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› [CGSULIT SC530 OBD2 Scanner User Manual for Mercedes-Benz, Sprinter, and Smart Vehicles](#)

CGSULIT SC530

CGSULIT SC530 OBD2 Scanner User Manual

For Mercedes-Benz, Sprinter, and Smart Vehicles

1. INTRODUCTION

The CGSULIT SC530 is a professional diagnostic scan tool designed for Mercedes-Benz, Sprinter, and Smart vehicles. It provides comprehensive system diagnostics, a wide range of special service functions, bidirectional control capabilities, and full OBD2 functionality for general vehicles. This manual provides instructions for setting up, operating, and maintaining your SC530 scanner.

2. WHAT'S IN THE BOX

What's in the Package?



Image: Contents of the CGSULIT SC530 package. This image displays the SC530 diagnostic tool, an OBD2 diagnostic cable, a USB cable, a product carrying case, and the user manual.

Upon opening the package, verify that all components are present:

- 1 x CGSULIT SC530 Diagnostic Tool
- 1 x OBD2 Diagnostic Cable
- 1 x Product Carrying Case
- 1 x USB Cable
- 1 x User Manual (this document)

3. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	SC530
Brand	CGSULIT
Item Weight	1.5 pounds
Product Dimensions	3 x 1 x 7 inches (7.62 x 2.54 x 17.78 cm)
Operating System (for updates)	Windows 7/8/10/11
Supported Vehicles	Mercedes-Benz, Maybach, Sprinter, Smart (expandable to 80+ car brands)
OBD2 Port Compatibility	16-pin OBD2 port only (does not support 38-pin OBD port)

4. SETUP AND INITIAL USE

4.1 Connecting the Device

The SC530 scanner is powered directly by your vehicle's OBD2 port. No external battery is required for operation.

1. Locate the 16-pin OBD2 diagnostic port in your vehicle. This port is typically found under the dashboard on the driver's side.
2. Ensure the vehicle's ignition is in the **OFF** position before connecting the scanner.
3. Connect the OBD2 diagnostic cable from the SC530 scanner to the vehicle's OBD2 port.
4. Turn the vehicle's ignition to the **ON** position (engine can be off or running, depending on the diagnostic task). The scanner will power on automatically.





Image: The CGSULIT SC530 OBD2 Scanner with its cable, ready for connection. The main menu is visible on the screen, showing options like OBDII, Mercedes, Smart, Sprinter, Settings, Data Manager, and Update.

4.2 Initial Setup and Software Updates

It is recommended to perform a software update upon first use to ensure you have the latest vehicle coverage and features.

1. Connect the SC530 scanner to a computer using the provided USB cable.
2. Visit the official CGSULIT website to download the update client software.
3. Install the update client on your Windows 7/8/10/11 computer.
4. Follow the on-screen instructions in the update client to register your device and download the latest software packages. The SC530 offers lifetime free updates.
5. For Mercedes-Benz, Sprinter, and Smart vehicles, the software is pre-installed. If you wish to add support for other car brands (80+ supported), you may need to contact customer service for authorization and purchase.



Image: The SC530 scanner displaying Auto VIN information and live data graphs, alongside icons for lifetime free updates and data recording/printing. This illustrates the device's capability to automatically identify vehicle information and visualize data, supported by continuous free software updates.

5. OPERATING THE SC530 SCANNER

5.1 Navigation

The SC530 features a menu-driven interface. Use the directional arrow keys (**Up, Down, Left, Right**) to navigate through menus and options. Press the **Y** (Yes) button to confirm selections and the **N** (No) button to go back or cancel.

5.2 Full OBD2 10 Mode Functions (for All OBD2 Vehicles)

The SC530 provides standard OBD2 functions compatible with all OBD2-compliant vehicles (typically 1996 and newer). Access these functions via the "OBDII" option on the main menu.

- **Read Codes:** Retrieves Diagnostic Trouble Codes (DTCs) from the vehicle's computer.
- **Erase Codes:** Clears DTCs and turns off the Check Engine Light (MIL).
- **Live Data:** Displays real-time data streams from various sensors in text or graphical format.
- **Freeze Frame:** Shows a snapshot of vehicle operating conditions at the time a fault code was set.
- **I/M Readiness:** Checks the status of emission-related monitors to determine if the vehicle is ready for an inspection/maintenance test.
- **O2 Sensor Test:** Retrieves O2 sensor monitor test results.
- **On-Board Monitor Test:** Retrieves results for emission-related powertrain components and systems that are not continuously monitored.
- **EVAP Test:** Initiates a test of the Evaporative Emission Control System.
- **Vehicle Information:** Retrieves vehicle identification number (VIN), calibration ID (CALID), and calibration verification number (CVN).
- **DTC Lookup:** Provides definitions for generic and manufacturer-specific diagnostic trouble codes.

Full OBD2 10 Mode Functions

Fit for All Cars After 1996



Image: The SC530 scanner displaying Auto VIN information and live data graphs, alongside icons for lifetime free updates and data recording/printing. This illustrates the device's capability to automatically identify vehicle information and visualize data, supported by continuous free software updates.

5.3 All System Diagnostics (for Mercedes-Benz/Sprinter/Smart)

For Mercedes-Benz, Sprinter, and Smart vehicles, the SC530 can access all available control units to read and clear codes, view live data, and perform advanced diagnostics.

- **Engine System:** Detects issues like poor lubrication, oil pump failures, insufficient fuel/air compression, coolant leaks, etc.
- **ABS (Anti-lock Braking System):** Diagnoses sensor failures, low brake fluid, and other ABS-related issues.
- **SRS (Supplemental Restraint System/Airbag):** Identifies fault areas such as damaged seat belts or crash sensors.
- **Transmission System:** Addresses issues like slipping gears, burning smells, or low transmission fluid.
- **TPMS (Tire Pressure Monitoring System):** Verifies low tire pressure, module failures, or sensor recognition issues.
- **Other Systems:** Includes Air Conditioning, Active Suspension, Audio Gateway, Electrical Power Steering, Auto Pilot

System, Automatic Clutch System, and more.



Image: A visual representation of a car with various systems highlighted, indicating the SC530's capability to perform diagnostics on all major vehicle systems, including Engine, ABS, SRS, Transmission, TPMS, and more.

5.4 30+ Maintenance & Reset Services

The SC530 offers numerous special functions to assist with vehicle maintenance and repairs. The availability of specific functions may vary by vehicle model, chassis, and year.

- **ABS Bleeding:** Bleeds air from the ABS module to restore brake sensitivity after component replacement.
- **BMS Reset (Battery Registration):** Registers a new battery with the vehicle's system.
- **Camshaft & Crankshaft Position Relearn:** Performs relearn procedures after replacing camshaft or crankshaft position sensors.
- **Diesel Particulate Filter (DPF) Regeneration/Reset:** Initiates DPF regeneration to clear blockages and improve engine power and fuel efficiency.
- **Injector Coding:** Confirms or recodes injector codes for each cylinder after injector replacement to optimize fuel injection.

- **SAS (Steering Angle Sensor) Calibration:** Resets steering angle sensor memories.
- **Airbag (SRS) Reset:** Checks sensors and resets the airbag system to ensure normal function.
- **Oil Light Reset:** Resets maintenance mileage and date intervals for engine oil life calculation.
- **EPB (Electronic Parking Brake) Reset:** Deactivates/activates brakes, assists with fluid control, and sets brakes after disc/pad replacement.
- **Other Functions:** Includes TPS Adaptation, TPMS Reset, Change Tire Size, EVAP Test, Clutch Adaptation, Turbo, Transmission Learn, and more.

30+ Maintenance Functions

Fit for Mercedes Benz/Maybach/Sprinter/Smart

SC530 :

Other :

Special Functions:
0
15
30

 Crankshaft Relearn	 Suspension Calibration	 Oil Reset
 D-P-F Regeneration	 Injector Coding	 SAS Calibration
 EPB	 T-P-S Reset	 Headlamp
 TPMS	 A/C Reset	 Seat Recalibration
 Transmission Adaptation	 Odometer	 More...



ABS Bleeding (Bleed air to restore ABS brake sensitivity)



Airbag Reset (Reset airbag data & clear airbag light)



Battery Registration (Used in a new battery registration)

Image: An infographic illustrating various maintenance functions available on the SC530, such as Crankshaft Relearn, Suspension Calibration, Oil Reset, ABS Bleeding, DPF Regeneration, Injector Coding, SAS Calibration, EPB, TPS Reset, Headlamp, TPMS, A/C Reset, Seat Recalibration, Transmission Adaptation, Odometer, Airbag Reset, and Battery Registration.

5.5 Bidirectional Control / Active Test

The bidirectional control feature, also known as Active Test, allows the SC530 to send commands to vehicle components and modules to test their functionality. This helps in quickly identifying faulty parts.

- **Fuel Pump Test:** Activates the fuel pump to check its operation.
- **Cooling Fan Test:** Commands the cooling fan to turn on/off.
- **Throttle Modulation:** Modulates the throttle position.
- **Window/Mirror Operation:** Controls windows and mirrors.
- **Loudspeaker Test:** Activates the vehicle's loudspeaker.
- **Bulb Test:** Tests various vehicle lights.
- And many more component-specific tests.



- | | | |
|------------------------------|---------------------------|---------------------------------|
| 1. Fuel Pump Test | 6. Door Lock Test | 11. Backrest Angle Adjustment |
| 2. Activation Radiator Fan | 7. Wiper Test | 12. Radiator Shutter Activation |
| 3. A/C Compressor Activation | 8. Turn On/Off the Lights | 13. Horn Activation |
| 4. Lower/Raise Windows | 9. Idle Speed Increase | 14. More ... |
| 5. Operate Mirrors | 10. Loudspeaker Test | |

Image: A visual representation of the bidirectional/active test function, showing the SC530 sending a "Command" to the vehicle and receiving a "Receive" response. Examples of tests include Fuel Pump Test, Activation Radiator Fan, A/C Compressor Activation, Lower/Raise Windows, Operate Mirrors, Door Lock Test, Wiper Test, Turn On/Off the Lights, Idle Speed Increase, Loudspeaker Test, Backrest Angle Adjustment, Radiator Shutter Activation, and Horn Activation.

5.6 Auto VIN and Live Data Graphing

The SC530 supports automatic VIN identification, allowing for quick vehicle recognition. It also provides advanced live data graphing capabilities.

- **Auto VIN:** Automatically identifies vehicle information (Make, Model, Year, VIN) with a single click.
- **Live Data Graphing:** Displays real-time sensor data in text, single graph, multiple graphs, or combined graph formats for easier analysis. Examples include transmission temperature, engine RPM, battery voltage, and short-term fuel trim.

6. MAINTENANCE

To ensure the longevity and optimal performance of your CGSULIT SC530 scanner:

- Keep the device clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Store the scanner in its carrying case when not in use to protect it from physical damage.
- Avoid exposing the device to extreme temperatures or direct sunlight for extended periods.
- Regularly update the software to benefit from the latest features, vehicle coverage, and bug fixes.

7. TROUBLESHOOTING

If you encounter issues with your SC530 scanner, refer to the following common problems and solutions:

- **Device does not power on:**
 - Ensure the OBD2 cable is securely connected to both the scanner and the vehicle's OBD2 port.
 - Verify the vehicle's ignition is in the ON position.
 - Check the vehicle's fuse for the OBD2 port (consult your vehicle's owner's manual).
- **"The vehicle program is not authorized" message:**
 - This message typically appears if you are trying to diagnose a vehicle brand for which the software is not installed or authorized on your SC530.
 - The SC530 comes with pre-installed software for Mercedes-Benz, Sprinter, and Smart. If you need to diagnose other brands, you must purchase and authorize the additional software. Contact CGSULIT customer service for assistance.
 - Ensure the software for your specific vehicle make is up to date.
- **Unable to connect to vehicle:**
 - Confirm the vehicle is OBD2 compliant (generally 1996 and newer).
 - Ensure the vehicle's ignition is ON.
 - Check for any damage to the OBD2 cable or connector.
- **Slow operation:**
 - Some diagnostic processes, especially full system scans or complex special functions, may take time. This is normal.
 - Ensure the device software is up to date.

For further assistance, please contact CGSULIT technical support.

8. WARRANTY AND SUPPORT

The CGSULIT SC530 OBD2 Scanner comes with a **2-year warranty** from the date of purchase, covering manufacturing defects. Additionally, CGSULIT provides **lifetime free software updates** to ensure your device remains current with the

latest vehicle models and diagnostic capabilities.

For technical support, warranty claims, or inquiries regarding additional vehicle brand software authorization, please visit the official CGSULIT website or contact their customer service directly. They offer 24/7 technical support.

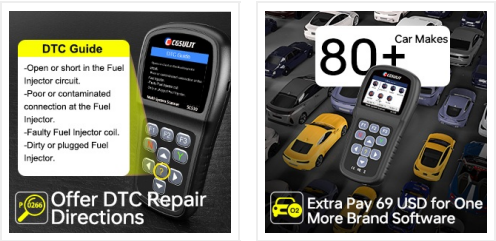




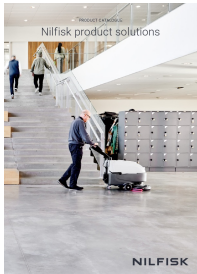


Image: Icons indicating 24/7 technical support and a 2-year warranty, highlighting the comprehensive support and coverage provided for the product.



Related Documents - SC530

	<p>CGSULIT SC301 OBDII/EOBD Code Reader User Guide</p> <p>User guide for the CGSULIT SC301 OBDII/EOBD Code Reader, detailing its features, operation, and troubleshooting.</p>
	<p>CGSULIT SC301 OBDII & EOBD Code Reader User Manual</p> <p>Comprehensive user manual for the CGSULIT SC301, a CAN OBDII & EOBD code reader. Learn about its features, operation, diagnostic functions, safety precautions, and technical specifications.</p>
	<p>CGSULIT SC204 OBDII/EOBD Code Reader User's Guide</p> <p>This user's guide provides comprehensive instructions for operating the CGSULIT SC204 OBDII/EOBD Code Reader. Learn about its features, setup, diagnostic operations, system setup, and update assistance.</p>
	<p>Nilfisk SC530 Use & Maintenance Guide</p> <p>A concise guide to the use and maintenance of the Nilfisk SC530 scrubber dryer, covering setup, operation, cleaning, and troubleshooting.</p>



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Documents - CGSULIT – SC530



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CGSULIT SC530 User Manual 2022 01 05 — The information specifications and illustrations in this manual are based on NO F1 Yes F3 VIN WVGAC65B5CD305551 Read VIN OBDII cgsulit Download Full system diagnosis for specific brand here s the USB Port provides power connection between scanner PC laptop Display Backlit 240*320 TFT color display Working Temperature 0 to 60 °C 32 140°F Storage 20 70°C 4 158°F Power Supply 8 18V vehicle 5V Dimensions L*W*H 188*93*32mm Weight 3 Kg Main menu OBDII overview aLoneSideline My is CGSulit |||

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