



SP Diagnostics

Innovators & Manufacturers of
Automotive Diagnostics

Tel: 0844 561 7861
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1417 – MERCEDES SENSORTRONIC BRAKE TOOL

Please read this information carefully before using your new MERCEDES SBC Tool

Thank you for purchasing your updateable MERCEDES SBC Tool. We at SP Diagnostics believe that you will have many years of successful business as a result of your investment and it is our aim to ensure that you will remain as up-to-date as possible. Please refer to these instructions when using the tool, if you experience any difficulties then please contact the technical help line on the number below:

TECHNICAL HELP LINE NO. 0844 561 7861

Please register your product with SP Diagnostics by completing the registration card that came with your product. (please remember to affix stamp before posting), you will also be able to register your product on-line by selecting the following link: www.spsupport.com
By registering your product you can take advantage of the following:

- SP Diagnostics product and technical updates via email
 - SP Diagnostics will keep you up to date with new products, special offers and technical information
- Notification of application updates for your new MERCEDES SBC Tool
 - Your new MERCEDES SBC Tool is now updateable. When updates are available notifications will be sent to all registered users and a posting will be made on the SP Diagnostics support website www.spsupport.com
 - Just post your product to SP Diagnostics Customer Services using the form at the back of these instructions for a low cost update.

Updating your MERCEDES SBC Tool

When you receive a notification of an update, please fill in the form attached and return your product together with a cheque for the update fee by recorded delivery using the address on the form.

We are always keen to hear back from customers regarding our products, and what you would like to see included. If you have any specific thoughts, please feel free to contact our Technical Support Help line on **0844 561 7861** and discuss them with the team. Also, don't forget to log in to the **SP Diagnostics Support Forum** where you can share experiences and ask questions to SP Diagnostics technical staff and other SP Diagnostics customers. Check the **SP Diagnostics Support** website www.spsupport.com for regular updates and product news.

Training

SP Diagnostics can provide access to several training courses. Please contact customer services on **0845 6016510** for details.

Features:

- Compatible with latest CAN vehicles
- Enable & Disable SBC systems for safe working practices
- Updateable (return to SP Diagnostics)
- Clear Errors from the SBC system after carrying out service and repairs

The new SBC tool has been created to allow our users to service and replace brake pads and components used in the SBC systems which have been fitted to a number of Mercedes vehicles (W211 and R230) since MY2003.

The SBC system incorporates various systems which have previously been separate, ABS, ASR, BAS, ESP and ETS. The SBC system can be “woken up” by opening a door, operating the central locking, depressing the brakes, turning on the ignition or operating the park brake. When this occurs the system runs pre-checks which include a pressurisation of the braking system. If the brakes are either being worked on or are dismantled when these pre-checks occur it can lead to personal injury or damage to parts of the caliper and pad assembly. The SBC tool allows you to disable the system during service and repair work, thus allowing a safe working environment for the user.

MERCEDES SBC Functions

SBC OFF – E Class & SL

With the SBC Tool the Sensortronic System can be De-activated allowing the brake pads to be removed safely for service. This also provides assistance in fitting new brake calipers and disks as well as replacing wheel hubs because the system is safely disabled.

SBC ON – E Class & SL

With the SBC Tool the Sensortronic System can be Re-activated, this then requires a “Clear Codes” operation to be carried out after re-activation in case any codes have been stored during service.

CLEAR CODES – E Class & SL

After servicing, the Sensortronic System can be left with logged errors which then requires a “Clear Codes” operation to be carried out, this will clear faults in the system prior to work as a pre-check before carrying out routine work on a potentially faulty system.



SBC Tool User Instructions



SBC Off Button: De-Activates the SBC System.



SBC On Button: Re-Activates the SBC System after service work is complete.



Clear Button: Clears codes in the SBC system.

Vehicle Set-Up

- i) Ensure vehicle ignition is turned off.
- ii) Using the application list and socket location diagrams below, connect the SBC tool to the identified diagnostic socket.
- iii) Turn on the vehicle ignition.

SBC De-Activate



1. Switch Ignition '**ON**'
2. Press '**SBC OFF**' button.
3. The '**SBC OFF**' light will illuminate whilst the system is being de-activated.

4. Once the process has finished the '**SBC OFF**' light will flash.

*"Wait until the '**SBC OFF**' light flashes before carrying out any work on the braking system!"*

The Brake Warning light will flash constantly on the dashboard info panel while the system is de-activated.

SBC Re-Activate



1. Switch Ignition '**ON**'
2. Press '**SBC ON**' button.
3. The '**SBC ON**' light will illuminate whilst the system is being re-activated.

4. Once the process has finished the '**SBC ON**' light will flash.

"This Process Can Take Up To 15 Minutes, Ensure The Vehicle Is Connected To A Charging Source!"

SBC Clear Codes



1. Switch Ignition '**ON**'
2. Press '**CLEAR**' button.
3. The '**CLEAR**' light will illuminate whilst the codes are being erased.
4. Once the process has finished the '**CLEAR**' light will flash.

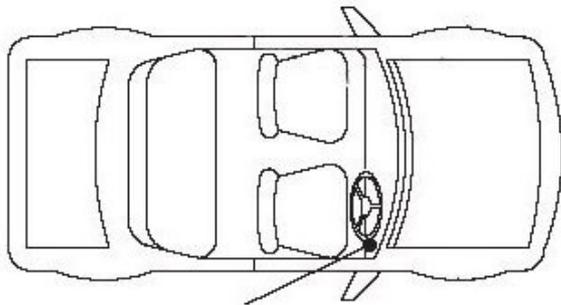
SBC Error Indication



1. If there is an error in communications with the SBC system then all three lights will flash.

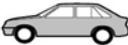
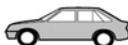
Diagnostic Connector locations

MERCEDES



E Class
SL Class

Application List

| | | | | | | |
|---|---|---|---|---|--|---|
|  |  |  |  |  |  |  |
| Mercedes - SBC | | | | | | |
| SL (230) | All supported | P/D | All | 03 - 06 | All supported | SBC |
| E-Class (211) | All supported | P/D | All | 03 - 06 | All supported | SBC |

Please return your Service Reset tool to:

SP Diagnostics
PO BOX 3467
Chippenham
Wiltshire
SN15 9FH

Please fill in the following details:

Product serial number

Customer Name: _____

Business Name: _____

Address: _____

Post Code: _____

Contact Number: _____

Email: _____

SP Diagnostics

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