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› [ChipPower GS2 Performance Chip Tuning Box for MINI R56 Cooper/S \(2006-2016\) - Plug & Drive Fuel Management Module User Manual](#)

ChipPower GS2

ChipPower GS2 Performance Chip Tuning Box User Manual

MODEL: GS2

Brand: ChipPower

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ChipPower GS2 Performance Chip Tuning Box. This device is designed to optimize engine performance for specific vehicle models, offering increased power, torque, and improved fuel efficiency. Please read this manual carefully before installation and use to ensure proper function and safety.

The ChipPower GS2 is compatible with MINI R56 Cooper/S models manufactured between 2006 and 2016. It is designed for gasoline engines and is compatible with Diesel Particulate Filters (DPF) and Gasoline Particulate Filters (GPF), as well as all types of transmissions and start/stop systems.

2. PACKAGE CONTENTS

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

- ChipPower GS2 Tuning Box Module
- Vehicle-specific connection cable with original plugs
- Cable ties for secure installation
- User Manual (this document)



Figure 1: Contents of the ChipPower GS2 package. This image displays the retail box, the GS2 tuning module, the specialized connection cable, several cable ties, and a stack of instruction leaflets.

3. SETUP AND INSTALLATION

The ChipPower GS2 module features a 'Plug & Drive' design, allowing for quick and straightforward installation, typically within 5 to 10 minutes. No specialized tools are required beyond basic hand tools for accessing engine components if necessary.

3.1 Pre-Installation Checks

- Ensure the vehicle's engine is turned off and cool.
- Locate the relevant sensor in your engine bay. For the MINI R56 Cooper/S, this is typically the MAP or MAF sensor. Refer to your vehicle's service manual if unsure.
- Familiarize yourself with the ChipPower GS2 module and its connectors.



Figure 2: The ChipPower GS2 module and its dedicated wiring harness. The image shows the compact black module with the 'GS2' logo and the 'ChipPower Best Tuning Performance' branding, connected to a specialized cable with vehicle-specific connectors.

3.2 Installation Steps

1. **Disconnect the Sensor:** Carefully disconnect the original wiring harness from the vehicle's MAP or MAF sensor.
2. **Connect the ChipPower Harness:** Connect one end of the ChipPower GS2 wiring harness to the vehicle's sensor. Ensure a secure, audible 'click' if applicable.
3. **Connect to Vehicle Wiring:** Connect the other end of the ChipPower GS2 wiring harness to the vehicle's original wiring that was previously disconnected from the sensor. Again, ensure a secure connection.
4. **Connect to GS2 Module:** Connect the main connector of the ChipPower GS2 wiring harness to the GS2 tuning module.



Figure 3: Connecting the GS2 module to the wiring harness. This image illustrates the process of securely attaching the module to its dedicated cable, highlighting the red locking mechanism.



Figure 4: Connecting the ChipPower harness to the vehicle's sensor. The image shows the specialized connector being plugged into a sensor, demonstrating the 'Plug & Drive' installation method.

5. **Secure the Module and Cables:** Use the provided cable ties to secure the GS2 module and all cables away from moving parts, heat sources, and sharp edges in the engine bay. Ensure the module is mounted in a stable position.

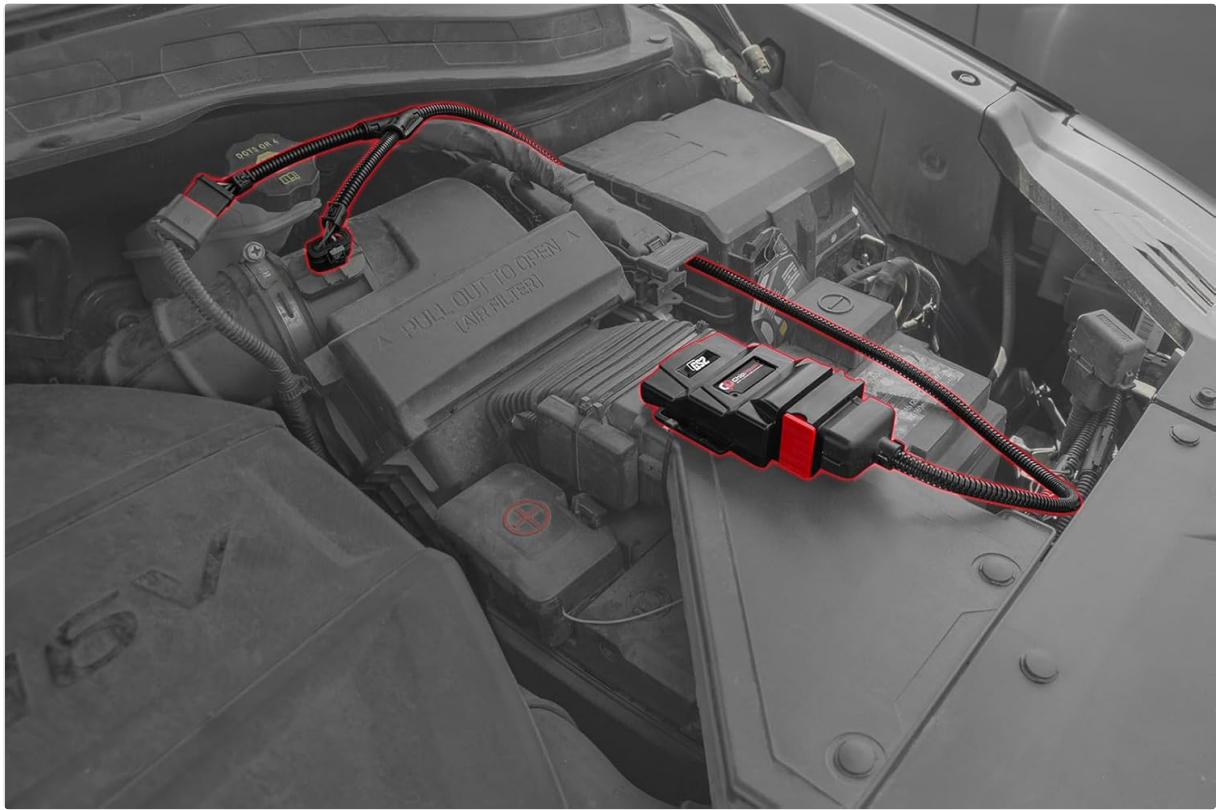


Figure 5: Example of the GS2 module installed in an engine bay. The image shows the module and its wiring neatly routed and secured within the engine compartment, indicating a typical installation location.

3.3 Initial Start-up

After installation, start your vehicle. The GS2 module will automatically begin to optimize engine parameters. Allow the engine to idle for a few minutes before driving. The module adapts to your driving style over time.

4. OPERATING THE GS2 MODULE

The ChipPower GS2 operates automatically once installed. It continuously analyzes engine data and adjusts fuel injection, ignition timing, and boost pressure (if applicable) to achieve optimal performance. The module is designed to increase engine power and torque by up to 15%, reduce turbo lag, and potentially improve fuel economy.



Figure 6: Key features of the ChipPower GS2 module. Icons around the module represent benefits such as increased power and torque, elimination of turbo lag, easy installation, and fuel saving.

4.1 Performance Adjustment (Optional)

The GS2 module may feature an adjustment screw for fine-tuning performance. This allows for minor adjustments to the power output. It is recommended to use the default setting initially and only adjust if you have specific performance requirements.

- To adjust, locate the small screw on the side of the module.
- Use a small screwdriver to turn the screw. Turning clockwise generally increases performance, while counter-clockwise decreases it.
- Make small adjustments and test the vehicle's performance before making further changes.



Figure 7: Adjustment screw for fine-tuning the GS2 module. This close-up shows the small screw on the module's casing, indicating the direction for increasing (+) or decreasing (-) performance settings.

5. MAINTENANCE

The ChipPower GS2 module is designed for maintenance-free operation. However, periodic checks are recommended:

- **Connection Check:** Periodically inspect all connections to ensure they remain secure and free from corrosion.
- **Module Placement:** Ensure the module remains securely fastened and is not exposed to excessive heat, moisture, or physical damage.
- **Cleaning:** If necessary, gently wipe the module with a dry, soft cloth. Do not use harsh chemicals or abrasive cleaners.

If the module needs to be removed (e.g., for vehicle servicing or sale), simply reverse the installation steps. Upon removal, the vehicle's engine control unit (ECU) will revert to its factory settings without leaving any trace of the module's use.

6. TROUBLESHOOTING

If you experience any issues after installing the ChipPower GS2 module, please follow these troubleshooting steps:

- **Check Connections:** Ensure all connectors are securely plugged in. A loose connection is a common cause of issues.
- **Verify Compatibility:** Double-check that the GS2 module is the correct model for your specific MINI R56 Cooper/S (2006-2016).

- **Revert to Stock:** Disconnect the GS2 module and reconnect your vehicle's original sensor wiring. If the issue resolves, it indicates a problem with the module or its installation.
- **Contact Support:** If problems persist, please contact ChipPower customer service for assistance. Provide your vehicle's make, model, year, and engine power (HP/kW) to help us provide accurate support.

7. SPECIFICATIONS

Feature	Detail
Model Number	GS2
Manufacturer	ChipPower
Compatibility	MINI R56 Cooper/S (2006-2016)
Engine Type	Gasoline
Performance Increase	Up to 15% power and torque
Installation Time	5-10 minutes (Plug & Drive)
Safety Certifications	CE, UKCA, RoHS
Engine Protection	Integrated engine protection function
Reversibility	Vehicle reverts to factory settings upon removal



Figure 8: Physical dimensions of the GS2 module and its cable. The image provides measurements in millimeters for the module's length, width, and height, as well as the total length of the connection cable.

8. WARRANTY AND SUPPORT

ChipPower products are manufactured to high standards and include an engine protection function to safeguard your vehicle. The installation of this device does not void your vehicle's warranty, and the car returns to factory settings upon removal.

As a European manufacturer, ChipPower is committed to providing quality products and customer support. If you have any questions regarding installation, operation, or troubleshooting, please do not hesitate to contact our customer service team. Support is included with your purchase.