JUICE ATTITUDE CTS3

IAT 92 °F

SPEED 68 MPH

PWR LEVEL 3

EGT °F 1209

ECT 182 °F

GEAR 4

RPM 2508

EDT 203 °F

FUEL 48 PSI

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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.

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, the following warning message will appear when powered on. Swipe the screen upward to read the full disclamer.

> **⚠ 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 CTS3, CUSTOM TUNES, IMPROPER USE OF CALIBRATIONS, MALFUNCTION OR LACK OF LEGAL COMPLIANCE FOR CUSTOM PROGRAMS CREATED BY THIRD PARTIES. DO YOU AGREE?*

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

Safety Guidelines

<table>
<tr><td>⚠ WARNING</td></tr>
</table>

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.

FCC Compliance

Contains FCC ID: TFB-1003
Contains IC: 5969A-1003

Edge Products CTS3 Programmer
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this device not expressly approved by Edge Products, LLC could void the user's authority to operate the equipment

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

RF Exposure
This equipment complies with radiation exposure limits set forth for an uncontrolled environment. This equipment is in direct contact with the body of the user under normal operating conditions. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Compliance Cont'd

Cet equipment est conforme aux limites d'exposition aux radiations dans un environnement non controle. Cet equipment est en contact direct avex le corps de l'utilisateur dans des conditions de fonctionnement normales. Cet emetteur ne doit pas etre co-localisees ou operant en conjunction avec tout autre antenne ou transmetteur.
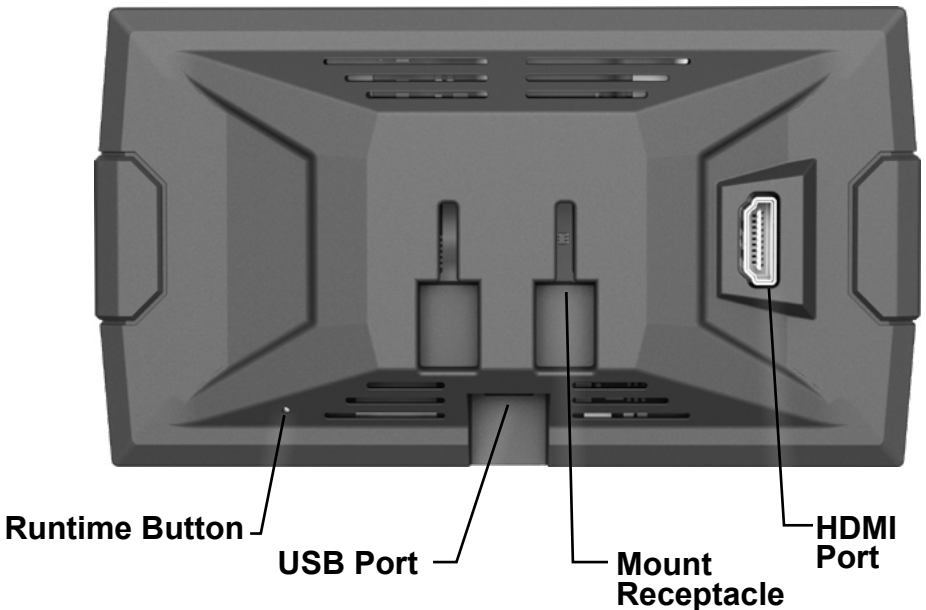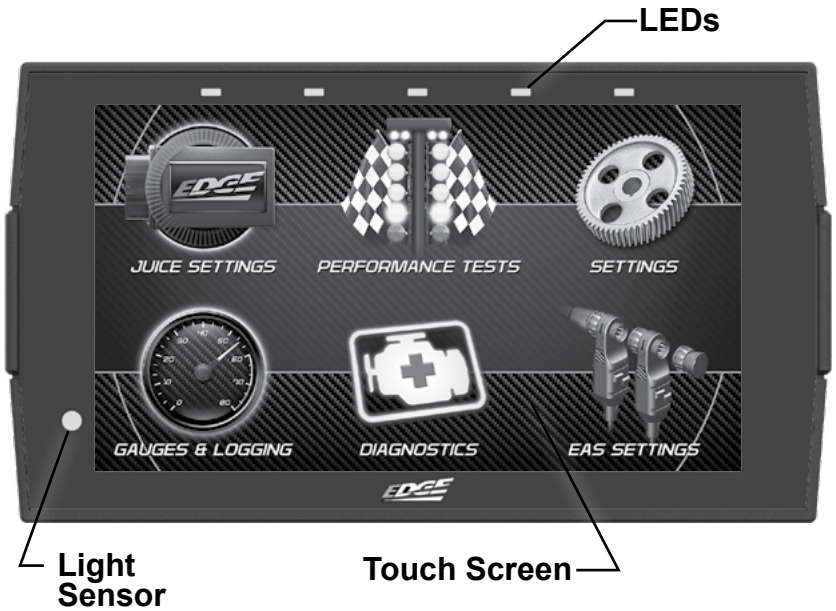
Industry Canada
This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes: (1) ll'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnememnt.

Quick Start

In-Cab Display

LEDs

JUICE SETTINGS

PERFORMANCE TESTS

SETTINGS

GAUGES & LOGGING

DIAGNOSTICS

EAS SETTINGS

Light Sensor

Touch Screen

Runtime Button

USB Port

Mount Receptacle

HDMI Port

Accessories

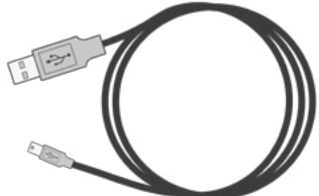## Windshield Suction Mount

Alcohol Wipe

Iso-
propyl

OBDII to HDMI Cable

HDMI

EAS
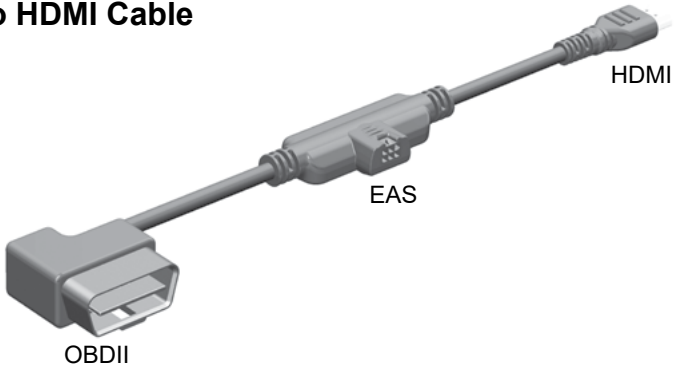
OBDII

Zip Ties

USB Cable

Cable Installation

① Locate the OBDII port. The connector is typically found directly below the driver side dash console.

② Plug the OBDII connector into the vehicle port.

③ Route the HDMI connector 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 panel open until the display is installed.)*

Windshield Mount Installation

① Use the alcohol wipe to clean the windshield in the area you plan to place the suction cup. Allow the glass to dry completely.

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

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

④ Plug the HDMI connector into the back of the device and slide the device onto the mount.
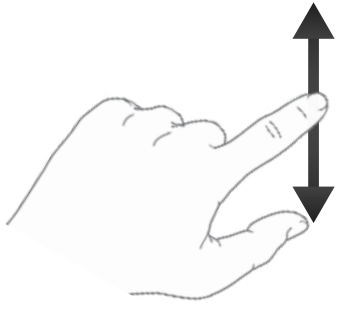
Touch Screen

Use these gestures to navigate and control the display.

Press/Select

Select options, input values, enter menus, etc.

Vertical Swipe

Drag up or down menus, and scroll through menu items.

Horizontal Swipe

Scroll through gauge screens or change option values.

Double Tap

Enter sub-menus such as gauge editor.

Main Menu

The Main Menu displays each of the menu options available on your device. While navigating the menus, you will notice the Main Menu icon. → 🏠 Press this icon to take you directly back to the Main Menu.

To navigate to one of the 6 menu options, simply select an option icon.
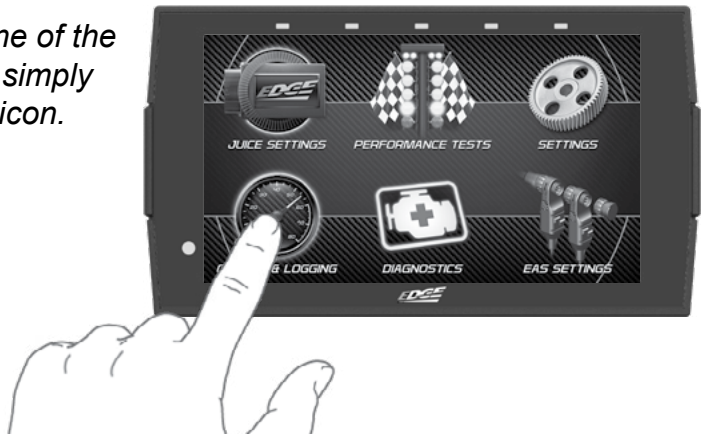
Menu Options	Basic Descriptions
Juice Settings	Change specific settings controlled by the Juice module.
Performance Tests	Quickly and easily test your new tunes & performance.
Settings	Adjust device settings to better fit your needs.
Gauges & Logging	Monitor and record your vehicle performance.
Diagnostics	Diagnose and clear trouble codes.
EAS Settings	Configure EAS Accessories.

NOTICE: Tuning options not available on the CTS3 Insight

⚠ **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.*

Update Software

Downloading Update Agent 1.0

Update Agent 1.0 may be used to update the device via the USB connection. The software may be downloaded to the computer using either the internet, or a downloader installed on the device.

① **Method 1 - Internet**	**Method 2 - Device**
A) Go to www.edgeproducts.com B) Select the SUPPORT tab at the top of the page C) Select Software Updates D) Select the Download Update Agent 1.0 link for either Mac or PC (Windows)	A) Connect the device to a computer using the supplied USB cable. B) Browse the file explorer and locate the CTS3 drive. C) Double-click the drive and open the folder labeled "Updater". D) Inside the Updater folder, double-click the Mac or Windows folder depending on the computer type. E) Double-click the IgnitionInstaller. It is updater.sh for Mac users.

② Click the RUN button on the pop-up menu.

③ Read and click the box to accept the license agreement terms, then select INSTALL.

NOTE: If you are asked to install the Universal Serial Bus, Click the Install button to continue.

④ Select the CLOSE button after the installation has successfully completed.

⑤ Double-click the Update Agent 1.0 desktop icon.

⑥ Fill out the registration form.

⑦ Refer to the next page for performing product updates.

NOTE: Edge Products makes updates available periodically to add coverage and features. Updates could include a new version of the update software. When you elect to update, please refer to the "Download" tab and follow instructions for CTS3 updates in the event software should upgrade.
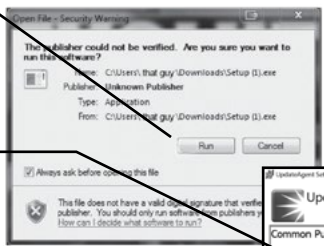
Product Updates

This device has the ability to update via a USB connection or a wireless connection. Refer to the following information for USB updates. Refer to the Check for Updates feature under the Settings section for more information on wireless updates.

1. Open the **Update Agent 1.0** program, located on the desktop.
2. Connect device to the computer using the supplied USB Cable.
   (Update Agent 1.0 will automatically search for updates related to the device.)
3. Click the **Update** button.
   (The update process will start and finish automatically. Once the update is complete, you may be directed to the **Online Store**. To further update your device using the online store, refer to the following steps.)
4. Click on any or all of the available options.
   (A check mark will appear in the upper right corner.)
5. Click the Purchase button.
6. If required, read and **Accept** the disclaimer.
7. Fill in the required information and click **Go to Review**.
   (Here you can check the info you entered before submitting.)
8. Click the Place Order button to complete you order.
9. If a purchase was made, follow steps 1-3 above to complete the update.

NOTE: A warranty is available in the Online Store to protect the hardware and mechanical components of your CTS3 device.
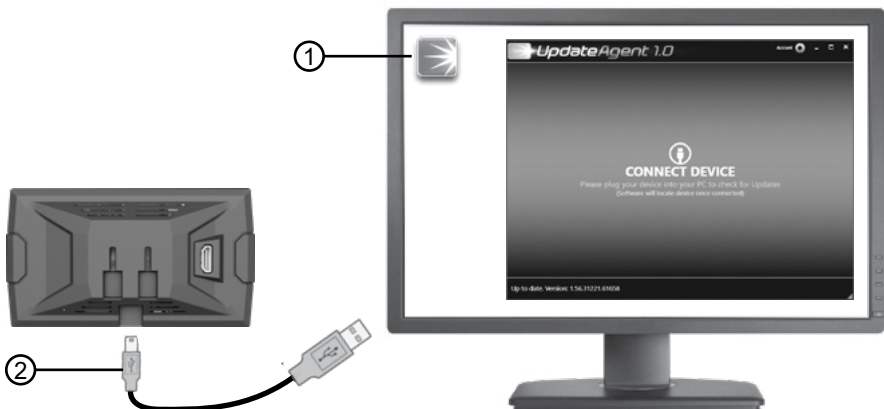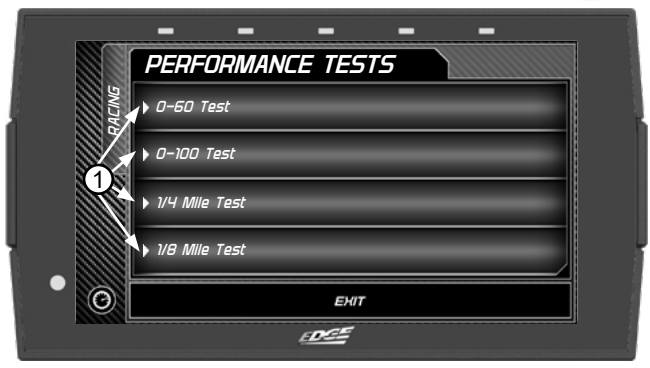
Performance Tests

0-60, 0-100, 1/4 Mile, & 1/8 Mile Tests

While in the Main Menu, select the **Performance Tests** icon→
A list of tests will appear. Use the following information to learn
more about each test.
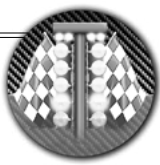
① Select the
Performance Test that
you would like to start.

*NOTE: There are two ways to perform these tests. The use of a drag
tree, or a stop light. Refer to the following for more information.*

Drag Tree

② When the vehicle
is in place, select
the **Start** button to
initiate the drag tree
sequence.

③ Once the two green
lights are lit up, release
the brake and proceed
to accelerate.

*NOTE: The time gauge
will read JUMP if you've
started before the
drag timer completed
its countdown. If this
occurs select RESET
and start over.*

*TIP: Select the back button
to return to the main menu.*

From Stop

④ Switch methods by clicking the middle button.

⑤ When the vehicle is in place, release the brake and proceed to accelerate.

TIP: Select the back button to return to the main menu.

NOTE: Once the speed has been reached, the test will stop and the results will be displayed. A digital drag slip will be created, providing run information such as reaction time, speed at specific distances, and other useful information.

⚠ WARNING *Do not exceed legal speed limits on public roadways.*

⚠ WARNING *Running performance tests with this product should only be conducted 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.*
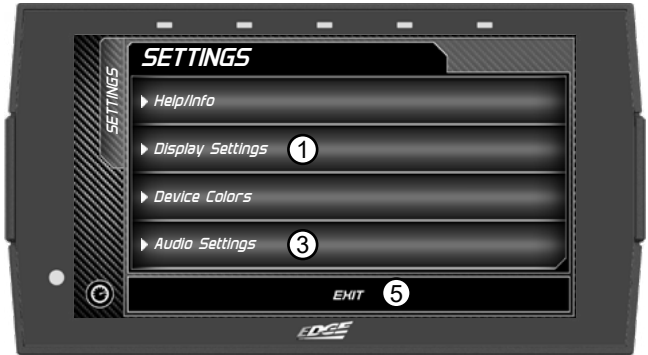
Settings

Display & Audio Settings

While in the Main Menu, select the Settings icon. ⟶
A list of settings will appear. This section explains what these
settings are and how to use them.

① Select the **Display
Settings** option.

② Modify each setting
by adjusting its
corresponding setting
value.

Display Settings:
Day Mode Brightness
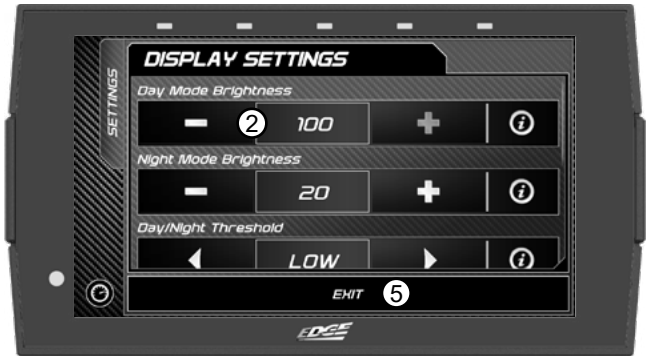Adjust the display
brightness for daylight
driving.
Night Mode Brightness
Adjust the display
brightness during night-
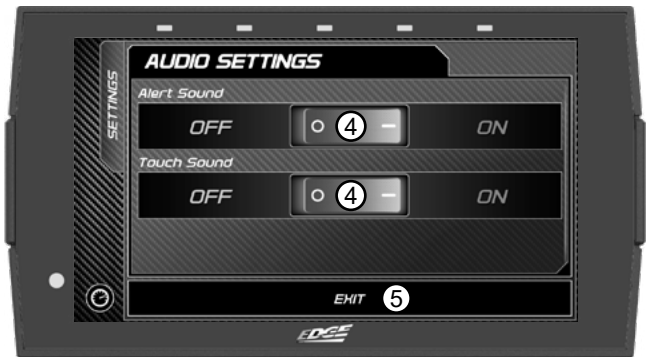time or low-light driving.
Day/Night Threshold
Adjust the threshold of
when day mode turns to
night mode.

LED Brightness Adjust the brightness of the 5 device LEDs.

③ Select the **Audio
Settings** option.

④ Turn On/Off the
global Alert and Touch
sounds

Red = OFF
Green = ON

⑤ Press **Exit** to return to the main settings menu.

Device Colors

Change and modify device colors for background and borders.

① Select the **Device Colors** option.

② Select **Background Tinting Color** or **Keyline Color Setting**.
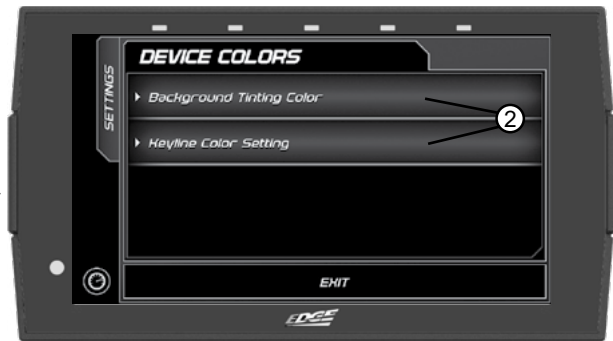
③ Select what color you would like your background or keyline to be.

④ Press **Save** or **Back** to exit and return to the Device Colors menu. Selecting **Back** will offer the option to save the changes.
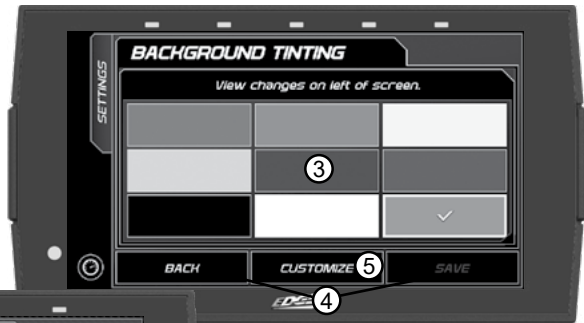
⑤ Select **Customize** to make custom colors instead of using the standard colors offered.
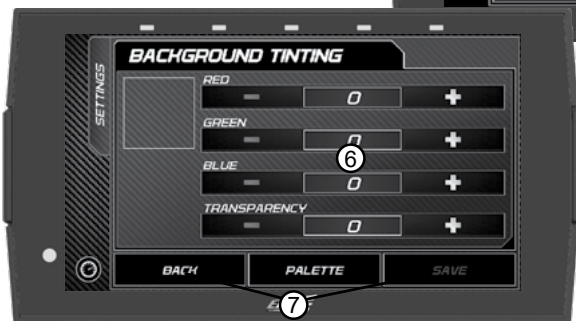
⑥ Adjust the numbers by tapping the "0" to open the numberpad and type in a number, or tap + or -.

⑦ Select **Save** or **Back** to return to the menu.

Wi-Fi Setup

This device is equipped with the ability to connect to and update over a secure Wi-Fi connection. For more information on how to check for updates, refer to the **Check for Updates** section of this manual.

① Select the **Wi-Fi Setup** option. A list of available networks will appear.

NOTE: You may need to put in an email address before connecting to a network. Put in the same email you registered the device with.

② Select the network that you would like to connect the device to.

A green check mark will appear when the device is connected.
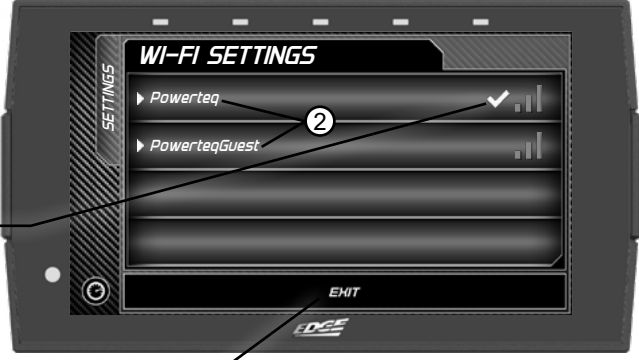
TIP: Select the exit button to return to the gauges.

③ Use the **keypad** to enter the network password, then press **Enter**. Note that most networks are case sensitive.

Check for Updates

If the device is connected to Wi-Fi, click this option to look online for updates. If updates are available, the device will provide the option to perform the update.

(1) Select the **Check for Updates** option.

Note: If Wi-Fi is disconnected, the device will prompt you to configure a network first.

(2) If connected to Wi-Fi, the device will locate our server and check for any updates. If there are any, it will prompt you to download and install the updates.

(3) Follow the on-screen instructions to complete the update process. If asked to reboot the device, press **continue** as prompted. The update should be completed after reboot.

Unit of Measure

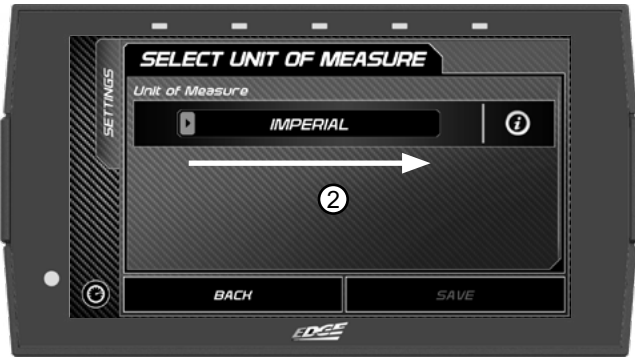Use this setting to globally modify the device to use Imperial or Metric units.

① Select the **Unit of Measure** option.

② Select Imperial or Metric, then hit save.

NOTE: You will need to unplug the device for the changes to take affect. DO NOT unplug the device while driving.

Tire Size

① Double tap the C-Speed on the gauge screen.

② Select **Save** and follow the on-screen prompt to the tire size menu.

Tire Size Cont'd

③ Select the Tire Size from the menu that needs to be modified.

④ Select the size accordingly and use the tabs above for other available options.

⑤ Select **Save** to save any changes and return to the menu, or **Back** to return to the menu with the option to not save any changes.

Restore Default PIDs

Use this setting to restore the default PID list.

NOTE: This will NOT restore your vehicles' factory data.

① Select the **Restore Default PIDs** option.

② Press continue to restore the default PID list.

③ Device will reboot automatically.
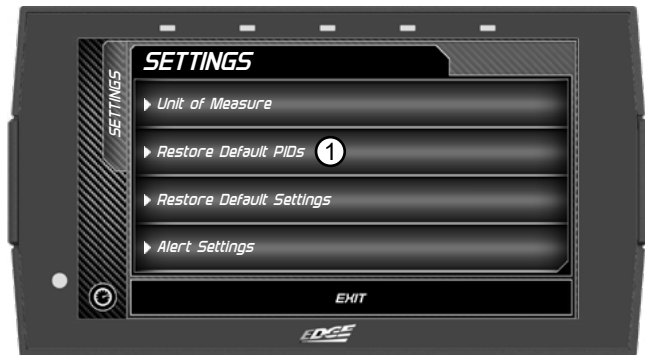
Restore Default Settings

Use this setting to restore the device back to the factory settings.

NOTE: This will NOT restore your vehicles' factory data or unmarry the tool from your vehicle.

① Select the **Restore Default Settings** option.

② Press continue to restore all user settings to the factory default values.

Alert Settings

Use this setting to globally turn on/off gauge alerts

① Select the **Alert Settings** option.

② Turn the setting ON or OFF using the toggle switch.

③ Select **Exit** to return to the Settings menu.

Gauges & Logging

Gauge Layouts

While in the Main Menu, select the Gauges & Logging icon. →
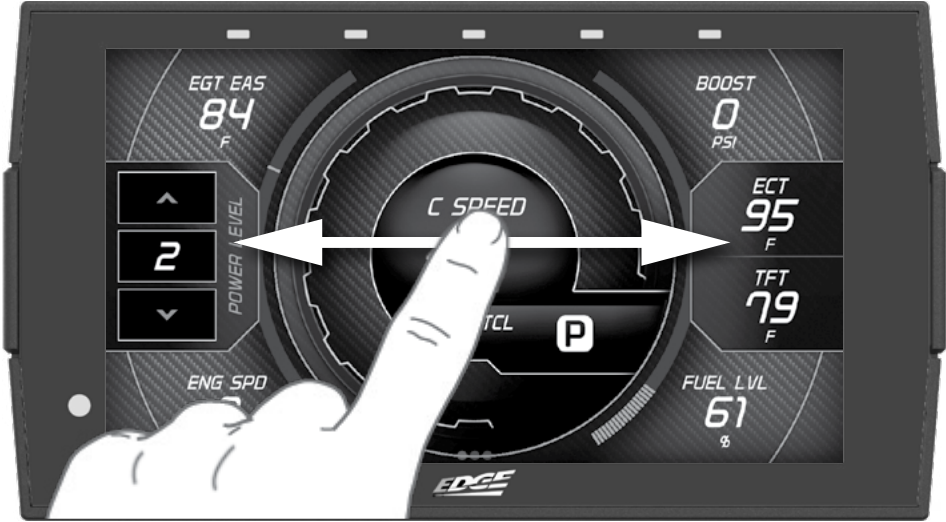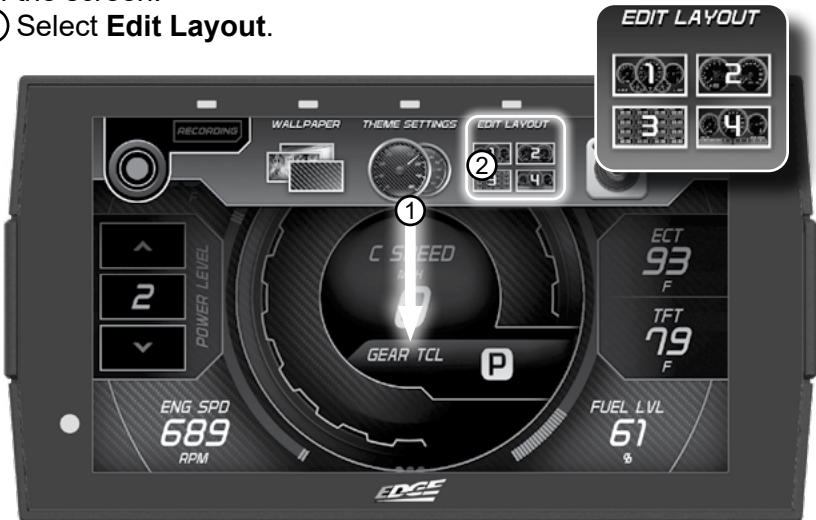The first of 3 gauge layouts will be displayed. To toggle
between screen layouts, swipe the screen Left/Right.

To edit the Gauge Layouts:

① Open the pull-down menu by swiping downward, starting from the top
of the screen.

② Select **Edit Layout**.

③ Once the Layout Editor is open, select one of the 3 layouts.

TIP: Select the Trash Can icon to delete the current layout settings.

TIP: The Reset Layout option resets the layout to the factory default, including PID selections.

④ Toggle through the screen style options by either swiping the image up/down, or selecting the up/down arrows.

⑤ Press the **Select** button to choose the new layout style. You will be brought back to the Layout Editor screen.
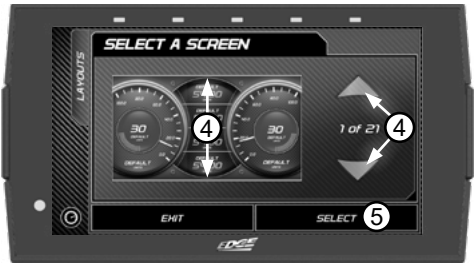
⑥ Press the **Save** button on the Layout Editor screen. You will be given the option to **Save as new Layout**. Use the keypad to enter a name for your custom layout then press **Save**.

TIP: Select the back button to return to the gauges.

TIP: Option to load different layouts.

Theme Settings

Change and modify individual gauge element colors & transparency.

① While the Gauge Screen is in view. Open the pull down menu by swiping downward starting from the top of the screen.

② Select **Theme Settings**.
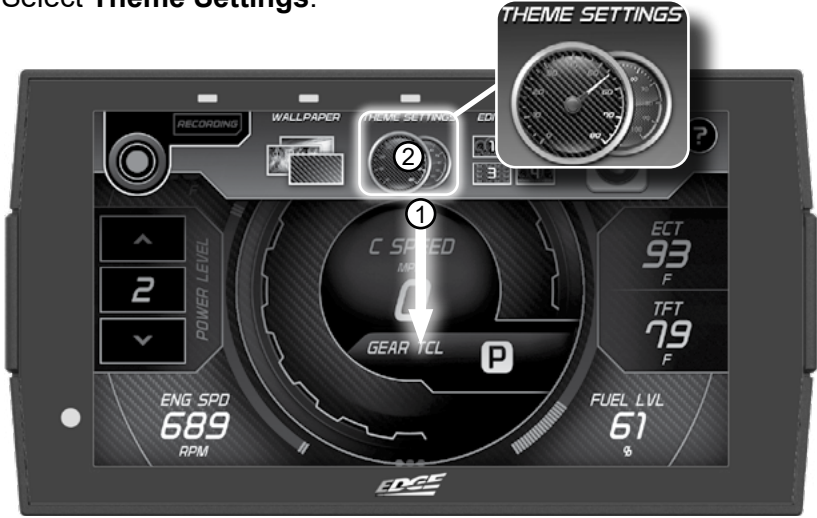
③ The following editor will come into view, showing your options.

④ Select **Save** to apply the changes.

TIP: Touch the gauges to view them in their normal, warning, and alert states.

TIP: Select the back button to return to the gauges.

Backup Camera

To use a backup camera with the CTS3 device, a camera adapter is required.
This adapter turns your RCA into a USB mini plug to connect to the CTS3.
Visit https://edgeproducts.com for more information.

The camera has to be connected to the CTS3 before the device boots up to be recognized.

When the CTS3 can detect the gear parameter from the automatic transmission, the camera will automatically display when the vehicle is in reverse gear.

① While in the Gauge Screen, open the pull-down menu by swiping downward starting from the top of the screen.

② Select the camera icon.

③ Touch the screen to return to gauges.

Wallpaper

Change the background image displayed on the device.

① While the Gauge Screen is in view, open the pull-down menu by swiping downward, starting from the top of the screen.
② Select **Wallpaper**.
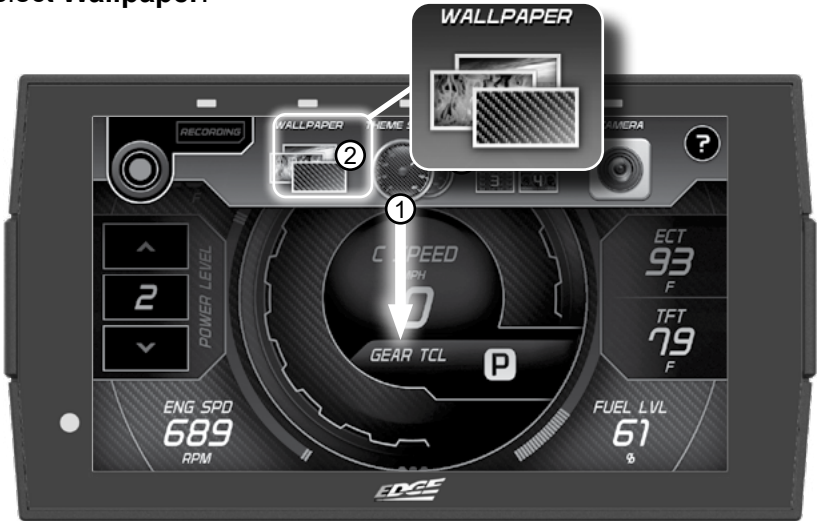
③ Toggle through the available background images by either swiping up/down on the image, or using the up/down arrows.
④ Press the **Select** button to apply the background image.

*TIP: Select the **Exit** button to return to the gauges.*

Custom Wallpaper

Add custom wallpapers to be displayed as the device background.

① Plug in the device and find the cts3 folder on your PC and open it like you would a flashdrive.

② The cts3 device folder should show a Backgrounds folder.

③ Drag or save any images wanted as a background into that folder.

④ Return the device to your vehicle and follow the steps to change your wallpaper. Any images added will automatically appear in your wallpaper list.
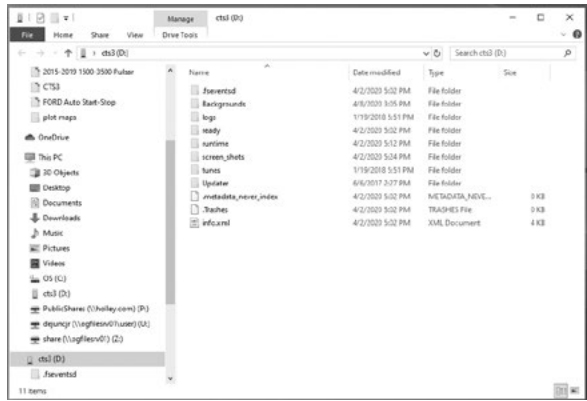
NOTE: The suggested image size is 1280 x 720. Anything smaller will be automatically centered by the CTS3. The image should be a .jpg, .png, or .gif. The device will also begin to slow down the more images there are. The recommended number is five images.

Individual Gauge Setup

Each gauge within a gauge layout can be modified individually. Settings such as Unit of Measure, PIDs, Alert Settings, & Tick Marks may be modified.

PID Selection:

① With the gauge screen in view, **Double Tap** the individual gauge to be modified.

② Select a PID from the provided list. Swipe up/down to see the entire list.

③ A green check mark will appear next to the selected PID.

④ If the PID measures temperature, speed, or pressure use the provided toggle switch to change between Metric or Imperial units.

⑤ Select **Save** to apply the changes.

TIP: If you don't see what you want and need a more expansive list, change between Basic and Advanced PIDS.

TIP: The Information icon provides more detail regarding the PID.

TIP: Select the back button to return to PID groups.

Alert Settings:

① Select the ⚠ icon.

② Use the 3 toggle buttons to toggle each option on/off.

❗ Alerts On/Off

🔊 Alert sounds On/Off

💬 Warning On/Off

TIP: Select the back button to return to the gauges.

③ To adjust the warning and alert values for the PID, use the value editors. ***Tap on the center value to open a keypad to set specific values.***

④ Select **Save** to apply the changes.

Tick Mark Customization:

① Select the ✖ icon.

② With the min/max values, you can adjust where the gauge starts and ends.

③ Adjust the number of Minor Tick Marks visible on the gauge.

④ Adjust the number of Major Tick Marks visible on the gauge.

⑤ Select **Save** to apply the changes.

TIP: Select the back button to return to the gauges.

Pitch / Roll G-Force Screen

Each CTS3 device gives you the option to check the pitch and roll of your vehicle.

① With the Gauge Screen in view, open the pull-down menu by swiping downward, starting from the top of the screen.

② Press the **Layout Editor** and choose which screen you wish to replace.

*TIP: You can find your saved layouts by selecting **Load**.*

③ Once selected, using the up and down arrows, select the **Pitch / Roll G-Force Screen**.
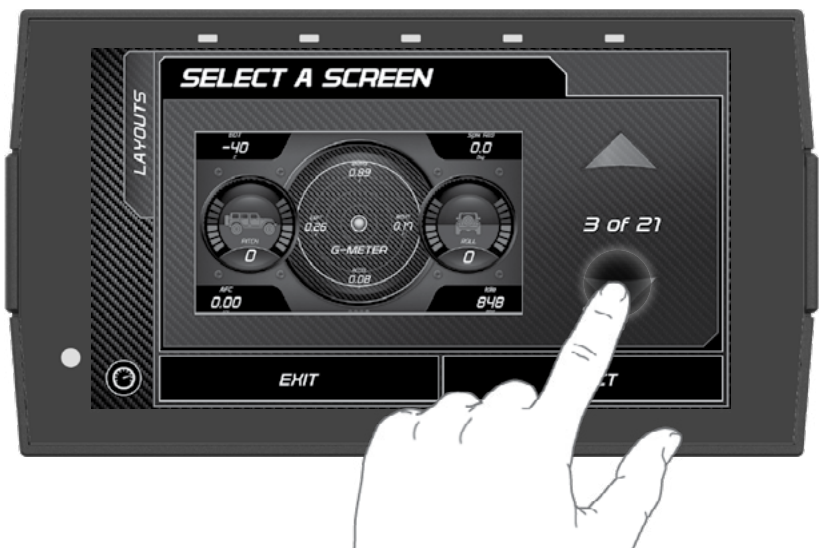
Pitch / Roll G-Force Screen Cont'd

④ Select **Save** and choose to create or replace a layout.

⑤ Select **Back.** When the Gauge Screen is in view, swipe right until you're on the Pitch / Roll G-Force Screen. Swiping right or left will depend on what screen you chose to change in step 2.
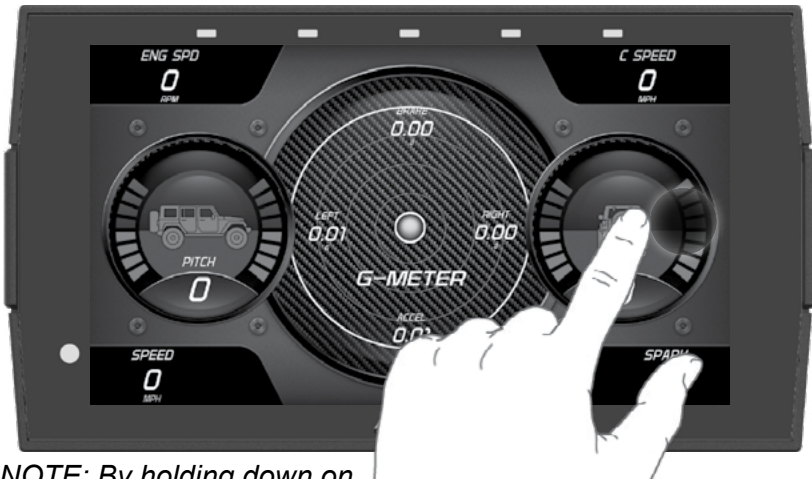
NOTE: By holding down on the pitch / roll gauge for three seconds, you can level the gauges and G-Meter out to 0.

Recording

Use the recording option to log and save vehicle data.

①　With the Gauge Screen in view, open the pull-down menu by swiping downward, starting from the top of the screen.

②　Press the **Record** button to start the recording process. When the desired amount of information has been gathered, press the **Stop** button.

NOTE: The LED above the recording icon will shine red during the recording.

Record　*Stop*

DataViewer Download

This windows software allows OBDII data logs that were recorded with the Edge Products tuner to be opened and viewed. This software can be downloaded from the Edge Products website.

①　Go to: www.edgeproducts.com

②　Click the SUPPORT tab at the top of the page

③　Select Software Updates

④　Click the Download DataViewer Software link

⑤　Open the download and follow the prompts

DataViewer

After a recording session, unplug the device from the vehicle and follow these instructions.

① Double-Click the DataViewer icon located on your computer desktop.

② Connect the device to the PC using a USB connector.

③ Select the icon and browse to the CTS3 drive.

④ Open the logs folder. Select the log file you would like to open and click the open button to continue.

⑤ Toggle on/off information using the check boxes.

TIP: For more information on DataViewer functionality open the Help menu.
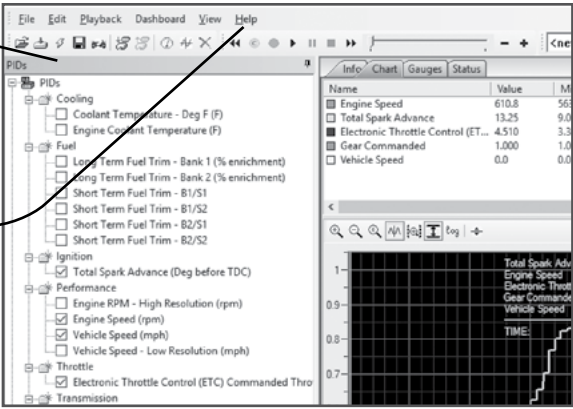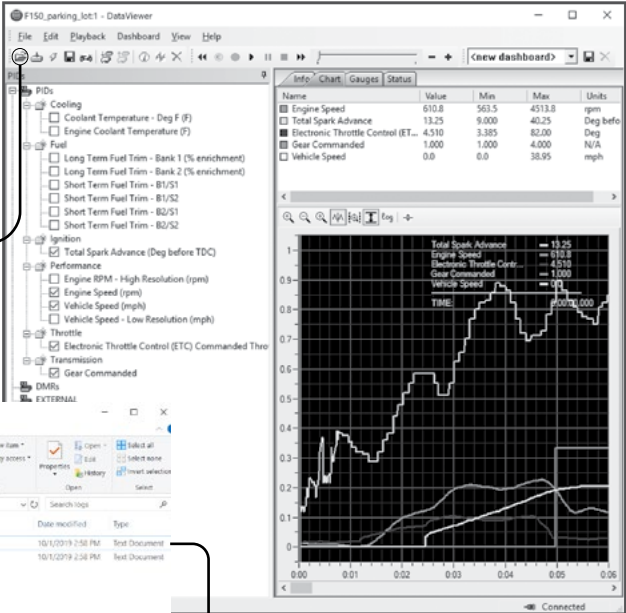
Juice Control

Installing the Juice Hardware

Refer to the Juice Installation Guide for detailed information on how to install the Juice specific hardware (harness, sensors, etc.)

Adjusting Power Levels

While on the Main Gauge screen, press the Up or Down arrows until the desired power level is showing on the indicator located between the two buttons.
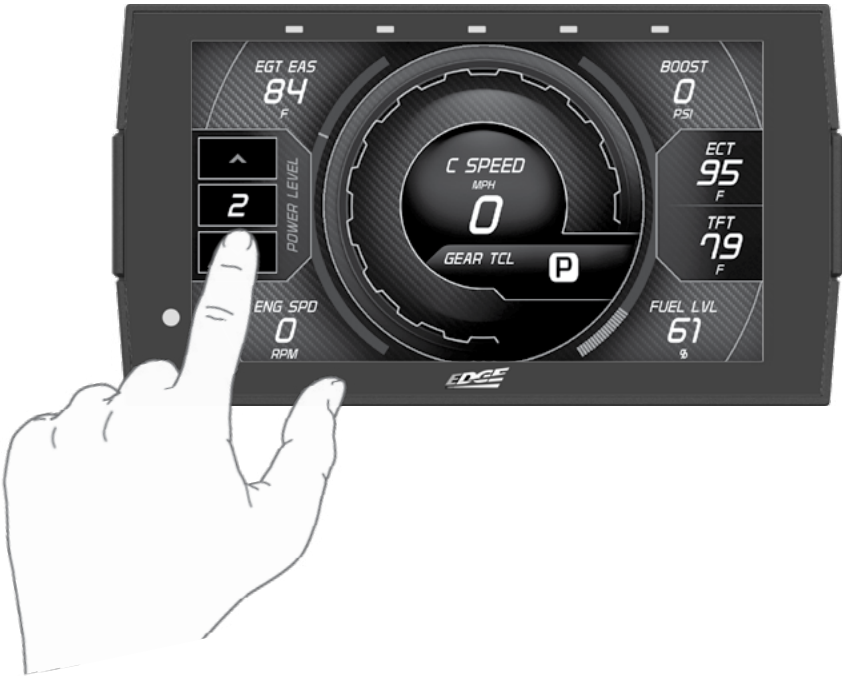
Power Levels Explained

MILEAGE (LEVEL 1) - Recommended for daily driving. The mileage tuning was created for optimal fuel economy under normal driving.

TOW (LEVEL 2) - Recommended when pulling a load. The tow tuning was created to provide power where it is needed most when pulling a load.

DRIVE (LEVEL 3) - Recommended for all around daily driving and per-formance.

RACE (LEVEL 4) - Recommended for sanctioned racing events. The fuel injection and timing strategies are aggressively tuned to pull sub-stantial power gains from the vehicle without sacrificing drive-ability or durability.

EXTREME (LEVEL 5) - Recommended for sanctioned racing events. The fuel injection and timing strategies are aggressively tuned to pull the highest level of power and performance from your vehicle.

HOT UNLOCKER (LEVEL 6 OPTIONAL) - This level should only be used when the vehicle power and drive-train have been upgraded. To unlock this level you will need to:

1. Visit www.edgeproducts.com
2. Click the support tab.
3. Click the "Hot Unlock Codes" option.
4. On the Hot Unlock web page, scroll down to the bottom and choose to either purchase a code online, or download a form for mail in.

Adjusting the Juice Control Settings

This menu allows you to regulate engine power delivery and drive-train performance by enhancing the Engine Control Module (ECM) factory settings through the Juice Module.

STEP 1 - Select the Juice Settings menu.
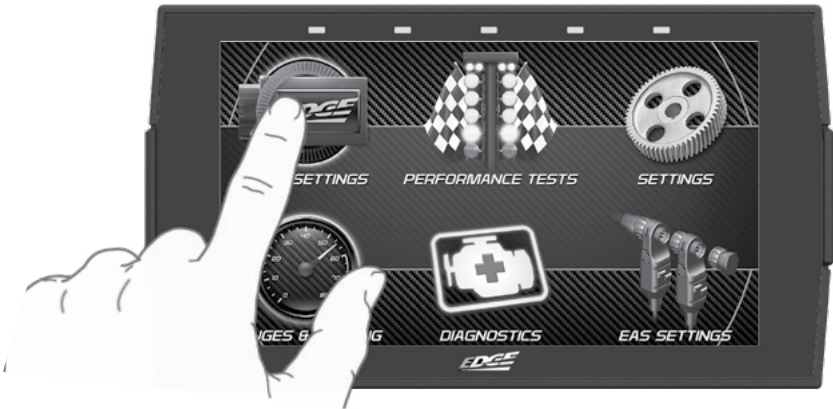
STEP 2 - Select an option to adjust its settings.

STEP 3 - Refer to the following section for more information on each setting and how it is used.

NOTE: The following settings may or may not be available depending on your make of vehicle and/or your Edge Product.

Backdown Settings

Based on certain parameters, the Attitude will automatically defuel the vehicle at a specified set point. As the value approaches the set point, a percentage of de-fueling occurs. This percentage is shown as the back-down value. When 100% is reached, the Juice module is no longer controlling the vehicle.

This is the maximum Exhaust Gas Tempera-ture (EGT) value at which the Attitude will automatically begin to de-fuel the vehicle

This is the maxi-mum Boost value (psi) at which the Attitude will auto-matically begin to de-fuel the vehicle

Press to Enable or Disable the backdown feature
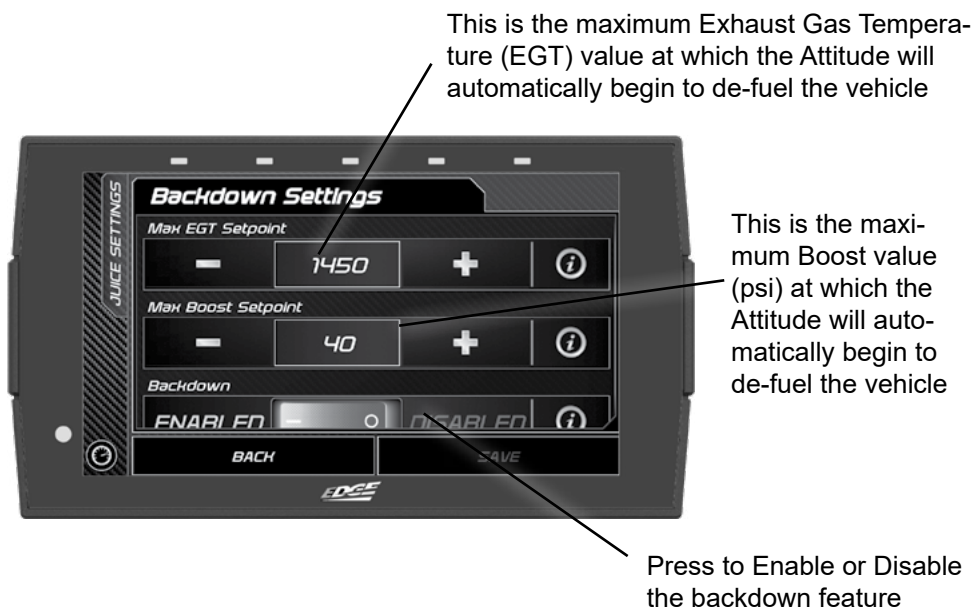
CAUTION: Other high performance modifications in addition to the Juice can allow the fueling to exceed the max set point and stock EGT levels, even after 100% de-fueling by the Attitude. This may result in detrimental EGT levels and potential power-train damage.

Low Boost Response

These settings are used to determine the percentage of the extra fuel that will be added as Turbo Boost increases.

There are 5 settings for each Power Level. If you want the extra fuel to be distributed across a larger range (such as 0-20psi), you would pick a small number such as 1 or 2. If you want the extra fuel to be added across a smaller range (such as 0-5psi), you would choose a more aggressive setting such as 4 or 5.

STEP 1 - Adjust the individual power settings.

STEP 2 - Press the Save button to return to the Juice Settings menu.
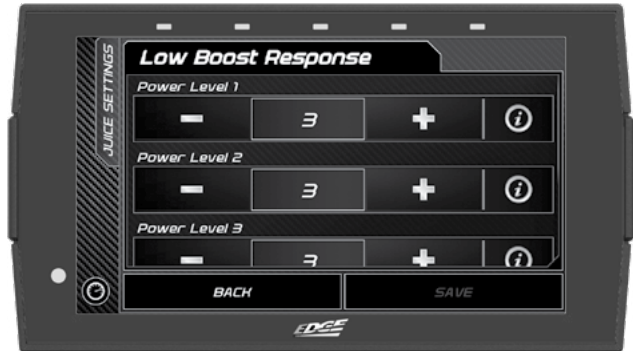
Torque Management

NOTE: Available on on 2013-18 Dodge Diesel Trucks

These settings are used to determine how much fuel will be added during low Turbo Boost conditions.

STEP 1 - Adjust the individual power level settings.

STEP 2 - Press the Save button to return to the Juice Settings menu.

CAUTION: We recommend choosing de-fueling (Yes) during torque converter or clutch slip for stock transmissions. Selecting (No) will allow the Juice to fuel when the transmission slips. (Yes) eases the transmission strain because the Juice lowers its power output when the torque converter or clutch is slipping.

Transmission Setup

NOTE: Depending on your make and model, the following features may or may not be available for your vehicle.

These settings allow for de-fueling during shift & torque converter lock.

    STEP 1 - Select an individual feature.
    STEP 2 - Adjust the settings.
    STEP 3 - Press the Save button to return to the menu.

After selecting this feature, you will be given 3 options:

1. Defuel all shifts
2. Defuel 5-6 (or 4-5) shift
3. No defuel on shifts

Protects your transmission from slipping.

On specific Dodge trucks, after selecting this feature, you will be given 3 transmission options: *NOTE: The right/up & left/down refer to the location of your reverse gear.*

1. Automatic
2. 6spd Right Up
3. 6spd Left Down

Defuel WOT Shifts

NOTE: Depending on your make and model, the following features may or may not be available for your vehicle.

This option allows you to defuel during a shift that takes place at Wide Open Throttle (WOT).

Press the button to toggle this feature On or Off
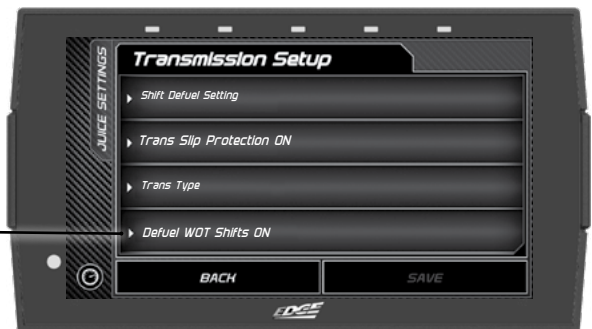
Timing Options

NOTE: This option is only available on specific Dodge diesel trucks.

2006-2012

Juice Timing will allow the timing to be matched with the Juice Power options.

Stock Timing will allow the engine to run according to stock settings.

2013-2018

For each Power level, select a Timing level:

Level 1 = Stock Timing
Level 2 = 25% Juice Timing
Level 3 = 50% Juice Timing
Level 4 = 75% Juice Timing
Level 5 = Max Juice Timing

NOTE: Injector noise can be reduced with less timing. However, the trade-off is less horse power.

Truck Model Year

NOTE: This option is only available on specific Dodge diesel trucks.

Select your truck's model year.

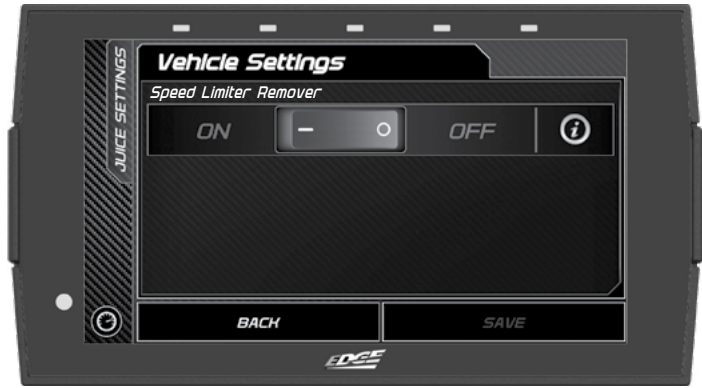This allows the Juice and
Attitude to adjust settings based on your vehicle.

Speed Limiter

NOTE: Depending on your make and model, the following features may or may not be available for your vehicle.

This option allows you to enable or disable the speed limiter.

⚠️ *WARNING: Removal/adjustment of the factory speed limiter is intended for use at a closed circuit, legally sanctioned racing environment. If you drive on public roads after removal or adjustment of the speed limiter, you must still obey all driving laws, including adhering to posted speed limits. To drive at racing speeds on public roads seriously endangers you, your passengers, and others nearby. Also it is your responsibility to ensure your tires and other vehicle components are rated to travel at increased speeds. Driving at high speeds with inadequate tires or other components can lead to serious or fatal injury.*

Caution: Removing/adjusting the speed limiter for purposes inconsistent with the products's intended function violates the product's intended use and will invalidate the product's warranty. Edge Products is not responsible for, or liable for the consequences of improper product use.

Axle Ratio

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

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

Use the -/+ buttons to adjust the ratio, then press Save.

Available Menu Options

These are all available menu options and the menus where they can be found. Depending on your make and model, these options may or may not be available for your vehicle.

Option	Menu	Description
Axle Ratio	Vehicle Settings	Select the Axle Ratio currently installed in the truck. (If aftermarket)
Backdown	Backdown Settings	Enables or Disables Backdown
Clear DTCs Delay	Trouble Codes	The amount of time that the Juice waits before it clears DTCs.
Clear On Start	Trouble Codes	Enables or Disables DTC Clear on Start
Cold ECT Defuel	Backdown Settings	Enables or Disables Backdown while the engine is cold.
Defuel WOT Shifts	Transmission Setup	Enables or Disables Defueling on WOT Shifts
Gear Ratio	Vehicle Settings	Select the Gear (Axle) Ratio currently installed in the truck. (If aftermarket)
Max Boost Setpoint	Backdown Settings	Above this Boost Level, the Juice will enter backdown mode.
Max EGT Setpoint	Backdown Settings	Above this EGT, the Juice will enter backdown mode.
Shift Defuel Setting	Transmission Setup	
Speed Limiter Remover	Vehicle Settings	Enables or Disables Speed Limiter
Target EGT	Turbo Cool Down Setup	If Turbo Timer is set to use EGT, the truck will stay running until EGTs drop below this threshold, after the key is removed.
Target Time	Turbo Cool Down Setup	If Turbo Timer is set to use Time, the truck will stay running for the amount of time selected, after the key is removed.
Timing Options	Timing Options	Adjust Timing options per Juice Level
Tire Size	Vehicle Settings	Enter the current height of the tires, in inches
Trans Slip Protection	Transmission Setup	Enables or Disables Trans Slip Protection
Trans Type	Transmission Type	Select the type of transmission installed in the vehicle.
Truck Model Year	Vehicle Settings	
Turbo Cool Down	Turbo Cool Down	Settings for Turbo Timer Feature
Setup	Setup	
Turbo Timer EGT	Turbo Timer EGT	Select which EGT Sensor to use for the Turbo Timer Target EGT functionality.

EAS Accessories

EAS Overview

The CTS3's functionality may be added upon by use of EAS (Expandable Accessary System) devices. The CTS3 automatically connects to any new EAS devices connected to it before it boots on, and will alert the user.

Upon installation and loading of a new device, the following settings are available:

① **DISPLAY NAME:** Changing this item will change the name of the PID. This name will be shown on the gauges and in the PID selection menu.

② **DESCRIPTION:** Changing this item will change the description of the PID. This is shown when pressing the INFO button when assigning to PID to a gauge.

③ **DISPLAY UNITS:** Changing this item will change the Units when displayed on gauges.

④ **SCALING:** Selecting one of these scaling options will allow the device to display the proper data once placed on a gauge. This selection is required for your EAS accessory to work properly.

⑤ **CURRENT SETTINGS:** This will display the current settings previously saved within the device.

⑥ **RESTORE DEFAULTS:** This will restore all items preloaded with this device in relation within this EAS device.

TIP: These settings can be changed at a later time through the EAS Settings Menu.

EAS Device Instructions

EAS EGT Probe
The EAS EGT Probe does not need any of the pre-defined settings adjusted. However, users have the ability to customize its *Name*, *Description*, and/or *Display Units*.

EAS Universal Sensor Input (5 Volt)
The EAS Universal Sensor Input provides the ability to read any 0-5 volt signals and translate them into meaningful values for display on the CTS3. Use the EAS Settings Menu to properly configure any sensor intended for use with the accessory. There are two channels to this input, Channel A and Channel B. Following the onscreen prompts will allow you to go to each channel's individual settings.

Setting up a EAS branded sensor:
① Enter the EAS Settings Menu.
② Select your Universal Sensor Module (Note: the serial number should match the unit that is connected to the sensor you are attempting to configure).
③ Select the channel that you connected your sensor to, either A or B.
④ Select Scaling and then search the list for the sensor you are using.
⑤ At this point, you can save the settings and begin using the sensor. The name and description will be populated with the default EAS sensor's name, description, and display units.
⑥ Alternatively, you can customize the name, description, and units if you choose. (Note: Changing the sensor's display units does not have any effect on the data being displayed. The sensors scaling is set up for the default display units).
⑦ When in the Gauges mode, you'll be able to apply that sensor to any gauge using the Gauge Editor Menu.

EAS Device Instructions Cont'd

Setting up a custom sensor (non-EAS):

① Enter the EAS Settings Menu.

② Select your Universal Sensor Module (NOTE: The serial number should match the unit that is connected to the sensor you would like to configure).

③ Select the channel that you connected your sensor to, either A or B.

④ Select Name to give your sensor a name (optional).

⑤ Select Description to give your sensor a description (optional).

⑥ Select Display Units to define your sensor's display units.

⑦ Select Scaling and then Custom Scaling.

⑧ From this screen you'll be able to add as many data points necessary to scale your sensor. This information should be provided by the sensor manufacturer. If it's a resistive based sensor, you can toggle from *Voltage* to *Resistance*. Doing this will allow you to also select the pull up resistor value, 1K or 10K.

Voltage/Resistance Toggle

⑨ Once you've added all of the data points to the scaling you can then save all of your sensor's settings.

⑩ When in the Gauges mode, you'll be able to apply that sensor to any gauge using the Gauge Editor Menu.
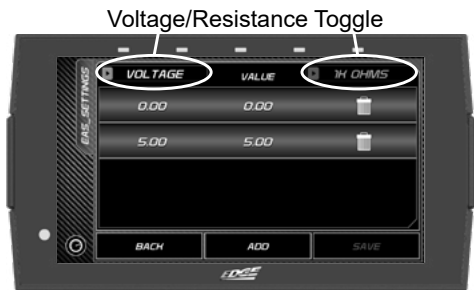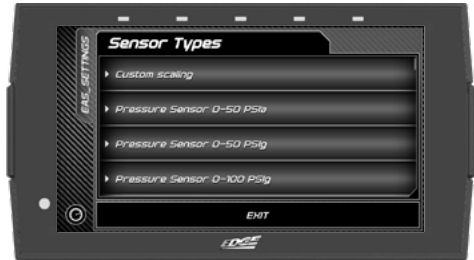
EAS Device Instructions Cont'd

EAS Power Switch

The EAS Power Switch allows you to control your favorite aftermarket accessories such as lights, air compressors, etc. directly through the CTS3. Upon starting the CTS3 for the first time with the EAS device installed, you may go straight to changing Switch settings, or you may opt to go to the home menu and navigate to the EAS Settings Menu at any time after to change the Switch Names and Descriptions.

When an EAS Power Switch is connected to a CTS3, a new switch page is automatically added to the Gauged mode. It is added in the very first slot, to the far left of the gauge pages. The switch page will be automatically populated with connected switches (up to 4). You also have the option of placing a switch on any digital gauge.


Switch Operation:
•	A single tap on a switch, or digital gauge holding a switch, will change the state of the switch.
•	A long press and hold on a switch, or digital gauge holding a switch, will enter the Switch Customization Menu.

Switch Customization Menu:
Users can change the switch look and LED color through this menu.

Gauges Mode Operation with EAS Power Switch connected:
•	If an EAS Switch module is present, the sleep timer is extended to 30 seconds. The 30-second timer is also used if a device is woken up by a tap (warm boot).
•	If a switch is toggled to the ON position, the sleep timer is suspended until the switch is toggled to the OFF position. Once the switch is toggled OFF, the sleep timer will begin counting down.
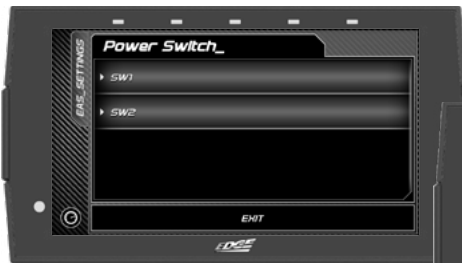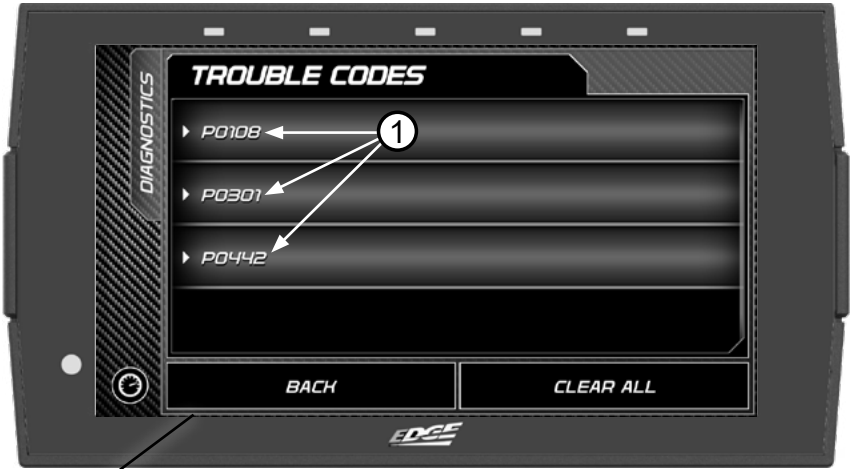
Diagnostics

Trouble Codes

While in the Main Menu, select the Diagnostics icon. ⟶
The trouble codes screen will appear. If any codes have been
initiated, they will show in the list as a P####.

*NOTE: Trouble codes are created when an issue is detected by vehicle
sensors. Use this feature to view and clear these trouble codes.*

TIP: Select the back button
to return to the main menu.

① If a code has been initiated, select the code to see a description of the
issue.

TIP: Write the codes down for future reference.

② Once you have read the code(s) description, you have the option to
clear them. Select **Clear All** to clear the codes from the device and reset
the vehicle's check engine light.

*NOTE: If a DTC persists, this could indicate a vehicle malfunction, We
recommend seeking a qualified professional in resolving the issue.
Program the vehicle back to stock prior to service.*

Manual Regeneration

If your vehicle supports Manual Regeneration, there will be a menu option in the Diagnostics Menu of the device.

NOTE: Certain operating conditions are required for Manual Regen to operate. These may include, but are not limited to, Engine Coolant Temp, Engine Oil Temp, Vehicle Speed, etc.

① Open the Diaganostics Menu by swiping up from the Gauge Screen and selecting Diagnostics.

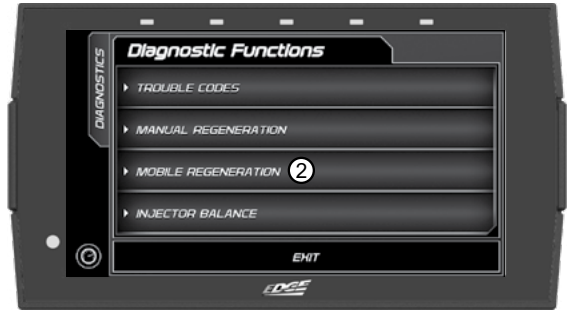*NOTE: The Diagnostic menu is also available in the Main Menu.*

② Select Manual Regen.

③ Follow the on-screen prompts to enable Manual Regen.
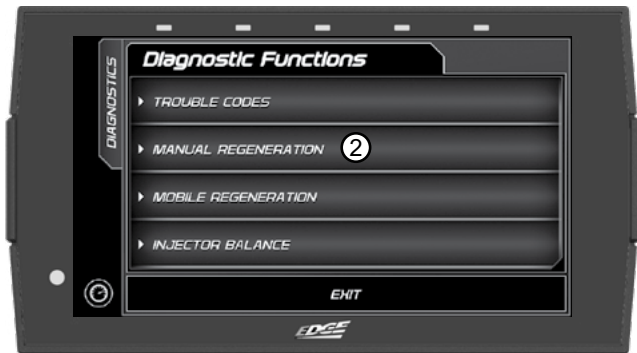
Mobile Regeneration

① Open the Diaganos-
tics Menu by swiping
up from the Gauge
Screen and selecting
Diagnostics.

② Select Manual Regen.

③ Follow the on-screen
prompts to enable
Manual Regen.

Injector Balance Rates

Injector Balance Rates (Duramax Only)

① To view Injector Balance Rates on your GM Duramax,
enter the Diagnostics Menu.

② Find Injector Balance Rates and select this option to see
your Injector Balance Rates.

Help/Info

Device Info

While in the Main Menu, select the **Settings** icon, and open the **Help/Info** Option.

The device info described below assists our Tech Support team when support is needed.

TIP: Select Exit to return to the main menu.

① Click the **Device Info** option. The following information will appear:

Application Info - Gives version information for the various applications running on the device.

Database Info - Gives version information for the various databases stored on the device such as Tunes, PIDs, and DTC codes.

Tool Info - Gives information about the device such as the serial number, born date, licenses, tool type, etc.

Vehicle Info - Information about the vehicle such as the vehicle identification number (VIN) and Engine Control Module (ECM).

Tutorials

All of the available tutorials are stored here and can be accessed at any time.

① Select the **Tutori-als** option.

② View each tutorial by swiping left/right.

③ Select **Continue** to return to the Help/Info menu.

F.A.Q's

Displays and answers a few frequently asked questions about the device and its features.

① Select the **F.A.Qs** option. A list of questions and answers will appear.
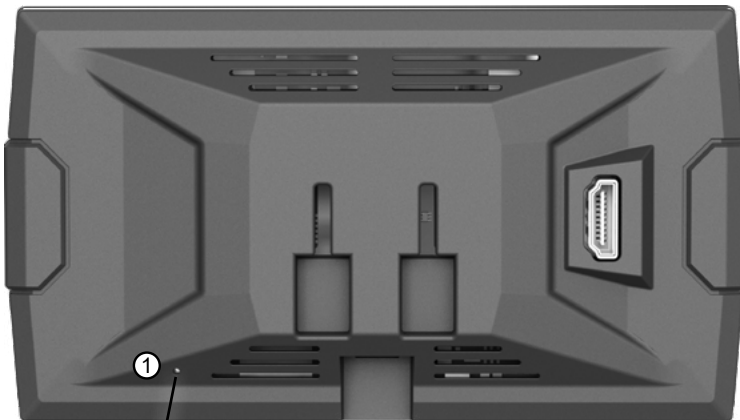
TIP: Select Exit to return to the main menu.

Runtime Log

How to generate and access a Runtime log on the CTS3 device.

① During the time of an issue or shortly after having an issue, locate the small hole in the back bottom left corner of the device.

② Using a paperclip or similar item, press and release the button. This has to be done during or shortly after you have an issue but BEFORE the device powers off or is disconnected.

NOTE: Nothing will flash or change when the button is pressed. As long as you can feel the button being depressed and release, then move on.

③ Wait 3-5 seconds, then disconnect the CTS3 from the vehicle and connect it via USB to a computer.

④ On the computer, go to your drive in "This PC". The CTS3 will come up in your Devices and Drives like a flash drive. It should be labeled cts3 (D:)

⑤ Expand the cts3 drive and in that drive locate the Runtime folder and open it.

⑥ The most recent Runtime will be labeled "runtime_00.dbg" at the top of that list. Please save the most recent runtime (the top most runtime) and attach it to an email.

Runtime Button

Tech Support

This option is to be used only when Tech Support requests information.

NOTE: When a menu item is selected, a set of "keys" will be given. Tech Support will use these keys to produce a code that you will use to access the menu items functionality.

① Select the **Tech Support** option. A list of questions and answers will appear.

> *TIP: Select Exit to return to the main menu.*

② Select the menu item as required by Tech Support.

Force Calibration Update - This option programs the vehicle with the stock calibration file. It is useful for recovering problematic ECUs.

Force Restore - This option will program the vehicle with a previously saved stock file. It is also useful for recovering problematic ECUs.

Vehicle Reset - Erases all vehicle specific information from the device.

Clear Updates - Erases any flagged calibration updates for the ECU.

Registry Reset - Erases all cached vehicle information from the device.

Generate Log - Writes any cached debug information to a debug file that can be retrieved from the public folder.

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www.edgeproducts.com

For more information contact our Technical Support team:
1-888-360-3343
Mon-Fri 8 am - 5 pm MST, Sat 8 am - 2 pm
or
tech@edgeproducts.com

To expedite your support, please have your Vehicle Information,
Part Number, and Serial Number ready prior to contacting us.