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ChipPower GS2

ChipPower GS2 Performance Chip Tuning Box for Toyota Yaris Mk2 II XP90 1.0 (2005-2011) Instruction Manual

1. Introduction

This instruction manual provides comprehensive guidance for the installation, operation, and maintenance of your ChipPower GS2 Performance Chip Tuning Box. This device is designed to optimize your vehicle's engine performance, offering increased power and torque, improved fuel economy, and reduced turbo lag.

The ChipPower GS2 is compatible with:

- **Vehicle:** Toyota Yaris Mk2 II XP90 1.0
- **Model Years:** 2005, 2006, 2007, 2008, 2009, 2010, 2011
- **Engine Type:** Gasoline
- **Compatibility:** Works with Diesel Particulate Filters (DPF) and Gasoline Particulate Filters (GPF). Suitable for all types of gearboxes and vehicles with or without keyless start systems.



Figure 1: ChipPower GS2 Performance Chip Tuning Box with connecting cable.

2. Package Contents

Please verify that all the following items are included in your package:

- ChipPower GS2 Performance Chip Tuning Box
- Vehicle-specific connection cable
- Instruction Manual (this document)
- Cable ties for secure installation



Figure 2: Contents of the ChipPower GS2 package, including the tuning box, cable, instructions, and cable ties.

3. Safety Information

Read and understand all safety instructions before installing or operating the ChipPower GS2 Tuning Box.

- The ChipPower GS2 features an integrated engine protection function to ensure safe operation.
- Proper installation is crucial. If you are unsure about any step, consult a qualified mechanic.
- Always ensure the vehicle's ignition is off and the key is removed (or smart key is out of range) before connecting or disconnecting the device.
- Upon removal, the vehicle's engine control unit (ECU) will revert to its factory settings.
- Ensure all connections are secure and free from moisture or debris.

4. Setup and Installation

The ChipPower GS2 is designed for quick and easy Plug & Drive installation, typically taking 5 to 10 minutes. The provided cable is specifically adapted for your vehicle model.

4.1 Before Installation

- Ensure your vehicle's engine is cool.
- Turn off the ignition and remove the key. For keyless systems, ensure the smart key is out of the vehicle's detection range.
- Locate the relevant sensor in your engine bay. For the Toyota Yaris Mk2 II XP90 1.0, this typically involves connecting to the MAP (Manifold Absolute Pressure) or MAF (Mass Air Flow) sensor. Refer to the specific installation instructions provided with your product or contact support with your vehicle details (make, model, engine power) for precise guidance.

4.2 Installation Steps

1. **Locate the Sensor:** Identify the MAP or MAF sensor in your engine bay. (See Figure 3 for examples of sensor types and Figure 4 for a general installation diagram).
2. **Disconnect Original Connector:** Carefully disconnect the original connector from the sensor.
3. **Connect ChipPower Cable:** Connect the vehicle-specific ChipPower cable (Figure 5) between the sensor and the original vehicle connector. Ensure both ends click securely into place (Figure 6).
4. **Connect to GS2 Box:** Connect the other end of the ChipPower cable to the GS2 tuning box (Figure 7). Ensure a firm connection.
5. **Secure the Box and Cables:** Mount the GS2 tuning box in a secure location away from excessive heat, moisture, and moving parts. Use the provided cable ties to neatly secure all cables, preventing them from interfering with other engine components (Figure 4).



Figure 3a: Example of a MAP sensor.



Figure 3b: Example of a MAF sensor.

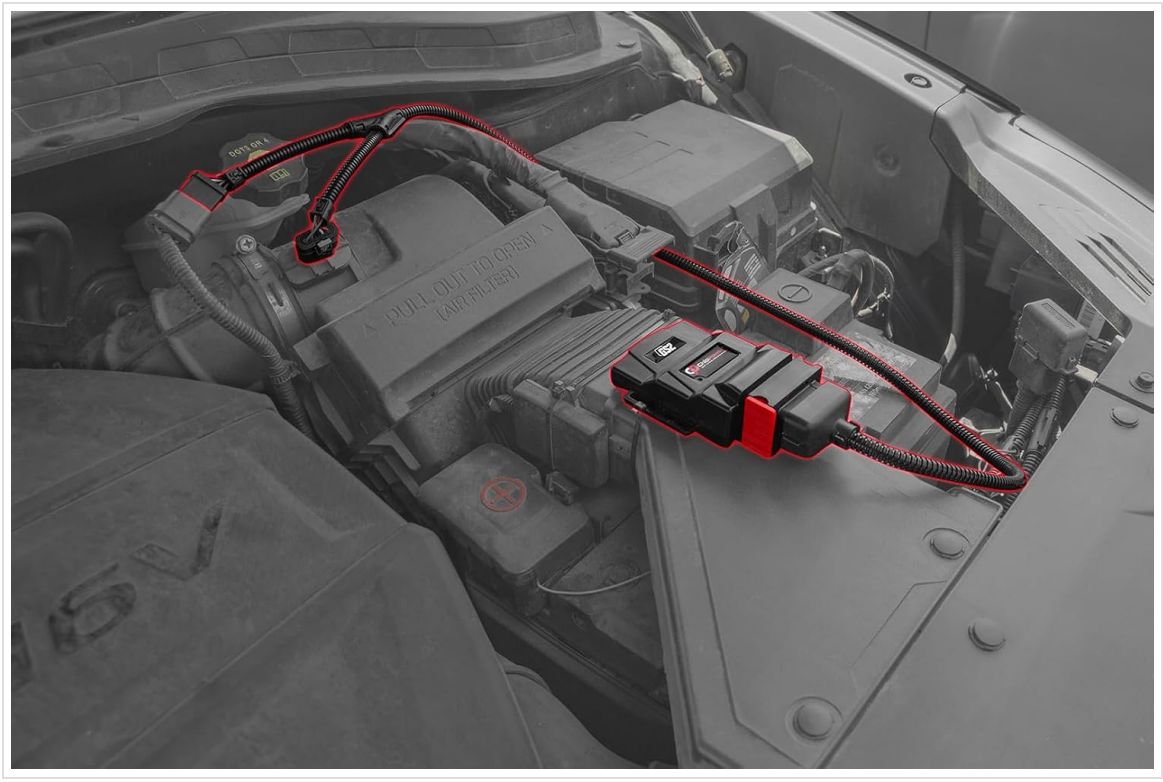


Figure 4: General diagram showing the ChipPower GS2 installed in an engine bay, connected to a sensor.



Figure 5: Close-up of the vehicle-specific connector on the ChipPower cable.



Figure 6: Demonstrating the secure connection of the cable to the GS2 tuning box.

5. Operation

Once correctly installed, the ChipPower GS2 operates automatically. The device optimizes engine parameters in real-time to deliver enhanced performance and efficiency.

5.1 Performance Adjustment

The GS2 tuning box may feature an adjustment screw (Figure 8) that allows for fine-tuning of the performance level. This screw typically allows you to increase or decrease the tuning intensity. Start with the factory default setting and adjust incrementally if desired, observing vehicle behavior.



Figure 8: Location of the adjustment screw on the ChipPower GS2 tuning box for fine-tuning performance.

6. Maintenance

The ChipPower GS2 Performance Chip Tuning Box is designed to be maintenance-free. However, it is recommended to periodically check the connections to ensure they remain secure and free from dirt or corrosion. No internal user-serviceable parts are present.

7. Troubleshooting

If you experience any issues after installing the ChipPower GS2, consider the following troubleshooting steps:

- **Check Connections:** Ensure all connectors are firmly seated and properly connected to the sensor and the tuning box.
- **Revert to Factory Settings:** Disconnect the ChipPower GS2 and reconnect the original vehicle sensor connector. If the issue resolves, it may indicate a problem with the tuning box or its installation.

- **Adjustment Screw:** If you have adjusted the performance level, try returning it to the default setting.
- **Contact Support:** If problems persist, please contact ChipPower customer support for assistance. Provide your vehicle details (make, model, year, engine type) and a description of the issue.

8. Specifications

Feature	Detail
Brand	ChipPower
Model Number	GS2
Manufacturer Serial Number	220107386
Safety Certifications	CE, UKCA, RoHS
Compatibility	Toyota Yaris Mk2 II XP90 1.0 (2005-2011) Gasoline Engines
Main Unit Dimensions (approx.)	110 mm (Height) x 90 mm (Width) x 37 mm (Depth)
Cable Length (approx.)	1000 mm



Figure 9: Dimensions of the ChipPower GS2 tuning box and its connecting cable.

9. Warranty and Support

ChipPower is a European producer specializing in car tuning. Your purchase includes customer support to assist

with any questions or installation guidance.

- **Product Warranty:** For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact ChipPower directly.
- **Vehicle Warranty:** The manufacturer states that installing this device does not void your vehicle's warranty. Upon removal, the car reverts to factory settings.
- **Customer Support:** If you require assistance, please contact ChipPower customer service. When contacting support, be prepared to provide your vehicle's make, model, and engine power to receive tailored assistance.

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