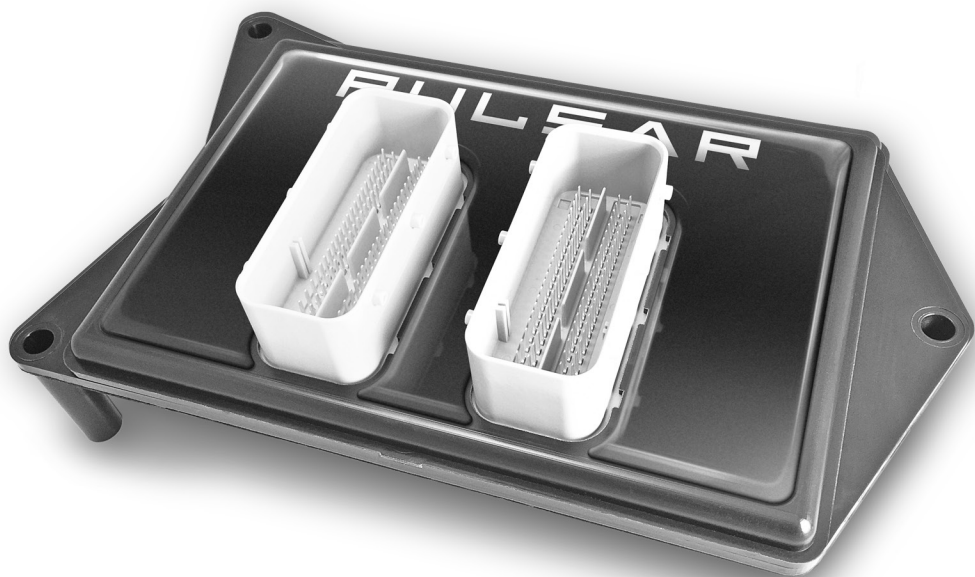


PULSAR

User Manual

Jeep® Wrangler® JL/JT



Jeep®

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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



WARNING

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 recieved 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**.

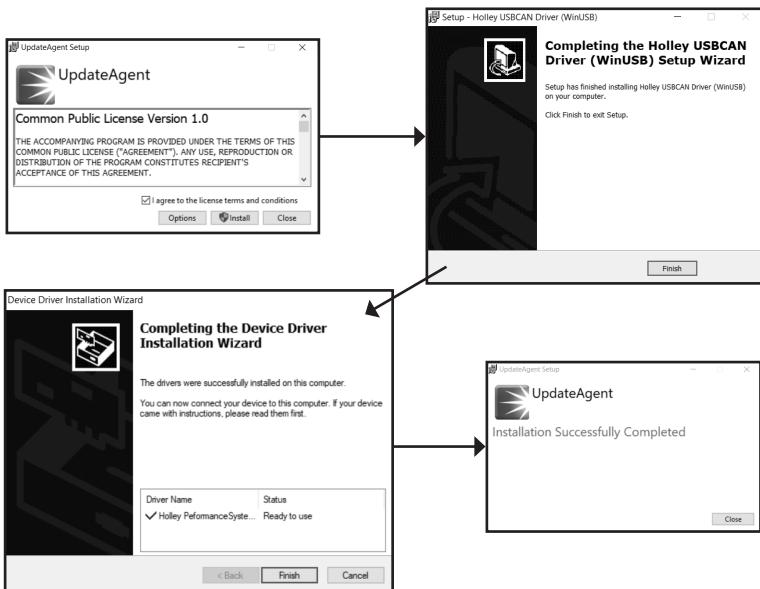
NOTE: *It is recommended to install the Update Agent 1.0 on a laptop computer for best accessibility (you will need to connect the computer to the vehicle's OBDII port to perform updates).*

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.

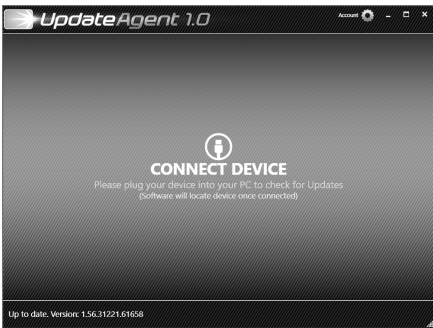
STEP 1 - Take computer with Update Agent installed to the location of the vehicle with the Pulsar device.

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

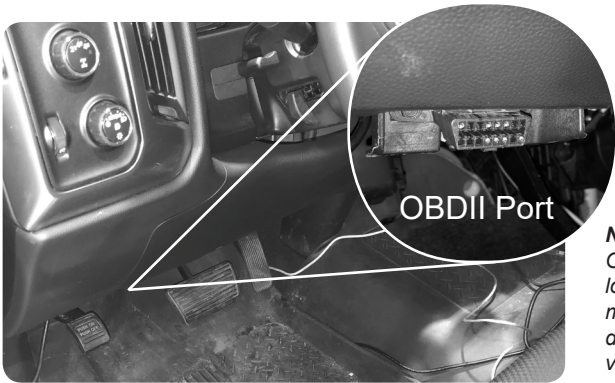
STEP 3 - The Update Agent 1.0 should automatically detect the Pulsar device, follow onscreen instructions until it checks for an update. If an update is available, click yes.

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 says "Your device is up-to-date," click ok and disconnect the USB to OBDII cable.



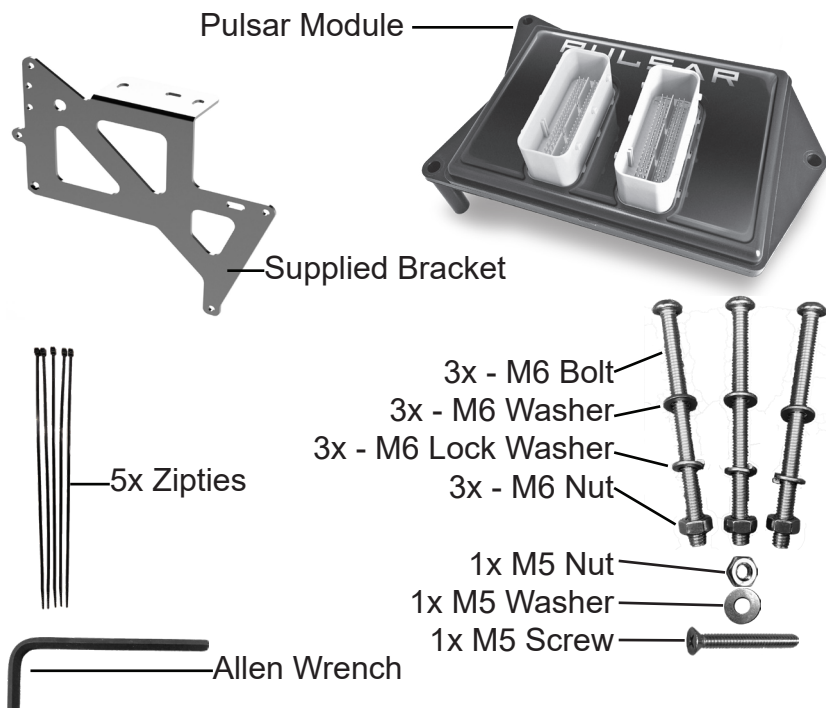
NOTE: Update Cable not included, must be purchased seperately



NOTE:
OBDII Port
location
may vary
depending on
vehicle

Installation Wrangler® JL/JT

Materials



Required Tools

Flat Head Screwdriver
Standard Screwdriver
3/8 Drive Ratchet
10mm Wrench
10mm Socket
8mm Socket
Allen Wrench (provided)

Air Filter Removal

NOTICE: Removal of the Air Filter is meant to assist in the installation of the Pulsar Assembly, and is not necessary to accomplish the installation. However, it is highly recommended.

Stock Air Filter



STEP 1 - Locate Air Filter (1)

STEP 2 - Cut the two zipties (2) (not the plastic pieces they are wrapped around, only the zipties themselves) and remove the sensor by rotating counter clockwise.

STEP 3 - Remove hose (3) by holding down white lock and carefully pulling the smaller connection out.

STEP 4 - Remove the bolts (4) with a 10mm socket and ratchet.

STEP 5 - Use 8mm socket and ratchet to loosen the two hose clamps on either side, and then carefully remove the air filter module.

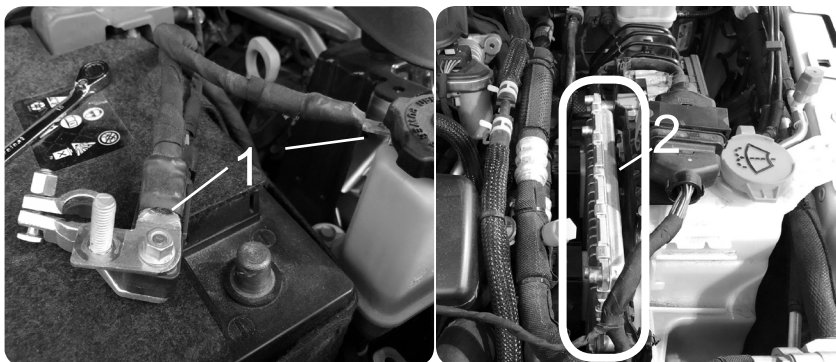
NOTE: Some aftermarket air filters are smaller than the stock air filter, and may not need to be removed to grant needed work space. The one pictured above is an example of a stock-sized air filter.

NOTICE: Do not forget to re-install Air Filter after Pulsar Installation is completed. Do not start the engine until it is installed.

ECM Removal

STEP 1 - For safety purposes, disconnect the **two batteries** from the negative terminal, keep the two posts separated for a complete disconnection. (1)

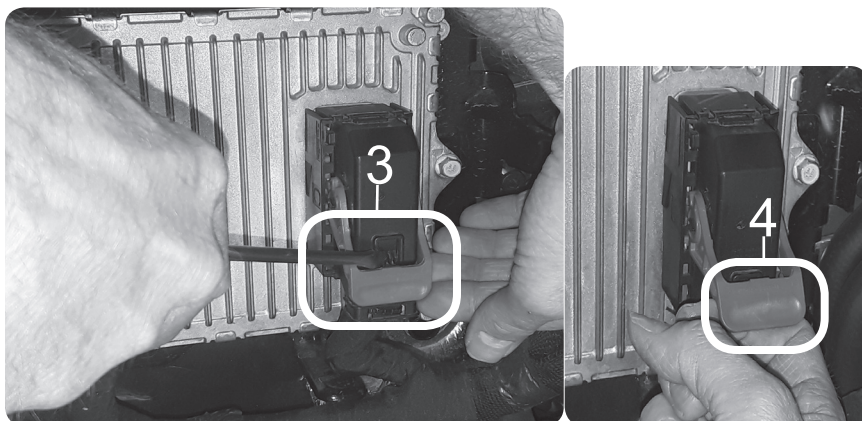
STEP 2 - Locate the vehicle's ECM. (2)



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. (3)

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

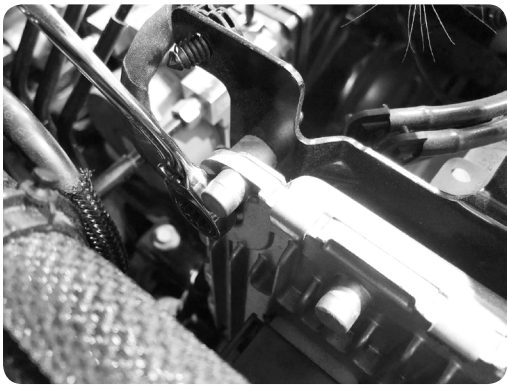
NOTE: *If necessary due to lack of space, lever lock can be pressed by a finger if done carefully.*



Pulsar Installation

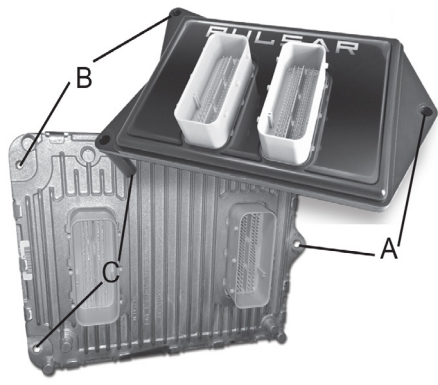
STEP 1 - Use a 10mm wrench to loosen the 3 screws that fasten the ECM to the stock bracket. Then remove the ECM and stock bracket.

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



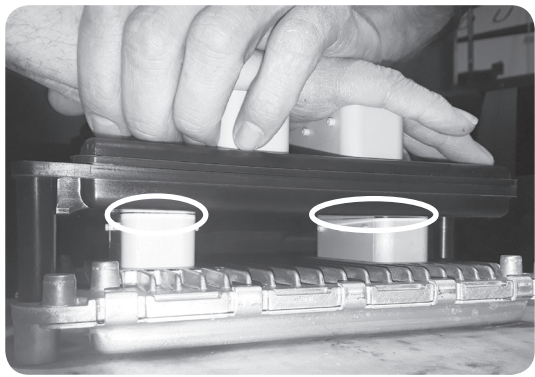
TIP: Place the stock screws into a zip lock bag and store it in the glove box. Store the stock bracket in a safe place.

STEP 2 - Orient Pulsar and the ECM as shown. The three holes (A,B, & C) will be used to fasten the assembly to the bracket.



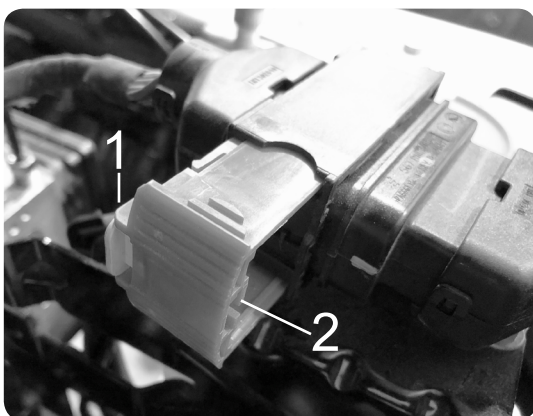
STEP 3 - Align and insert the Pulsar's bottom side connectors with the ECM connectors.

STEP 4 - 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.



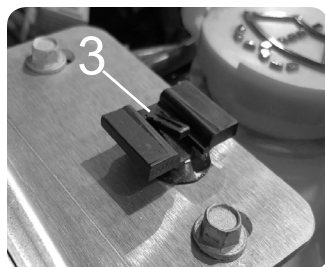
Pulsar Installation Cont'd

STEP 5 - Disconnect the harness on top of the washer fluid reservoir by pushing out the yellow tab (1) and pulling out the red lock.



STEP 6 - Once the red lock is completely out (2), carefully pull harness connectors apart and place the loose one out of the way.

STEP 7 - Insert a flat head screwdriver under the remaining connector, and push down the lock tab to allow the connector to slide off. Carefully remove the top harness mount. (3)

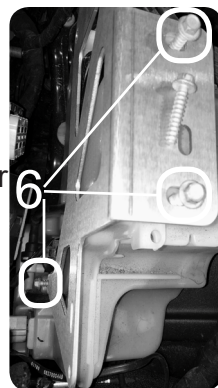


STEP 8 - Locate and unplug all 6 plastic ziptie plugin anchors. The **Square** shaped anchors (4) can be cut if necessary, but do not cut the **Round** anchors (5).



STEP 9 - Remove all four stock bolts from stock bracket using an 8mm socket and ratchet and then remove the stock bracket.

STEP 10 - Place the supplied bracket on the washer fluid reservoir, and replace the top harness mount in place as is seen in image (3).



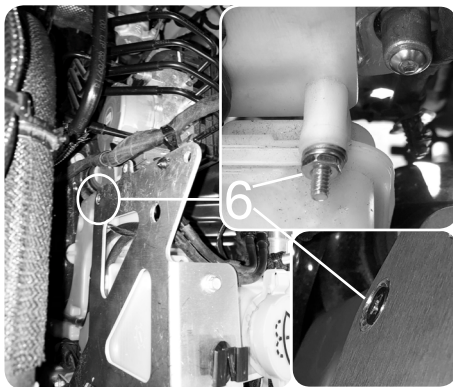
STEP 11 - Insert three of the four stock bolts and washers as seen in image (6), and use an 8mm socket and ratchet to tighten until snug.

Pulsar Installation Cont'd

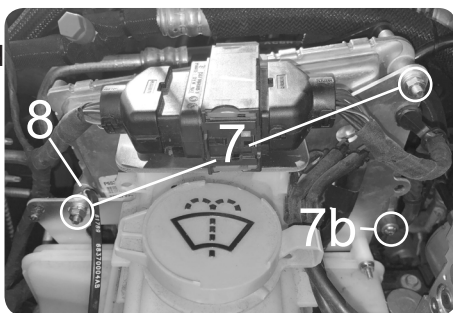
STEP 12 - Insert the provided screw into the final hole (6) and using either a standard screwdriver or a screwdriver socket, tighten until the further end is exposed.

STEP 13 - Attach the provided M5 nut and washer to the screw's end and tighten using both the screwdriver and an 8mm socket and ratchet (or wrench).

NOTICE: For Wrangler® JT, stop here and proceed to instructions on page 13.



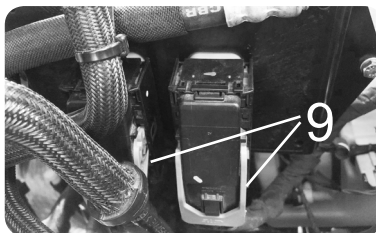
STEP 14 - Carefully insert the Pulsar and ECM assembly into place aligned to the bracket as seen in the image (7), and insert the three provided bolts and washers. One bolt will not be attached to the bracket (7b).



NOTE: The lower, inner bolt will not be connected to the bracket, only the Pulsar module. Also, use the provided Allen Wrench to tighten the bolts until snug.

STEP 15 - Reattach ground cable to top bolt closest to the front of the engine (8). Then, attach the provided bolts and lock washers to all three bolts and tighten using a wrench and 10mm socket with ratchet until snug. (7)

STEP 16 - Gently insert the vehicle's harness connectors into the Pulsar connectors. Push the lever down until it locks into place. (9)



STEP 17 - Reconnect the top harness connectors, and then lock by closing the red piece completely. Slide it back into place on the mount. (see img 7)

Pulsar Installation Cont'd

STEP 18 - Reconnect the two negative battery terminals (10) and **re-install air filter**.

⚠ CAUTION: Do not start engine until air filter is fully installed.

NOTE: For clean finish, replace round ziptie plugin anchors into supplied bracket and the zipties cut during removal of the air filter.



Wrangler® JT Addendum

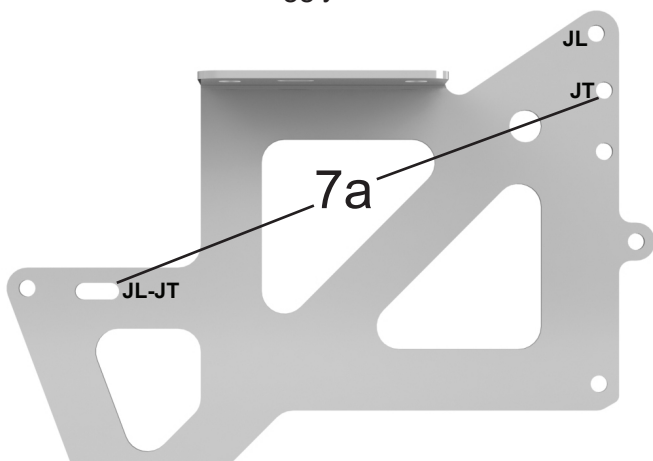
Because of spacing differences, the Pulsar module is aligned differently to the bracket in the JT than in the JL, using lower mounting holes.

Only step 14 is different because of this change, all other steps are identical.

STEP 14 - Carefully insert the Pulsar and ECM assembly into the place aligned to the bracket as seen in the diagram below, and then insert the three provided bolts and washers (7a). The lower, inner bolt and washers will not be attached to the bracket, only the Pulsar and ECM; and should be placed reversed to the others, due to lack of space (7b).

Continue as normal once the Pulsar is snugly attached to the bracket and ECM. Use the provided Allen Wrench to ensure the bolts are tight.

NOTE: See the hole indicators on the diagram for positioning between JL and JT.



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.

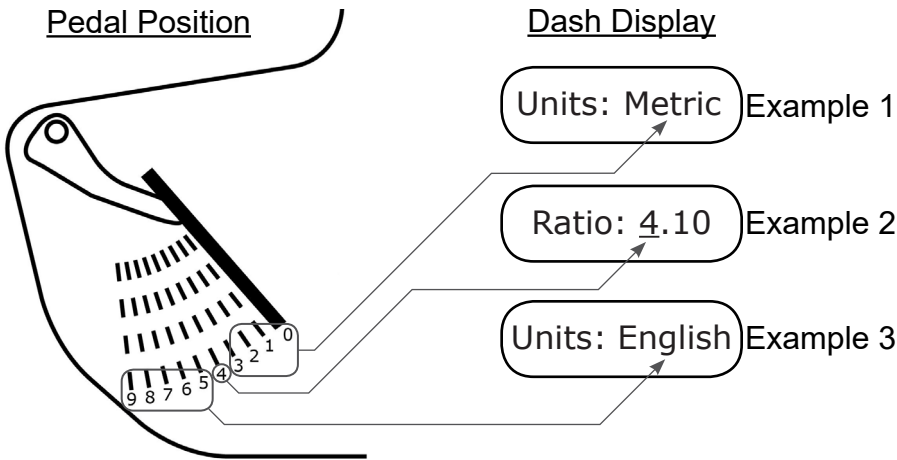


Function	Key
Level Up	SET+
Level Down	SET-
View Level	CANC

Function	Key
Level Up	SET+
Level Down	SET-
Enter Options	CANC

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.



Power Levels

Levels Explained

There are 4 available level options:

- Level 1 - STOCK
- Level 2 - ECONOMY
- Level 3 - TOW
- Level 4 - PERFORMANCE*

*Minimum 91 octane fuel recommended.



Changing Power Levels

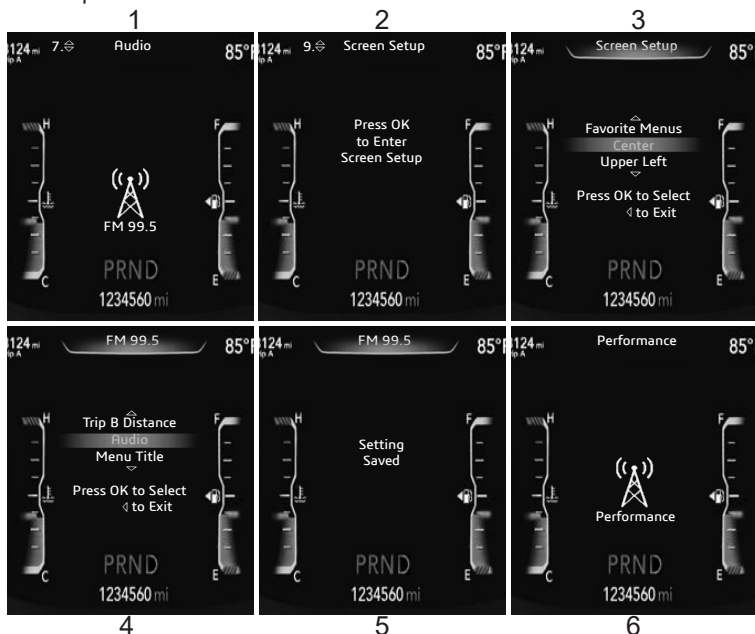
This dash display requires that menu settings be modified before Pulsar power levels can be viewed.

STEP 1 - Place the ignition into the RUN position (do not start engine).

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

STEP 3 - Return to the Audio 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 after a few moments.

STEP 4 - To modify the power levels, use the RES+ and SET- buttons. The new level will appear at the top of the screen.



TPMS Settings

TPMS Explained

The Pulsar allows you to adjust the vehicle's TPMS (Tire Pressure Monitoring System) settings, or disable the feature all together.

Changing TPMS Settings

Turn the Ignition to the RUN position (do not start the engine). Move to the Audio Menu using the keypad on the left, and hold CANC on the right keypad for 5 seconds to begin. The settings will appear at the top of the screen.

STEP 1 - Using the accelerator pedal controls, select Y for Yes to disable the TPMS system, or N for No to keep active (default) or to re-enable. **Press SET+ on right side keypad to make choice.**

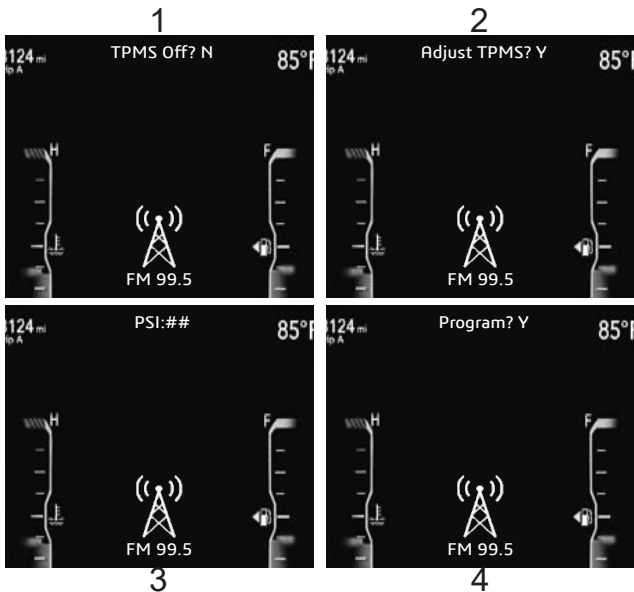
STEP 2 - If No is selected, then it will ask whether or not to make an adjustment to the default PSI settings. Select N to continue without making changes, or Y to start adjusting the minimum PSI value. Press SET+ to make this choice as well.

STEP 3 - If Y is chosen, use the accelerator pedal controls to adjust the first digit, and then after use SET+ to choose and move to second digit.

NOTE: The value chosen is the **minimum** tire pressure before the TPMS system will alert you of low tire pressure.

STEP 4 - After PSI is set, press SET+ once more. You will be presented with "Program? Y/N" in which you can select Y to apply the new settings. N will cancel and no changes will be made. Press SET+ to finalize choice.

NOTE: After it has programmed, it will bring you to Tire Size, then Axle Ratio. Proceed to Tire Size/ Axle Ratio instructions page and continue, or select N on both options to skip and finish.



Tire Size/Axle Ratio

Adjusting Tire Size

Immediately after the TPMS settings have programmed, the Tire Size settings will begin. This will allow you to adjust what size the vehicle believes the tires are.

If you have just begun the process starting on this page:

Turn the Ignition to the RUN position (do not start the engine). Move to the Audio Menu using the keypad on the left. And hold CANC on the right keypad for 5 seconds to begin. The settings will appear at the top of the screen. Proceed through TPMS settings (Select N on "Adjust TPMS" to skip TPMS) until you reach "Tire Size."

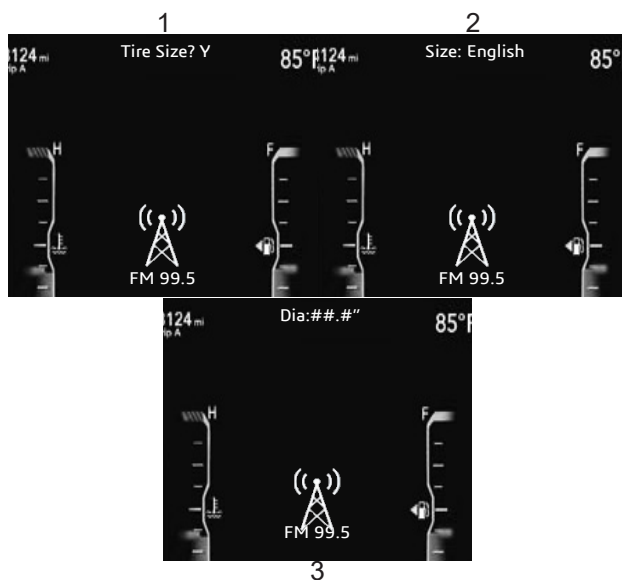
NOTE: Both Tire Size and Axle Ratio settings can be skipped by selecting N for No.

STEP 1 - Using the accelerator pedal controls select either Y for Yes to continue, or N for No to cancel; then press SET+ on the right side keypad.

STEP 2 - Using the same controls, cycle between English and Metric measurement units then press SET+ again.

NOTICE: If using English units, the value for 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 3 - Use the accelerator pedal to adjust the number value, using SET+ to cycle to the next digit. When the entire value is set, press SET+ to finish and move on to Axle Ratio.



Adjusting Axle Ratio

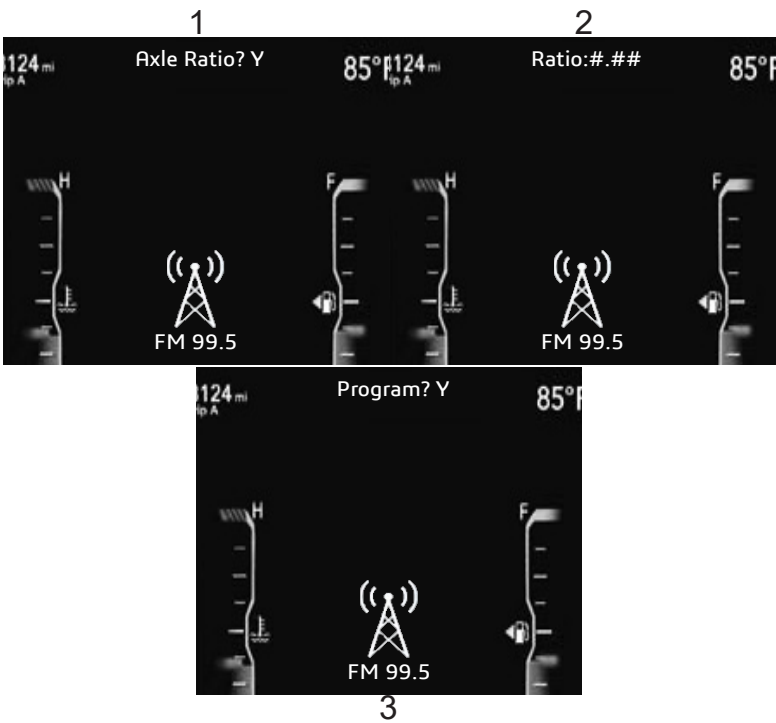
Using the Pulsar you can also correct the speedometer by adjusting axle ratio settings.

STEP 1 - Using the accelerator pedal controls select either Y for Yes to continue, or N for No to cancel; then press SET+ on the right side keypad.

STEP 2 - Using the same controls, adjust the number value, use SET+ to select the next digit. Once the desired ratio is set, press SET+ to move on.

STEP 3 - After ratio is set, you will be presented with "Program? Y/N," in which you can select Y to apply the new settings. N will cancel and no changes will be made, returning to the Audio Menu. Press SET+ to finalize choice.

NOTE: If Yes is selected, then after programming follow the onscreen instructions. After the vehicle has been turned off, the process is complete and no further steps are required.



Engine Stop Start Toggle

Understanding Pulsar Stop Start Toggle

If your vehicle has a Engine Stop Start system (ESS) on a stock engine (without Pulsar), it will shutdown during a full stop. Using a button on the dash you can disable this feature, but only during the single trip. The next time the vehicle is started, the feature will need to be disabled again.

When installed, the Pulsar device is programmed to automatically remember whether or not the Stop Start system has been disabled upon startup of the engine, and as such it turns the feature into a single toggle and not a repeat process. No further steps besides the initial disabling by use of the button on the dash is necessary.



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. You can’t adjust levels once cruise control has been activated.

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.

 CAUTION

CAUTION: If you are using this **Pulsar** module on your **Wrangler®** and also have the **TrailCal** or **TD2** installed, please update your **TrailCal** or **TD2** device before installing **Pulsar**. After updating, please reconnect your **TrailCal** or **TD2**.

When used together, the Auto Start/Stop feature will be managed using your **Pulsar** device and ***not the on-screen button*** from your **TrailCal** or **TD2**.

To manage Auto Start/Stop with both a **Pulsar** and **TrailCal** or **TD2** installed, you will need to follow the instructions for managing via **Pulsar**, using the factory button.

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D10022810 Rev 03 06/18/2019

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.**

TRAILCAL



USER MANUAL

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Read Me

Safety Warning and 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** or **CAUTION**.

▲ WARNING indicates a condition that may cause serious injury or death to you, your passengers or others nearby. Pay careful attention to these Warning messages, and always comply with them. They could save a life.

CAUTION indicates a condition that could cause damage to your vehicle. It is important to install and operate your product in conformance with instructions in this Manual. Caution alerts you to particularly important things that will keep your vehicle operating properly.

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.

NOTE: After the display has been installed, a warning screen will appear (3) different times.

▲ WARNING: Misuse of this device could lead to a serious accident. Do not use to break legal speed limits. Before installing, read and comply with all information in the User Guide. Do you agree?

If you agree with the agreement, select Yes to continue.

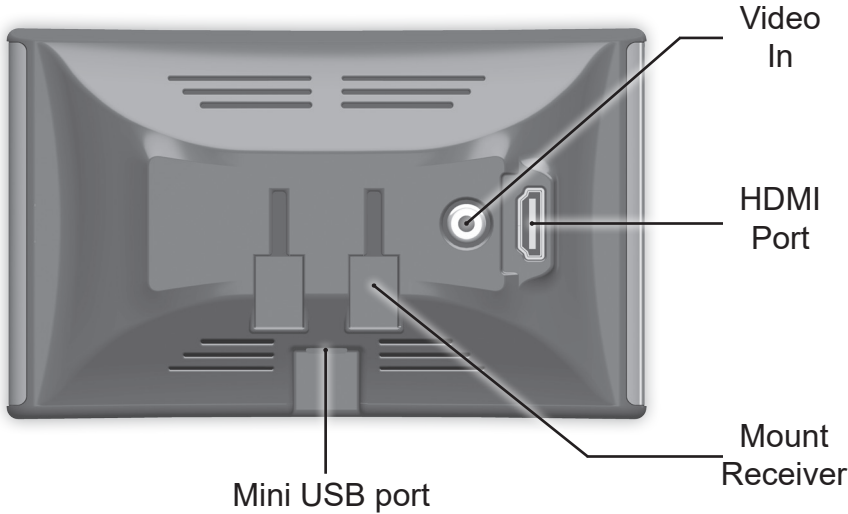
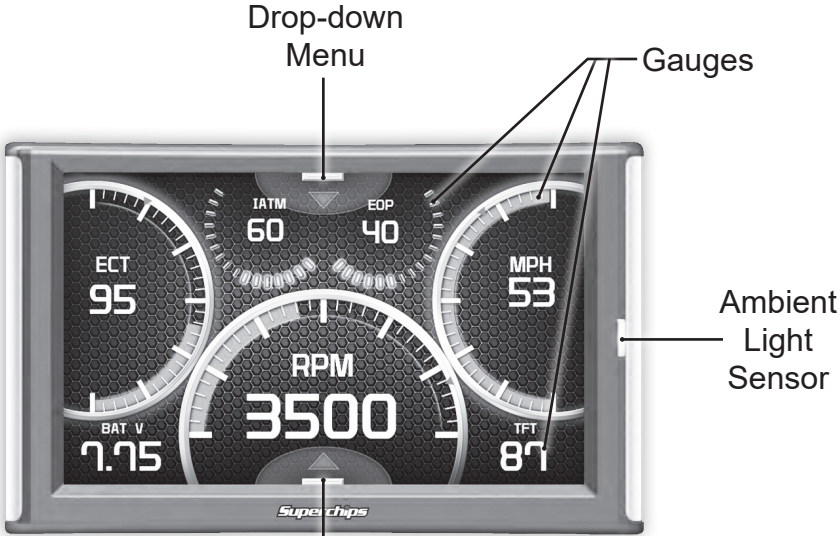
Safety Guidelines

1. Do not exceed legal speed limits on public roadways. Use any enhanced speed capabilities of this product only in closed circuit, legally sanctioned racing environments expressly for this purpose. Loss of control from speeding on a public road could seriously injure you, your passengers, or others on the roadway.
2. Do not operate the device while driving. Perform all adjustments or changes while stopped. Changing a setting while under way can interfere with your attention to roadway conditions.
3. “Stacking” performance-enhancing devices or other improper installation can cause power train failure on the road. Other products may have features incompatible with your Superchips device. Follow all installation and operating instructions, and do not stack products.
4. 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.

 *WARNING - Misapplication or misuse of this product could lead to a serious or fatal accident. Comply with all safety information in this manual, and your vehicle owner's manual. Follow safety, installation and operating instructions in this User Manual to assure proper use.*

At a Glance

Physical Overview - The Display



Accessories

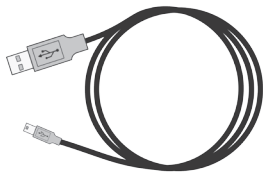
Windshield Mount



Alcohol Wipe



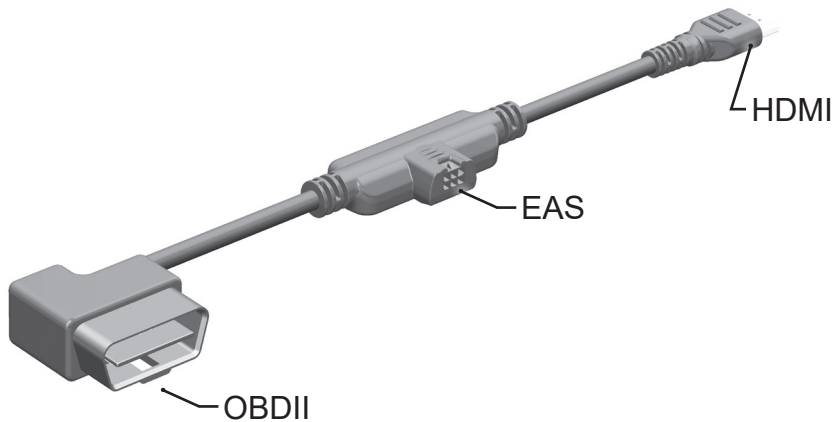
Mini USB Cable



Zip-Ties



OBDII to HDMI cable



Touch Screen Gestures

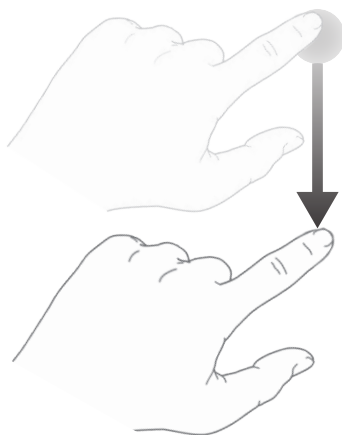
Use these gestures to navigate and control the display.

Press



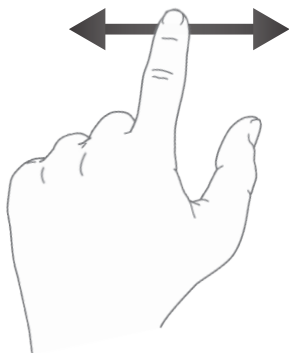
The Press gesture is used to select options, input values, enter menus, etc.

Hold & Drag



The Hold & Drag gesture is used to drag up or down menus, and scroll through menu items.

Swipe



The Swipe gesture is used to scroll through gauge screens.

Menu Icons

Icon		What it does
	Home	Brings you back to the home screen
	Background	Changes the background Image
	Custom Color	Opens the custom color picking menu
	Default Color	Opens the default color picking menu
	Back	Brings you back to the previous screen or menu

Common Terms

Term	What it is
PID - <u>P</u> arameter <u>I</u> Ds	Data taken from a vehicle & viewed in a gauge
EAS - <u>E</u> xpandable <u>A</u> ccessory <u>S</u> ystem	Allows you to connect aftermarket sensors and other devices such as turbo timers
ECM - <u>E</u> ngine <u>C</u> ontrol <u>M</u> odule	(aka ECU) A computer that controls various sensors and engine components
TCM - <u>T</u> ransmission <u>C</u> ontrol <u>M</u> odule	(aka TCU) A computer that controls automatic transmissions
PCM - <u>P</u> ower <u>C</u> ontrol <u>M</u> odule	(aka PCU) Combines and provides power for the ECM and TCM

Getting Started

Download the Fusion Update Software

A computer with internet access is required:

STEP 1 - Go to **www.superchips.com**

STEP 2 - Click the **UPDATES** tab, then **DOWNLOAD** Fusion.

STEP 3 - Open the **FusionClientSetup.exe** file, then click **Run**.

STEP 4 - Click **Next** to begin.

STEP 5 - Choose a folder location, then click **Next** to continue.

STEP 6 - Click **Next** to confirm the installation.

STEP 7 - Click the **OK** button if during the installation, the following message appears:

“These drivers are not Windows Logo or WHQL verified. If you are asked, please choose to install them anyway.”

STEP 8 - Click **Close** to exit once the installation is complete.

STEP 9 - Double click the **Fusion Icon** on your desktop.

STEP 10 - Click on the **Create a New User** option.

STEP 11 - Fill in the required information and click **Save**.

An e-mail containing your fusion password will be sent to the e-mail you used in the form. Use this password to login into Fusion. (NOTE: The password is case sensitive)

STEP 12 - Double click the **Fusion Icon** on your desktop.

STEP 13 - Plug the display into the computer using the USB cable.

STEP 14 - *If asked, choose “Yes, this time only”, then click Next.*

STEP 15 - *Select Install the software automatically then Next.*

STEP 16 - If you're asked to “Continue Anyway” or “STOP installation” click **Continue Anyway** then click **Next** to complete the hardware wizard.

Using the Fusion Update Software

A computer with internet access is required:

STEP 1 - Double click the **Fusion Icon** on your desktop.

STEP 2 - When asked, plug the display into the computer using the supplied USB cable.



STEP 3a - If an update is available, click **YES** to continue.

DO NOT unplug the display from the computer during an update.

STEP 3b - If an update is not available, click the **OK** button.

STEP 4 - Once the update is complete, click **Close**.

Cable Installation

STEP 1 - Locate the On Board Diagnostics II (OBDII) port.
(This connector is typically found directly below the driver side dash console.)

STEP 2 - Plug the OBDII connector into the vehicle port.

STEP 3 - Route the HDMI end up the driver side dash.
(On most vehicles, the side panel may be removed to expose the underside of the dash for easier routing. Leave exposed until after the display is installed.)



Windshield Mount Installation

STEP 1 - Use the Alcohol Wipe to liberally clean the windshield in the area you plan to place the suction cup. Allow the glass to fully dry.

STEP 2 - Firmly press and hold the suction mount against the glass.

STEP 3 - Rotate the Cam Lever towards the glass to create the suction.



Installing the Display

STEP 1 - Plug the HDMI connector into the HDMI receptacle located on the back side of the display.

STEP 2 - Align the Dual Tabs on the Mount with the mount receiver on the back side of the display, then slide it into place.

STEP 3 - Adjust the viewing angle using the adjustment nut on the mount's swivel head.

STEP 4 - Pull any extra cable back behind the pillar and dash. (Re-install any panels removed during the Cable Installation.)



Display Setup

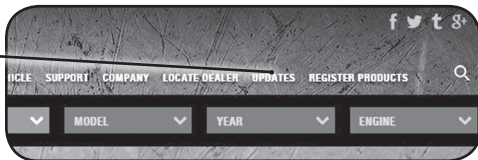
Download and Install MyStyle Software

MyStyle is software that allows you to customize your display background image and manage your EAS devices.

A computer with internet access is required:

STEP 1 - Go to **www.superchips.com**

STEP 2 - Click the **UPDATES** tab, then Mystyle **DOWNLOAD**.



STEP 3 - Open the **MyStyleSetup.exe** file, then click **Run**.

STEP 4 - Click **Next** to begin.

STEP 5 - Choose a folder location, then click **Next** to continue.



STEP 6 - Click **Next** to confirm the installation.

STEP 7 - Click the **OK** button if during the installation, the following message appears:

"These drivers are not Windows Logo or WHQL verified. If you are asked, please choose to install them anyway."

STEP 8 - Click **Close** to exit once the installation is complete.

Adding Custom Background Images

This section describes how to add personalized photos or pictures to your display using a computer.

STEP 1 - Double-click the MyStyle icon on your desktop.



STEP 2 - Connect the display using the supplied USB cable.
When a display is plugged in, an image of the display will appear with a 9 digit number.



STEP 3 - Click the image of your display.



STEP 4 - Choose to Customize the Display.

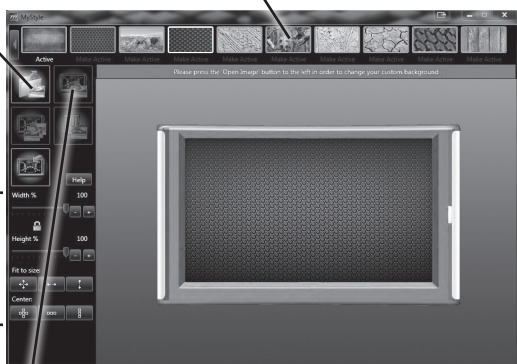


STEP 5 - Select an Image to replace.

STEP 6 - Select the Open Image button.

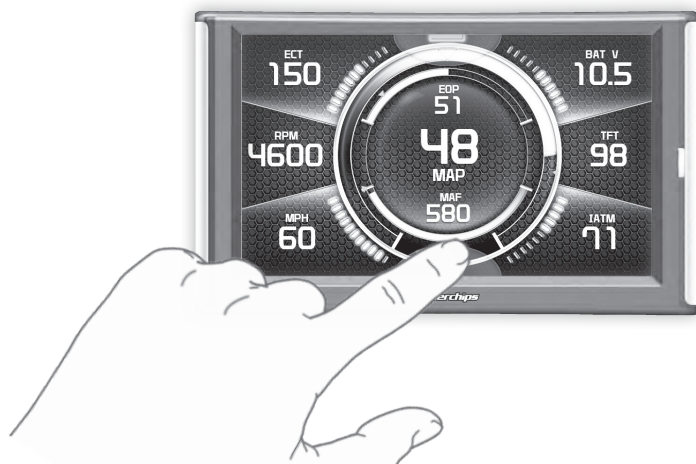
STEP 7 - Use the available tools to size and align your image.

STEP 8 - Click the Save Background button to save your progress. This will also save the new background image to you display.



Entering the Quick Link Menu

STEP 1 - Press the lower menu tab to enter the Quick Link Menu.



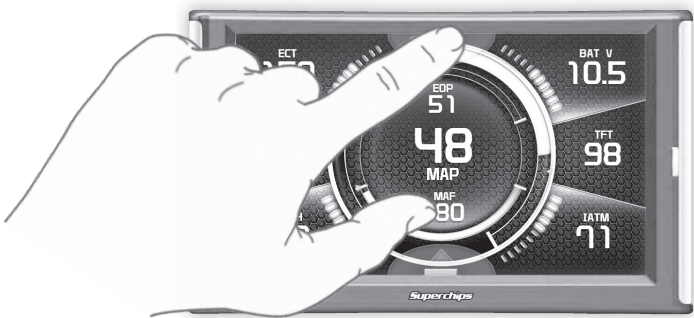
STEP 2 - The Main Menu will appear. Choose a menu option, and Press the Icon to enter that feature menu. (Note: Each feature menu option is shown in detail later in this manual)

Return
to Home
Screen



Entering the Pull Down Menu

STEP 1 - Press the upper menu tab to enter the Pull Down Menu.



The following screen will appear:

If notifications are active they will be listed here.
If multiple notifications are active at one time they will alternate every few seconds.

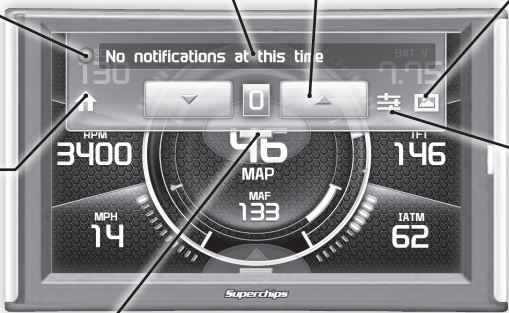
These buttons toggle the power level which is displayed between the two.

Light Indicator

Return to Home Screen

Change Background Image

Adjust Background Color & Opacity

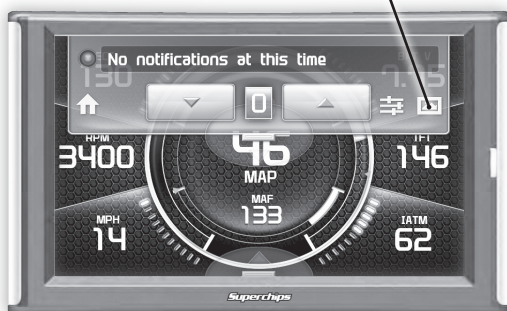


When the Drop Down menu is closed, this tab alerts you to any notifications that are available by changing color.

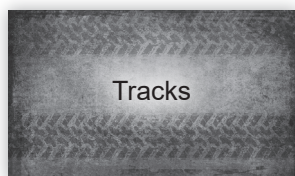
Changing the Default Background Image

STEP 1 - Enter the Pull Down Menu.

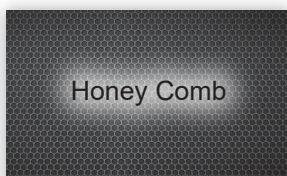
STEP 2 - Press the Background icon.



Each press of the icon will cycle through to the next image:



Tracks



Honey Comb



Moab



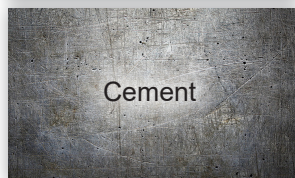
Carbon Fiber



Sand



Camouflage



Cement



Desert



Tread

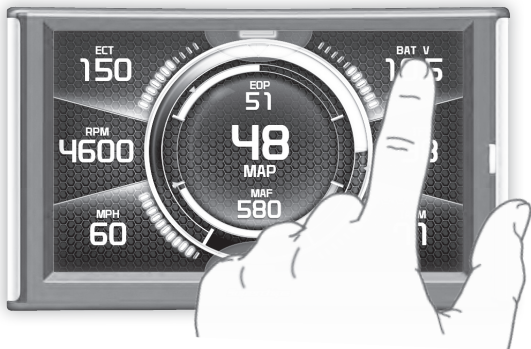


Old Barn

Refer to the “Adding Custom Background Images” section of this manual for information on how to add your own images to the display.

Individual Gauge Setup

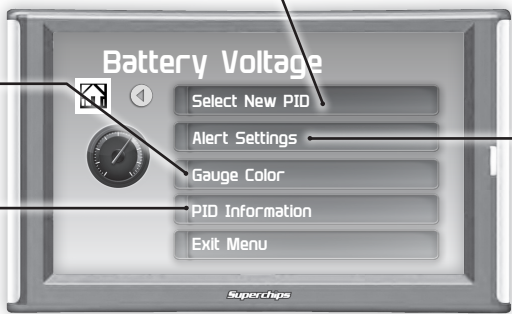
STEP 1 - Press any gauge.



STEP 2 - Select New PID

Some Analog gauges allow you to change its color

Describes the selected PID



Please Refer to Alert Options Section for more info

STEP 3 - Press the Up/Down arrows to locate a new PID. Select a new PID.



STEP 4 - Return Home. The new PID will be displayed on the gauge you selected.

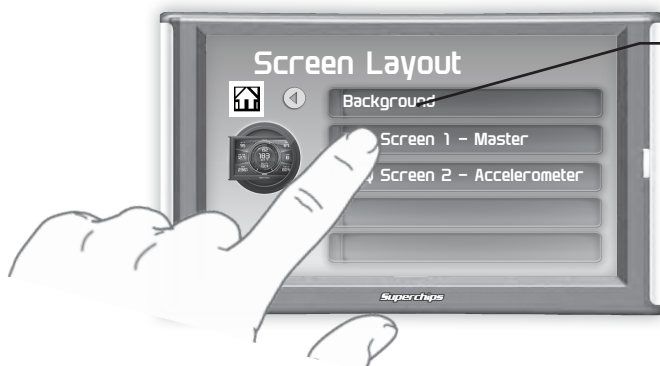
Configuring the Home Screens

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Screen Layout Icon

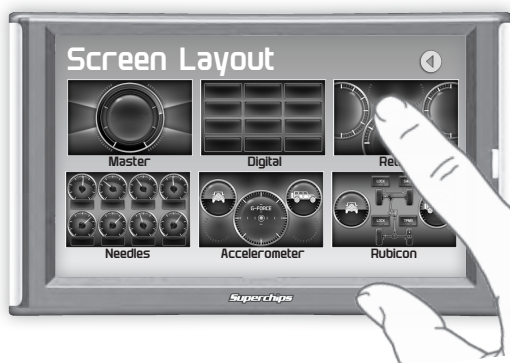


STEP 3 - Select the a DAQ screen option



Press to select a default Background image

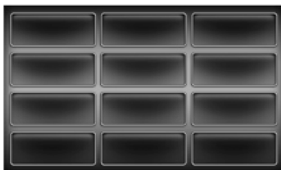
STEP 4 - Select one of the screen layout options



Master Gauge



Digital Gauges



Retro Gauge



Needle Gauges



Accelerometer Gauges



Rubicon Gauges



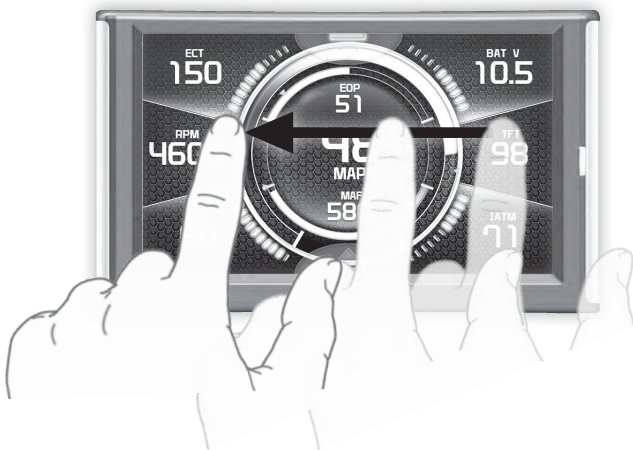
Switch Screen



The Switch Screen is an additional layout. Continue with steps 5 & 6 below until the Switch Gauges are shown.

STEP 5 - Return to the Home  screen.

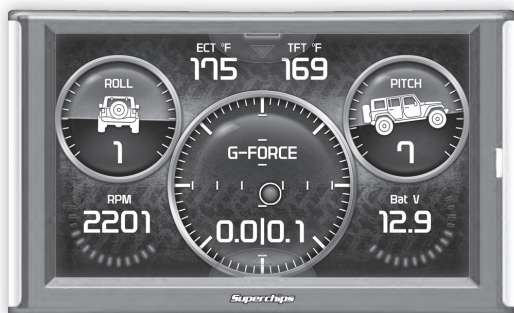
STEP 6 - Swipe horizontally to switch between your selected layouts.



Calibrating Pitch, Roll, & G-Force Gauges

Once the display has been installed, and is mounted in a semi-permanent position, the Pitch, Roll, & G-Force gauges will need to be calibrated.

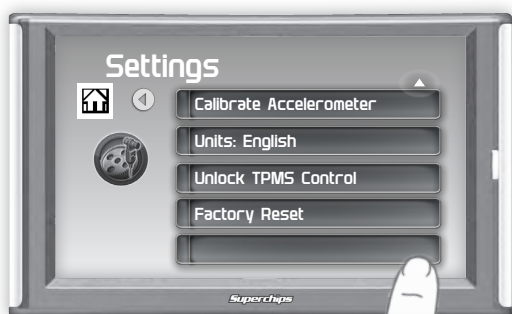
STEP 1 - Refer to Configuring the Home Screen section in this manual. Assign the Accelerometer screen layout to one of the DAQ screens.



STEP 2 - Once the Accelerometer Gauge is displayed, enter the Quick Link menu.

STEP 3 - Press the Settings  icon.

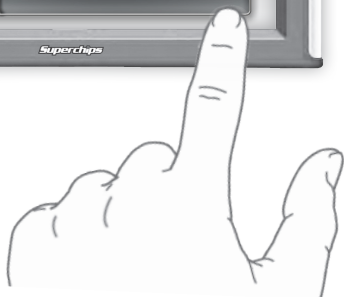
STEP 4 - Press the Up/Down arrows until the Calibrate Accelerometer option is available.



STEP 5 - Press the Calibrate Accelerometer option.

STEP 6 - Return home to the gauge screen.

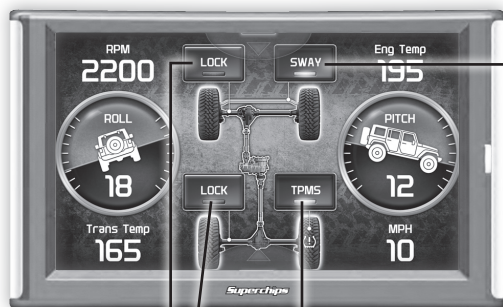
The Pitch, Roll, & G-Force gauges should all read zero.



Using the Rubicon Screen

The following screen is vehicle specific. Your screen may or may not have all of the features as shown.

NOTE: Screen images may vary based on your vehicle.



SWAY

This will disable the light from displaying on your dash. To turn this feature on, press the button and follow the on-screen instructions.

TPMS

(2007+) This feature allows you to turn the Tire Pressure Monitoring System (TPMS) sensors OFF in vehicles that are equipped with non-stock tires. Quite often many after-market tires lack these sensors and this causes the TPMS lamp to turn ON in a vehicle. To turn this feature on, press the button and follow the on-screen instructions.

LOCK

Locks and unlocks Front or Rear Differentials. To enable this feature, press the button and follow the on-screen instructions.

NOTE: The LOCK feature will be automatically disabled after you exceed 30 MPH for safety.

Using the Switch Screen - Quick Features

The availability of the following features depends on the year & model of your Jeep.

Tire Size

This feature allows you to modify the programmed Tire Height while also adjusting the speedometer for non-stock tires.

Axle Ratio

This feature allows you to adjust the calculated output shaft speed.

CAUTION: This feature should only be used if you have replaced the stock Axle.

Engine Idle

This feature allows the user to increase the engine Idle RPM momentarily during extreme conditions (e.g. while winching, etc.) Select an RPM that you would like the engine to idle at and press ENTER.



Run Lights

This feature allows you to change the Daytime Running lights configuration on your vehicle.

- OFF:** No lamps.
- TURN SIGNALS:** Turn lamps
- LOW:** Same as stock.
- FOG:** Fog lamps only
- EURO:** Dim Setting/Half Luminosity
- HIGH:** High Beams

NOTE: Changes will take effect as soon as the vehicle is started and placed into Reverse or Drive.

Engine Timing

This feature gives the option to Retard the Timing down a total of 6 degrees.

CAUTION: This feature should only be used if you are experiencing pre-detonation while in a programmed level.

Tire Pressure

This feature allows you to adjust the tire pressure at which the TPMS warning light will illuminate for a low tire-pressure condition. The selectable range is from 22 PSI to 64 PSI.



NOTE: If your dash is able to display Tire Pressure, the value you entered may not be the value shown.

The following Quick Features are not shown on the previous page, but could be displayed instead of or in addition to what is shown. The availability of the following features depends on the year and model of your Jeep:

Accessory Delay Adjustment

Allows you to adjust the length of time your radio stays on after you have turned the key to the Off position.

Automatic Door Lock Toggle

Allows you to turn ON or OFF the vehicle feature that automatically locks your doors once the vehicle is in motion.

Horn Chirp

Allows you to turn ON or OFF the horn “chirp” when locking the vehicle.

Lamp Flash

Allows you to turn ON or OFF the vehicle lamp flash when locking the vehicle.

One Touch Lane Change

Allows you to toggle this vehicle feature ON or OFF. When this feature is turned OFF, your blinker will only blink once after pressing the switch.

Transfer Case Ratio Adjustment

This feature allows you to adjust the ratio based on your Jeeps specific transfer case.

Transfer Case HI Adjustment

Allows you to adjust the transfer case settings while in 4-HI.

Transfer Case LO Adjustment

Allows you to adjust the transfer case settings while in 4-LO.

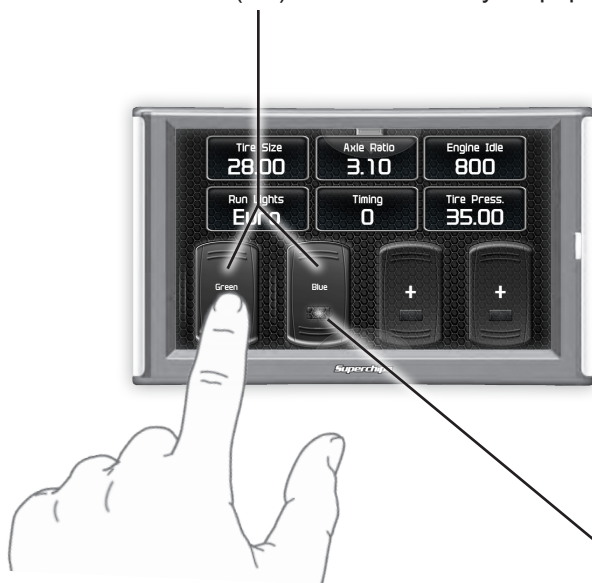
Using the Switch Screen - Toggle Switches

If you have purchased an Expandable Accessory System (EAS) Power Switch, you can use the Switch Screen to quickly toggle On or Off up to (4) different components (e.g. light bars, pumps, winch, etc.) For proper installation of the Power Switch, refer to the EAS Installation Manual. For information on how to operate and customize each switch, continue on with this section.

STEP 1 - Install the EAS Power Switch device according to the EAS Installation Manual.

STEP 2 - Once all of the proper connections are made, turn the key to the ON position.

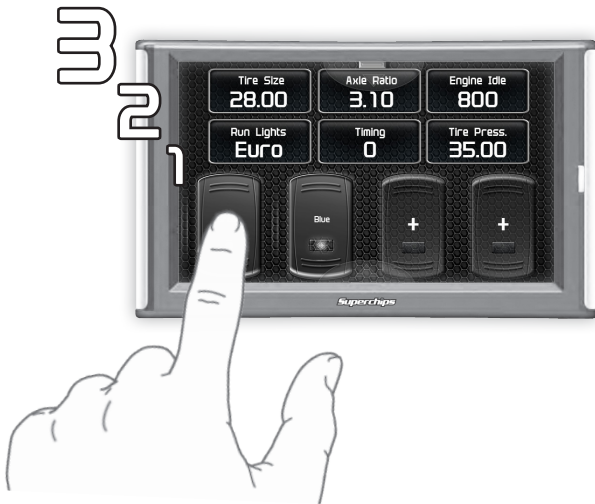
The display will detect the newly installed Power Switch during boot up. Once detected, the first two buttons (left) will automatically be populated.



STEP 3 - To toggle the switch On or Off, simply press the switch. The light indicator will illuminate when the switch is On.

If you would like to customize a switch:

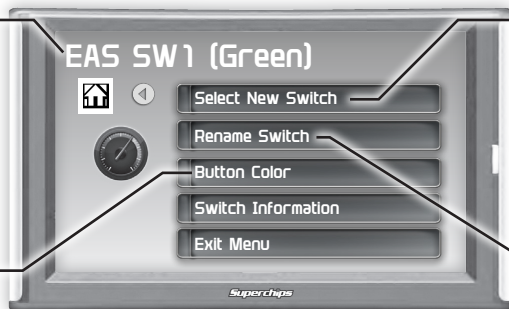
STEP 1 - Touch and hold the switch for 3 second, then let off.
A menu will appear.



STEP 2 - Select each option and make your adjustments accordingly.

The default name for each Power Switch that corresponds to the wire on the Power Switch pigtail. (SW2 is blue)

Changes the color of the illuminated indicator when the switch is On.



Allows you to select which device you are controlling. You may also Deactivate the switch location.

The new name can be up to two words with less than 12 characters per word.

STEP 3 - Return to the Switch Screen to see the changes you have made.

Settings

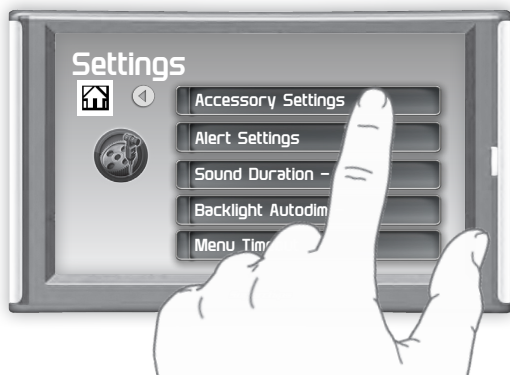
Accessory Settings

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings icon.



STEP 3 - Select Accessory Settings.



STEP 4 - Select an option in which you would like to modify.



STEP 5 - Select Camera Delay. Adjust the value using the arrows, then press Enter.

The TrailCal is designed to display the back-up camera when the vehicle is put into reverse. This feature allows you to specify how many seconds you would like the camera view to wait before it shows up on the display.



NOTE: This feature is not available on all model years.

STEP 6 - Select Camera At Startup.

Turning the Camera At Startup feature ON allows the back-up camera image to automatically come on during the startup of the display.

! WARNING: Do not rely solely on the camera image for backing up. It is possible for the camera image to freeze.

Alert Settings

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings  icon.

STEP 3 - Select Alert Settings from the list.

STEP 4 - Select a PID from the list.

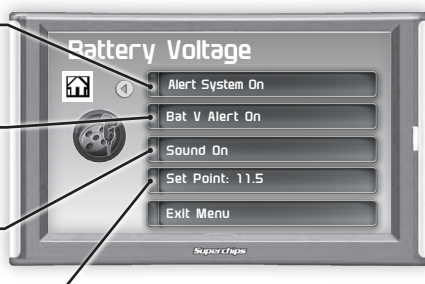


STEP 5 - Make your adjustments. In the example below, battery voltage is being modified.

Turn On or Off the alert system for all PIDs.

Turn On or Off this specific PID's alerts.

Turn On or Off the alert sound for this PID only.



This is the point at which you want the alert to be triggered for this PID.
The example above shows 11.5 as the value. If the display detects a battery voltage of 11.5 volts or less, the alert will be triggered.

During an alert:

- 1)The alert will be displayed
- 2)This will light up in red
- 3)The tab will flash red
- 4) The gauge will flash red



Sound Duration - Alerts

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings  icon.

STEP 3 - Select Sound Duration from the list.

STEP 4 - Adjust the time (in seconds) to the length of time an alert should sound.

STEP 5 - Press Enter



Backlight Auto dim

Each display is equipped with a light sensor that detects how much light is entering the vehicle cab. During the day, the display will be at its maximum brightness. As it gets darker outside, the display will automatically dim according to the amount of sunlight. If the value is kept at 99%, the display will be as dim as possible. If the value is set to 50%, the display will only be half as dim at night.

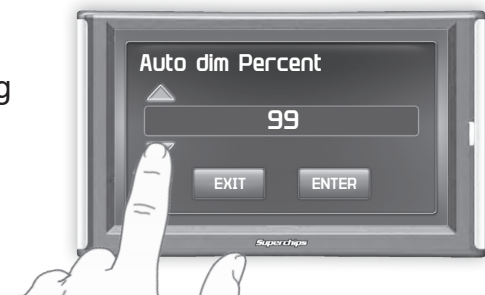
STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings  icon.

STEP 3 - Scroll through the list and select Backlight Auto dim.

STEP 4 - Adjust the percent value for how much dimming will take place at night.

STEP 5 - Press Enter.



Menu Time out

This feature prevents the display from staying on for excess amounts of time. Once the time runs out, the display will return to the main gauge screen, then shut off.

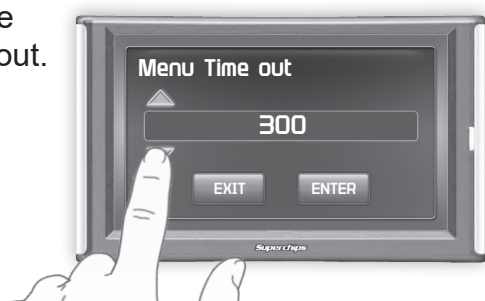
STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings  icon.

STEP 3 - Scroll through the list and select Menu Time out.

STEP 4 - Adjust the time value (in seconds).

STEP 5 - Press Enter.



Vehicle Weight

Before using the Horsepower test, the vehicle weight (aka curb weight) must be entered first. The curb weight is the total weight of a vehicle with standard equipment, all necessary operating consumables (e.g., motor oil, coolant), a full tank of fuel, with no passengers or cargo.

Units

Changing the unit option allows you to view PIDs in either Metric or English. Vehicle Speed, for example, may be viewed as either MPH or KPH. Temperature PIDs such as Engine Coolant Temperature may be viewed as either Fahrenheit or Celsius, etc.

CAUTION: *If you set up your display while the units are in English, and then switch to Metric, the values will remain the same, and not be converted.*

Unlock TPMS Control

This feature allows you to access your vehicle's TPMS (Tire Pressure Monitoring System). Once it is unlocked, you will be given the ability to modify it's parameters.

In order to use this feature:

1. Locate the serial # on the bottom of your device.
2. Go to: tpmsoptions.superchips.com
3. Fill out the required information and submit. An email will be sent providing a link allowing you access to your unlock code.
4. Write this code down for future reference. Use the code to unlock the TPMS on your device.

Show Swipe Tutorial Off

This setting allows you to turn off the Swipe Tutorial that is shown each time the device turns on.

Calibrate Accelerometer

Once the display has been installed, and is mounted in a semi-permanent position, the Pitch, Roll, & G-Force gauges will need to be calibrated. The Calibrate Accelerometer setting allows you to zero out all gauges at one time.

Factory Reset

This feature will return the display to the factory default settings. All records and input data will be deleted unrecoverable.

Performance Settings

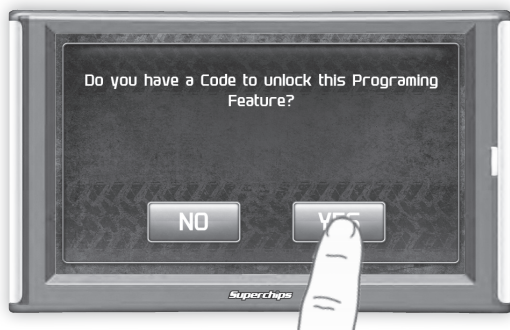
Unlocking Programming

This feature is not available on your product. If you would like to add performance tuning to your TrailCal, visit: www.unlock.superchips.com then follow these instructions.

STEP 1 - Enter the Quick Link menu.



STEP 2 - Once you have recieved an unlock code, select YES.



NOTE: If you do not have a code and selected NO, you will be prompted to contact tech support .



STEP 3 - Enter the code using the provided keypad.
Select Enter to continue.



STEP 4 - Once the code has been entered, the following screen will appear:



NOTE: You will be returned to the Quick Link menu.



Diagnostics

Read DTCs

When your PCM detects a problem with your vehicle it sets a trouble code, and most times a “Check Engine” light on your dash is activated. These codes can be retrieved and used to help diagnose specific issues.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Diagnostics icon.

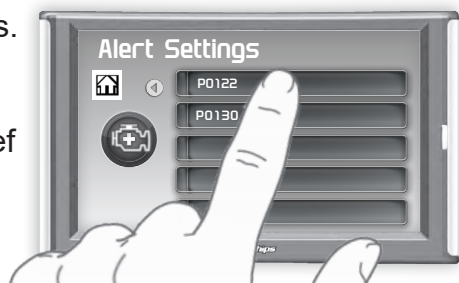


STEP 3 - Select Trouble Codes.



STEP 4 - Select Read DTCs.

STEP 5 - If a code is listed, select the code to see a brief explanation of the issue.



If a code is shown, write down the information given. You can use this code number to research the particular issue. The internet is a good resource for looking up most codes.

Clear DTCs

This feature allows you to clear most DTCs. This will erase any codes currently set. If the codes come back we recommend you see a qualified mechanic who can accurately diagnose and repair the problem.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Diagnostics  icon.

STEP 3 - Select Trouble Codes.

STEP 4 - Select Clear DTCs.

Performance Testing

0-60 & Quarter Mile

Performance tests can be helpful for measuring performance gains after vehicle modifications have been made. The results recorded during these test will likely differ from what you'll see on a drag-strip or other racing venues. Incorrect speedometer calibration, data sample rate, and tire slippage can cause miscalculations in the displayed results.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Performance Testing icon.



STEP 3 - Select either the 0-60 or Quarter Mile option.

STEP 4 - Bring the vehicle to a complete stop.

STEP 5 - Use the drag strip style light tree on the left of the screen to know when to begin accelerating. Once you have reached 60 mph (or a quarter mile), the test will show as completed.



STEP 6 - Touch the screen to exit the test.



WARNING: Do not use the Performance Tests feature to break any traffic laws.

Horsepower

NOTE: Before using the Horsepower test, the vehicle weight (aka curb weight) must be entered first. The curb weight is the total weight of a vehicle with standard equipment, all necessary operating consumables (e.g., motor oil, coolant), a full tank of fuel, with no passengers or cargo.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Settings icon.

STEP 3 - Scroll through the menu, then select the Vehicle Weight option.



STEP 4 - Use the UP & DOWN arrows to enter the weight.



STEP 5 - Return Home  and re-enter the Quick Link menu.

STEP 6 - Select the Performance Testing  icon.

STEP 7 - Select the Horsepower option.

STEP 8 - Bring the vehicle to a complete stop.

STEP 9 - Use the drag strip style light tree on the left of the screen to know when to begin accelerating. *Touch the screen to exit the test.*

Data Log

Data Logging Explained

The data logging feature allows you to record all of the available PID data on your display. This information can be retrieved and viewed using the MyStyle software package.

NOTE: The display also runs background tasks which are also recorded. This information can be ignored.

STEP 1 - Enter the Quick Link menu.

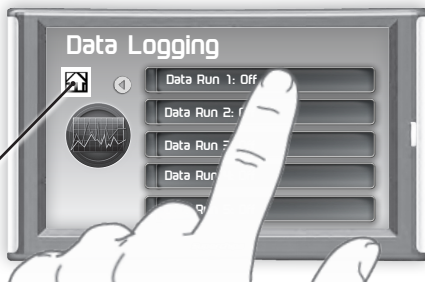


STEP 2 - Press the Data Log icon.

STEP 3 - Select one of the (5) Data Run options. This will turn the run On or Off.

NOTE: Only one run can be turned on at a time.

STEP 4 - Select the Home button to return to the main gauge screen. The display is now in recording mode.



STEP 5 - Once you have recorded for a desired period of time, return to the Data Logging menu and turn Off the run.

NOTE: The maximum amount of Data Logging time depends on how many items you are logging at once. This may be anywhere from 15 to 20 minutes total. Once the limit is reached, the Data Logging feature will be automatically shut off.

NOTE: If you turn the same Data Run back On, the previous data will be erased and a new recording session will begin. If the indicator light is red, there is currently a recorded file associated with that run.

Retrieving Data Using MyStyle

This section describes how to retrieve the data recorded during a Data Logging recording session. If you have not yet installed MyStyle refer to the Display Set Up section of this manual.

STEP 1 - Double-click the MyStyle  icon on your desktop.



STEP 2 - Connect the display using the supplied USB cable.
When a display is plugged in, an image of the display will appear with a 9 digit number.



STEP 3 - Click — the image of your display.



STEP 4 - Select Data Logs.



STEP 5 - Click the Save File As button and save the file.

STEP 6 - Locate the saved file on your computer and open it. The file will be saved as a .CSV file and can be opened using Microsoft Excel or similar.



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Records

Records Explained

Records contain certain parameters for later review. This is useful after completing a performance test on the drag strip, or when you are trying to trouble shoot a particular issue.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Records icon.



STEP 3 - Scroll through the list to view all records.

STEP 4 - Press, hold, and release any individual record to reset it to default. All other records will remain as is.



STEP 6 - Press, hold, and release the Clear All option to reset all values to zero.

Help

Help Menu Explained

The Help Menu contains useful information about your display, and the vehicle it is currently plugged into. It also contains Superchips contact information and Technical Support tools.

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Help icon.



STEP 3 - Select the option that best describes your need:

Product Info (Display)

- Version
- Application Version
- Calibration Version
- Firmware (BC) Version
- FPGA Version
- MSP430 Version
- Serial Number (used to identify your display in the software update process and during Technical Support calls)

Product Info (EAS)

If you have an EAS device installed on your vehicle and plugged into your display, another Product Info screen will be available. It will list your EAS device's Firmware Version as well as its serial number.

Vehicle Info

Displays important information about your vehicle that is used by technical support to trouble shoot issues.

Contact Info

Shows our website, company address, the technical support email address, and the technical support phone number.

Tech Support Tools

This menu should only be used when requested by Superchips Technical Support personnel.

Maintenance Manager

Turn on Maintenance Manager

STEP 1 - Enter the Quick Link menu.

STEP 2 - Press the Maintenance Manager Icon.



STEP 3 - Select the Maintenance Mgr button to turn the feature on. *(This button toggles the feature off and on.)*



Entering the Odometer Value

STEP 1 - While in the Maintenance Manager menu, Press the Odometer button.



STEP 2 - Enter the current Odometer reading from your vehicle, then press Enter.



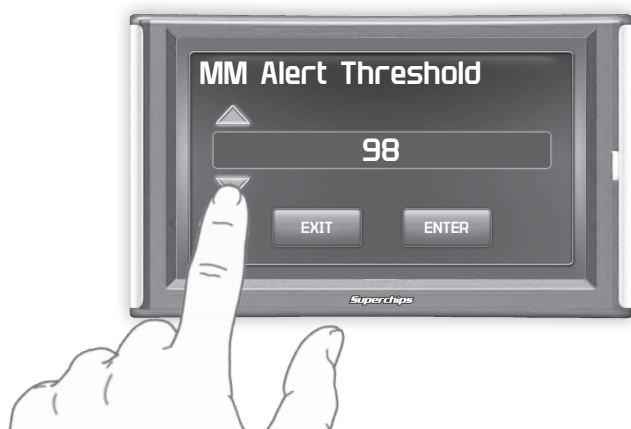
Setting the Alert Threshold

STEP 1 - While in the Maintenance Manager menu, Press the Alert Threshold button.

NOTE: The alert threshold is the number of miles you would like to be alerted before a specific maintenance item is due. In the example above, you would be alerted 100 miles before the actual mileage it is due.



STEP 2 - Press the arrows to adjust the value. Then press Enter.



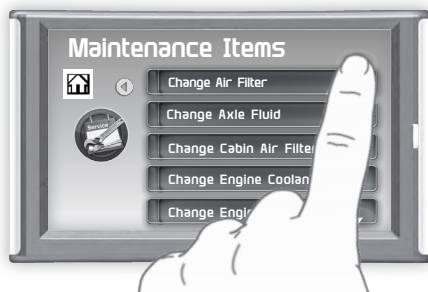
Customizing Maintenance Items

Once the odometer has been updated, you may begin to modify each of the specific maintenance items.

STEP 1 - While in the Maintenance Manager menu, Press the Maintenance Items button.



STEP 2 - Scroll through and select an item from the list.



Enter the interval (in miles) in which you would like the item to alert you. In this example, you will be Alerted every 3000 miles to change your oil.

NOTE: Refer to your vehicle user manual to determine what interval is recommended for each Maintenance Item.



Turning On an alert means the item is now being managed

Press the Service Performed button each time the item is serviced. This will reset the mileage for the Next Service.

Based on the Odometer value you previously input, and the Interval value above, the Mileage that will read on the vehicle odometer at the time of required service will be calculated and displayed.

Mileage Coach

Mileage Coach Set Up

The Mileage Coach feature provides useful tips and tools that help you learn ways to improve your fuel mileage.

STEP 1 - Enter the Quick Link menu.

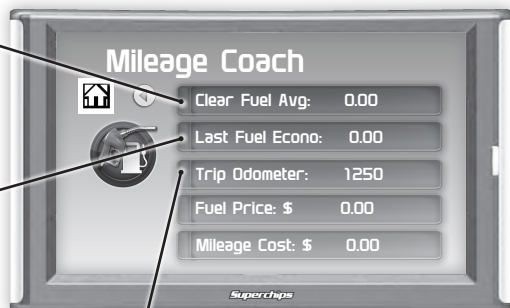
STEP 2 - Press the Mileage Coach Icon.



STEP 3 - Scroll through the list and adjust each item according to your individual requirement.

The Clear Fuel Average option clears the calculated average displayed in the Mileage Average PID.

The Last Fuel Economy option allows you to enter your actual Fuel Economy value. This value is important and should be calculated and entered regularly. This can be manually calculated by dividing the distance travelled by how much fuel you have used ($\text{Distance}/\text{Fuel} = \text{Fuel Economy}$). Some vehicles have their own Fuel Economy average that is displayed in cab and may be used instead of a manual calculation.



The Trip Odometer is used to calculate the Trip Cost and Fuel Average.

The Mileage Cost is a calculated average based on how many miles you have traveled and the Fuel Price you entered.

The Trip Cost is calculated from the Fuel Price and the Trip Odometer values.

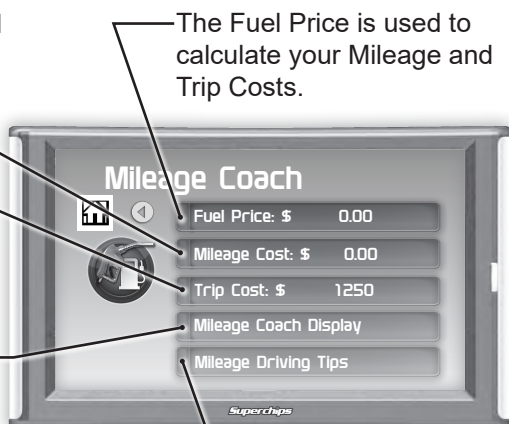
There are two ways to display the Mileage Coach PID:

Show Difference

Displays the difference between Instantaneous and Average fuel mileage.

Show Values

Displays as: Instantaneous | Average.



Mileage Driving Tips are intended to give you general information regarding driving habits or anything that will help maximize your fuel economy and overall driving experience.

STEP 4 - Refer to the Individual Gauge Set Up section of this manual to display one or all three Mileage Coach PIDs on the main gauge screen.

Mileage Average displays the calculated average MPG or L/100km and is updated continuously while driving. The average is calculated only when the PID is being displayed on the main Gauge Screen. This value will typically change more during start/stop driving, and less on the highway.

Mileage Instantaneous - shows a conscientious driver how to vary the pressure on the gas pedal to save fuel every second. The value is displayed in either MPG or L/100km.

Mileage Coach - takes the Average and Instantaneous values mentioned above and creates a visual tool to help maximize your fuel economy. This PID is best viewed using one of the Analog Gauge locations.

Appendix

Limited 1 Year Warranty

Superchips, (hereafter “SELLER”) gives Limited Warranty as to description, quality, merchantability, fitness for any product’s purpose, productiveness, or any other matter of SELLER’s product sold herewith. The SELLER shall be in no way responsible for the product’s open use and service and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by SELLER and BUYER.

The Warranty is Limited to one (1) year from the date of sale and limited solely to the parts contained within the product’s kit. All products that are in question of Warranty must be returned shipping prepaid to the SELLER and must be accompanied by a dated proof of purchase receipt. All Warranty claims are subject to approval by Superchips.

Under no circumstances shall the SELLER be liable for any labor charged or travel time incurred in diagnosis for defects, removal, or reinstallation of this product, or any other contingent expenses.

If the BUYER sends back a failed unit that is out of warranty and chooses to buy a refurbished unit, the refurbished unit will only carry a 90 day warranty. If the BUYER purchases a new unit at a predetermined discounted rate, it will have the standard 1 year warranty.

Under no circumstances will the SELLER be liable for any damage or expenses insured by reason of the use or sale of any such equipment.

THE INSTALLATION OF THIS PRODUCT INDICATES THAT THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS ITS TERMS AND CONDITIONS. IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT, THE BUYER MAY PROMPTLY RETURN THIS PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM DATE OF PURCHASE FOR A FULL REFUND.

NOTE: This warranty is void for any new products purchased through auction web sites. Warranty is valid only for new products purchased through Authorized Dealers (proof of purchase required for all warranty claims).

Important Information about your Vehicle's Warranty

Many of our customers ask, "Will your product void my vehicle's manufacturer's warranty?" While the answer is straightforward from a legal standpoint, it's important to educate our customers (and all aftermarket consumers) on some industry realities and offer some common sense precautions to minimize your risk. Superchips is committed to providing quality products that are safe to use. Our products do not cause damage to a vehicle when used as intended.

CAUTION: Operate your vehicle within manufactures recommended load and weight limits as shown in the Manufactures Operator Manual. Please keep in mind that towing in anything higher than the towing level and hard driving in race or extreme performance levels using Superchips is not recommended.

Consumers of aftermarket products are protected by the Federal Magnuson-Moss Warranty Act. The Act states that if something breaks on your vehicle and you take it in for warranty repair, the dealer must honor your warranty unless whatever modifications you have added to your vehicle actually caused the problem in question. However, the reality is that many dealerships have been known to void warranties on vehicles that use aftermarket products as a matter of policy. This applies in particular to those aftermarket products that produce horsepower, such as performance enhancement "chips," modified intake manifolds, or aftermarket exhaust systems, regardless of product brand.

You have strong legal protection as a consumer in regard to your vehicle's warranty. However, Superchips strongly recommends you always disconnect and remove your module/programmer and monitor when you take your vehicle to a dealer for warranty work. In addition, leaving the product connected may affect dealer diagnostic analysis and scan tool functions. Superchips makes every effort to produce product that can be easily removed.

NOTE: Even if you disconnect your unit, your dealer can detect the use of any programmer—even if the unit has been removed.

Service Center and Compatibility Cautions

CAUTION: RETURN YOUR VEHICLE TO STOCK BEFORE TAKING IT TO A SERVICE CENTER.

All Superchips programmers are built to operate with OEM calibrations. If you take your vehicle to a service center they may, by your request or otherwise, update your vehicle's calibrations. If this happens and your vehicle has not been returned to stock your device will no longer be capable of programming your vehicle. Therefore it is important that you return your vehicle to stock before taking it in for service. Superchips updates its active products (i.e. those currently being manufactured) to work effectively with updated OEM calibrations. However, this process can take some time as Superchips is not always made aware of calibration changes made by the OEM. In the case of discontinued products, Superchips cannot ensure that your unit will work effectively if you take your vehicle to a dealership and you are given, by your request or otherwise, a new calibration.

CAUTION: If you have used another tuner/programmer on your vehicle, you will need to program the vehicle back to stock and remove the device before using the programmer. Failure to return to stock may result in PCM failure or engine damage. Programming your vehicle may expose existing defects in the vehicle's PCM that could disable your vehicle. It is advised that you do not program your vehicle in remote locations in case of vehicle failure.

CAUTION: The TrailCal programmer was developed on a stock vehicle with no aftermarket bolt-on parts; as such, the performance changes implemented by the TrailCal may not be compatible with certain aftermarket power add-ons. See below for a brief explanation of how the TrailCal tuning may be affected by certain aftermarket devices.

Tips

Tip: Programming your vehicle may expose existing defects in your PCM that could disable your vehicle. It is advised that you do not program in remote locations in case of failure. Vehicle manufacturers do not recommend programming in extreme temperature. Please see your vehicle service manual to ensure that programming is being done in accordance to the original equipment manufacturers specifications.

Tip: If any problems persist, contact Superchips Technical Support. Please have the product Serial Number and Vehicle Information prior to calling Technical Support. This will help ensure quick and accurate support.

Tip: When taking your vehicle to the dealership to get work done, it is always a good idea to program the vehicle to stock before taking it in for service. In many cases, the dealership has new updates for the vehicle, and consequently will update the vehicles computer. If your vehicle is programmed to a power level, the dealership update will over write the programming and lock the device.

Trouble Shooting

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Display beeps for two seconds (long beep)	The unit is too hot from being in the direct sunlight	Once the device cools down the screen will turn itself on
No display when the key is in "on" position	The unit will not wake up with the key in the "on" position until the screen is touched.	Touch the screen or start the vehicle, if this does not turn the screen on then you will need to call technical support
Vehicle does not start after programming	The calibration may have not written correctly	Select "Return to stock" from the programming menu. Then, Program back to stock. Now, try to start the vehicle again. If the problem continues contact technical support
Fusion drivers will not install correctly	The drivers were not successfully installed by the automatic installer	Manually install the drivers, technical support can provide you with instruction on how to do this
Camera picture is frozen	Bad connections	Cycle the key off and on. Double check your fuse and connectors.
Error 16 when programming	There was a communication error	Try to program the level again
Display beeps quickly	Possible device malfunction	Update the device using the fusion software
Unit will not power up.	Typically this issue is caused by a blown OBDII/Cigarette Lighter Fuse.	Replace fuse and test unit again.
Programming errors: 1. Your device gets stuck on the "Uploading Boatloader" screen 2. An error is displayed: "ERROR-We could not upload the bootloader to the vehicle..." 3. If you are constantly asked to make sure your key is on. 4. Error displayed after your device shows blank gauges and says that it is loading. The error will be displayed as "Cannot communicate with vehicle, ensure the key is in the on position..."	Sometimes programming can be disrupted by installed aftermarket devices that are tapped into the vehicle communication lines (J1850). These may include but are not limited to aftermarket radios, chime boxes, remote starters, ect. Also, any power consuming devices should not be plugged into the cigarette adapter during the programming process. Fluctuations in power may disrupt the programming process.	The following solutions are good first steps to getting around these programming errors. If these steps do not solve your problem, please contact Tech Support: Fuses: (CAUTION: Always turn the key off while unplugging fuses). 1. Remove fuses connecting radio, radio amplifier, satellite radio, remote starter, or any other aftermarket device you have installed on your vehicle. Power: 1. Close all doors during programming. 2. Do not operate electrical accessories (radio, windows, wipers, ect.) 3. Remove any devices plugged into the cigarette lighter or any other auxiliary power port.

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