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ChipPower GS2

ChipPower GS2 Tuning Box Instruction Manual

For Mercedes-Benz CLK 280/350 C209/A209 (2002-2010)

1. Product Overview

The ChipPower GS2 Tuning Box is an advanced performance module designed to optimize your vehicle's engine. It is specifically engineered for Mercedes-Benz CLK 280/350 C209/A209 models manufactured between 2002 and 2010.

Key Features and Benefits:

- **Increased Power and Torque:** Boosts engine power and torque by up to 15%.
- **Improved Fuel Economy:** Contributes to better fuel efficiency.
- **Eliminates Turbo Lag:** Enhances acceleration response by reducing turbo lag.
- **Wide Compatibility:** Compatible with Diesel Particulate Filters (DPF) and Gasoline Particulate Filters (GPF).
- **Ignition System Compatibility:** Works seamlessly with both key and keyless ignition systems.
- **Transmission Compatibility:** Suitable for all types of transmissions.
- **Engine Protection:** Features an integrated engine protection function.



Image: The ChipPower GS2 module highlighting its core benefits: more power and torque, fuel saving, and elimination of turbo lag.

2. Package Contents

Upon opening your ChipPower GS2 Tuning Box package, you should find the following items:

- 1 x ChipPower GS2 Tuning Box Module
- 1 x Vehicle-Specific Wiring Harness
- 1 x Instruction Manual
- Several Zip Ties for secure installation



Image: The complete ChipPower GS2 kit, including the tuning module, wiring harness, instruction manual, and zip ties.

3. Setup and Installation

The ChipPower GS2 Tuning Box features a 'Plug & Drive' design, allowing for quick and straightforward installation, typically completed within 5 to 10 minutes. No specialized tools are generally required.

Important Safety Precautions:

- Ensure your vehicle's engine is completely off and the ignition is switched off before beginning installation.
- Allow the engine to cool down if it has been recently running.
- Avoid touching hot engine components.

Installation Steps:

1. **Locate the Sensor:** Identify the appropriate sensor in your engine bay. The GS2 module connects to either the IAT (Intake Air Temperature), MAP (Manifold Absolute Pressure), or MAF (Mass Air Flow) sensor. Refer to your vehicle's specific engine layout or the detailed instructions provided in the box for precise sensor location.
2. **Disconnect Original Connector:** Carefully disconnect the original wiring harness connector from the identified sensor.
3. **Connect GS2 Harness:** Connect the ChipPower GS2 wiring harness in-line. One end of the GS2 harness connects to the vehicle's original sensor, and the other end connects to the original wiring harness that you just disconnected. Ensure both connections click securely into place.
4. **Mount the Module:** Find a suitable, secure location in the engine bay to mount the GS2 module. Ensure it is away from moving parts, excessive heat sources, and areas prone to water accumulation. Use the provided zip ties to firmly secure the module and excess wiring.
5. **Final Check:** Double-check all connections to ensure they are tight and secure. Verify that no wires are pinched

or interfering with other engine components.

6. **Start Engine:** Start your vehicle's engine. Observe the dashboard for any warning lights. If no warning lights appear, the installation is successful.



Image: Step-by-step visual guide on how to connect the ChipPower GS2 wiring harness securely.

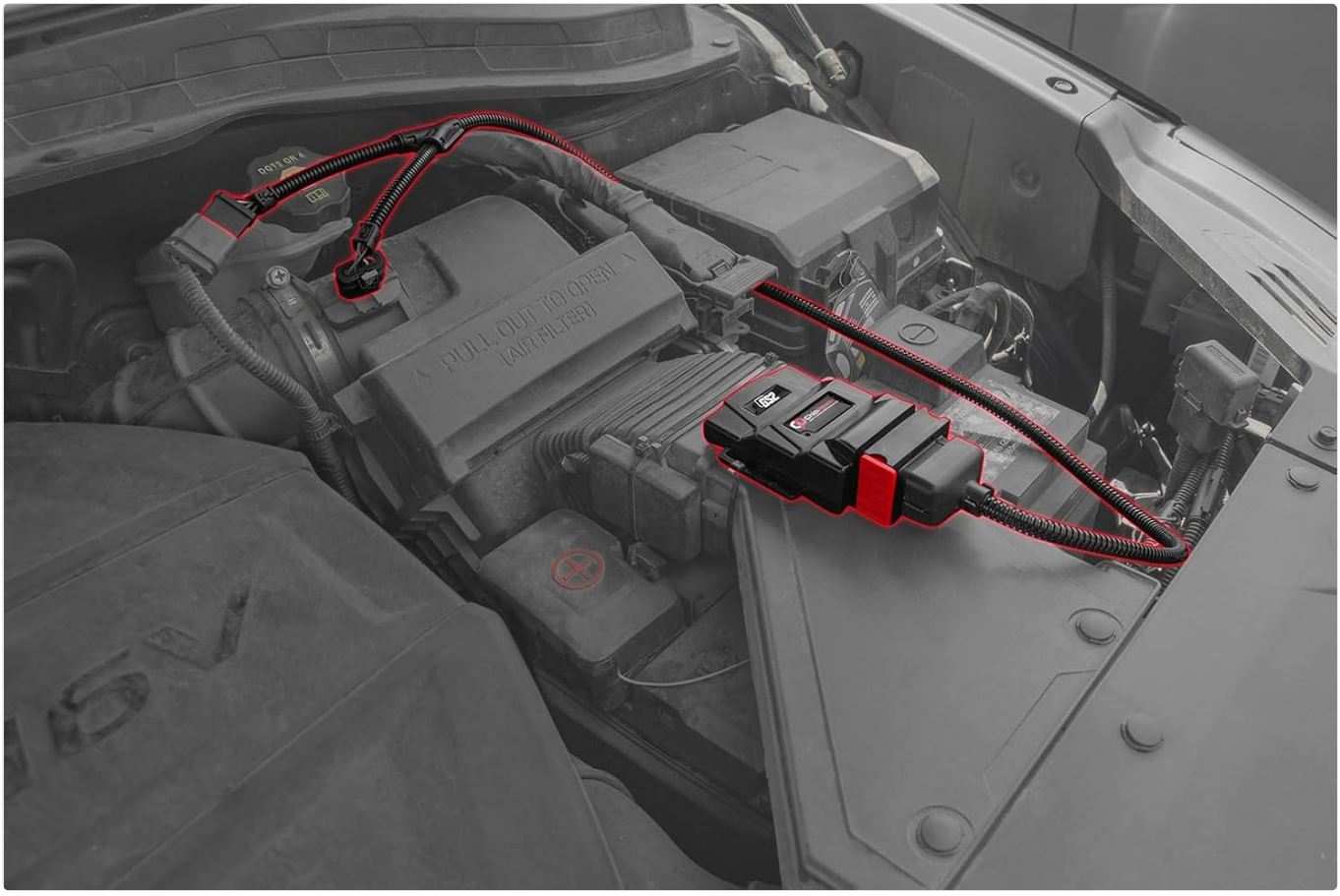


Image: An example of the ChipPower GS2 module installed within a car's engine bay, demonstrating typical cable routing.

Sensor Identification Examples:



Image: Example of a MAP (Manifold Absolute Pressure) sensor.



Image: Example of a MAF (Mass Air Flow) sensor.



Image: Diagram illustrating how the ChipPower GS2 connects to IAT, MAP, or MAF sensors.

4. Operation

Once correctly installed, the ChipPower GS2 Tuning Box operates automatically. It continuously optimizes your engine's performance parameters based on real-time data, ensuring enhanced power, torque, and fuel efficiency without requiring any further user input.
The module is designed to work seamlessly with your vehicle's existing systems, providing a consistent and reliable performance upgrade.

5. Maintenance

The ChipPower GS2 Tuning Box is designed for maintenance-free operation. However, periodic checks are recommended to ensure optimal performance and longevity:

- **Connection Check:** Every few months, visually inspect all connections of the GS2 module and its wiring harness to ensure they remain secure and free from corrosion.
- **Cleanliness:** Keep the module and its immediate surroundings clean and free from excessive dirt, dust, or moisture. Use a dry cloth for cleaning.
- **Environmental Factors:** Ensure the module is not exposed to extreme temperatures or direct water spray.

6. Troubleshooting

If you encounter any issues after installing the ChipPower GS2 Tuning Box, please follow these troubleshooting steps:

- **Check Connections:** The most common cause of issues is loose or incorrect connections. Re-verify that all connectors are fully seated and locked into place, both at the sensor and on the GS2 module.
- **Module Placement:** Ensure the module and its wiring are not pinched, stretched, or in contact with hot or moving engine parts.
- **Warning Lights:** If a check engine light or other warning indicator appears on your dashboard, first re-check all connections. If the light persists, remove the ChipPower GS2 module and reconnect the original sensor wiring. This will revert your vehicle to its factory settings. If the warning light disappears after removing the module, contact ChipPower customer support for further assistance.
- **Performance Issues:** If you do not experience the expected performance improvements, ensure the module is correctly installed and consider contacting support.



Image: The ChipPower GS2 module may have adjustable settings. Consult your specific manual or support for details on adjustment.

7. Specifications

Attribute	Specification
Model	GS2
Manufacturer	ChipPower

Compatibility	Mercedes-Benz CLK 280/350 C209/A209 (2002-2010)
Installation Time	Approx. 5-10 minutes
Connection Type	Plug & Drive (IAT, MAP, or MAF sensor)
Engine Protection	Yes
DPF/GPF Compatible	Yes
Ignition System Compatible	Key and Keyless
Transmission Compatible	All types



Image: Detailed dimensions of the ChipPower GS2 module and its wiring harness. Module dimensions are approximately 110mm (length) x 90mm (width) x 37mm (depth), with a cable length of 1000mm.

8. Warranty and Returns

ChipPower stands behind the quality and performance of the GS2 Tuning Box.

- **Engine Protection:** The GS2 module is designed with an engine protection function to safeguard your vehicle's engine.
- **Vehicle Warranty:** Installation of the ChipPower GS2 module is designed not to void your vehicle's manufacturer warranty.
- **Reversible Installation:** The device can be easily removed, returning your vehicle to its original factory settings

without leaving any trace.

- **Return Policy:** A 30-day return policy is available for your peace of mind.

9. Support

For any technical assistance, installation queries, or support needs, please do not hesitate to contact ChipPower customer service. Our team is ready to assist you.

Information to Provide for Support:

To help us provide the most efficient and accurate support, please have the following information ready when you contact us:

- Your Vehicle's Make and Model (e.g., Mercedes-Benz CLK 280 C209)
- Original Factory Engine Power (e.g., 231 HP)
- Year of Vehicle Manufacture (e.g., 2005)

This information will enable us to quickly identify your specific vehicle configuration and provide tailored assistance.

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