

POWER VISION

Installation Guide for:

PV3-1605C / PV3-1615C / PV3-1616C /
PV3-1617C / PV3-1622C

Model Coverage:

2016-2017 Honda CRF1000L Africa Twin

2014-2018 Honda CB500 / CBR500

2013-2022 Honda CBR600RR

2014-2022 Honda CB650 / CBR650

PARTS LIST



- | | | | |
|---|-----------------|---|-----------------|
| 1 | POWER VISION | 2 | VELCRO |
| 1 | REFLASH HARNESS | 2 | DYNOJET DECAL |
| 1 | USB CABLE | 1 | E.O FRAME LABEL |

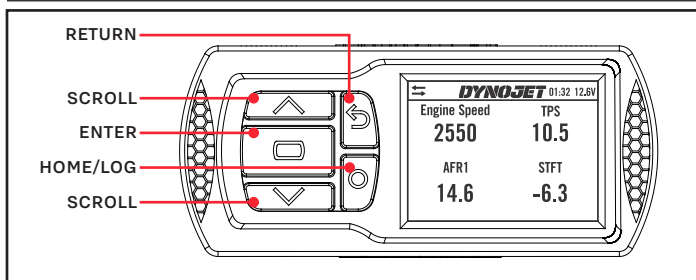
PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION



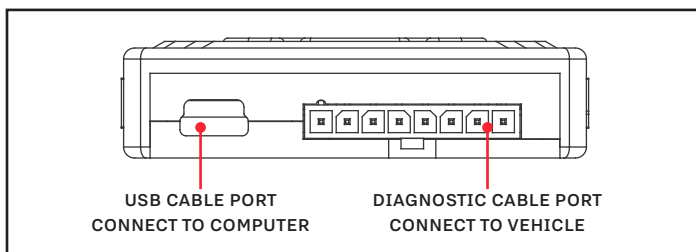
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INTRODUCTION



POWER VISION OVERVIEW—FRONT VIEW



POWER VISION OVERVIEW—SIDE VIEW

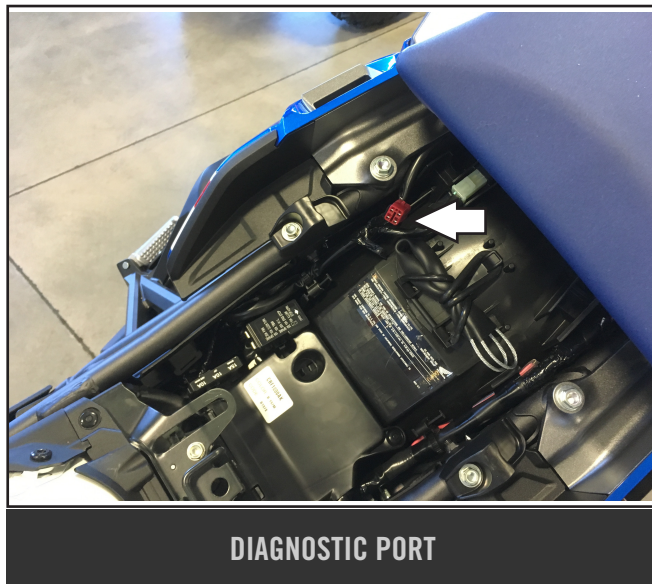
Thank you for purchasing the Power Vision from Dynojet Research. At Dynojet, our mission is to make every ride the ultimate ride. The Power Vision allows you to tune your stock ECU to achieve optimal performance from your vehicle.

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 PV3's monitors by adding the accessory available at www.dynojet.com.

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

INSTALLING THE POWER VISION



DIAGNOSTIC PORT

- 1 Secure the Power Vision to the vehicle using the supplied Velcro. Make sure the Power Vision will not interfere with the operation and steering 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 dashboard or handlebars and gain access to customizable full-color gauge screens, along with data logging and troubleshooting screens.

- 2 Attach the diagnostic cable to the diagnostic port on the Power Vision and to the diagnostic port on the vehicle. On most Honda motorcycles this is located under the main seat.

Note: Leave the 4-pin CAN connector disconnected. This connector is only used with the Wideband module for Honda (P/N WB-PV16-1).

- 3 Affix the supplied CARB E.O. label to a conspicuous area. Next to the original emissions label is a good location. On many of these models this is on the downtube of the frame. Make sure to clean the surface before attaching.

GETTING STARTED

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:

Go to www.dynojet.com/pvtunes to download stock and tune files.

File State 2:

Go to www.dynojet.com/pvtunes to download stock and tune files.

File State 3:

All required files found. The Power Vision is ready to flash a tune to the connected vehicle.

GETTING STARTED

NO COMPATIBLE STOCK FILES

To download tunes, visit:
TUNES.DYNOJET.COM/
PRESS  TO SEARCH AGAIN

GETTING STARTED

NO COMPATIBLE TUNE FILES

To download tunes, visit:
TUNES.DYNOJET.COM/
PRESS  TO SEARCH AGAIN

READY TO FLASH

ALL REQUIRED FILES FOUND

PRESS  TO READ ECU
PRESS  TO EXIT WIZARD

FLASHING YOUR VEHICLE

The Power Vision must be paired to the connected vehicle ECU to function properly.

Note: Once paired to the vehicle ECU, the Power Vision will not work on another vehicle without purchasing a tune license.

- 1 From the Main Menu, select **Flash Tune**.
- 2 Select the tune file (.djt) and press **Enter** to view the Tune Info. The Tune Info screen contains the technical notes showing what was changed in the tune.

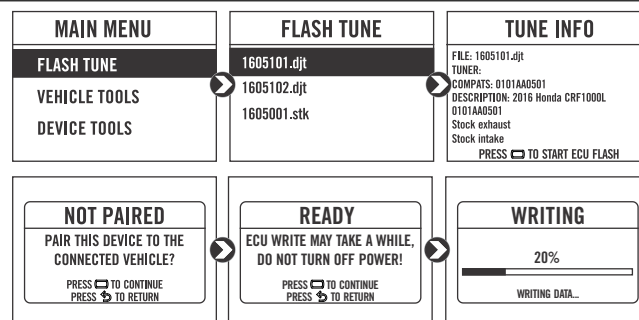
Note: The PV3 filters out files which are not compatible with the connected vehicle based on year/trim delivered direct from the factory and result in varied tune Compat and CheckSum within the ECU. Additional files may be visible on the device when connected via USB or on the website; however, the PV3 will only display files which directly fit your vehicle.

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 accept the tune, or restore the ECU to original stock (.stk) file, and pair the Power Vision to the vehicle.

Note: Pair to vehicle will only happen on the first flash.

- 4 Press **Enter** to pair and lock the Power Vision to the ECU and to begin the flash. Do not turn off the key switch or disconnect the Power Vision during the flash.
- 5 After the flash is complete, turn the key off and wait 45 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**.

MAIN MENU	VEHICLE TOOLS	VEHICLE INFO
FLASH TUNE	VEHICLE INFORMATION	PAIRED VEHICLE: 4XAAE876GB69588
VEHICLE TOOLS	DIAGNOSTICS	VIN: 2200010143501EAA
DEVICE TOOLS	DELETE DATA LOGS	MODEL ID:
		ECU SN: EC13E67305E5875A
		TUNE COMPAT: 0801EB0402
		CSUM COMPAT:

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**.

MAIN MENU	VEHICLE TOOLS	DIAGNOSTICS
FLASH TUNE	VEHICLE INFORMATION	ACTIVE CODES
VEHICLE TOOLS	DIAGNOSTICS	HISTORIC CODES
DEVICE TOOLS	DELETE DATA LOGS	CLEAR CODES

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**.

MAIN MENU	VEHICLE TOOLS	RESTORE ECU
FLASH TUNE	DIAGNOSTICS	RESTORE ECU TO ORIGINAL STK FILE?
VEHICLE TOOLS	DELETE DATA LOGS	PRESS TO CONTINUE
DEVICE TOOLS	RESTORE ECU	PRESS TO RETURN

RESET ADAPTIVES

This menu allows you to clear the trims which the narrowband sensor has learned throughout prior drive cycles.

Select **Vehicle Tools>Reset Adaptives**.

MAIN MENU	VEHICLE TOOLS	VEHICLE TOOLS
FLASH TUNE	RESET ADAPTIVES	ADAPTIVES RESET
VEHICLE TOOLS	RELEARN DCT	PRESS TO RETURN
DEVICE TOOLS	SET DYNO MODE	

RELEARN DCT

Use Relearn DCT when the MT/AT shift lights are illuminated solid on the dash or if the vehicle's transmission needs service or a module was replaced. The DCT relearned sequence does not show up right away.

1 Verify the vehicle is up to operating temperature.

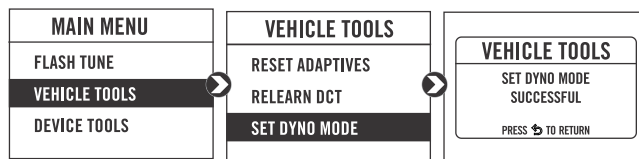
2 Select **Vehicle Tools>Relearn DCT**.

MAIN MENU	VEHICLE TOOLS	VEHICLE TOOLS
FLASH TUNE	RESET ADAPTIVES	DCT RELEARNED
VEHICLE TOOLS	RELEARN DCT	PRESS TO RETURN
DEVICE TOOLS	SET DYNO MODE	

SET DYNO MODE

This menu allows you to have the vehicle ignore the front wheel speed sensor(s) for stationary dyno tuning while allowing the transmission to shift as normal.

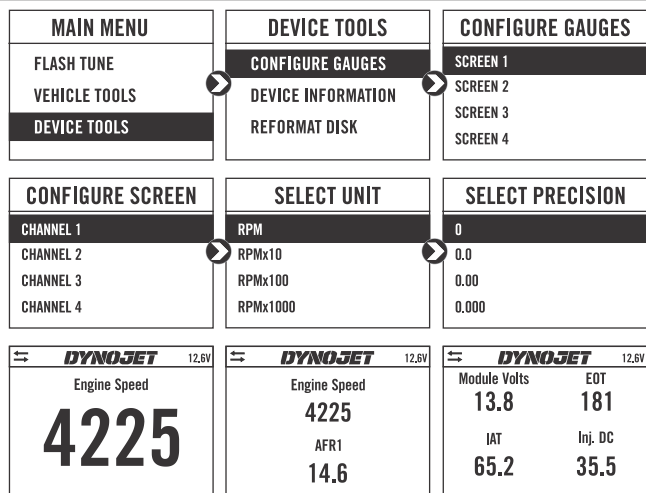
Select **Vehicle Tools>Set Dyno Mode**.



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 Wideband, AFR, and Boost. 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.

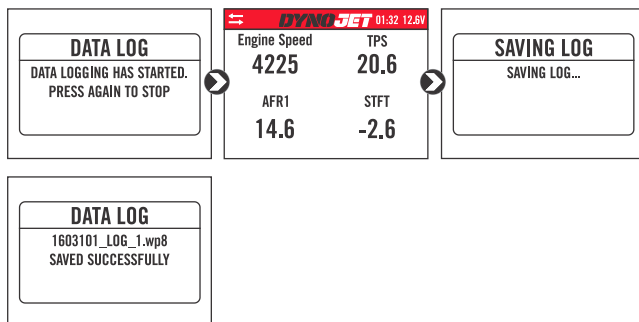
- 1 From the Main Menu, select **Device Tools>Configure Gauges**.
- 2 Select a gauge screen and press **Enter**.
- 3 Select a channel and press **Enter**.
- 4 Select a channel from the list and press **Enter**.
- 5 Select the precision or units for that channel and press **Enter**.
- 6 Continue setting 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 with excessive knock or a throttle blade closure 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***.

MAIN MENU	VEHICLE TOOLS	LOG FILES
FLASH TUNE	DIAGNOSTICS	*Delete All Logs*
VEHICLE TOOLS	DELETE DATA LOGS	1603101_LOG_1.wp8
DEVICE TOOLS	RESTORE ECU	1603101_LOG_2.wp8
		1603101_LOG_3.wp8

VIEWING THE DEVICE INFORMATION

This menu allows you to view the device firmware version, serial number, and stock code.

Select **Device Tools>Device Information**.

MAIN MENU	DEVICE TOOLS	DEVICE INFORMATION
FLASH TUNE	CONFIGURE GAUGES	DYNOJET POWER VISION
VEHICLE TOOLS	DEVICE INFORMATION	FW VERSION: 5.35.8885.4648
DEVICE TOOLS	REFORMAT DISK	SERIAL NUMBER: PV00029757
		STOCK CODE: 76125082

REFORMATTING THE DISK

This menu allows you to reformat the disk and erase all data.

Select **Device Tools>Reformat Disk**.

MAIN MENU	DEVICE TOOLS	REFORMAT DISK
FLASH TUNE	CONFIGURE GAUGES	ALL DATA WILL BE ERASED
VEHICLE TOOLS	DEVICE INFORMATION	PRESS TO CONTINUE
DEVICE TOOLS	REFORMAT DISK	PRESS TO RETURN

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.

DEVICE TOOLS	DEVICE SETTINGS	ROTATE SCREEN
DEVICE INFORMATION	ROTATE SCREEN	THIS WILL FLIP THE SCREEN
REFORMAT DISK	BRIGHTNESS	PRESS TO CONTINUE
SETTINGS		PRESS TO RETURN

DEVICE TOOLS	DEVICE SETTINGS	BRIGHTNESS
DEVICE INFORMATION	ROTATE SCREEN	20%
REFORMAT DISK	BRIGHTNESS	PRESS TO CONTINUE
SETTINGS		PRESS TO RETURN

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 Honda.
- 5 Save the file to your device.
- 6 Select **Device Tools>Update Device**.

MAIN MENU	DEVICE TOOLS	UPDATE DEVICE
FLASH TUNE	REFORMAT DISK	PV3_5.35.8885.4648.dfu
VEHICLE TOOLS	SETTINGS	
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**.

MAIN MENU	DEVICE TOOLS
FLASH TUNE	UPDATE DEVICE
VEHICLE TOOLS	COPY BACKUP FILE
DEVICE TOOLS	COPY RECOVERY 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**.

MAIN MENU	DEVICE TOOLS
FLASH TUNE	UPDATE DEVICE
VEHICLE TOOLS	COPY BACKUP FILE
DEVICE TOOLS	COPY RECOVERY FILE

EXPORT DIAG HISTORY

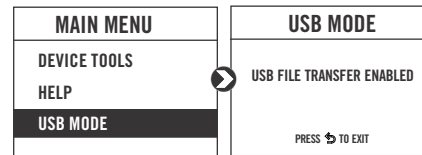
This menu allows you to export the diagnostic history log (a record of the most recent operations) to the file system for viewing or to send to technical support.
Select **Device Tools>Export Diag History**.

MAIN MENU	DEVICE TOOLS
FLASH TUNE	COPY BACKUP FILE
VEHICLE TOOLS	COPY RECOVERY FILE
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 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.

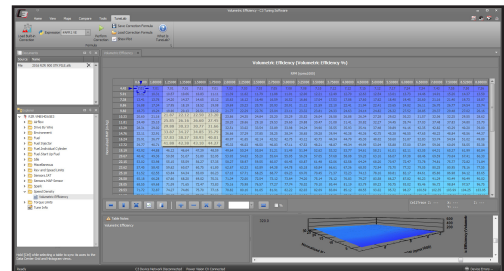


INSTALLING THE POWER CORE SOFTWARE

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.

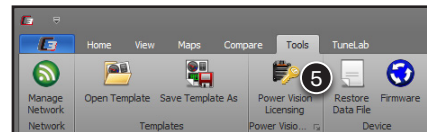
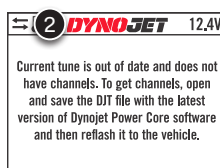
- 1 Go to www.dynojet.com.
- 2 From the top navigation menu, select **Support>Downloads**.
- 3 Click **Power Vision 3**.
- 4 Click the **Software** drop-down and download the Dynojet Power Core software.
- 5 Double-click the saved file to begin installation. Follow the on-screen prompts. Refer to the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



POWER VISION TUNE LICENSING

Use the following instructions to license your Power Vision for Honda. You must use Power Core Software version 2.0 or later.

1 Flash the ECU with an STK file. This will not pair the device if you haven't paired already. You must flash an STK file first before continuing with licensing.



2 After completing the flash, power cycle the ECU two times to confirm the PV_INFO is regenerated successfully. The Power Vision will display arrows when the PV_INFO file has been generated successfully.

3 Using the USB cable, plug the Power Vision into your PC.

4 Open C3 Tuning Software.

5 From the Tools ribbon, click **Power Vision Licensing**.

6 Verify you have tokens in the Available Tokens box.

Note: There must be tokens in the account to purchase a license. Purchase and manage your tokens in your account.

7 Click **Load PV Info**. You must complete step 1 for Load PV Info to work.

8 Verify you have selected the correct stock file (*.stk).

Note: You are about to convert a token into a tune license. Verify you have selected the correct stock (*.stk) file to create a license for. This operation cannot be undone.

9 Verify the VIN, ECU ID, and Tune Compat fields are populated then click **Create License**. These fields will be populated with data if the file is correct.

Note: If you try to create a license and both the VIN and ECU ID are blank, you did not flash an STK first. Repeat steps 1-9.

Note: The VIN is generated and will match the PV_INFO file but will not match the actual VIN of the vehicle.

10 Verify the vehicle VIN and ECU ID are correct and click **Yes** to proceed.

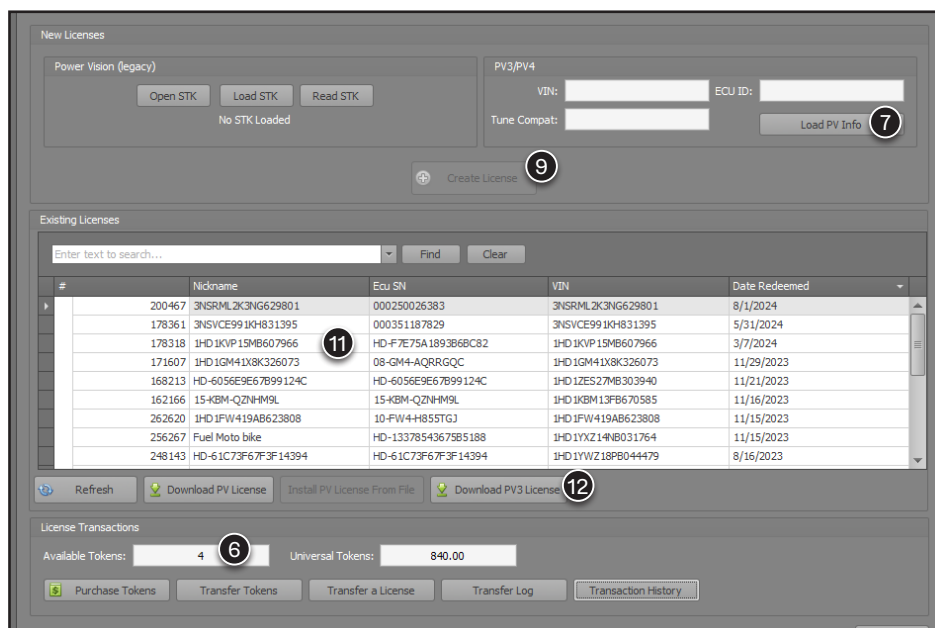
11 Select the license from the list.

12 Download the PV license to your device or to your computer.

13 Verify the license is saved to the device by using Windows File Explorer to browse the POWERVISION drive.

If you delete this file from the device, access the file by clicking the license and reapplying it.

14 When licensing multiple vehicles, make sure you perform a key ON/OFF cycle on the last vehicle before trying to license the next vehicle.





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