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ChipPower GS2

ChipPower Performance Tuning Box GS2 Instruction Manual

For Ford S-Max Mk1 I 2.0 EcoBoost Gasoline Engines

1. Introduction



Figure 1.1: The ChipPower Performance Tuning Box GS2 module.

This manual provides detailed instructions for the installation, operation, and maintenance of your ChipPower Performance Tuning Box GS2. This device is designed to optimize engine performance for compatible vehicles, specifically the Ford S-Max Mk1 I 2.0 EcoBoost gasoline engine models (146/149/176 kW, 199/203/240 HP). Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Always prioritize safety when working on your vehicle. Improper installation or use of this device can lead to vehicle damage or personal injury. If you are unsure about any step, consult a qualified mechanic.

- Ensure the vehicle's engine is off and cool before beginning installation.
- Disconnect the vehicle's battery before installation to prevent electrical shorts.

- Wear appropriate personal protective equipment, such as gloves and eye protection.
- Keep all tools and components away from moving engine parts once the engine is running.
- Do not modify the tuning box or its wiring.
- Ensure all connections are secure and properly insulated.

3. Package Contents

Verify that all items listed below are present in your package:

- ChipPower Performance Tuning Box GS2
- Dedicated connection cable with vehicle-specific connectors
- Zip ties for securing wiring
- Instruction manual (PDF version may be included or linked)



Figure 3.1: Contents of the ChipPower GS2 tuning box package, including the tuning module, wiring harness, zip ties, and documentation.

4. Setup and Installation

The ChipPower GS2 tuning box is designed for a Plug&Drive installation. Follow these steps carefully:

1. **Prepare the Vehicle:** Ensure the engine is off and cool. Disconnect the negative terminal of the vehicle's battery.
2. **Locate the Sensor:** Identify the correct sensor in your engine bay. The ChipPower GS2 connects to either the MAP (Manifold Absolute Pressure) or MAF (Mass Air Flow) sensor, or sometimes the IAT (Intake Air Temperature) sensor, depending on your specific vehicle configuration. Refer to your vehicle's service manual if unsure.



Figure 4.1: Examples of a MAP sensor (left) and a MAF sensor (right).

3. **Disconnect the Sensor:** Carefully disconnect the original wiring harness from the chosen sensor.
4. **Connect the Tuning Box Cable:** Connect the ChipPower GS2's dedicated cable between the vehicle's original sensor and the disconnected wiring harness. The cable is designed with specific connectors to ensure correct orientation. Ensure a secure "click" sound for proper connection.



Figure 4.2: Connection diagram illustrating how the tuning box cable integrates with the vehicle's sensor and wiring harness.



Figure 4.3: Detailed view of the secure connection process for the tuning box cable.

5. **Mount the Tuning Box:** Find a suitable, secure location in the engine bay away from excessive heat, moisture, and moving parts. Use the provided zip ties to firmly secure the tuning box and its wiring.

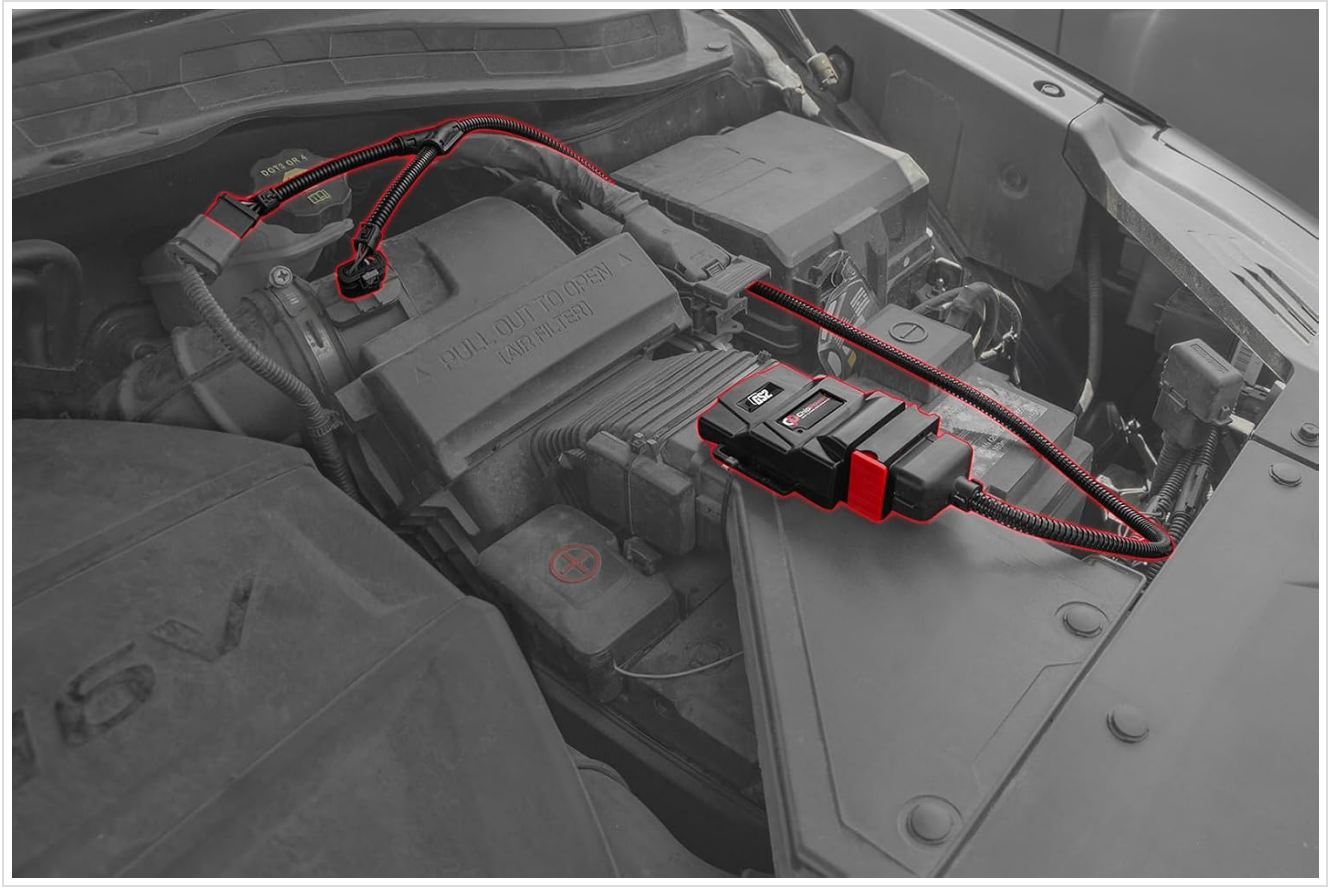


Figure 4.4: Example of the ChipPower GS2 tuning box securely installed within a vehicle's engine compartment.

6. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
7. **Initial Start-up:** Start the engine and check for any warning lights or unusual behavior. Allow the engine to idle for a few minutes.

5. Operation

The ChipPower GS2 tuning box is designed to operate automatically once installed. It optimizes engine parameters to enhance performance. Some models may feature an adjustment screw for fine-tuning.

5.1 Adjusting Performance Settings (If Applicable)

If your GS2 model includes an adjustment screw, it allows for minor modifications to the performance level. This screw is typically located on the side of the tuning box.

- **Clockwise Rotation:** Increases performance.
- **Counter-clockwise Rotation:** Decreases performance.

Make small adjustments and test the vehicle's response. Avoid extreme settings without understanding their potential impact. Always ensure the engine is off before making adjustments.



Figure 5.1: Location of the adjustment screw on the ChipPower GS2 module for fine-tuning performance.

6. Maintenance

The ChipPower GS2 tuning box requires minimal maintenance. Follow these guidelines to ensure its longevity:

- Periodically check all connections to ensure they remain secure.
- Keep the tuning box clean and free from excessive dirt, dust, and moisture. Wipe with a dry cloth if necessary.
- Ensure the mounting location remains stable and the box is not exposed to extreme vibrations or impacts.

7. Troubleshooting

If you encounter issues after installing the ChipPower GS2, consider the following:

- **Engine Warning Light:** If an engine warning light appears, immediately stop the vehicle in a safe location. Disconnect the tuning box and reconnect the original sensor wiring. If the light persists, consult a mechanic.
- **No Perceptible Performance Change:**
  - Check all connections to ensure they are fully seated and secure.
  - Verify that the tuning box is correctly connected to the appropriate sensor (MAP/MAF/IAT).
  - If your model has an adjustment screw, ensure it is set to a desired performance level.
- **Rough Idling or Hesitation:**
  - Ensure all connections are secure.
  - If your model has an adjustment screw, try reducing the performance setting.
  - Disconnect the tuning box and revert to stock configuration to see if the issue resolves.

For further assistance, contact ChipPower customer support.

8. Specifications

Brand	ChipPower
Model Name	GS2
Model Number	220102257
Compatibility	Ford S-Max Mk1 I 2.0 EcoBoost (146/149/176 kW, 199/203/240 HP) Gasoline
Dimensions (Tuning Box)	Approx. 110 mm (L) x 90 mm (W) x 37 mm (H)
Cable Length	Approx. 1000 mm
Power Supply	12V (Vehicle Battery)
Installation Type	Plug&Drive (MAP/MAF/IAT Sensor connection)



Figure 8.1: Dimensional overview of the ChipPower GS2 tuning module and its connecting cable.

9. Warranty and Support

ChipPower products are designed with engine protection functions to ensure safety. For specific warranty details, please refer to the documentation included with your product or visit the official ChipPower website. For technical support, installation assistance, or troubleshooting, please contact ChipPower customer service directly.
You can find more information and support resources on the ChipPower Store on Amazon or through their official channels.



Figure 9.1: ChipPower brand logo, representing the manufacturer.

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