



Tuning Box V6.0

Product Introduction

HS Tuning Box is an innovative engine performance optimization device, specifically designed for car owners who seek enhanced engine power without forfeiting their original factory warranty. By intelligently collecting and re-calibrating engine sensor signals, it achieves power improvement without modifying the data of the original Engine Control Unit (ECU).

This product supports 2-channel SENT protocol calibration, which can accurately adapt to the high-precision digital sensor systems of modern vehicles, ensuring the stability and compatibility of signal processing. Adopting a plug-and-play design and equipped with vehicle-specific wiring harnesses, it only takes 10 minutes to install or remove, fully preserving the vehicle's warranty eligibility.

Additionally, a built-in Bluetooth module enables real-time switching between 5 power modes (Eco/Comfort/Sport/Race/Original) via a mobile APP.

It also provides open tuning software for professional modifiers, supporting the development of personalized MAP.

Compared with traditional ECU direct flashing solutions, this product can increase power output by 15%-30% without damaging the vehicle, and achieve a 3%-5% fuel consumption optimization, balancing performance requirements with the integrity of the original factory system.

Function

- **4-channel voltage signal channels**
0~5V voltage input and output, corresponding to four MAP that can be calibrated via software.
- **1 Frequency Channel**
Supports frequency signal calibration from 100 Hz to 20,000 Hz
- **2-channel SENT Protocol Channels**
Supports SENT protocol data calibration, with each channel corresponding to two MAP
- **2-channel PWM output**
5A output power, which can be used to drive external devices such as solenoid valves and alcohol injection pumps. One of the channels supports PID closed-loop control.
- **Bluetooth Function**
It has 5 built-in power modes, and mode switching can be achieved by connecting a mobile phone to the product via Bluetooth.



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Vehicle Model Applications

- Volkswagen and Audi Series
- Cadillac, Buick Series
- Ford Bronco, Ford Raptor
- Great Wall Tank 300
- Lynk & Co 03/03+
- Changan UNI-V, GAC Trumpchi, Geely Xingyue, etc.



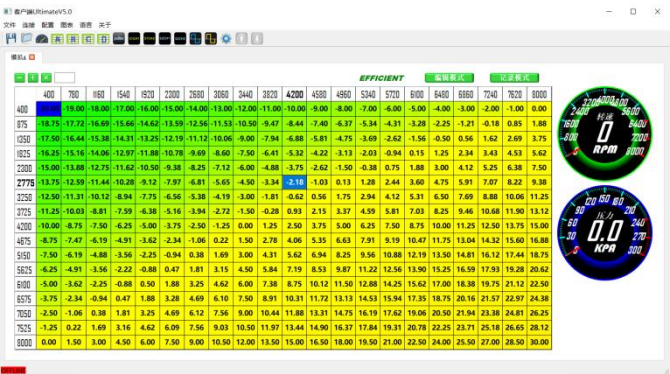
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Software Feature Description

Main Interface

After connecting the Tuning Box to your computer using a USB cable, open the software to start your debugging process, as shown in the figure below. The main interface consists of a toolbar, a MAP editing area, and other components.



Configuration Window

Click the "Settings" icon on the main interface to bring up the window shown below. Within this window, you can configure the properties of each MAP. You can select the coordinate axes for each MAP as needed, along with other system configuration parameters.



LOG Function

The software is equipped with a data logging function, which allows for convenient observation of real-time changes and curve variations of various data during debugging.



Real-Time Data Display and Mode Switching Function

This window supports real-time visual monitoring of multi-channel data, allowing users to intuitively observe signal value waves and quickly verify whether input/output parameters meet expectations.

The system has 5 built-in user-defined modes (supporting independent parameter configuration). Through the mode switching buttons in the interface, different working modes can be called up instantly to meet diverse scenario requirements.

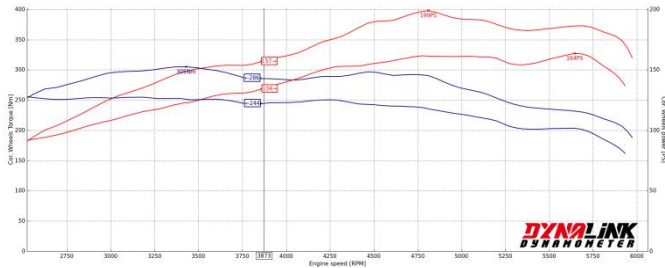


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Application Examples for Partial Vehicle Models

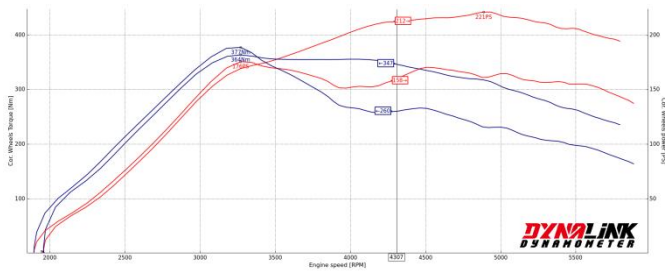
Cadillac CT5



Horsepower Increase: 35HP

Torque Increase: 50 N·m

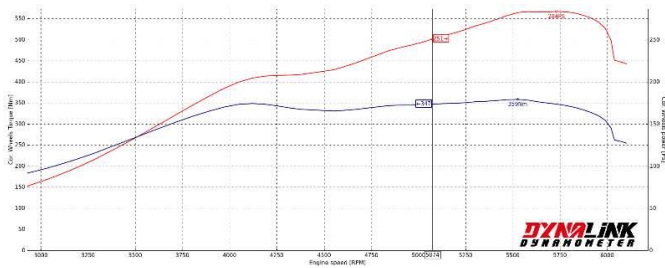
Ford Mustang



Horsepower Increase: 45HP

Torque Increase: 15 N·m

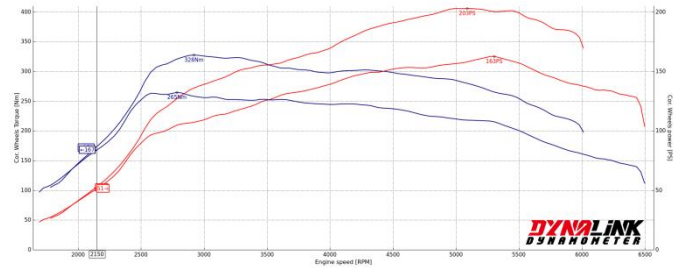
Lynk&Co 03+



Horsepower Increase: 40HP

Torque Increase: 65 N·m

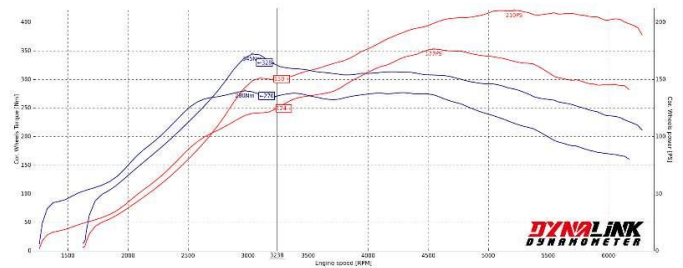
Porsche MACAN



Horsepower Increase: 40HP

Torque Increase: 63 N·m

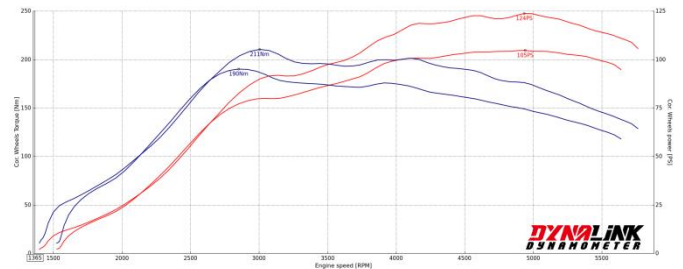
Volkswagen Passat



Horsepower Increase: 33HP

Torque Increase: 65 N·m

Volkswagen Tayron



Horsepower Increase: 20HP

Torque Increase: 21 N·m

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Introduction to Extended Functions and Other Accessories

Bluetooth Function

This product has a built-in Bluetooth module. After connecting to Bluetooth, you can use the following APP to switch modes..



Alcohol Injection System

The use of an alcohol injection system can effectively lower the intake air temperature while reducing the occurrence of detonation. When used with the company's dedicated alcohol injection system, it can significantly enhance engine performance while ensuring safety.



Smart Gauge Module

The HS Intelligent Instrument integrates a high-sensitivity touch module and a Bluetooth module. It enables seamless pairing with the HS TUNINGBOX and monitors core parameters in real time, such as boost pressure and engine speed. Users can retrieve parameters, switch modes, and perform other operations through intuitive touch interaction. Equipped with an AMOLED high-definition display, it ensures clear data reading even under complex working conditions.



FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

RF Exposure Information

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.