Hypertech 52500

Hypertech Max Energy Power Programmer User Manual

Model: 52500 | Brand: Hypertech

Introduction

The Hypertech Max Energy Power Programmer is an advanced engine tuning device designed to optimize vehicle performance and fuel efficiency. It provides enhanced power output and refined transmission functions, aiming to reduce fuel consumption during acceleration and cruising by minimizing unnecessary torque converter unlocking and transmission downshifts.
This manual provides detailed instructions for the proper setup, operation, and maintenance of your Max Energy Power Programmer.

What's in the Box

- Hypertech 52500 Max Energy Power Programmer Unit
- Connection Cable (for vehicle OBD-II port)
- USB Cable (for computer connection)
- Instruction Manual (this document)

Key Features

- Optimized engine tuning for maximum power and performance.
- Ability to read and clear Diagnostic Trouble Codes (DTCs).
- Speedometer calibration for non-stock tires and/or gear ratio changes (for most applications).
- Automatic transmission shift point and shift firmness adjustments (for most applications).
- Adjustable parameters including RPM "rev" limiter, Top speed limiter, Fuel Management Systems (DoD, MDS, AFM), 0-60 Throttle restrictions, and Cooling fan on/off temperatures (features vary by vehicle application).
- Internet updateable firmware.
- "Return to Stock" feature to remove tuning from the vehicle.

Setup and Installation

Before beginning, ensure your vehicle's battery is fully charged and stable. It is recommended to connect a battery maintainer during the programming process.

1. **Initial Device Setup:**

   Connect the Max Energy Power Programmer to a computer using the provided USB cable. Visit the official Hypertech website to download and install the latest software updates for your device. This ensures compatibility

and access to the most current tuning files.

Figure 1: Hypertech Max Energy Power Programmer device. The screen shows "PRESS Y FOR MAXIMUM POWER AND PERFORMANCE" and it has navigation buttons on the right.

2. **Vehicle Connection:**

   Locate your vehicle's OBD-II port, typically found under the dashboard on the driver's side. Connect the programmer to the OBD-II port using the provided cable. Ensure a secure connection.

3. **Vehicle Identification:**

   Follow the on-screen prompts on the programmer to identify your vehicle's make, model, and engine type. The device will read your vehicle's stock calibration.

4. **Programming Disclaimer (Specific Vehicles):**

   For certain vehicle applications, particularly some diesel models (e.g., 1998-2002 Dodge Cummins), Hypertech may require acknowledgment of a disclaimer regarding potential risks to the vehicle's Engine Control Module (ECM) during programming. This is a manufacturer-specific requirement to proceed with tuning. Review any such disclaimers carefully before proceeding.

5. **Selecting a Tune:**

   Choose the desired tuning program. For gas vehicles capable of using regular octane fuel, options for premium or regular fuel are available. For vehicles designed for premium fuel only, one power tuning program is provided. Diesel applications offer three stages of power tuning.

Figure 2: The Hypertech Max Energy Power Programmer device shown alongside its retail packaging, which features the "Max Energy Power Programmer" logo.

6. **Applying the Tune:**

   Confirm your selection and initiate the programming process. Do not disconnect the device or turn off the vehicle's ignition during programming. This process may take several minutes.

7. **Completion:**

   Once programming is complete, the device will indicate success. Disconnect the programmer from the OBD-II port.

Operating Instructions

The Max Energy Power Programmer allows for various adjustments beyond just engine tuning. Navigate the device's menu using the directional buttons to access these functions.

Engine Tuning Programs

- **Gas Vehicles:** Select between regular or premium octane optimized tunes based on your fuel choice.
- **Diesel Vehicles:** Choose from three stages of power tuning. Stage 3 is designed to maintain safe Exhaust Gas Temperatures (EGT) even when towing the manufacturer's specified maximum weight.

Adjustable Parameters (Vehicle Dependent)

- **Speedometer Calibrator:** Adjust for non-stock tire sizes or gear ratio changes to ensure accurate speed and odometer readings.
- **Transmission Adjustments:** Modify automatic transmission shift points and firmness for improved responsiveness and feel.
- **RPM "Rev" Limiter:** Adjust the maximum engine RPM.
- **Top Speed Limiter:** Modify or remove the vehicle's factory-set top speed limit.
- **Fuel Management Systems:** Control or disable features like Cylinder Deactivation (DoD, MDS, AFM) for consistent power delivery.
- **0-60 Throttle Restrictions:** Optimize throttle response for quicker acceleration.
- **Cooling Fan On/Off Temperatures:** Adjust the activation temperatures for the engine cooling fan.

Diagnostic Trouble Codes (DTCs)

The programmer can read and clear Diagnostic Trouble Codes (DTCs) that illuminate your vehicle's "Check Engine" light.

This feature assists in diagnosing and resolving vehicle issues.

- To read DTCs: Navigate to the "Diagnostics" menu and select "Read Codes."
- To clear DTCs: After addressing the underlying issue, select "Clear Codes." Clearing codes without resolving the issue will likely result in the code reappearing.

Return to Stock

Before servicing your vehicle at a dealership or selling it, it is recommended to return the vehicle's computer to its stock calibration. This feature ensures that the vehicle operates on its original factory settings.

- Navigate to the "Return to Stock" option in the main menu.
- Follow the on-screen prompts to restore the factory calibration.

Maintenance

- **Software Updates:** Regularly connect your Max Energy Power Programmer to a computer and check for software updates via the Hypertech website. Updates provide new features, vehicle compatibility, and performance enhancements.
- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Storage:** Store the programmer in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

Troubleshooting

Problem	Possible Cause	Solution
Programmer does not power on.	Loose OBD-II connection; Vehicle battery low.	Ensure cable is securely connected. Check vehicle battery voltage; charge if necessary.
"Check Engine" light remains on after clearing DTCs.	Underlying issue not resolved.	Clearing codes only resets the light; the root cause of the DTC must be repaired. Consult a qualified mechanic.
Device states "Not Supported" for vehicle.	Incorrect model year/application; Outdated firmware.	Verify vehicle compatibility with Hypertech's application guide. Update programmer firmware via computer. If issue persists, contact Hypertech support.
Programming process interrupted or fails.	Low vehicle battery; Loose connection; Ignition turned off.	Ensure stable battery voltage. Do not disconnect or turn off ignition during programming. Follow on-screen recovery prompts or contact support.

Specifications

Attribute	Detail
Manufacturer	Hypertech
Model	52500
Item Weight	14.3 ounces

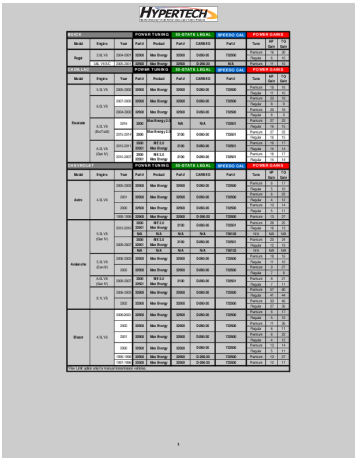
Attribute	Detail
Product Dimensions	8.75 x 5.25 x 2.25 inches
Connectivity	OBD-II, USB
Updateability	Internet updateable
First Available Date	January 12, 2012

Warranty and Support

For specific warranty information, please refer to the documentation included with your purchase or visit the official Hypertech website. Hypertech provides customer support for technical assistance and product inquiries.
Contacting Support:

- For the most up-to-date contact information, including phone numbers and online support portals, please visit the official Hypertech website: www.hypertech.com
- When contacting support, have your product model number (52500) and vehicle information readily available.

Documents - Hypertech – 52500



Hypertech Performance Tuning & Speed Calibration Guide for Buick, Cadillac, Chevrolet, Ford, and more
Explore the Hypertech catalog for Max Energy and ME 2.0 performance tuning products. Find engine tuning solutions, speed calibrators, and power gains for a wide range of Buick, Cadillac, Chevrolet, Chrysler, Dodge, Ford, GMC, Honda, Hummer, Infiniti, Jeep, Lexus, Lincoln, Mazda, Mercury, Mitsubishi, Nissan, Pontiac, Saab, Saturn, Subaru, Suzuki, and Toyota vehicles.
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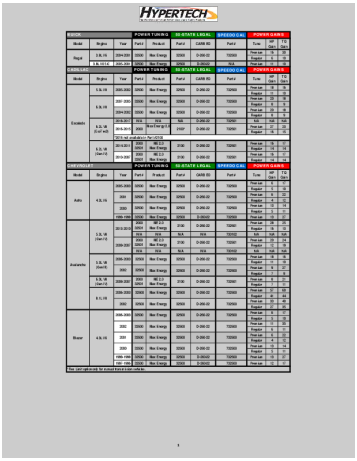

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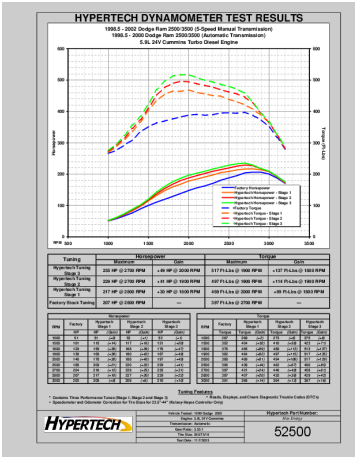

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HYPERTECH DYNAMOMETER TEST RESULTS 1998.5 - 2002 Dodge Ram 2500/3500 5-Speed Manual Transmission ... tic Gear Ratio: 3.55:1 Tire Size: 265/75/16 Test Date: 11/7/2003 Hypertech Part Number: Max Energy **52500** HYPERTECH DYNAMOMETER TEST RESULTS 2001 - 2002 Dodge Ram 2500/3500 Automatic Transmission ...

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