POWER VISION

Installation Guide for: Polaris

Model Coverage:
2015-2022 Polaris RZR 900/S/4
2014-2022 Polaris RZR XP 1000/4
2013-2019 Polaris Ranger XP900
2016-2022 Polaris General 1000/4
2016-2021 Polaris RZR XP Turbo
2020-2022 Polaris Pro XP
2017-2022 Polaris Ranger XP1000
2016-2022 Polaris RZR S 1000
2017-2022 Polaris Sportsman 450/570/850/1000
2017-2022 Polaris Scrambler 850/1000
2017-2021 Polaris Ace 150/Ace 500/Ace 570/Ace 900 XC
2017-2022 Polaris RZR 570
2017-2022 Polaris Ranger 150/Ranger 500/Ranger 570
2018-2022 Polaris RZR RS1
2020-2022 Polaris Ranger 1000

PARTS LIST

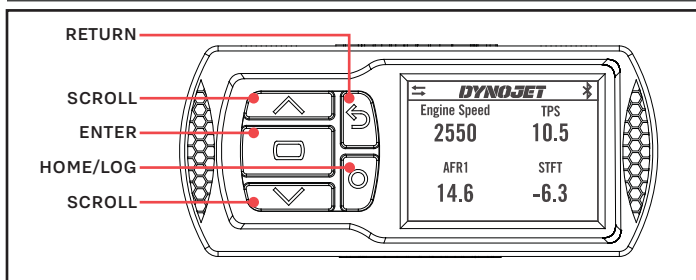|				
1	POWER VISION	2	VELCRO
1	REFLASH HARNESS	2	DYNOJET DECAL
1	USB CABLE		

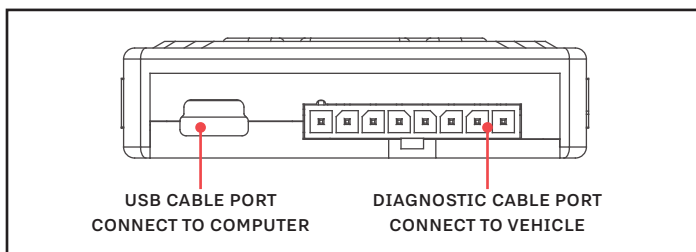**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

INTRODUCTION

Labels: RETURN, SCROLL, ENTER, HOME/LOG, SCROLL

Screen: DYNOJET, Engine Speed 2550, TPS 10.5, AFR1 14.6, STFT -6.3

POWER VISION OVERVIEW—FRONT VIEW

USB CABLE PORT CONNECT TO COMPUTER

DIAGNOSTIC CABLE PORT CONNECT TO VEHICLE

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 and integrated belt temperature can be added as channels to the PV3's monitors by adding the accessories available at www.dynojet.com.

For state of the art technical support, please visit www.dynojet.zendesk.com.

INSTALLING THE POWER VISION

INSTALL 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 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.
Ranger Models: located under the seat.
RZR Models: located under the front cover near the coolant reserve bottle.
RZR PRO XP Models: located under the steering wheel.
General Models: located under the front hood cover.

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:
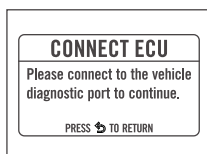
    File State 1: No compatible tune or stock files.

    File State 2: No compatible tune files.

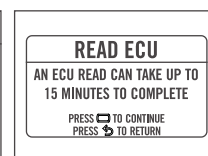   **File State 3**: All required files found.

3 Gauges are displayed.

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

CONNECT ECU
Please connect to the vehicle diagnostic port to continue.
PRESS ↰ TO RETURN

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

GETTING STARTED
NO COMPATIBLE STOCK FILES
An ECU read is required to begin the tuning process.
PRESS ☐ TO READ ECU
PRESS ↰ TO EXIT WIZARD

READ ECU
AN ECU READ CAN TAKE UP TO 15 MINUTES TO COMPLETE
PRESS ☐ TO CONTINUE
PRESS ↰ TO RETURN

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

GETTING STARTED
NO COMPATIBLE TUNE FILES
To download tunes, visit:
TUNES.DYNOJET.COM/
PRESS ☐ TO SEARCH AGAIN

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

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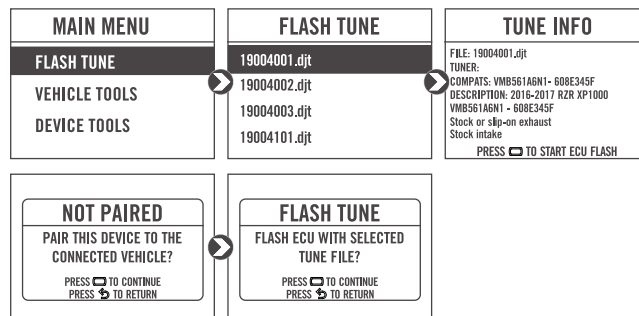
1 From the Main Menu, select **Flash Tune**.

2 Select the tune file (.djt) and press **Enter** to view the Tune Info.

    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 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.

MAIN MENU
FLASH TUNE
VEHICLE TOOLS
DEVICE TOOLS

FLASH TUNE
19004001.djt
19004002.djt
19004003.djt
19004101.djt

TUNE INFO
FILE: 19004001.djt
TUNER:
COMPATS: VMB561A6N1- 608E345F
DESCRIPTION: 2016-2017 RZR XP1000
VMB561A6N1 - 608E345F
Stock or slip-on exhaust
Stock intake
PRESS ☐ TO START ECU FLASH

NOT PAIRED
PAIR THIS DEVICE TO THE CONNECTED VEHICLE?
PRESS ☐ TO CONTINUE
PRESS ↰ TO RETURN

FLASH TUNE
FLASH ECU WITH SELECTED TUNE FILE?
PRESS ☐ TO CONTINUE
PRESS ↰ TO RETURN

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: DEVICE NOT PAIRED
VEHICLE TOOLS	DIAGNOSTICS	VIN: 56KCCVAA4E3314940
DEVICE TOOLS	READ ECU	MODEL ID: F00HM00186
		TUNE COMPAT: VMB8F0A6B0
		CSUM COMPAT: 9586AEB4

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	READ ECU	CLEAR CODES

READING THE ECU

This menu allows you to read the ECU. This process takes about fifteen minutes.
Select **Vehicle Tools**>**Read ECU**.

MAIN MENU	VEHICLE TOOLS	READ ECU
FLASH TUNE	VEHICLE INFORMATION	AN ECU READ CAN TAKE UP TO 15 MINUTES TO COMPLETE
VEHICLE TOOLS	DIAGNOSTICS	
DEVICE TOOLS	**READ ECU**	PRESS ☐ TO CONTINUE
		PRESS ↩ TO RETURN

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	READ ECU	RESTORE ECU TO ORIGINAL STK FILE?
VEHICLE TOOLS	DELETE DATA LOG	
DEVICE TOOLS	**RESTORE ECU**	PRESS ☐ TO CONTINUE
		PRESS ↩ TO RETURN

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 four configurable channels. Monitor channels such as Wideband, AFR, Boost, and integrated belt temperature sensor. 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.

MAIN MENU	DEVICE TOOLS	CONFIGURE GAUGES
FLASH TUNE	**CONFIGURE GAUGES**	**SCREEN 1**
VEHICLE TOOLS	DEVICE INFORMATION	SCREEN 2
DEVICE TOOLS	REFORMAT DISK	SCREEN 3
		SCREEN 4

CONFIGURE SCREEN	SELECT UNIT	SELECT PRECISION
CHANNEL 1	**RPM**	**0**
CHANNEL 2	RPMx10	0.0
CHANNEL 3	RPMx100	0.00
CHANNEL 4	RPMx1000	0.000

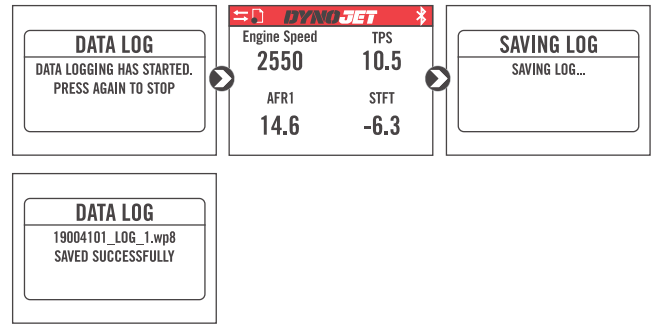| DYNOJET		DYNOJET		DYNOJET	
Engine Speed	TPS	Boost	TPS	Voltage	ECT
2550	10.5	9.5	37.9	13.8	174.5
AFR1	STFT	Post TB CAT	WGDC	Load Req	EGT
14.6	-6.3	107	47.5	68	1050

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.
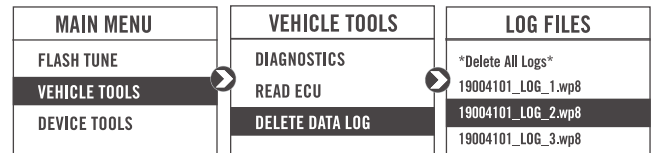
DATA LOG
DATA LOGGING HAS STARTED. PRESS AGAIN TO STOP

DYNOJET — Engine Speed / TPS
Engine Speed **2550** — TPS **10.5**
AFR1 **14.6** — STFT **-6.3**

SAVING LOG
SAVING LOG...

DATA LOG
19004101_LOG_1.wp8 SAVED SUCCESSFULLY

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
FLASH TUNE
VEHICLE TOOLS
DEVICE TOOLS

VEHICLE TOOLS
DIAGNOSTICS
READ ECU
DELETE DATA LOG

LOG FILES
Delete All Logs
19004101_LOG_1.wp8
19004101_LOG_2.wp8
19004101_LOG_3.wp8

VIEWING THE DEVICE INFORMATION

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

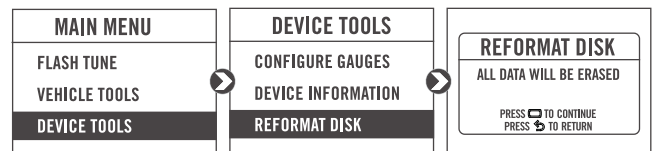Select **Device Tools**>**Device Information**.

MAIN MENU
FLASH TUNE
VEHICLE TOOLS
DEVICE TOOLS

DEVICE TOOLS
CONFIGURE GAUGES
DEVICE INFORMATION
REFORMAT DISK

DEVICE INFORMATION
DYNOJET POWER VISION FW VERSION: 2.11.7703.23803 SERIAL NUMBER: PV00072536 STOCK CODE: 76125052

REFORMATTING THE DISK

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

Select **Device Tools**>**Reformat Disk**.

MAIN MENU
FLASH TUNE
VEHICLE TOOLS
DEVICE TOOLS

DEVICE TOOLS
CONFIGURE GAUGES
DEVICE INFORMATION
REFORMAT DISK

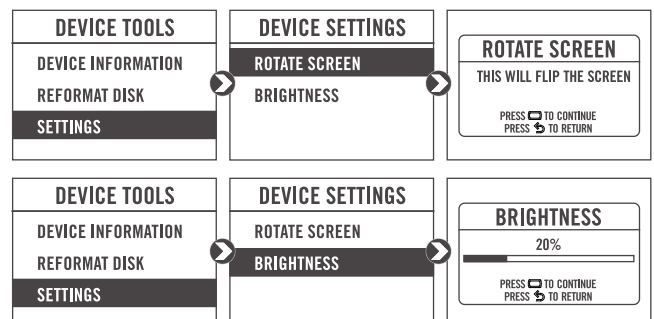| REFORMAT DISK |
|---|
| ALL DATA WILL BE ERASED |
| PRESS ▭ TO CONTINUE PRESS ↩ TO RETURN |

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!

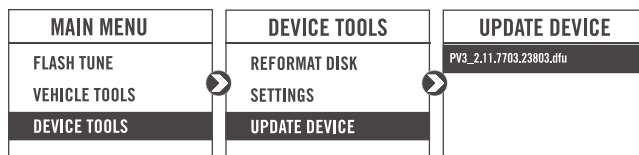Select **Device Tools**>**Settings**>**Rotate Screen** to flip the screen.

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

DEVICE TOOLS
DEVICE INFORMATION
REFORMAT DISK
SETTINGS

DEVICE SETTINGS
ROTATE SCREEN
BRIGHTNESS

ROTATE SCREEN
THIS WILL FLIP THE SCREEN
PRESS ▭ TO CONTINUE PRESS ↩ TO RETURN

DEVICE TOOLS
DEVICE INFORMATION
REFORMAT DISK
SETTINGS

DEVICE SETTINGS
ROTATE SCREEN
BRIGHTNESS

BRIGHTNESS
20%
PRESS ▭ TO CONTINUE 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 Polaris.
5 Save the file to your device.
6 Select **Device Tools**>**Update Device**.

MAIN MENU	DEVICE TOOLS	UPDATE DEVICE
FLASH TUNE	REFORMAT DISK	PV3_2.11.7703.23803.dfu
VEHICLE TOOLS	SETTINGS	
DEVICE TOOLS	UPDATE DEVICE	

EXPORT DIAGNOSTICS

This menu allows you to create a BIN file containing device information used by Dynojet Tech Support.
1 Select **Device Tools**>**Export Diagnostics**.
2 If requested by Dynojet Tech Support, connect your Power Vision to a computer and email the BIN file to PV3tech@dynojet.com.

MAIN MENU	DEVICE TOOLS	FILE GENERATED
FLASH TUNE	UPDATE DEVICE	DIAGNOSTICS FILE GENERATED
VEHICLE TOOLS	GENERATE UNLOCK FILE	
DEVICE TOOLS	EXPORT DIAGNOSTICS	PRESS ☐ TO CONTINUE / PRESS ☐ TO RETURN

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.
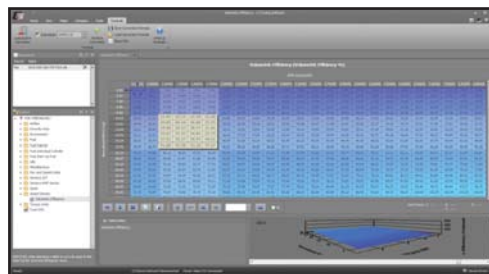6 Click **Manual Firmware Update** to navigate to and load a version of firmware already saved on your computer.

DYNOJET ® – X

Update

Restore | Get Tunes

Manual Firmware Update

Help   Firmware Version: 2.11.7703.23803 S/N: PV00029757   1.0.3.0

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.

PUSH THE LIMIT