

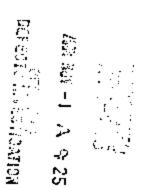
Mercedes Benz USA, LLC

Frank Dierti General Manager, Engineering Services

VIA CERTIFIED MAIL

October 22, 2004

National Highway Traffic Safety Administration Office of Defect Investigation Attention: George Person, Chief Recall Analysis Division 400 Seventh Street, S.W. Washington, D.C. 20590



Re: 49 CFR Part 573; Recall of Mercedes-Benz E and SL-Class

Dear Mr. Person:

Pursuant to 49 CFR Part 573.5(c)(9), this letter contains 3 documents that were communicated to our dealers on the above subject and will be submitted in Mercedes-Benz USA, LLC (MBUSA) regular monthly mailing for the month of October, 2004.

Manufacturer's Campaign Identification Number 2004 050014

NHTSA Recall Number 04V-296

Should you have any questions, please do not hesitate to contact Gary Bowne at 201-573-2719.

Sincerely,

FD:sk

Enclosure

Route: Ail

To: All Mercedes-Benz Dealers

Subject: Voluntary Recall Campaign MY 2003 – 2005 E and 2003 – 2004 SL-Class Sensotronic Brake Control (SBC) System

Date: October 19, 2004

Ladies and Gentlemen:

On June 22, 2004 you were notified that Mercedes-Benz USA LLC will conduct a voluntary recall campaign of certain model year 2003 – 2005 B and 2003 – 2004 SL-Class vehicles, regarding the Sensotronic Brake Control (SBC) System.

DCAG has determined that in certain instances the pump motor may run out of permissible tolerances, thereby triggering the hydraulic back up function mode. In the hydraulic back up mode, the driver has braking power sufficient to stop the vehicle, although greater brake pedal pressure is required and the brake pedal travel will be noticeably longer which could lead to a vehicle crash. The recall will be conducted in order to reprogram new software into the SBC Hydraulic unit and, in some cases (VIN specific), bleed the brake system.

Approximately 140,387 vehicles in the US are affected by this voluntary recall. Today the dealer recall bulletin has been posted on Star TekInfo and will be mailed to the dealers shortly. Customer letter mailings will also follow in a few days. Also today, a Required Special Tool will be automatically released one per Mercedes-Benz dealer. Due to a limited supply of this Required Special Tool no additional tools are available until further notice and no orders will be accepted. Under separate cover you will receive copies of DAS software patch 2004-09-23-0295 to complete the reprogramming of the SBC hydraulic unit. Please note all SBC diagnosis and/or repair must be performed utilizing STAR Diagnosis DAS software 09/2004 and software patch 2004-09-23-0295 (or later DAS release) or erroneous diagnosis may occur. A label for the SDS machine with this information will be provided as a reminder to assist technicians in correct SBC diagnosis.

Please note that two additional Service Campaigns for MY 2003 – 2004 E Class have been launched concurrently with the SBC Recall to eliminate the need for multiple customer dealer visits. It is important for the Service Writer to check the VIN in VMI for each customer at the time the repair order is written in order to determine if the vehicle is involved in one or more open campaigns. Accordingly, please inform the customer if additional waiting time will be necessary based on multiple open campaigns.

Please refer any customer inquiries to the Customer Assistance Center, of MBUSA, at 1-800-FOR-MERCedes, (1-800-367-6372)

MBUSA Engineering Services 10/19/04

Recall Campaign Bulletin

FILE:

SERVICE:

GROUP 00 OF SERVICE INFORMATION BINDER

PARTS:

GROUP FOF INFORMATION - PARTS & ACCESSORIES BINDER

Campaign No. 2004050014

October 2004

TO:

Recall Campaign Bulletin

ALL MERCEDES-BENZ CENTERS

SUBJECT:

MODELS 211.065/070/076/082/083/026/265/283/282, 230.474/475/476

MODEL YEARS 2003 THROUGH 2005 PROGRAMMING SBC HYDRAULIC UNIT

This Recall Campaign has been initiated because DCAG has determined that on the affected vehicles (see VIN range below), in certain instances, the Sensotronic Brake Control (SBC) pump motor may run out of permissible tolerances, thereby triggering the hydraulic back up function mode. In the hydraulic back up mode, the driver has braking power sufficient to stop the vehicle, although greater brake pedal pressure is required and the brake pedal travel will be noticeably longer which could lead to a vehicle crash. The recall will be conducted in order to re-program the SBC Hydraulic unit.

Please review the Effective Serial Number Chart located below.

Attached is a sample copy of a letter which owners of the affected vehicles will receive.

Prior to performing this Recall Campaign:

- Please check VMI to insure the vehicle is involved and to determine if the vehicle has been previously repaired.
- Please review the entire Recall Campaign bulletin.

Approximately 140,387 vehicles are affected.

Effective Serial Number Range

Model	Chasais End Number
	From To
211	A014562 A586891
	X097696 X163060
230	F001748 F085469

Order No. P-RC-2004050014

This bulletin has been created end maintained in accordance with MBUSA-SLP 9423QH001, Document and Date Control, and MBUSA-SLP 9424HH001, Control of Quality Records.

Procedure

Note:

- Use STAR Diagnosis DAS software 09/2004 with the 2004-09-23-0295 patch installed (or later DAS release). As of DAS Release 10/04 the 2004-09-23-0295 patch is included within the DAS software.
- Serial Interface (COM1) on SDS must be free. In the event a device is connected to COM1, disconnect the device (from the SDS COM1 port) then shut down and restart SDS.
- Visually inspect whether the pump motor of the SBC hydraulic unit has a white Q11 sticker on it. If this is the case, programming is not required. The vehicle can be returned to the customer without the need for additional work. If a Q11 sticker is not present, continue with procedure. To close out campaign for inspection only see Warranty Information on page 11.

Notes on programming the SBC control module:

- In order to avoid oscillations in the on-board power supply, no electrical devices must be switched on/off. Ensure all electrical consumers are switched off (e.g. radio, telephone, climate control) prior to programming the SBC control module.
- The programming will not be successful if the SBC control module has undervoltage
 when programming is taking place. For this reason, a battery charger must be connected
 before programming starts.

∆CAUTION

If programming is aborted, the SBC control module will no longer be operational!

- Temperature of SBC hydrautic unit must be ≤ 50 ° C and ≥ 10 ° C. Programming with
 SDS is not possible if hydraulic unit temperature is out of range. Do not cool hydraulic
 unit with any other method than air cooling (e.g., open hood and allow unit to cool
 unassisted or cool unit by circulating air around it using a standing electric room fan).
- Connect SDS to vehicle through the 16 pin diagnostic connector (X11/4).
- 3. Switch Ignition: ON.
- Perform short test, read and document fault memory then erase fault codes.

Note:

Prior to programming, ensure that there are no warning messages in the instrument cluster display. Take care of any customer complaints prior to programming the SBC control module.

 Select Control Units adaptations in the SBC control module by navigating through the following screen menus in DAS: Control Units/Chaesis/SBC - Sensotronic Brake Control/Control Unit Adaptations.

Note:

The DAS steps MUST be followed exactly as described in the previous step.

- When the "Control Unit Adaptations" menu item is selected the parameters are updated and SDS checks whether the SBC control module requires programming.
- If programming is not required, a white Q11 sticker must be affixed to the pump motor of the SBC hydraulic unit in a clearly visible position. The sticker must be applied to a clear surface. Disconnect SDS from vehicle. The vehicle can be returned to the customer.
- If SDS indicates that control module software for updating has been found, continue with step 6.
- Ensure that the vehicle has an adequate power supply (more than 12.5V) using a battery
 charger. Do not connect the negative terminal of the battery charger to the vehicle
 battery, but connect it to a vehicle ground instead.
- Read and observe notes on control unit programming in DAS.

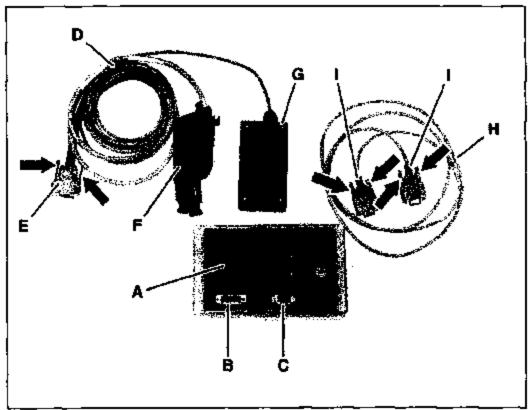


Figure 1 P43.00-2040-81

SBC module kit (ensure you have received all of the following components):

Arrows Connector thumb acrews

- A. SBC module box
- B. SBC module hox corrector (15 pin)
- C. SBC module box serial port (9 pin)
- O. Adapter cable

- E. Adapter cable connector to module box (15 pin)
- F. Adapter cable connector to SBC hydraulic unit
- G. Adapter cable connector to engine harness (47 pln)
- H Serial cable
- I Serial cable connector ends

7. Press F2:

The vehicle will now be checked with regard to the SBC hydraulic unit voltage supply and temperature.

Connect edepter cable connector (A, Figure 2) to connector (B, Figure, 3) on the SBC module box (A, Figure 3) and secure connector (A, Figure 2) using thumb screws (arrows).

Note:

Ensure that the connection is correctly seated by fully tightening the thumb acrews (arrows).

⚠ CAUTION!

The SBC module box (A, Figure 3) must be positioned in a location where the adapter cable (B, Figure 2) cannot come into contact with rotating engine parts.

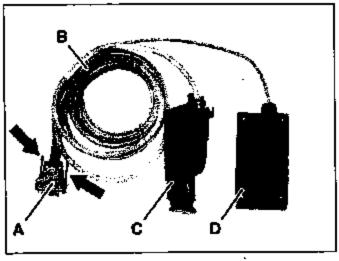


Figure 2 P43.00-2041-71

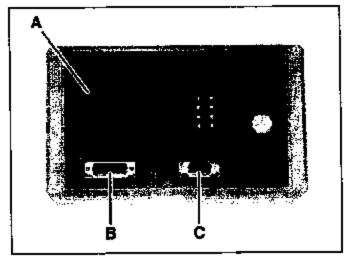


Figure 3 P43.00-2042-71

- Disconnect engine wiring harness connector (arrow, Figure 4) from SBC control module (A).
- Connect and lock 15/47-pin adapter cable connector (A, Figure 5) to engine wiring harness connector (B).
- Connect and lock 15/47-pin adapter ceble connector (C, Figure 5) to SBC control module (D) connector.



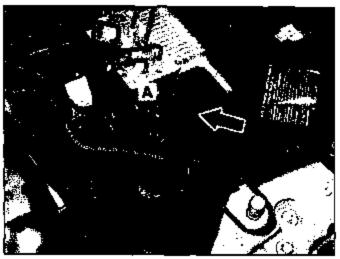


Figure 4

P43.00-2043-71

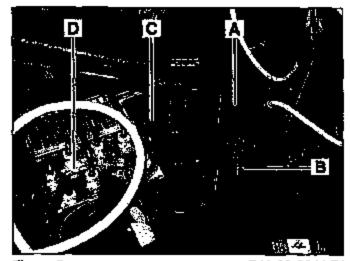


Figure 5

P43.00-2044-71

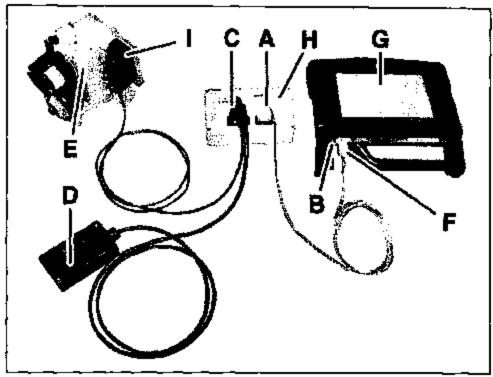


Figure 6 P43.00-2045-71

SBC module box kit cable connections

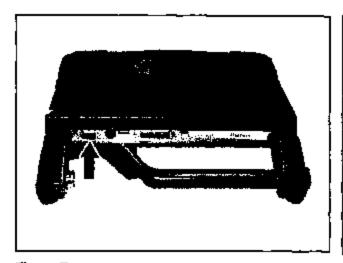
- A Serial cable connector end
- B SDS serial interface (COM) 1) 9 pin connector G SDS Besic C Adapter cable connector to module box (15 pin) H SBC Module box. D Adapter cable connector to angine harmess (47 pin) SBC sydraulic unit
- E SBC hydraulic unit (shown out of vehicle)
- Serial cable connector and.
- - SBC hydraulic unit connector

13. Connect SDS and SBC module:

- Connect one end of serial cable connector (A, Figure 6) to serial port on the SBC module box (H) and secure using thumb screws.
- Connect the other end of serial cable connector (F, Figure 6) to serial interface COM1 (B) on SDS (G).

Note:

Refer also to Figures 7 and 8 for location of SDS serial interface locations.



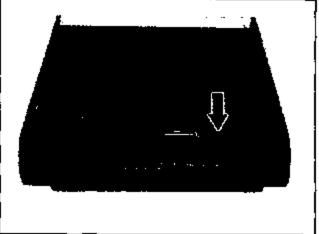


Figure 7 P43.00-2048-71 SDS certal interface COM1 (arrows, Figures 7, 8)

Figure 8

P43.00-2047-71

Note:

- Ensure that both ends of the serial connector are correctly seated by fully tightening the thumb screws.
- Ensure that the cable connection from SDS to the 18-pin diagnostic connector (X11/4)
 on the vehicle is not interrupted.
- 14. To continue procedure, press F2 and follow the DAS instructions.

Start programming by pressing F3.

Note:

- Programming takes approx. 2.5 to 3 minutes. Do not disrupt procedure while in prograss.
- Follow DAS instructions.
- If programming was unsuccessful, an error message with appear. Other SDS actions may
 be requested depending on the error messages.
- If the COM1 port on SDS is not enabled, the vehicle cannot be programmed.
- 16. Following programming, remove the edapter cable (15-/47-pin) and the serial cable (9-pin) from SDS and the SBC module box. Reconnect engine witing harness connector to SBC hydrautic unit.

Note:

Ensure that the cable connection from SDS to the 16-pin diagnostic connector (X11/4) on the vehicle is not interrupted.

Press F2. The programming of the SBC control module will now be checked.

Note:

- The programming of the SBC control module causes various fault codes to be stored in other control modules. For this reason, step 18 must be performed after the SBC control module has been successfully programmed.
- If programming is successful DAS will display:
 "Result: Programming of control module successfully completed",
- Perform short test, erase fault memory.
- Attach Q11 sticker to the pump motor of the SBC hydraulic unit in a clearly visible position. The sticker must be applied to a clean surface.

20. For vehicles:

- Model 211:
 - Up to chassis end number A 279 911, X102 857 continue to step 21 (bleed hydraulic braking system).
 - As of chassis end number A 279 912, X102 858 continue to step 23 (brake bleeding not required).
- Model 230:
 - Up to chassis end number F 066 278 continue to step 21 (bleed hydraulic braking system)
 - As of chassis end number F 088 279 continue to step 23 (brake bleeding not required).
- 21. Bleed hydraulic braking system (refer to WIS: AR42.10-P-0012R). Navigate through the Following screen manus in DAS to perform bleeding and follow on-screen instructions: Control units/Chassia/SBC/ General servicing/Replace brake system (follow on-screen instructions).

△ WARNING

Use only Special Tool: EHB adapter (part no. 240 589 00 91 00) when bleeding brakes. DO NOT use any other part no. regardless of what is indicated in DAS.

Note

Remove all four wheels on the following models when bleeding brakes: 211.076, 230.474/476

- 22. Inspect brake system for air. Navigate through the Following screen menus in DAS to inspect brake system for air and follow on-screen instructions: Control units/ Chassis/SBC/ General servicing/inspect brake system for air (follow on-screen instructions).
- Disconnect SDS from vehicle.

Note:

All Sensotronic Brake Control diagnosis and/or repair must be performed utilizing STAR Diagnosis DAS software 09/2004 with the 2004-09-23-0295 patch installed (or later DAS release) or erroneous diagnosis may occur.

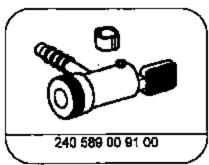
24. Disconnect battery charger

Note:

- If SDS indicates that the SBC hydraulic unit must be replaced, proceed as described in WIS AR42.46-P-0010R. All the steps described therein must be followed.
- If the instrument cluster's odometer displays "-----", instead of actual mileage, than the
 Instrument cluster will need to be reinitialized. In order to reinitialize the instrument
 cluster navigate through the following DAS menus: Control units/information and
 communication/IC-instrument cluster. Once the instrument Cluster menu is selected,
 DAS will automatically prompt instrument cluster initialization (follow on screen
 instructions).
- The replacement parts department ensures that only the latest version of the SBC hydraulic unit will be delivered. These units no longer require programming.

Special Tools







Note:

These are Required Special Tools that will be automatically released 1 per Mercedes-Benz dealer in conjunction with this Recall.

Parts Information

Qty.	Part Name	Part Number	
1	SBC hydrautic unit	A005 431 68 12 05 (Model 211) 19	
	∆ CAUTION!	A005 431 34 12 05 (Model 211) ^a	
	Refer to parts ordering Information below to	A005 431 68 12 05 (Model 230) *	
	determine the correct SBC hydraulic unit to install	A005 431 34 12 05 (Model 230) ⁶	
1	Sheet of Q11 stickers (40 stickers per sheet) *	A 211 584 00 07	
2.25 liters	Brake fluid ®	A 000 989 08 07 01	

Parts Notes:

SBC Hydraulic unit ordering information:

For **model 211**, determine the correct part to install by viewing which part number is installed in the vehicle:

- "If the installed unit is marked A004 431 43 12, A004 431 98 12, A004 431 42 12 or A004 431 97 12, then install the A005 431 68 12 05, and be sure to bleed the system.
- ^a If the installed unit is marked A004 431 70 12, A005 431 00 12, A005 431 06 12, A004 431 69 12, A004 431 99 12 or A004 431 05 12, then install **A005 431 34 12 05** For model **230**, determine the correct part number by VIN:
- **Up to VIN F049658 (Production Date March 4, 2003) install A005 431 88 12 05 and bleed the system
- *From VIN F049659 up to MY 2005 (Code 805), Install A005 431 34 12 05.

Q11 etickers:

Please only order the number of sheets of Q11 stickers that are actually required; note that each sheet contains 40 Q11 stickers. * Submit as local purchase *QLABEL00008* quantity of 1. (handling is included).

Brake fluid:

Submit as local purchase "Bkfluid00551" quantity of 3, (handling is included).

Note:

The following allowable labor operation should be used when submitting a warranty daim for this repair:

Warranty information

Operation: Expanded short test, perform (02-4416)

Control unit - program, perform (02-4425)

Hydraulic brake system, Bleed (If necessary) (02-4566)

SBC hydraulic unit, (includes bleeding) replace (if necessary) (02-4390)

Inspect for Q11 label. No further repair required (42000001)

All Vehicles

Damage Code	Operation Number	Labor Time (hrs.)	Model Indicator(s)
43 910 27	02-4416	0.4 hrs.	R0, T0, U0
1	02-4425	0.4 hrs.	R0, T0, U0
	02-4566 *	1.0 hrs.	T1, T2, T4, T5, T6, U1, U3, U4, R1
		1.6 hrs.	T3, R2, R3

* In addition, if vehicle falls in the following Serial Number Range add this operation to claim Chaseis End Number

From

Tο

A 014562 - A 279911

X 097698 - X 102857

F 001748 - F 086278

In the rare occurrence when the vehicle requires replacement of the SBC hydraulic unit submit the claim as follows:

Damage Code	Operation Number	Labor Time (hrs.)	Model Indicator(s)
43 910 27	02-4416	0.4 hrs.	R0, T0, U0
	02-4425	0.4 hrs.	R0, T0, U0
1	02-4390	3.8 hrs.	R0, T0, U0

In the rare occurrence when the Q11 label is found on the pump motor submit the claim as follows to close campaign:

Damage Code	Operation Number	Labor Time (hrs.)	Model Indicator(s)
43 910 27	42000001	0.2 hrs	R0, T0, U0

Note:

All replaced SBC hydraulic units must be returned to the Quality Evaluation Center (QEC) indicated by NetSter parts disposition. Each returned SBC hydraulic unit must include a printout of the STAR Diagnosis test "Check operating time of component A7/3 (SBC hydraulic unit)". In order to obtain a printout navigate through the following STAR Diagnosis menus: (Control Units->Chassis->Sensotronic Brake Control (SBC)->General Servicing->Check Operating Time Of Component A7/3 (SBC Hydraulic Unit)). Warranty claims filed for Sensotronic Brake, after October 26, 2004, without including the STAR Diagnosis printout will be debited and the corresponding parts will be sent back to the dealer.

NOTE REGARDING CUSTOMER REIMBURSEMENT

Reimbursement to customers for repairs performed prior to this recall:

If the customer already paid to have this recall condition repaired and provides adequate documentation to support their claim of a non-warranty repair of this item, they may be eligible to receive reimbursament.

Requests for reimbursement may include parts, labor, fees and taxes. Reimbursement may be limited to the amount the repair would have cost if completed by an authorized Mercedes-Benz dealer.

See "Reimbursement to Customer for repairs performed prior to recall" in MBUSA's Warranty Policy and Procedures Manual.

Please note the claim submitted for customer reimbursement will not close the campaign (if still open).

If the customer is still in possession of the vehicle with an open campaign, please arrange to close the recall in the usual manner.

Safety Recall #2004 050014

October, 2004

Dear Mercedes-Benz Owner

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. WE SENT YOU THIS NOTICE BECAUSE WE ARE CONCERNED ABOUT YOUR SAFETY.

DaimlerChrysler AG (DCAG), the manufacturer of Mercedes-Benz vehicles, has decided that a defect which relates to motor vehicle safety exists in certain Model Year 2003 – 2005 B-Class and 2003 – 2004 SL-Class vehicles equipped with Sensotronic Brake Control (SBC). Mercedes-Benz USA, LLC (MBUSA) therefore has initiated a recall of these vehicles. Our records indicate that your vehicle is included in this group.

DCAG has determined that in certain instances the pump motor may run out of permissible tolerances, thereby triggering the hydraulic back up function mode. In the hydraulic back up mode, the driver has braking power sufficient to stop the vehicle, although greater brake pedal pressure is required and the brake pedal travel will be noticeably longer which could lead to a vehicle crash.

Your authorized Mercedes-Benz dealer has an available software upgrade that corrects the situation described above.

If you are no longer the vehicle owner, or have a change of address, please complete the reverse side of this letter and return the complete letter in the enclosed envelope. If this is a leased vehicle and the leaser and registered owner receive this notice, please forward this information by first class mail to the leasee. If you have paid to have this recall condition corrected prior to this notice you may be eligible to receive reimbursement. Please see the reverse side of this notice for details.

Please contact your authorized Mercedes-Benz dealer should you have any questions or encounter any difficulty regarding this recall. If your dealer is unable to remedy your situation please contact us at 1-(800) FOR-MERCedes (1-800-367-6372).

If an authorized Mercedes-Benz dealer or Mercedes-Benz USA, LLC, fails or is unable to perform this service without charge within 60 days, pursuant to law 49 U.S.C. Chapter 301, you may submit a complaint to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S.W., Washington, D.C. 20590 or call the toll-free Auto Safety Hotline at 888-327-4236.

Again, we apologize for any inconvenience this situation may cause you.

Sincerely

Klaus Ulkano Vice President, Customer Services The following notice is to serve as an informational supplement for the SBC Recall announced to the MBUSA Dealer Network on 19
October 2004.

The DAS patch (2004-09-23-0295) release note has been revised to include pertinent information in regard to the SBC Recall. This DAS patch (2004-09-23-0295) was delivered to all dealers in quantity via Fed-Ex on 7 October 2004.

Please be sure to insert this revised release note into the sleeve of the patch CD for your records.

Issues addressed on this (2004-09-23-0295) patch:

- SBC (211, 230): Version Coding and system bleed processes have been enhanced
- AGW (215, 220, 230) Flash process would not initialize properly

NOTE:

- This patch (2004-09-23-0295) must be installed on DAS 09/04
- This patch (2004-09-23-0295) is contained within the DAS software as of DAS Release 10/04

SPECIAL NOTICE:

 Labels bearing the following text has been provided within this mailing and MUST be affixed to each SDS machine at your dealer.

"NOTICE: All Sensotronic Brake Control (SBC) diagnosis and/or repair must be performed utilizing STAR Diagnosis DAS software 09/2004 with the 2004-09-23-0295 patch Installed (or later DAS release) or erroneous diagnosis may occur. As of DAS Release 10/04 the 2004-09-23-0295 patch is included within the DAS software"

- You will receive 1 label per SDS machine currently licensed to your dealer.
 Please refer to the 'label fitment guide' enclosed within this mailing for proper label placement.
- Additional labels have also been enclosed within this mailing are to be affixed to any future SDS machines that your dealer may acquire.

Star Diagnosis Label Fitment Guide For SBC Recall

