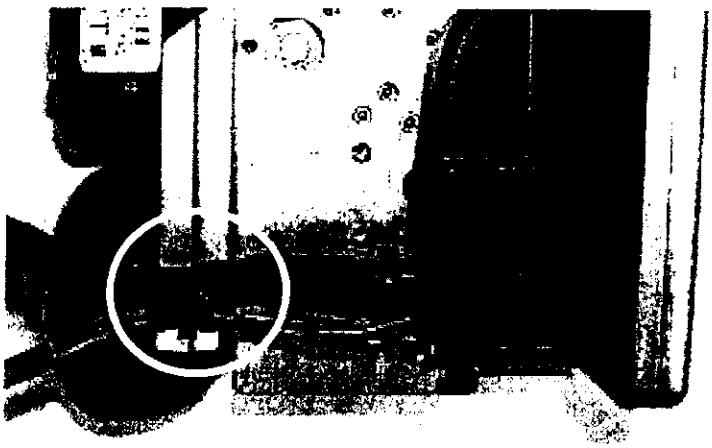
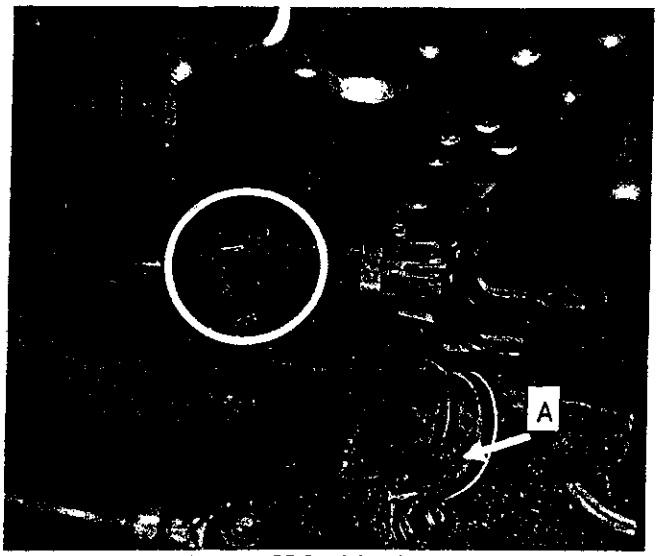


Figure 20: Attaching ground lines of ground wiring harness to cable set

22. Affix ground wiring harness and SBC wiring harness free of tension with a cable tie to the bracket using a cable tie pliers (W 352 589 02 37 00) with a tightening torque of 150 N to 170 N (Panduit adjustment level HVY 5 or Hellermann adjustment level STD 3) (Figure 19). The buckle of the cable tie must touch the bracket.

Note: When mounting the SBC wiring harness to the bracket, ensure that the SBC wiring harness touches the bracket and is attached there free of tension.
After the SBC wiring harness is attached, it must no longer be possible to move it in the longitudinal direction toward the bracket!



Mount SBC wiring harness with a cable tie (free of tension) to the bracket using cable tie pliers with a tightening torque of 150 N to 170 N (Panduit adjustment level HVY 5 or Hellermann adjustment level STD 3).

Figure 21: Mounting the SBC wiring harness to bracket of SBC hydraulic unit

23. Mount bracket (A) of hose (Figure 16).

Parts

Quantity	Designation	Part no.
1	Ground wiring harness	A 211 440 35 08/05
As req.	Cable tie	A 001 997 83 90 (packaging unit 100)
1	Routing bracket	A 211 546 74 43
1	Bracket (hydraulic unit)	A 211 545 00 47/05
1	Screw (self-tapping)	A 000 990 36 11
As req.	Adhesive fabric tape	A 006 989 84 85 10
As req.	Veh. with code 803, without code 053: SBC hydraulic unit (32 MHz)	A 005 431 71 12/05
As req.	Veh. with code 803 and code 053 Veh. with code 804: SBC hydraulic unit (40 MHz)	A 005 431 79 12/05

Operation text and flat rate

Operation no.	Operation text	Flat rate	Accounting no.
02-4844-01	Check bracket of SBC wiring harness	0.1 hrs.	54 960 33
02-4762	Disconnect and connect Diagnosis Assistance System (DAS)	0.2 hrs.	54 960 33
02-4846-01	Mount ground line and bracket to SBC wiring harness (DAS connected)	0.4 hrs.	54 960 33
02-4822	Replace SBC hydraulic unit (DAS connected) model 211 except model 211 076	2.8 hrs.	54 960 33
02-4822	Replace SBC hydraulic unit (DAS connected), model 211 076	2.9 hrs.	54 960 33
02-4886	Install software (DAS connected)	0.4 hrs.	54 960 33

Special tools

Quantity	Designation	Part no.
1	Blade	W 000 589 13 99 30
1	Handle	W 220 589 01 99 50
1	Pliers	W 352 589 02 37 00

Check/test procedure

1. **Check/test procedure A:**

Figure 1: Bracket of hydraulic unit

Check whether bracket is installed on the SBC hydraulic unit (Figure 1).
If bracket is installed, check software release.
If a bracket is not installed, continue with check/test procedure B.

2. **Check/test procedure B:**

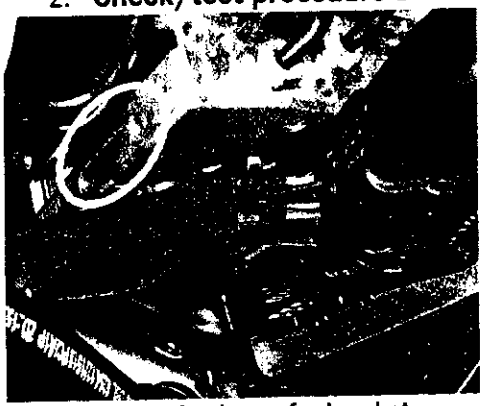


Figure 2: Mounting bores for bracket

Check whether mounting bores are available on the SBC hydraulic unit (Figure 2).
If bores are available, continue with steps 1 - 19
If bores are not available, carry out the following:

- Replace SBC hydraulic unit as per AR42.46-P-0010R.
- Check the leaktightness of the intake duct connecting points.

Note: Even the smallest drops indicate leakage! The maximum pressure of the filling unit (2.5 - 3.0 bar) must be applied for at least five minutes. Then check the entire suction line for visible leaks, particularly at the connections.

- **Then carry out steps 4 - 16 when the SBC hydraulic unit has been removed.**

Work procedure

1. *Lock the vehicle globally and then wait for 30 seconds for the SBC control unit to power-down.*
2. Remove right intake air duct.
3. Unplug connector from SBC hydraulic unit.
4. Detach the SBC hydraulic unit ground line at the threaded stud (Figure 3).

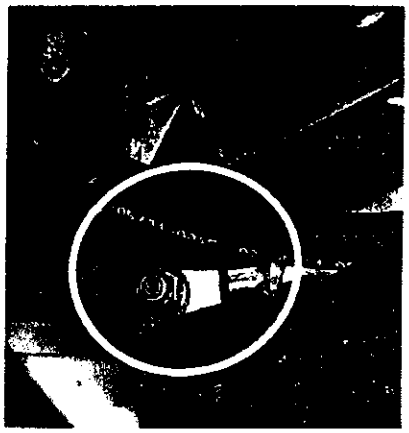


Figure 3: Threaded stud of ground wiring harness

5. Remove cable tie where SBC connector housing fits into wiring harness (Figure 4).

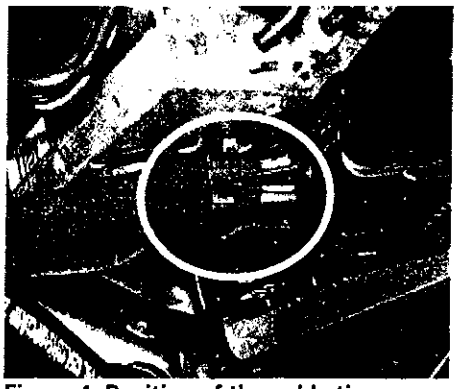


Figure 4: Position of the cable tie

6. Remove SBC connector housing cap.

Note: There are two different versions (Figure 5)
First, carefully lift the plastic lug on one side until the cap disengages.
Then repeat this process on the other side.
The cap now can be removed.

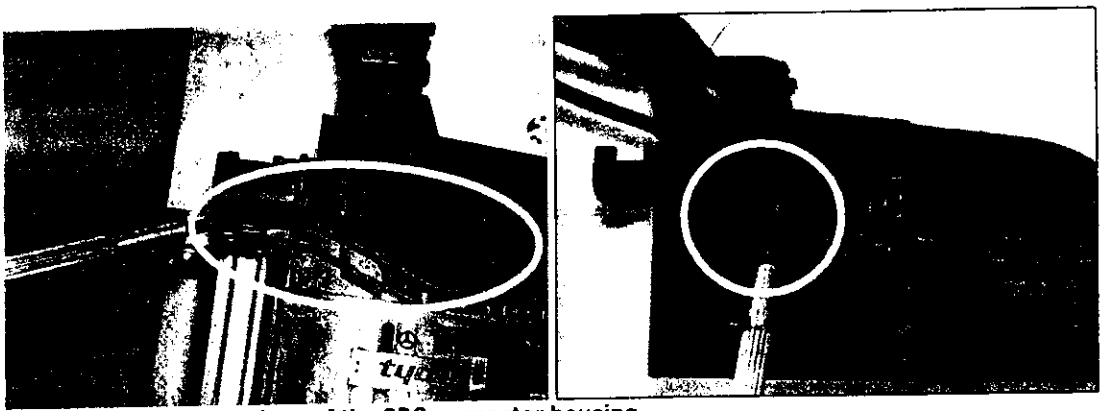


Figure 5: Different versions of the SBC connector housing

7. Remove cable ties from both ground lines at the SBC connector housing.

8. Check which SBC connector housing version is installed.
(Figure 6)

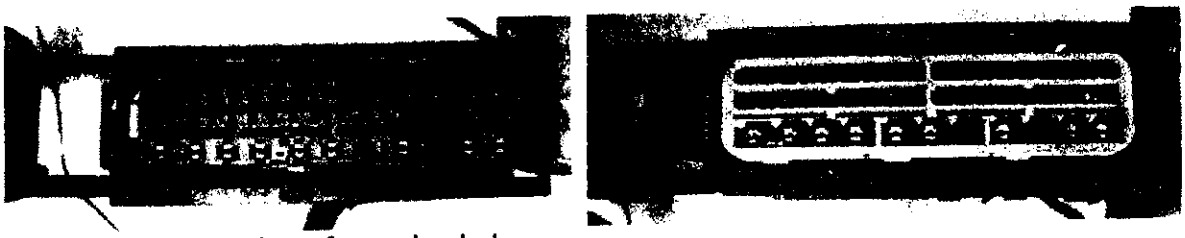


Figure 6: Different versions of secondary lock

9. Open gray secondary lock in the SBC connector housing.
To do this, slide the secondary lock in the direction indicated by the arrow using a small screwdriver (Figure 7).

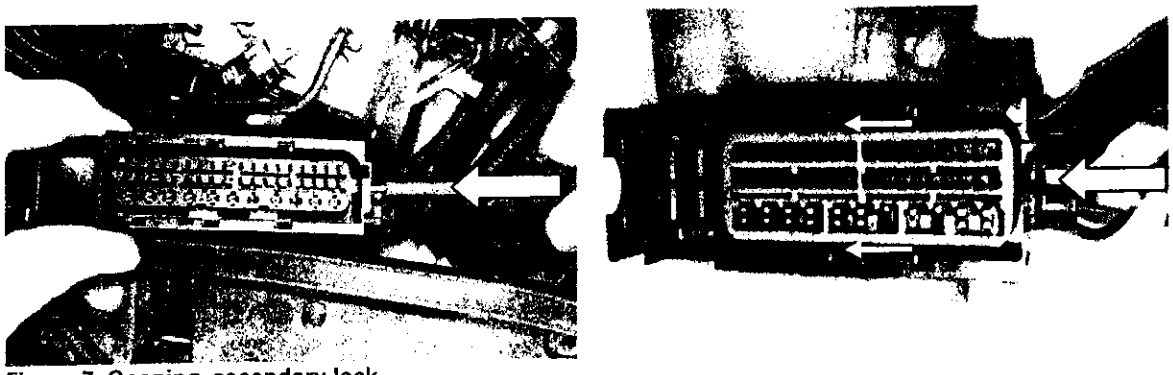


Figure 7: Opening secondary lock

10. Remove pin 37 and pin 44 (Figure 8) from the SBC connector housing using cable release tool (W 000 589 13 99 30 and W 220 589 01 99 50).
The old ground wiring harness no longer is needed.

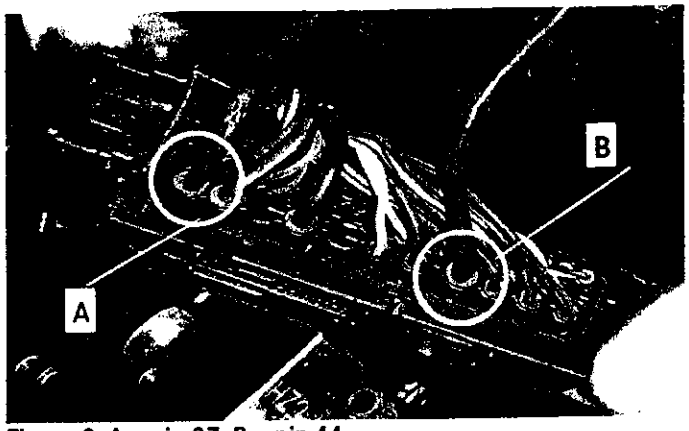


Figure 8: A = pin 37, B = pin 44

11. Insert the new ground wiring harness into the SBC connector housing and **properly** lock into place.

Note: Ensure that the longer ground line of the ground wiring harness is inserted into plug position 44 and that the shorter ground line is inserted into plug position 37.

12. Close the gray secondary lock of the SBC connector housing. To do this, slide the gray secondary lock in the direction indicated by the arrow using a small screwdriver (Figure 9).

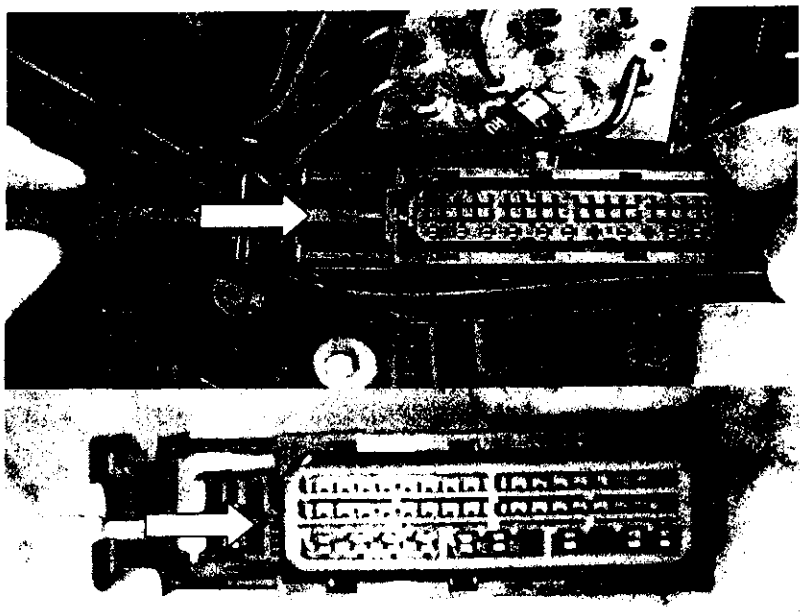


Figure 9: Closing the secondary lock

13. Install the SBC connector housing cap in the reverse order as described in step 6.

14. Affix SBC wiring harness (A) without ground lines to the cap of the SBC connector housing using a new cable tie and affix ground wiring harness (B) to the SBC connector housing using a new cable tie (see Figure 10)

Note: Ensure that the SBC wiring harness is affixed free of tension in the SBC connector housing. The cable tie "buckle" must be located at the side of the SBC wiring harness.

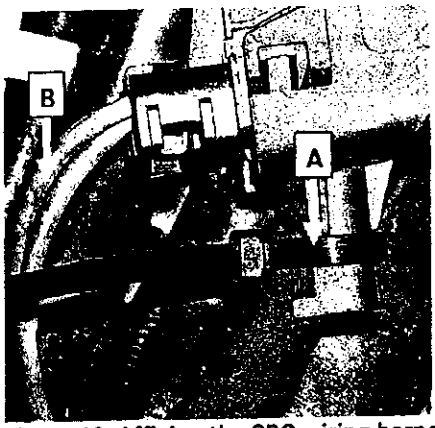


Figure 10: Affixing the SBC wiring harness to the cap of the SBC connector housing

15. Attach the ground wiring harness to the threaded stud on the body. Tighten the M6 nut using the prescribed tightening torque of 10 Nm.

Note: The ground lines must be routed **under** the SBC suction hose! The position of the cable lug is to be maintained as shown in Figure 11.

This threaded stud must be used for securing the SBC ground line only! No other ground lines of any kind may be connected!

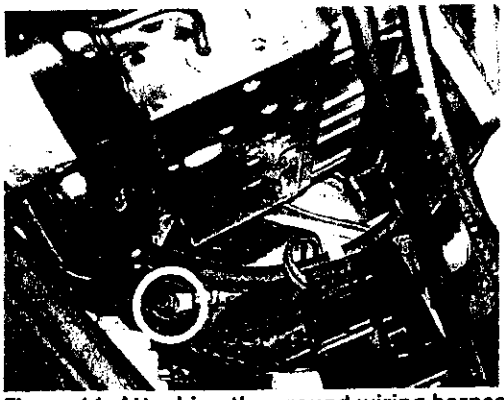


Figure 11: Attaching the ground wiring harness to the threaded stud of the body

16. Attach bracket with self-tapping screw to the SBC hydraulic unit (see Figure 12). In order to prevent the M5 self-tapping screw from snapping off, the screw must be positioned **absolutely straight** and tightened with the prescribed torque of 7 Nm. To do this, use a bit reversible ratchet (e.g. Hazet 6408, Figure 13).

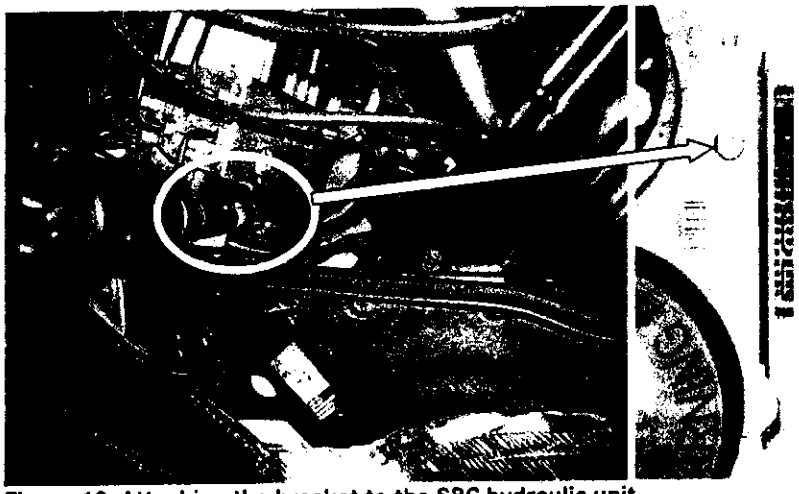


Figure 12: Attaching the bracket to the SBC hydraulic unit

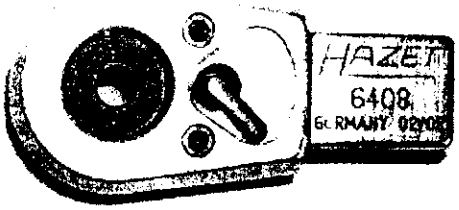


Figure 13: Bit reversible ratchet

17. Mount the connector on the SBC hydraulic unit and secure with connector locking mechanism.

18. Check the software release of the SBC using DAS and update if necessary. DAS menu: "Control units - Chassis - SBC - Sensotronic Brake Control - Control unit adaptations" **Ensure that you follow the instructions in DAS!**

19. Affix SBC wiring harness (free of tension) with a cable tie to the bracket using a cable tie pliers (W 352 589 02 37 00) with a tightening torque of 150 N to 170 N (Panduit adjustment level HVY 5 or Hellermann adjustment level STD 3) (Figure 14).
The buckle of the cable tie must touch the bracket.

Note: When attaching the SBC wiring harness to the bracket, ensure that the SBC wiring harness touches the bracket and is affixed there free of tension.
After the SBC wiring harness is attached, it must no longer be possible to move it in the longitudinal direction toward the bracket!

Mount SBC wiring harness with a cable tie (free of tension) to the bracket using a cable tie pliers with a tightening torque of 150 N to 170 N (Panduit adjustment level HVY 5 or Hellermann adjustment level STD 3).

Figure 14: Mounting the SBC wiring harness to bracket of SBC hydraulic unit

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Parts

Quantity	Designation	Part no.
1	Ground wiring harness	A 230 540 92 10 /05
As req.	Cable tie	A 001 997 83 90 (Packaging unit: 100)
1	Bracket (hydraulic unit)	A 230 545 00 47/05
1	Screw (self-tapping)	N 007 516 00 51 06
As req.	Veh. with code 802 or Veh. with code 803, without code 053: SBC hydraulic unit (32 MHz)	A 005 431 71 12/05
As req.	Veh. with code 803 and code 053: Veh. with code 804: SBC hydraulic unit (40 MHz)	A 005 431 79 12/05

Operation text and flat rate

Operation no.	Operation text	Flat rate	Accounting no.
02-4844	Check bracket of SBC wiring harness	0.1 hrs.	54 960 33
02-4762	Disconnect and connect Diagnosis Assistance System (DAS)	0.2 hrs.	54 960 33
02-4846	Mount ground line and bracket to SBC wiring harness (DAS connected)	0.4 hrs.	54 960 33
02-4822	Replace SBC hydraulic unit (DAS connected)	3.3 hrs.	54 960 33
02-4822	Replace SBC hydraulic unit (DAS connected) Models 230, 474, 476 and 479	3.4 hrs.	54 960 33
02-4886	Install software (install DAS)	0.4 hrs.	54 960 33

Special tools

Quantity	Designation	Part no.
1	Blade	W 000 589 13 99 30
1	Handle	W 220 589 01 99 50
1	Pliers	W 352 589 02 37 00

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