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Read Me

Safety Warning & Caution

Throughout this User Manual you will see important messages regarding your safety or the protection of your vehicle. These messages are designated by the words WARNING, CAUTION, or NOTICE.

⚠️ WARNING

A WARNING indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠️ CAUTION

A CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

A NOTICE indicates a condition that could cause damage to the product or your vehicle.

NOTE

A NOTE is a step or reminder that is important to remember when installing or using the product.

The product you have purchased is a high-performance product. As such, it does present some risks of which you should be fully aware. Do not use this product until you have carefully read the following safety information and the Owner Agreement.

⚠️ WARNING: Prior to use, read the User Manual. Misuse of the device could result in traffic accidents, death or serious injury, and/or damage to your vehicle. POWERTEQ IS NOT RESPONSIBLE FOR AND SHALL HAVE NO LIABILITY TO YOU FOR ANY CLAIMS ARISING OUT OF OR RELATING TO ANY MISAPPLICATION OF THE DEVICE, CUSTOM TUNES, IMPROPER USE OF CALIBRATIONS, MALFUNCTION OR LACK OF LEGAL COMPLIANCE FOR CUSTOM PROGRAMS CREATED BY THIRD PARTIES.
Safety Guidelines

Before using device, read and understand the user manual, including these additional safety instructions. Failure to do so could result in DEATH or SERIOUS INJURY.

• Do not exceed legal speed limits on public roadways. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
• Use any enhanced speed capabilities of this product only in closed circuit, legally sanctioned racing environments expressly for this purpose. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
• Do not operate the device while driving. Distracted driving could result in traffic accidents, death or serious injury, and/or damage to your vehicle.
• Always perform all adjustments or changes while stopped. Changing a setting while driving can interfere with your attention to roadway conditions and could result in injury or vehicle damage or both.
• Do not stack products. “Stacking” performance-enhancing devices or other improper installation can cause power train failure on the road. Other products may have features incompatible with your device. Follow all installation and operating instructions.
• Some modifications may affect other parts of your vehicle. For example, if you remove/adjust the speed limiter in your vehicle, be sure your tires and other components are rated for the increased speeds they will have to withstand. Not doing so can lead to loss of vehicle control. Modify the speed limiter only for use in closed circuit, legally sanctioned racing environments, not for use on public roadways.

NOTE: The stickers included in some products apply to products that have received CARB exemption for emissions compliance.

This product may meet the emissions compliance requirements of the California Air Resources Board and Federal Environment Protection Agency. If so, it is legal for sale and use on pollution-controlled vehicles operated on public streets and highways. The device must be installed and operated according to the instruction provided in this user manual. Included with these compliant products is a sticker for you to keep in your vehicle. You can either adhere it somewhere on the vehicle (e.g., the inside end of driver’s door) or simply store it in your glove box. The purpose of these stickers is to inform anyone who may have questions regarding the use of this product and how it affects emissions. For example, it would be something to show an emissions technician if questioned when taking your vehicle in for an emissions check to let him/her know the product is CARB emissions compliant.
Update Software

Downloading Update Agent 1.0

The Update Agent may be used to update the device via the USB connection. The software can be downloaded through the internet. This process currently can only be done on a Windows computer, **Mac devices are not supported**.

**NOTE:** It is recommended to install Update Agent 1.0 on a laptop computer for best accessibility (you will need to connect the computer to the vehicle’s OBDII port to perform updates).

**STEP 1** - Go to a computer with internet access, and go to one of the following websites: superchips.com - diablosport.com - edgeproducts.com

**STEP 2** - Go to the website’s Updates/Downloads tab and click the link “Download Update Agent 1.0” and save the .exe file to a findable location on the computer.

**STEP 3** - Run the .exe installation program that you downloaded, and read through the license terms and conditions, check the agreement box and click Install. Continue through installation until it says Installation Successfully Completed. Click Close to finish the process.

**NOTE:** If given a Security Warning pop-up upon install, click run to proceed. Also, if asked, install Holley USBCAN Driver as well as Update Agent 1.0. This driver is required to connect to the device.
**Product Updates**

This device has the ability to update via a USB connection. A USB to OBDII update cable is required to perform the update. **It is recommended that a battery charger is attached and turned on during the update process.**

**NOTE:** The Pulsar must be installed into a vehicle before updating.

**STEP 1** - Take computer with Update Agent 1.0 installed to the location of the vehicle with the Pulsar device.

**STEP 2** - Turn the vehicle’s ignition to the RUN position (do not start the engine) and then open Update Agent 1.0 on the computer, and plug in USB to OBDII cable into both the vehicle’s OBDII port and a USB port on the computer.

**STEP 3** - Update Agent 1.0 should automatically detect the Pulsar device, follow onscreen instructions until it checks for an update. If an update is available, click yes.

**NOTE:** If you have not yet registered for an account and/or signed in, you will be prompted to do so before you can proceed with the update.

**STEP 4** - Follow update steps as is shown onscreen. Do not power down the vehicle during the entire process unless prompted by the Update Agent. Once Update Agent 1.0 says “Your device is up-to-date,” click ok and disconnect the USB to OBDII cable.

**NOTICE:** Update Cable not included, must be purchased separately

**NOTE:** OBDII Port location may vary depending on vehicle
Installation 5.7L Hemi

Materials

![Pulsar Module]

- 3x - Washer
- 3x - Bolt

Required Tools

Flat Head Screw Driver  
1/2 Drive Ratchet  
10mm Socket  
8mm Socket  
Allen Wrench (provided)
ECM Removal

STEP 1 - Disconnect and remove the negative battery terminal.

STEP 2 - Locate the vehicle’s ECM.

2015-2018
Passenger Side Firewall

2019
Driver Side Battery

TIP: Remove the air filter housing for easier access.

Cut the (2) zip ties that fasten each connector harness to the metal bracket. (2015-18 Only)

STEP 3 - Use a flat head screw driver to press the lever lock towards the ECM. Gently lift up on the lever until you feel the lever release.

STEP 4 - Once the lever is released, lift it upward until it stops. Disconnect the connector from the ECM.

NOTE: Use steps 3 & 4 to remove both connectors.
Pulsar Installation

STEP 5 - Use a 10mm (8mm for 2019) socket to loosen the 3 screws that fasten the ECM to the bracket. (For 2019 only, remove the grounding cable lug and set aside.)

TIP: Hold the ECM with your other hand to prevent it from falling after the last screw is removed.

TIP: Place the stock screws into a zip lock bag and store it in the glove box.

STEP 6 - Orient Pulsar and the ECM as shown. The three holes (A, B, & C) will be used to fasten the assembly to the bracket.

STEP 7 - Align and insert the Pulsar’s bottom side connectors with the ECM connectors.

STEP 8 - While on a flat surface, apply enough pressure to fully seat the connectors. The top of the ECM connectors should sit flush with the Pulsar enclosure.
Pulsar Installation Cont’d

STEP 9 - Align the Pulsar assembly holes with the threaded holes on the vehicle mounting bracket. Insert the provided bolts (w/ washers) and fasten the assembly to the bracket using the provided Allen Wrench. Tighten until snug.

(For 2019 only, install the ground cable lug (removed in step 5) between the supplied washer and plastic housing.)

STEP 10 - Gently insert the truck harness connectors into the Pulsar connectors. Push the lever down until it locks into place.

STEP 11 - Re-install the air intake. (2015-2018 Only)

STEP 12 - Reconnect the negative battery terminal.
Installation 6.4L Hemi

Materials

Required Tools

Flat Head Screw Driver
1/2 Drive Ratchet
10mm Socket
10mm Wrench
Allen Wrench (provided)
ECM Removal

STEP 1 - Disconnect and remove the negative battery terminal.

STEP 2 - Locate the vehicle’s ECM. (1)

2015-2018

Cut the zip ties that fasten each connector harness to the metal bracket.

STEP 3 - Use a flat head screw driver to press the lever lock towards the ECM. Gently lift up on the lever until you feel the lever be released.

STEP 4 - Once the lever is released, lift it upward until it stops. Disconnect the connector from the ECM.

NOTE: Use steps 3 & 4 to remove both connectors.
Pulsar Installation

STEP 5 - Use a 10mm socket to loosen the 3 screws that fasten the ECM to the bracket.

*TIP: Hold the ECM with your other hand to prevent it from falling after the last screw is removed.*

*TIP: Place the stock screws into a zip lock bag and store it in the glove box.*

STEP 6 - Orient Pulsar and the ECM as shown. The three holes (A,B, & C) will be used to fasten the assembly to the bracket.

STEP 7 - Align and insert the Pulsar’s bottom side connectors with the ECM connectors.

STEP 8 - While on a flat surface, apply enough pressure to fully seat the connectors. The top of the ECM connectors should sit flush with the Pulsar enclosure.
STEP 9 - Replace Pulsar and ECM assembly over stock ECM mounting bracket and rotate clockwise (towards firewall) until assembly hole (c) lines up with upper stock bracket hole.

**Step 10** - Insert supplied bolts w/ washers into holes (a) and (c), tighten with the provided Allen Wrench until snug.

**Step 11** - Insert final bolt w/ washer into hole (b) and secure with supplied nut w/ washer. Tighten with the Allen Wrench and 10mm hand wrench until snug.

**STEP 12** - Gently insert the truck harness connectors into the Pulsar connectors. Push the lever down until it locks into place.

**STEP 13** - Reconnect the negative battery terminal.

**NOTE:** The lower hole on the mounting bracket should not be connected by a bolt to the assembly.
Controls

Steering Wheel Controls

Pulsar power levels and Option menus are navigated using the right-side steering wheel buttons. Refer to the information below to better understand how these buttons are utilized.

<table>
<thead>
<tr>
<th>Power Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2018</td>
</tr>
<tr>
<td>RES+</td>
</tr>
<tr>
<td>SET-</td>
</tr>
<tr>
<td>CANCEL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option Menus</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015-2018</td>
</tr>
<tr>
<td>RES+</td>
</tr>
<tr>
<td>SET-</td>
</tr>
<tr>
<td>CANCEL</td>
</tr>
</tbody>
</table>

Accelerator Pedal Controls

The accelerator pedal position is used to change the Tire Size and Axle Ratio values. When prompted to adjust the value displayed on the dash, push the pedal downward/upward to increase/decrease the value. Refer to the following example for more information.

<table>
<thead>
<tr>
<th>Pedal Position</th>
<th>Dash Display</th>
</tr>
</thead>
<tbody>
<tr>
<td>Units: Metric</td>
<td>Example 1</td>
</tr>
<tr>
<td>Ratio: 4.10</td>
<td>Example 2</td>
</tr>
<tr>
<td>Units: English</td>
<td>Example 3</td>
</tr>
</tbody>
</table>
Levels Explained

There are 8 available level options:

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Level 1 - STOCK</td>
<td>Stock</td>
</tr>
<tr>
<td>Level 2 - STOCK MDS-OFF</td>
<td>Stock MDS-OFF</td>
</tr>
<tr>
<td>Level 3 - FUEL ECONOMY</td>
<td>Fuel Economy</td>
</tr>
<tr>
<td>Level 4 - FUEL ECONOMY MDS-OFF</td>
<td>Fuel Economy MDS-OFF</td>
</tr>
<tr>
<td>Level 5 - TOW</td>
<td>Tow</td>
</tr>
<tr>
<td>Level 6 - TOW MDS-OFF</td>
<td>Tow MDS-OFF</td>
</tr>
<tr>
<td>Level 7 - PERFORMANCE*</td>
<td>Performance*</td>
</tr>
<tr>
<td>Level 8 - PERFORMANCE MDS-OFF*</td>
<td>Performance MDS-OFF*</td>
</tr>
</tbody>
</table>

*Minimum 91 octane fuel recommended.

In-Dash Level Indicators

Power levels are indicated on the vehicle’s in-dash display. Refer to the pics below to determine where the power level is viewed on your vehicle. *The Pulsar device utilizes your radio’s communication signals to interface with the gauge display.*

**Option A**

2015-2018 Dash Options

*Option B

2019 Dash Options

**Option A

* Power levels will be viewable as soon as Pulsar is installed.
** In order to view power levels or modify tire size/axle ratios, vehicle display settings will need to be modified.
Changing Power Levels (2015-2018)

**Dash Option A**

This dash display requires that menu settings be modified before Pulsar power levels can be adjusted and viewed.

**STEP 1** - Place the ignition into the RUN Position.

**STEP 2** - Using the left side buttons, enter the sub menu as shown below. Select the Audio option in the Info Line sub-menu. This will allow you to view the Pulsar Level while in the Main Menu.

**STEP 3** - Return to the main menu. The current radio station will be displayed. To view the current Pulsar power level, press the CANCEL button on the steering wheel. The level will be displayed.

**STEP 4** - To modify the power levels, use the RES+ and SET- buttons. The new level will appear in the radio station slot.

**Dash Option B**

**STEP 1** - Place the ignition into the RUN position.

**STEP 2** - Adjust the levels using the RES+ & SET- buttons. *The level indicator will show the current power level for 3 seconds.*

**STEP 3** - If you would like to temporarily view which level you are in, without changing levels, press CANCEL.
For 2019 vehicles, the dash display settings will need to be modified prior to adjusting and viewing Pulsar power levels.

**STEP 1** - Place the ignition into the RUN position.

**STEP 2** - Using the left side steering wheel controls, enter the Screen Setup menu.

**STEP 3** - Select the Center gauge as shown.

**STEP 4** - Scroll through the available options and select the Audio option. *(The Pulsar device utilizes your radio’s communication signals to interface with the gauge display.)*

**STEP 5** - Now that the display settings are complete, press the CANC (Cancel) button located on the right side steering wheel controls.

**STEP 6** - To toggle through the levels, press SET+ or SET-.
Tire Size

Tire Size Explained

The Pulsar allows you to adjust the vehicle’s tire size settings. This feature corrects the speedometer based on tire size inputs.

2015-2018 Tire Size

STEP 1 - With the ignition in the RUN position (Do Not Start), press and hold the CANC (Cancel) button for approximately 5 seconds. The option to modify the Tire Size is displayed.

STEP 2 - Press down on the accelerator pedal to change the N (No) to Y (Yes).

STEP 3 - While the Y (Yes) is displayed, press the RES+ button to select the option.
2015-2018 Tire Size Cont’d

**STEP 4** - Next, use the accelerator pedal to change the measure of units between English and Metric.

**STEP 5** - With the desired units displayed, press the RES+ button to select the Unit.

**STEP 6** - Use the accelerator pedal to adjust the number value, then press the RES+ button to select each value.

*NOTICE: If using English units, the value for the tire size should be set to the total height of the tire, not the rim (from the floor to the top of the tire).*
2019 Tire Size

STEP 1 - With the ignition in the RUN position (DO NOT start), press and hold the CANC (Cancel) button for approximately 5 seconds. The option to modify the Tire Size is displayed on the center gauge. (NOTE: The SET- button allows you to return to the previous option.)

STEP 2 - Press down on the accelerator pedal to change the N (No) to Y (Yes).

STEP 3 - While the Y (Yes) is displayed, press the SET+ button to select the option.

STEP 4 - Next, use the accelerator pedal to change the measure of units between English and Metric.

NOTICE: If using English units, the value for the tire size should be set to the total height of the tire, not the rim (from the floor to the top of the tire).

STEP 5 - With the desired units displayed, press the SET+ button to select the Unit.

STEP 6 - Use the accelerator pedal to adjust the number value, then press the SET+ button to select the displayed value.
Axle Ratio

Axle Ratio Explained

In addition to Tire Size, Pulsar also allows you to correct the speedometer by adjusting the axle ratio settings. To make these adjustments, refer to the following set of instructions based on your vehicle year:

2015-2018 Axle Ratio

STEP 1 - With the ignition in the RUN position (Do Not Start), press and hold the CANC (Cancel) button for approximately 5 seconds. The option to modify the Tire Size is displayed. If modifying Tire Size, refer to the previous section. If not, select N (No) to skip to Axle Ratio.

STEP 2 - Press down on the accelerator pedal to change the N (No) to Y (Yes).

STEP 3 - While the Y (Yes) is displayed, press the RES+ steering wheel button to select the option.

STEP 4 - Use the accelerator pedal to adjust the number value, then press the RES+ button to select the displayed value.
Once the desired Tire Size and/or Axle Ratio has been entered, you will be prompted to Program (Save the new settings). To save the settings, follow these instructions.

**STEP 5** - Press down on the accelerator pedal to change the N (No) to Y (Yes), then press the RES+ button to select the option.

**STEP 6** - Once the programming process has finished, you will be prompted to turn the key off.

Your vehicle settings are now updated and saved.
2019 Axle Ratio

STEP 1 - With the ignition in the RUN position (Do Not Start), press and hold the CANC (Cancel) button for approximately 5 seconds. *The option to modify the Tire Size is displayed. If modifying Tire Size, refer to the previous section. If not, select N (No) to skip to Axle Ratio.*

STEP 2 - Press down on the accelerator pedal to change the N (No) to Y (Yes).

STEP 3 - While the Y (Yes) is displayed, press the SET+ steering wheel button to select the option.

STEP 4 - Use the accelerator pedal to adjust the number value, then press the SET+ button to select the displayed value.

Once the desired Tire Size and/or Axle Ratio has been entered, you will be prompted to Program (Save the new settings). To save the settings, follow these instructions.

STEP 4 - Press down on the accelerator pedal to change the N (No) to Y (Yes), then press the SET+ button to select the option.

STEP 5 - Once the programming process has finished, you will be prompted to turn the key off. Your vehicle settings are now updated and saved.
FAQs

Frequently Asked Questions

Question: Why does the power level flicker? Is this normal?
Answer: Yes. This is due to the way Pulsar has to “piggy back” onto the existing communication lines.

Question: Can I adjust power levels when cruise control is on?
Answer: No, only when cruise control is off.
NOTE: Cruise control can be used as normal, just not when adjusting power levels and vise versa.

Question: Why is the ECO Light still on when I am in a power level where MDS is disabled?
Answer: The ECO light illuminates when the vehicle is being driven economically. The light is not tied directly to MDS functionality. It will still illuminate when Pulsar disables MDS.

Question: Should I remove the Pulsar prior to going to the dealer?
Answer: Yes, please remove the Pulsar as to eliminate it from the system so they can perform any updates or services.

Question: How do I check what level I am on when cruise control is off?
Answer: Simply press CANC on power steering keypad.

Question: Can I “stack” or use other tuners with this device?
Answer: No, please do not use any other tuners when the Pulsar is in use or installed. Stacking tuners with the Pulsar may cause serious damage to the vehicle.
For additional questions not found in the user guide call:

**Powerteq Technical Support: (801)-476-3343** 6:00 am - 5:00 pm MST

To expedite your support call, please have your Vehicle Information, Part Number, and Serial Number ready prior to calling Technical Support.