


# Vance And Hines Fp4 User Manual

<b>FP4 FEATURES GRID</b>	<b>66043 Android</b>	<b>66043 IOS</b>	<b>66045 Android</b>	<b>66045 IOS</b>
Access to V&H Dyno-Tuned Maps	✓	✓	✓	✓
Download and Flash Maps	✓	✓	✓	✓
Upload ECU Contents	✓	✓	✓	✓
Download from Rider Support	✓	✓	✓	✓
Throttle Progressivity**	*	*	✓	*
Deceleration Pop	*	*	✓	*
Idle RPM	*	*	✓	*
Rev Limit	✓	*	✓	*
Speed Limiter Removal	*	*	✓	*
Live Data	✓		✓	
Read/Clear Trouble Codes	✓	✓	✓	✓
Auto Tune	✓	✓	✓	✓
HDI Compatibility	✓	✓	✓	✓
Rider Support Included for 1 year from Installation Date	✓	✓	✓	✓

\*Available by contacting our Rider Support Team  
\*\*Not available for models with available RDRS  
Rider Support Team Contact Info:  
Help@VanceandHines.com or call (562) 921-7461



## Vance and Hines FP4 User Manual

The Vance and Hines FP4 is a state-of-the-art fuel management system designed specifically for motorcycle enthusiasts seeking to optimize their bike's performance. This advanced tuning module allows riders to adjust their bike's fuel mapping, ensuring that they can maximize horsepower and torque while maintaining engine longevity. The FP4 is compatible with various Harley-Davidson models and provides a user-friendly interface for easy operation. In this comprehensive guide, we will delve into the features, installation, usage, troubleshooting, and other essential aspects of the Vance and Hines FP4 User Manual.

## Overview of Vance and Hines FP4

The Vance and Hines FP4 is designed to facilitate custom tuning for motorcycles, making it an essential tool for both novice and experienced riders. Its innovative design and technology help deliver optimal performance by adjusting the fuel mixture for various riding conditions.

## Key Features

1. **Easy Installation:** The FP4 can be installed without any special tools or technical expertise.
2. **User-Friendly Interface:** The device features a simple and intuitive interface that allows riders to make adjustments quickly.
3. **Pre-Loaded Maps:** Comes with pre-loaded maps tailored for different Harley-Davidson models and aftermarket exhaust systems.
4. **Real-Time Data Logging:** Riders can monitor their bike's performance and make necessary adjustments on the fly.
5. **Bluetooth Connectivity:** The FP4 connects to smartphones for easy map updates and data monitoring via the Vance and Hines app.
6. **Custom Tuning Options:** Users can create custom maps based on their specific riding style and preferences.

## Installing the Vance and Hines FP4

Installing the FP4 is a straightforward process. Below are the steps involved:

### Required Tools

- Phillips screwdriver
- Flathead screwdriver
- Torque wrench
- Laptop or smartphone for updates (optional)

### Installation Steps

1. **Preparation:**
  - Ensure the motorcycle is parked on a level surface and the ignition is turned off.
  - Disconnect the negative terminal of the battery to prevent any electrical issues.
2. **Locate the Diagnostic Connector:**
  - Find the motorcycle's diagnostic connector, usually located near the battery or under the seat.
3. **Connect the FP4:**
  - Plug the FP4's connector into the diagnostic port securely. Ensure it clicks into place.
4. **Reconnect the Battery:**

- Reattach the negative terminal of the battery.

#### 5. Power Up:

- Turn on the motorcycle's ignition, allowing the FP4 to initialize.

#### 6. Check for Updates (Optional):

- Connect the FP4 to a laptop or smartphone to check if there are any software updates available via the Vance and Hines app.

## Using the Vance and Hines FP4

Once installed, the FP4 is ready for use. Here's a guide on how to navigate its features.

### Basic Operation

1. Start the Motorcycle: Turn on your motorcycle and let it idle to warm up the engine.
2. Access the FP4 Menu: Use the buttons on the device to navigate through the menus.
3. Select Fuel Mapping:
  - Choose from pre-loaded maps based on your bike's modifications (e.g., exhaust system).
  - For custom tuning, select the option to create a new map.
4. Adjust Parameters: Modify parameters such as Air-Fuel Ratio (AFR) and ignition timing according to your preferences.

### Real-Time Monitoring

- The FP4 can log real-time data, enabling you to monitor performance metrics such as RPM, speed, and throttle position.
- Use this data to make informed adjustments to your tuning.

## Updating the FP4

Keeping your FP4 updated is crucial for optimal performance. The updates can enhance functionality and add new features. Here's how to update the device:

### Using the Vance and Hines App

1. Download the App: Available on both Android and iOS platforms.

2. Connect the FP4: Use Bluetooth to connect your smartphone to the FP4.
3. Check for Updates:
  - Open the app and navigate to the update section.
  - Follow the prompts to download and install any available updates.

## **Troubleshooting Common Issues**

Despite its reliability, users may encounter issues at times. Below are common problems and their solutions.

### **Device Not Recognizing Engine Control Unit (ECU)**

- Solution: Ensure the FP4 is properly connected to the diagnostic connector. Try disconnecting and reconnecting the device.

### **Inconsistent Performance After Tuning**

- Solution: Double-check your fuel mapping settings. It may be necessary to revert to a pre-loaded map if custom settings are not performing well.

### **Bluetooth Connectivity Issues**

- Solution: Make sure that Bluetooth is enabled on your smartphone. If the FP4 doesn't connect, restart both the device and the smartphone.

## **Maintenance and Care**

To ensure the longevity of your Vance and Hines FP4, follow these maintenance tips:

1. Regularly Check Connections: Inspect the wiring and connections for any signs of wear or damage.
2. Keep Software Updated: Always keep the FP4 updated to benefit from the latest features and improvements.
3. Clean the Device: Wipe down the FP4 with a soft cloth to keep it free from dust and debris.

# Conclusion

The Vance and Hines FP4 is an invaluable tool for motorcycle enthusiasts looking to enhance their riding experience. With its user-friendly design, advanced features, and customizable options, it empowers riders to take control of their bike's performance. Whether you're a beginner or a seasoned rider, understanding how to operate and maintain the FP4 will ensure you reap the maximum benefits from this innovative fuel management system. By following this user manual, you are well on your way to optimizing your motorcycle's performance and enjoying a more exhilarating ride.

## Frequently Asked Questions

### **What is the purpose of the Vance & Hines FP4?**

The Vance & Hines FP4 is a fuel management system designed to optimize the performance of Harley-Davidson motorcycles by allowing users to tune their bike's fuel mapping for better efficiency and power.

### **Where can I find the user manual for the Vance & Hines FP4?**

The user manual for the Vance & Hines FP4 can be found on the official Vance & Hines website under the support or downloads section.

### **How do I connect the Vance & Hines FP4 to my motorcycle?**

To connect the Vance & Hines FP4 to your motorcycle, plug the FP4 device into the bike's diagnostic port, which is typically located under the seat or near the battery.

### **Can I use the Vance & Hines FP4 with stock exhaust systems?**

Yes, the Vance & Hines FP4 can be used with stock exhaust systems, though it is optimized for use with Vance & Hines aftermarket exhausts for improved performance.

### **What features are included in the Vance & Hines FP4 user manual?**

The user manual includes setup instructions, troubleshooting tips, tuning guidelines, and information on how to use the app for real-time monitoring and adjustments.

## Is the Vance & Hines FP4 compatible with all Harley-Davidson models?

The Vance & Hines FP4 is compatible with many Harley-Davidson models, particularly those with electronic fuel injection, but it's best to check the specific compatibility list provided by Vance & Hines.

## What should I do if I encounter issues while using the Vance & Hines FP4?

If you encounter issues while using the Vance & Hines FP4, refer to the troubleshooting section of the user manual, and if problems persist, contact Vance & Hines customer support for assistance.

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