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ChipPower GS2

ChipPower Performance Tuning Box GS2 User Manual

For Nissan Micra Mk2 II K11 1.0 1.4 Gasoline (2000-2003)

1. PRODUCT OVERVIEW

The ChipPower Performance Tuning Box GS2 is designed to optimize your vehicle's engine performance. This device connects to your car's engine sensors to modify signals, potentially leading to improved power, torque, and fuel efficiency. It is equipped with an engine protection function to ensure safe operation.



Image 1.1: Contents of the ChipPower GS2 package, including the tuning box, wiring harness, cable ties, and instruction materials.



Image 1.2: A detailed view of the ChipPower GS2 tuning box, highlighting its compact design.

2. SAFETY INFORMATION

- Ensure the vehicle's engine is turned off and cool before beginning installation.
- Disconnect the vehicle's battery before installation to prevent electrical damage.
- Always follow local regulations and laws regarding vehicle modifications.
- The device is designed with an engine protection function. However, always monitor your vehicle's performance after installation.
- If you are unsure about any step, consult a qualified mechanic.

3. SETUP AND INSTALLATION

The ChipPower GS2 tuning box is designed for a Plug&Drive installation. The installation involves connecting the device to specific engine sensors (MAP, MAF, or IAT) depending on your vehicle's configuration.

3.1 Identifying Sensor Type

The tuning box connects to either the Manifold Absolute Pressure (MAP) sensor, Mass Air Flow (MAF) sensor, or Intake Air Temperature (IAT) sensor. Refer to your vehicle's service manual or consult a mechanic to identify the correct sensor location for your Nissan Micra Mk2 II K11 1.0 1.4 Gasoline (2000-2003).



Image 3.1: Example of a Manifold Absolute Pressure (MAP) sensor.



Image 3.2: Example of a Mass Air Flow (MAF) sensor.

3.2 Connection Steps

1. **Prepare the Vehicle:** Ensure the engine is off and the ignition key is removed. Disconnect the negative terminal of the car battery.
2. **Locate the Sensor:** Identify the correct MAP, MAF, or IAT sensor in your engine bay.
3. **Disconnect Sensor:** Carefully disconnect the original wiring harness from the identified sensor.
4. **Connect Tuning Box Harness:** Connect the ChipPower GS2 wiring harness in-line with the sensor. One end of the tuning box harness connects to the vehicle's original sensor, and the other end connects to the vehicle's original wiring harness. Ensure all connections click securely into place.



Image 3.3: General diagram illustrating the in-line connection of the tuning box to a sensor.



Image 3.4: Step-by-step connection of the ChipPower GS2 tuning box to its dedicated wiring harness.



Image 3.5: Illustrates connecting the tuning box's wiring harness to the vehicle's sensor connector.

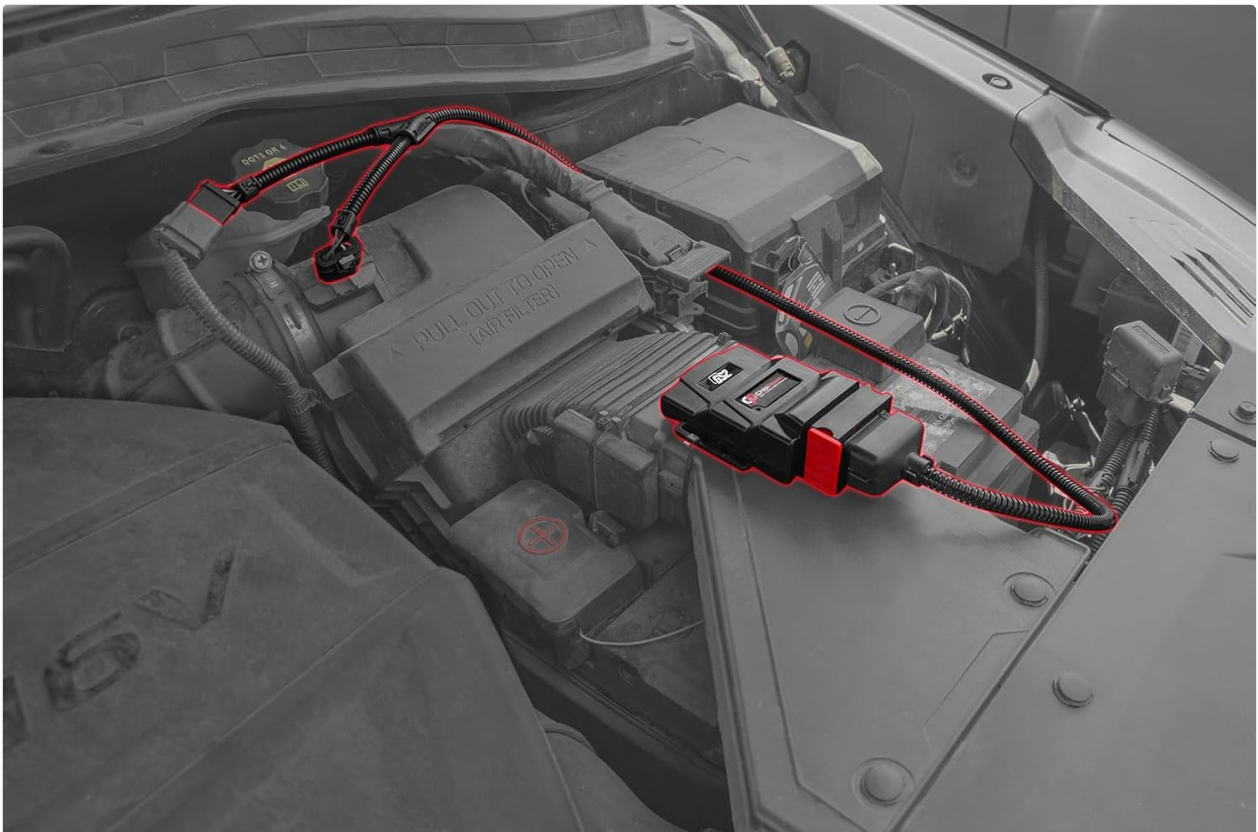


Image 3.6: The ChipPower GS2 tuning box and wiring harness installed within a vehicle's engine bay.

3.3 Securing the Device

Use the provided cable ties to secure the tuning box and its wiring harness away from moving parts, heat sources, and sharp edges in the engine bay.

3.4 Initial Adjustment

The GS2 box features an adjustment screw for fine-tuning performance. For initial setup, it is recommended to start with the factory default setting or a moderate setting. You can adjust this later based on your driving preferences.



Image 3.7: Demonstrates how to adjust the performance setting on the ChipPower GS2 tuning box using a small tool.

5. **Reconnect Battery:** Reconnect the negative terminal of the car battery.
6. **Start Engine:** Start the engine and let it idle for a few minutes. Take the vehicle for a short test drive to observe initial performance.

4. OPERATING THE DEVICE

Once installed, the ChipPower GS2 operates automatically. The device continuously optimizes engine parameters based on the selected setting. No further user interaction is typically required during normal operation.

4.1 Performance Adjustment

If you wish to modify the performance characteristics, you can adjust the setting screw on the tuning box (refer to Image 3.7). Turning the screw clockwise generally increases performance, while turning it counter-clockwise reduces it. Make small adjustments and test the vehicle's response to find your preferred setting.

5. MAINTENANCE

The ChipPower GS2 tuning box requires minimal maintenance. Periodically check the connections to ensure they remain secure and free from corrosion or damage. Keep the device clean and free from excessive dirt or moisture.

6. TROUBLESHOOTING

- **Engine Warning Light:** If an engine warning light appears after installation, first re-check all connections to ensure they are secure. Disconnect the battery for 15 minutes to reset the ECU, then reconnect and restart the vehicle. If the light persists, remove the tuning box and return the vehicle to its original configuration. Contact customer support if the issue continues.
- **No Perceptible Change in Performance:** Ensure the adjustment screw is not set to the minimum position. Verify all connections are firm. Allow the vehicle's ECU some time to adapt to the new signals.
- **Rough Idling or Hesitation:** This may indicate an incorrect setting. Try adjusting the screw to a lower setting. If the problem persists, remove the tuning box and contact support.

7. SPECIFICATIONS

Feature	Specification
Model	GS2
Brand	ChipPower
Compatibility	Nissan Micra Mk2 II K11 1.0 1.4 Gasoline (2000-2003)
Safety Ratings	CE, UKCA, RoHS
Dimensions (Box)	Height: 110 mm, Width: 90 mm, Depth: 37 mm
Cable Length	1000 mm



Image 7.1: Technical dimensions of the ChipPower GS2 tuning box and its connecting cable.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

ChipPower products are designed with quality and safety in mind, incorporating an engine protection function. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official ChipPower website.

8.2 Customer Support

If you encounter any issues or have questions regarding the installation or operation of your ChipPower GS2 tuning box, please contact ChipPower customer support. Contact details can typically be found on the product packaging or the official ChipPower website.