# POWER VISION 3

## Installation Guide for: PV3-15-04

### Model Coverage:

Gen 2 Harley-Davidson Motorcycles

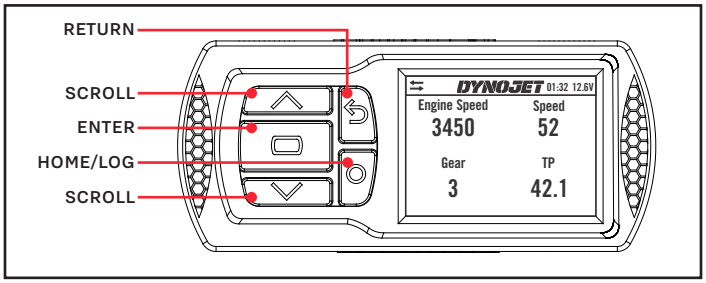
## PARTS LIST

| | | | |
|---|---|---|---|
| 1 | POWER VISION 3 | 2 | VELCRO |
| 1 | REFLASH HARNESS | 2 | DYNOJET DECAL |
| 1 | USB CABLE | | |

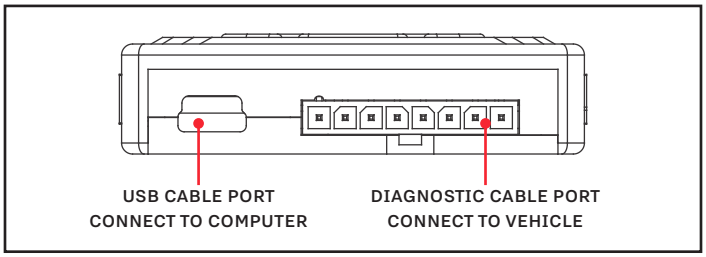
**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**
**PLEASE UPDATE THIS DEVICE WITH THE LATEST FIRMWARE**

IPV3-15-04.03

# INTRODUCTION




POWER VISION OVERVIEW—FRONT VIEW



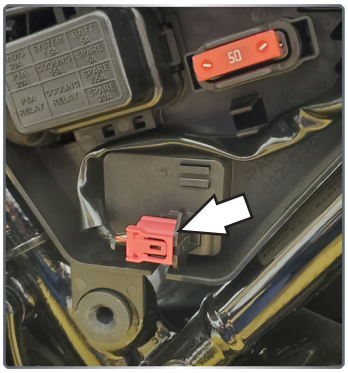

POWER VISION OVERVIEW—SIDE VIEW

Thank you for purchasing the Power Vision from Dynojet Research. At Dynojet, our mission is to make every ride the ultimate ride. The Power Vision allows you to tune your stock ECU to achieve optimal performance from your vehicle.

The Power Vision is the device to interface between your computer and the vehicle ECU. Use the buttons to navigate the device menus, make selections, cycle through the four full-color available gauge screens, and log data. Connect to the diagnostic port to flash a tune; use the USB connection to interface between the Power Vision and your computer. Make your Power Vision device yours; display the channels you want to see with four user-customizable full-color gauge screens. Make the Power Vision your window into your vehicle; secure the Power Vision to your dashboard or handlebars to monitor any desired set of gauges such as Throttle Position, Engine Speed, and more. Wideband Air:Fuel Ratio can be added as a channel to the Power Vision's monitors by adding the accessoriy available at www.dynojet.com.

For state of the art technical support, please visit https://www.dynojet.com/help-center.

# INSTALLING THE POWER VISION



**Touring Models**

Diagnostic connector is located behind the left hand side cover. Connector is Red, 6 pin.

**Note:** Requires removing the left side saddle bag.

**Softail Models**

Diagnostic connector is located behind the left hand side cover. Connector is Red, 6 pin.

1 Attach the diagnostic cable to the diagnostic port on the Power Vision and to the diagnostic port on the vehicle.

**Note: The Power Vision may be damaged if installed improperly. The location of the diagnostic port varies depending on the model, please refer to a service manual or contact Dynojet for the exact location. Use caution as many models use the same style connector for accessories; your Power Vision MUST be connected to the diagnostic port.**

2 Route the Power Vision cable away from any moving or hot parts. Dynojet recommends using zip ties to secure the cable to existing non-moving components.

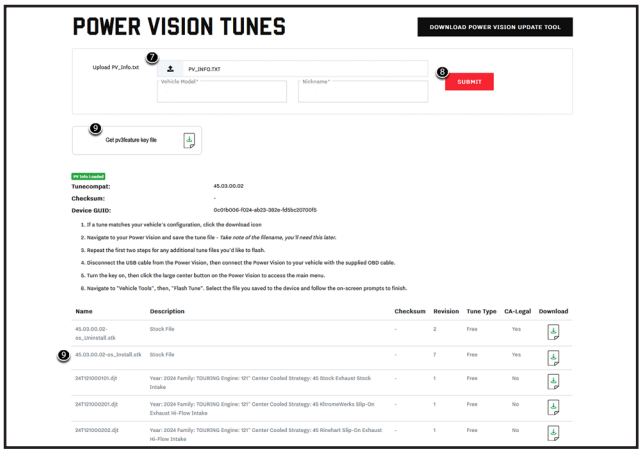
3 Secure the Power Vision to the vehicle using the supplied Velcro or mounting hardware. Make sure the Power Vision will not interfere with the operation of the vehicle. Visit www.dynojet.com for an array of mounting solutions for your Power Vision.

**Note: The Power Vision does not need to be mounted to the vehicle, however, the Power Vision provides a window into your vehicle. Mount the Power Vision to your handlebars and gain access to customizable full-color gauge screens, along with data logging and troubleshooting screens.**

# GETTING STARTED

The Power Vision must perform a one-time install in order to flash tunes. Please use the following steps to get started with your Power Vision.

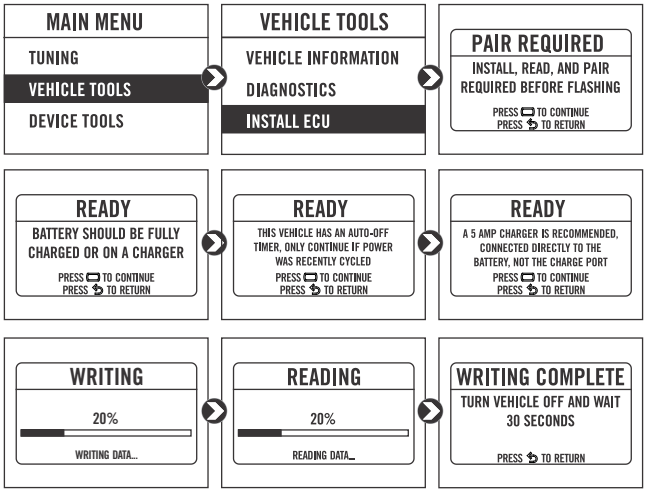
### Retrieving Files from the Website




1 Dynojet recommends you update the firmware on your device before proceeding. Refer to Update the Device on page 8.
2 Connect the Power Vision to the vehicle.
3 Turn the key on. The Power Vision will boot up and generate a PV_Info.txt file.
4 Connect the Power Vision to your computer using the included USB cable.
5 Using your computer, navigate to www.dynojet.com/tunes.
6 Click **Click Here To Download Power Vision 4, PV3, or PVCX Tunes.**
7 Click the **Upload PV_Info.txt** button.
8 Click **Submit**.
9 Download the following files to your Power Vision drive:
   - **Get pv3feature key file**
   - **[YourTuneCompat]_os_Install.stk**
10 Power cycle the Power Vision.

### Writing the One-Time Install

**This one-time install takes eight minutes. You must power cycle the vehicle before beginning the install; this keeps the vehicle auto-off timer from interrupting the installation.**

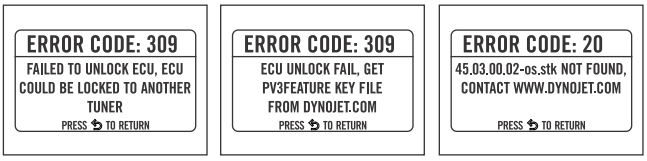



1 Power cycle the vehicle.
2 From the Main Menu, select **Vehicle Tools>Install ECU**.
   **Note:** If you do not see Install ECU, you will need to update your firmware.
   **Warning 1:** Install, Read, and Pair required before flashing.
   **Warning 2:** Battery should be fully charged or on a charger. If the voltage is too low, installation will not start. Loss of power during ECU flashing can render the vehicle inoperable.
   **Warning 3:** This vehicle has an auto-off timer, only continue if power was recently cycled.
3 Press **Enter** to continue. Do not turn off the key switch or disconnect the Power Vision during the flash.
4 After the flash is complete, turn the key off and wait 30 seconds before turning the key back on to start.

**The one-time install is complete. You are now ready to flash a tune!**

### Troubleshooting Error Messages

**Use the following steps to troubleshoot the error codes.**




1 Update the firmware on the device.
2 Download the following files from the website to your Power Vision drive:
   - **Get pv3feature key file**
   - **[YourTuneCompat]_os_Install.stk**

# THE TUNE WIZARD

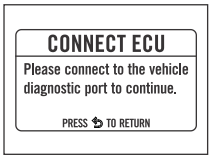
Use the Tune File Wizard to prepare your Power Vision device with the stock (stk) and tune (djt) files needed to flash your vehicle.

1 Connect the Power Vision to the vehicle.

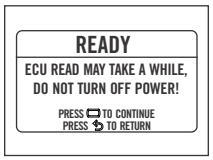
2 Turn the key on. The Power Vision will scan for files.
There are three possible file states:
**File State 1**: No compatible tune or stock files.
**File State 2**: No compatible tune files.
**File State 3**: All required files found.

3 Gauges are displayed.

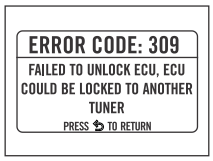
Connect the Power Vision to the vehicle diagnostic port to collect ECU information. Turn the key on.




**File State 1:**
Press the **Enter** button for ECU read to begin the tuning process. This process takes about eight minutes.

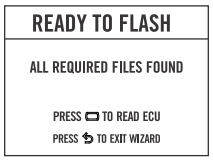



**Note:** You may see the Failed To Unlock ECU Error. Update your firmware then use the Retrieving Files from the Website steps in the Getting Started section on page 3 to download the files you need.




**File State 2:**
Go to dynojet.com/pvtunes to download tune files.

**File State 3:**
All required files found. The Power Vision is ready to flash a tune to the connected vehicle.




# FLASHING A TUNE

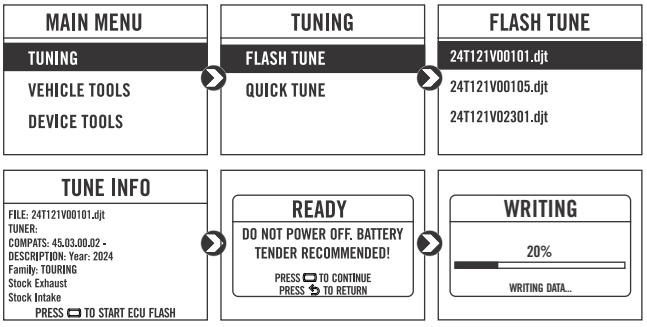
The Power Vision must perform a one-time install in order to flash tunes. Please refer to Getting Started on page 3.

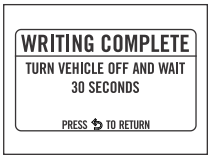
1 From the Main Menu, select **Tuning>Flash Tune**.

2 Select the tune file (.djt) and press **Enter** to view the Tune Info.
**Note:** The Dynojet tune file (.djt) is a tune file which is different (better than stock performance or the necessary file when bolting on an exhaust, for example); the stock file (.stk) is the direct duplicate of what the OEM shipped.

3 Press **Enter** to begin the flash. Do not turn off the key switch or disconnect the Power Vision during the flash.

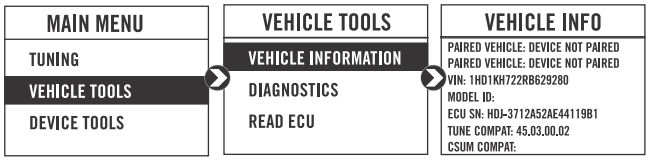
4 After the flash is complete, turn the key off and wait 30 seconds before turning the key back on to start.



# VIEWING THE VEHICLE INFORMATION

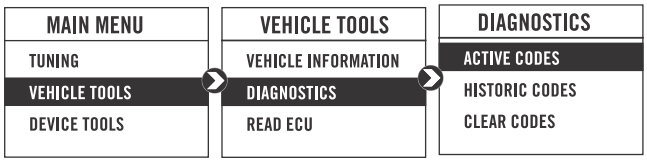
This menu allows you to view the device status (paired/not paired), VIN #, Model ID, ECU serial number, tune compat, and checksum compat.
Select **Vehicle Tools**>**Vehicle Information**.




# VIEWING THE DIAGNOSTIC CODES

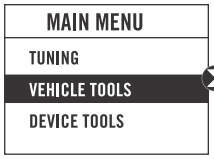
This menu allows you to read and clear diagnostic trouble codes.

1 To read codes, select **Vehicle Tools**>**Diagnostics**>**Active Codes**.
2 To clear codes, select **Vehicle Tools**>**Diagnostics**>**Clear Codes**.

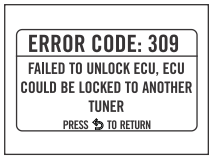



# READING THE ECU

This menu allows you to read the ECU. This process takes about eight minutes.
**Note:** You must first perform the one-time install in the Getting Started section on page 3 before you can read the ECU.
Select **Vehicle Tools**>**Read ECU**.
**Note:** You may see the Failed To Unlock ECU Error. You will need to update your firmware, then use the Retrieving Files from the Website steps in the Getting Started section on page 3 to download the files you need.

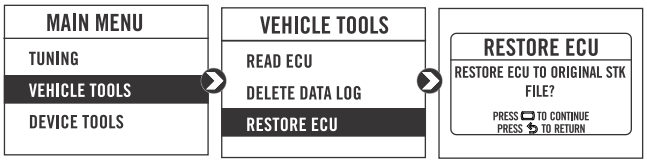



**Note:** Before you can read the ECU, you must perform the one-time install on page 3.




# RESTORING THE ECU

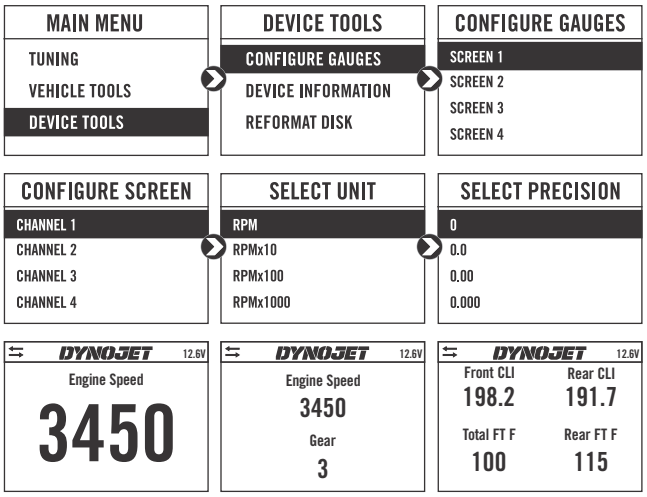
This menu allows you to restore the ECU. Use Restore ECU if the device does not complete the flash or if your vehicle will not start.
Select **Vehicle Tools**>**Restore ECU**.



# CONFIGURING GAUGES

Make your Power Vision device yours; display the channels you want to see with four user-customizable full-color gauge screens. Each gauge screen has one, two, or four configurable channels. Monitor channels such as RPM, AFR, Throttle Position, and more. Sample gauges shown here; for a complete list of monitors available, open the tune file in Power Core or scroll through the gauges on the device when configuring or selecting channels for the list of options.

1 From the Main Menu, select **Device Tools**>**Configure Gauges**.
2 Select a gauge screen and press **Enter**.
3 Select a channel and press **Enter**.
4 Select a channel from the list and press **Enter**.
5 Select the precision or units for that channel and press **Enter**.
6 Continue setting up the remaining channels as desired.
7 Continue configuring the remaining gauge screens as desired.

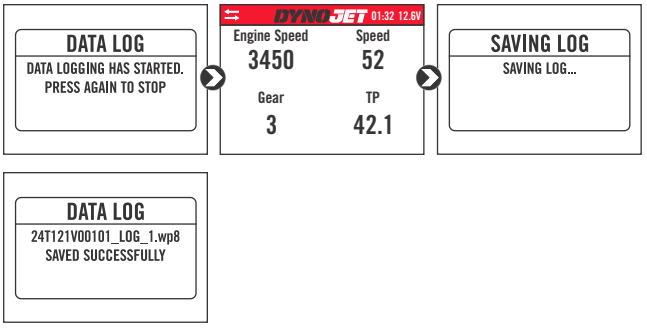



# LOGGING DATA

The Power Vision is a powerful logging tool to diagnose running issues. Use the Power Vision to log all vehicle operating data and review the data in the Power Core software. Troubleshoot an issue such as knock, speed/RPM limitation, throttle blade closure and more by keeping the Power Vision mounted to view and record channels.

1 Press the **Log**◎button to begin logging. The Power Vision screen will illuminate a bright red banner across the top when logging.
2 Press the **Log**◎button again to stop logging.
3 Use the Power Core software to view log files.

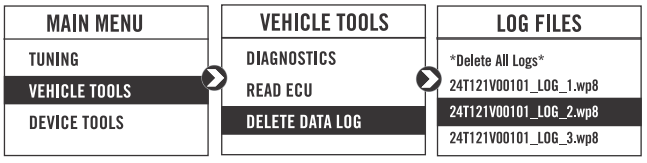
**Snapshot Log:** Press and hold the **Log**◎button for two seconds to record the previous two minutes of operating time.




# DELETING DATA LOGS

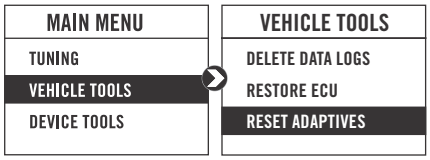
This menu allows you to delete data logs.

1 Select **Vehicle Tools**>**Delete Data Log**.
2 Select a specific log to delete or select ***Delete All Logs***.



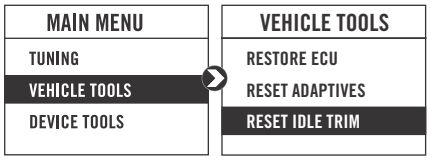
# RESET ADAPTIVES

This menu allows you to reset the learned long term narrowband fuel trims.
Select **Vehicle Tools**>**Reset Adaptives**.



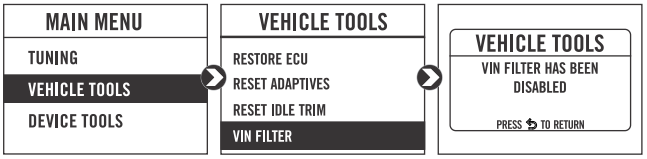

# RESET IDLE TRIM

This menu allows you to reset the idle trim.
Select **Vehicle Tools**>**Reset Idle Trim**.



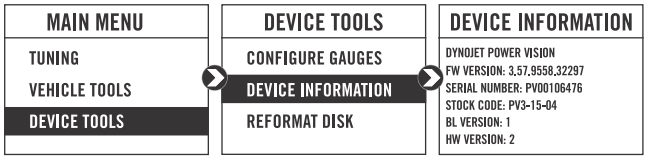

# VIN FILTER

This menu allows you to disable or enable the VIN filter. This prevents the flashing of files that are not compatible with the vehicle, even when they have the same tune compat/software level.
Select **Vehicle Tools**>**VIN Filter**.



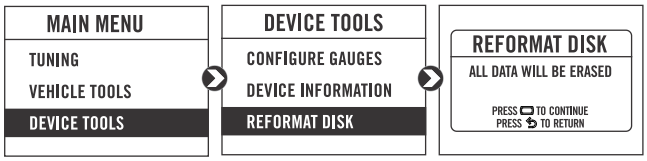

# VIEWING THE DEVICE INFORMATION

This menu allows you to view the device firmware version, serial number, and stock code.
Select **Device Tools**>**Device Information**.




# REFORMATTING THE DISK

This menu allows you to reformat the disk and erase all data.
Select **Device Tools**>**Reformat Disk**.

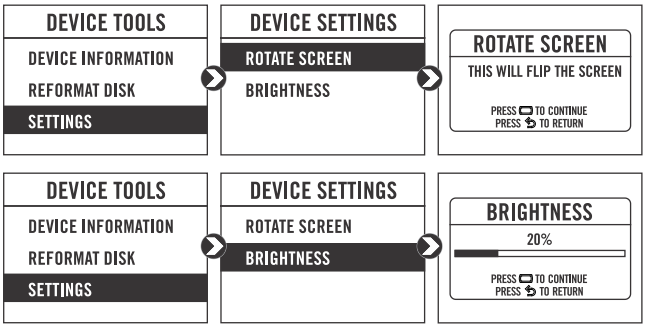


# CHANGING THE SETTINGS

This menu allows you to rotate the screen allowing you to change the orientation of the Power Vision device along with adjusting the screen brightness. Turn the brightness up and make your screen pop!

Select **Device Tools**>**Settings**>**Rotate Screen** to flip the screen.

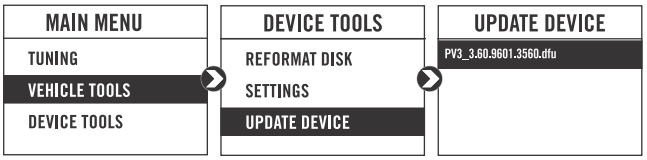
Select **Device Tools**>**Settings**>**Brightness** to change the screen brightness.




# UPDATING THE DEVICE

This menu allows you to update the device with the latest firmware.

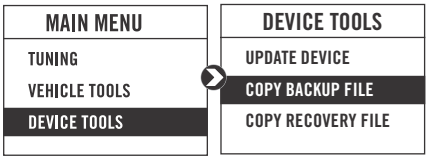
1 Go to www.dynojet.com.
2 From the top navigation menu, select **Support**>**Downloads**.
3 Click **Power Vision 3**.
4 Click the **Firmware** drop-down and download the Power Vision 3 Firmware for Harley-Davidson.
5 Save the file to your device.
6 Select **Device Tools**>**Update Device**.




# COPY BACKUP FILE

This menu allows you to drop the paired vehicle stock file (.stk) to the device file system to open in Power Core.

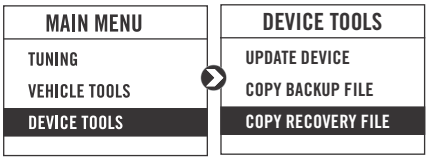
Select **Device Tools**>**Copy Backup File**.




# COPY RECOVERY FILE

This menu allows you to drop the most recently flashed vehicle stock file (.stk) to the device file system to open in Power Core.

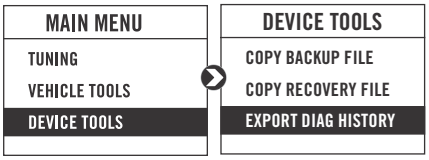
Select **Device Tools**>**Copy Recovery File**.




# EXPORT DIAG HISTORY

This menu allows you to export the diagnostic history log (a record of the most recent operations) to the file system for viewing or to send to technical support.

Select **Device Tools**>**Export Diag History**.

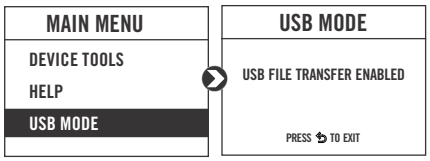


# USB MODE

This menu allows you to connect your Power Vision to your computer and enables sending and receiving files.

1 Connect the Power Vision to your computer using the included USB cable. The Power Vision will automatically enter USB Mode.
OR
From the Main Menu, select **USB Mode**.

2 Transfer the desired files to your computer or to the Power Vision.




# USING EEPROM CONFIGURATION

This menu allows you to enable/disable EEPROM options on your bikes ECU. Features available are based on the software level and model of the connected ECU and can vary significantly between them.

**Note:** Some features require a feature license in order to adjust.

**Note:** Quick Tune is only available after performing the one-time installation in the Getting Started section.

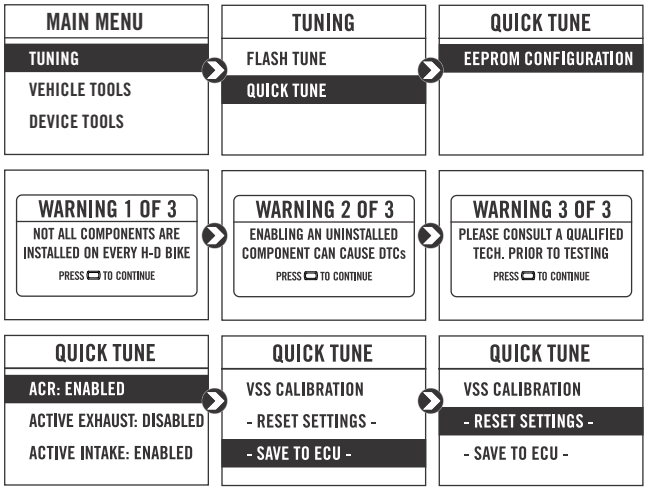
1 From the Main Menu, select **Tuning**>**Quick Tune>EEPROM Configuration**.
**Warning 1 of 3:** Not all components are installed on every Harley-Davidson bike.
**Warning 2 of 3:** Enabling an uninstalled component can cause DTCs.
**Warning 3 of 3:** Please consult a qualified tech prior to testing.

2 Using the up/down arrows, scroll through the Quick Tune list.

3 Press the **Enter** button to open the value adjustment window for a particular EEPROM option. Use the up/down arrows to edit the current value. Press the **Enter** button to confirm the new value.

4 Once your changes are complete, scroll down and select **- Save to ECU -** to save your changes. You must select **- Save to ECU -** in order to write the new settings back to the ECU.

5 If needed, select **- Reset Settings -** to reset all values to those initially read upon entering the menu.



# USING THE POWER VISION UPDATE CLIENT

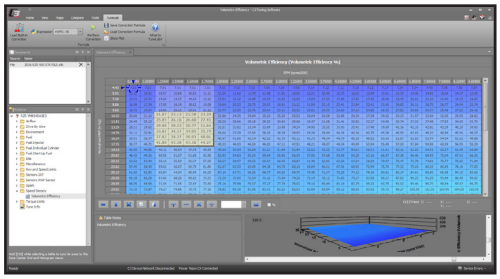
**This stand alone application will launch the Update Client allowing you to update your Power Vision with the latest firmware, retrieve additional tunes, or restore the Power Vision to the original Dynojet factory settings.**

1 Connect the Power Vision to your computer using the included USB cable.
2 Navigate to the POWERVISION drive attached to your computer and run the **Update.exe** file.
3 Click **Update** to load the current firmware. If the Update button is grayed out, your Power Vision already has the latest firmware.
4 Click **Restore** to reload all original Dynojet tune and stock files.
5 Click **Get Tunes** to open the Dynojet Tune Finder. Follow the instructions to Upload your PV_Info.txt file and retrieve new tunes.
6 Click **Manual Firmware Update** to navigate to and load a version of firmware already saved on your computer.

# INSTALLING THE POWER CORE SOFTWARE

**Download the Power Core software and take tuning to a whole new level.**

**Note: Downloading the Power Core software is optional and not necessary to use the Power Vision.**



1 Go to www.dynojet.com.
2 From the top navigation menu, select **Support**>**Downloads**.
3 Click **Power Vision 3**.
4 Click the **Software** drop-down and download the Dynojet Power Core software.
5 Double-click the saved file to begin installation. Follow the on-screen prompts. Refer to the Power Core Help for more information.

# TRUTH IN PERFORMANCE

800-992-4993 - DYNOJET.COM

© 2025-2026 DYNOJET RESEARCH ALL RIGHTS RESERVED