

Livewire TS+

QUICK START GUIDE



SECTION 1:

PARTS+ CHECKLIST

LIVEWIRE TS+ DEVICE



LIVEWIRE TS+ WINDOW MOUNT



MICRO USB™ CABLE



HDMI/OBD II CABLE



TOOLS NEEDED:

Fuse Puller | Voltage Tester | Battery Charger | Pliers

SECTION 2: PRE-INSTALL CHECKLIST

BUSINESS HOURS

If you need to contact Tech Support, please be sure to have your device with you before initiating contact.

INTERNET ACCESS

In the unlikely event that technical support is needed, Internet access may be required to troubleshoot. Our Technical Support team may also need to remotely connect to your computer to fix any issues you may be having.

ALLOW TIME FOR INITIAL SETUP

Make sure you have at least an hour to complete the initial setup, update, and installation process.

READ LIVEWIRE TS+ USER MANUAL

SCT highly recommends taking a moment to read through your Livewire TS+ User's Manual found on our website before your initial installation. There is a lot of in depth and useful information inside the manual that won't be covered in this Quick Start Guide.

This device is not legal for sale or use in California on pollution controlled vehicles.

SECTION 3: IMPORTANT ON-DEVICE INFO.

From the **Main Menu**, select **Device Info**.



Within **Device Info**, you will find :

SERIAL NUMBER:

Needed for dealers to create custom tunes for your vehicle and device.

FIRMWARE VERSION:

This is essentially your device's operating system.

TUNE REVISION

The version number of your preloaded tunes.

UNLOCKS LEFT:

Number of unlocks remaining. An unlock is used when the tuned vehicle is returned to stock and a different vehicle is programmed.

MARRIED STATUS:

Unmarried = Unlocked and ready for vehicle pairing.

Married = Locked to a vehicle.

VBATT:

The amount of voltage being run through the device from your vehicle's battery. As a general rule, 12.75 volts+ is needed to flash a tune to a vehicle.

SECTION 4:

UPDATING YOUR LIVEWIRE TS+ DEVICE

INSTALLING THE UPDATE SOFTWARE

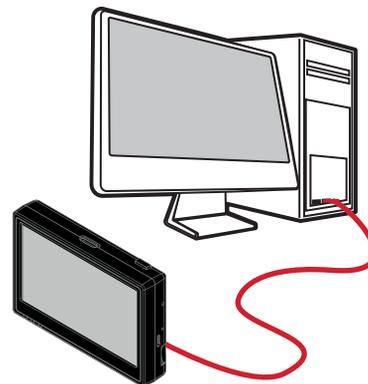
NOTE: Make sure the Livewire is unplugged from your computer before starting this process.



2. Click **“Tech Support”** tab at the top of the page.
3. Click the picture of the **Livewire TS+** (Part Number 5015P/5416P).
4. Click the **“Download Now”** button to the left of the listing that reads “Livewire TS+ Performance Ford Programmer & Monitor Device Update Software.”
5. Wait for that program to download, then double click and “Run” the **SCTDeviceUpdater.exe** file if it does not open automatically.
6. Follow the on-screen directions of the **SCT Device Update Software Installer** until it allows you to click “Finish”.
7. Follow the on-screen directions of the **SCTDrivers Installer** until it allows you to click **“Finish”**.
8. Your SCT Device Update Software and Drivers are now fully installed and ready for use.

UPDATING YOUR LIVEWIRE TS+ DEVICE

1. Connect your Livewire TS+ Device to your Windows™ based PC using the **provided Micro USB™ cable**. Unfortunately, we do not offer support for Apple computers at this time.



2. Double click and open the **SCT Device Update Software**.
3. Click **“Automatically Check for Updates”**.
4. Confirm the update by pressing the **“Update”** button. The update will now begin.
5. Let the updater run until it says **“Your device is now up to date!”**
6. You may now unplug your device from your computer and load a tune to your vehicle!

SECTION 5: READING VEHICLE VIN & STRATEGY/OS PART#'S

From the **Main Menu**, select **Vehicle Info**.

You'll be asked to turn the **key on**. The VIN and if a Ford vehicle/device, it will give you the Strategy. If using a GM vehicle/device, it will give you the OS Part Numbers.



SECTION 6: CHECKING/CLEARING VEHICLE TROUBLE CODES

From the **Main Menu**, select **Vehicle Diagnostics**.

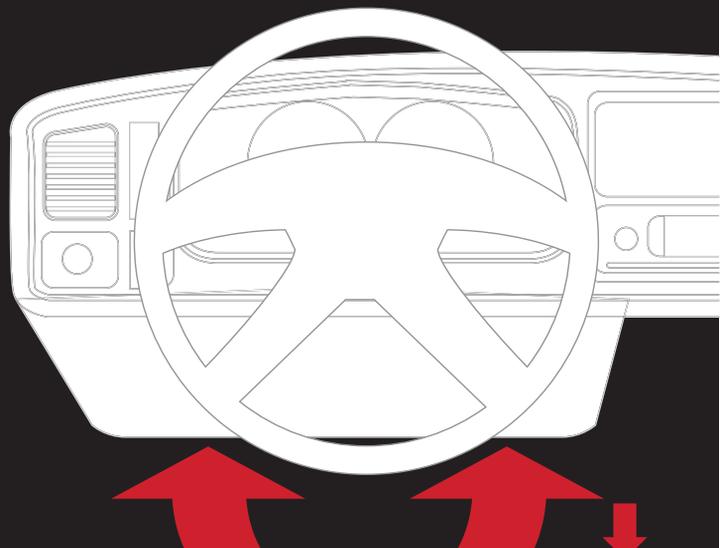
Within this menu, you will be given the option to read or clear DTC codes. Make your selection and follow the on-screen prompts.



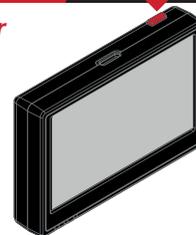
SECTION 7: PROGRAMMING THE VEHICLE

POWERING ON THE LIVEWIRE TS+

To power up your device, using the provided **HDMI to OBDII cable**, connect to the vehicle's OBDII port. The OBDII port is most commonly found within 24" of the steering column under the driver's side dash.



1. Once connected, press the **power button** on the top right of the device. The device should power on.



BEGIN PROGRAMMING

1. From the **Main Menu**, select **Program Vehicle**.



2. At this point, the key should be in the ignition, but in the **OFF** position until prompted to turn key **ON**.



Within Program Vehicle, there are 2-3 selections depending on the state of the vehicle.

- **Pre-Loaded Tune Files** = Preloaded SCT tunes for use on stock vehicles only.
- **Custom Tune** = Custom Tuning Dealer files, if there are any on the device.
- **Return to Stock** = Restore original factory file to vehicle.

USING PRE-LOADED TUNE FILES

Once you follow the first “**Key On**” prompt, the device will show you a selection of vehicles and engine sizes. Select yours here. This will take you to Adjustable Options where you will be able to adjust to different performance levels, vehicle characteristics, and options including, but not limited to, speed limiters, axle ratio and tire size. (Adjustable Options are vehicle specific. For more information on Adjustable Options, please see the **Adjustable Options Explained** section of this guide.)

USING CUSTOM TUNES

To install Custom Tunes, select Program Vehicle, and scroll down to the Custom Tunes section. If your device contains any custom tunes for your vehicle, this is where they will be listed. Once you’ve found your desired tune select it by pressing on it and follow the on-

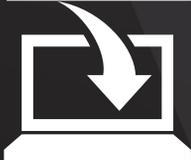
NOTE: Custom Tunes are built by SCT’s network of Custom Tuning Dealers and any questions related to them need to be directed toward the tuning dealer.

RETURNING TO STOCK

With SCT devices, your stock file is stored during the initial programming. The stock file stays on the programmer until returned to stock. From Program Vehicle, select Return to Stock and follow the on-screen instructions to advance through the programming process.

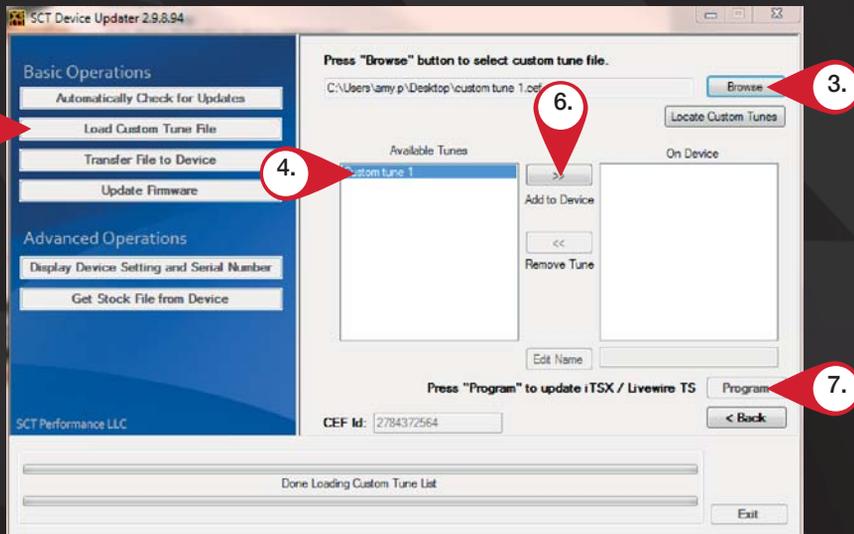


SECTION 8: LOADING CUSTOM TUNES



Download and install the **SCT Device Updater** software and Drivers

1. From your e-mail, **save your custom tunes** (.cef files) to your computer's Desktop.
2. Open the **SCT Device Updater** software and click the **Load Custom Tune File** button.
3. Click Browse and locate your custom tunes on your Desktop. Alternatively, click **Locate Custom Tunes**.
4. Select the Tune you wish to load.
5. The tune you selected should move to the **Available Tunes** section.
6. Select the listed tune in the Available Tunes section, then click the >> button to **move the selected tune** to the **On Device** section.



NOTE: To edit the name of the file as it appears on your device, you must select the file while it's in the On Device section, type in the desired name in the box below, and click Save.

7. Once you have gotten all the tunes you'd like to program under the On Device section and they're named to your liking, just click **Program**, and the Device Updater will load the tunes to your device.

SECTION 9: ON-DEVICE DATA LOGGING

1. Connect the Livewire TS+ to the OBDII port.
2. From the **Main Menu**, select the **Gauges/Datalog** on the Livewire TS+.



3. On **initial setup**, you will need to move to the **Configuration**, icon at the bottom left and **select your vehicle** from a list of data log files. In the future, you can continue without going through the vehicle selection.



NOTE: If you can't display a specific value from the preloaded config files, you can download livelink software for free from the SCT website

4. Once you select your vehicle, **default gauges** will show up and you can now monitor these gauges.



5. The items being monitored can be adjusted by double tapping on the item you'd like to change. Within this menu, you can change the item you're monitoring, and the units in which it will be displaying.
6. To start or stop data logging, Tap the screen once to bring up the options and select the top left icon that says **REC.**
7. While monitoring, you can be pull up the Gauges/Datalog menu by tapping the screen once to. From this menu, you may start recording, select a data log file with which to log, change the gauge layout, and reset the min/max values on the monitor.

SECTION 10:

ADJUSTABLE OPTIONS EXPLAINED

DIESEL VEHICLE SPECIFIC OPTIONS

Performance

The most aggressive preloaded diesel tune. Good for everyday use, racing, or economy but not recommended for any type of towing.

Street

Less power than Performance. Moderate gain over stock, safe for light towing, under 5,000 lbs.

Towing

Should be used when towing any significant load. Shifting is towing centered.

Trans Only

For Heavy Loads. Engine and boost left stock. Trans Only tune.

Jake Brake

Exhaust brake to increase engine braking while coasting. Lowers brake temps.

Locked at CT

Keeps the torque converter locked during deceleration to aid in engine braking.

Lock In 1-2-3

Locks the torque converter in 1st, 2nd and 3rd gear.

DIESEL & GAS VEHICLE OPTIONS:

EGR Delete

Removes the check engine light from deleting EGR mechanically.

Axle Ratio

Sets axle ratio to correct shift patterns/speedo. (Not available on all vehicles)

Tire Size

Sets tire size to correct shift patterns/speedo. (Not available on all vehicles)

Idle Speed

Sets idle speed in RPM.

Traction Control

On/Off setting disables traction control without using the TCS button.

WOT Shift

Increase or Decrease the WOT Shift points of each gear individually by MPH.

Shift Pressure

% change in transmission pressure during shifts. (+ = Firmer, - = Softer)

NOTE: Adjustable Options vary for each vehicle and are not available on all vehicles

GAS VEHICLE SPECIFIC OPTIONS:

Tune Type

Performance levels vary by the octane you select. Higher octane will provide higher performance increase. 93 octane would be the highest increase.

Towing Tune

Adjust the octane based tunes to focus more on towing over performance.

Economy Tune

Adjusts the octane based tunes to focus more on economy over performance.

Rear O2s

Disables the rear O₂s and eliminated the CEL caused by rear O₂ removal.

Global Spark

Add or remove timing advance to the entire RPM range.

Spark by RPM

Add or remove timing by RPM range. (0-2000) (2000-4000) (4000-8000)

WOT Fuel

Add or remove fuel at wide open throttle. (WOT)

Fuel Injectors

Allows you to adjust for different sized injectors. (Not available on all vehicles)

GAS VEHICLE SPECIFIC OPTIONS:

CMCV Deletes

Updates tune to handle the CMCV/IMRC delete plates modification.

Fan Control

Lowers the temperature at which the fan turns on.

Rev Limiter Drive

Sets rev limit in RPM while in drive.

Rev Limiter Neutral

Sets rev limit in RPM while in neutral.

Speed Limit

Remove, increase, or decrease the vehicle speed limiter. (AKA Governor)



Livewire TS

**Part Numbers:
Ford 5015
GM 5416**





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IMPORTANT NOTES

It is always a good idea to turn-off any vehicle systems that may become active during the tuning process such as cooling fans, fuel pumps etc. to avoid draining the vehicle's battery. To disable these functions, consult your vehicle's owner's manual and remove the fuse for each of these systems. Also be sure to turn-off the vehicle's stereo and HVAC system. Make sure the ignition key is turned OFF before you connect your device to the vehicle.

Plug the device into the OBD-II port and wait for them main menu screen to appear. The default menu screen is "Program Vehicle". If you are using the device for custom tuning, you will need to read the vehicle strategy first through the "Vehicle Info" main menu screen and send that information to your custom tuning dealer. (See Section 4.1)

SCT does not recommend using this device with any other tuning module or device that modifies the vehicle PCM parameters, increases horsepower, torque or modifies transmission characteristics.

Before taking your vehicle to the dealer service department for any type of service or warranty work, you should first return the vehicle back to the stock configuration. Check engine warning lights can be reset by simply unplugging the battery cables from the battery for 5-10 minutes. Diagnostic trouble codes can also be read and cleared through the "Vehicle Info" menu.

1. GENERAL INFORMATION

1.1 SCT Performance, LLC Limited Warranty for Livewire TS

What Does This Warranty Cover?

This warranty covers any defects or malfunctions in your SCT Livewire TS product within the warranty period set forth below, subject to the following conditions and limitations.

How Long Does The Coverage Last?

This warranty lasts for a period of one (1) year following the date of sale by SCT of the Livewire TS product to the original SCT dealer/distributor; provided, however, the duration of this warranty will be extended to one (1) year from the date of original purchase by the consumer from the SCT dealer/distributor so long as the consumer submits the required online registration information within thirty (30) days of purchase, as provided below. All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited to the warranty period set forth above.

What Will SCT Do?

SCT will, at its option and as its sole obligation under this warranty, replace or repair any Livewire TS product that has a defect(s) in manufacturing, material and/or workmanship provided that SCT is notified of the claim within the warranty period provided herein. SCT will not be liable for, nor will it reimburse the consumer for any fees, charges or expenses for shipping and/or handling costs associated with the return to SCT of any defective Livewire TS products sent in for replacement or repair.

What Does This Warranty Not Cover?

Any damage and/or other problem(s) caused by abuse, misuse, neglect, vandalism, accident, act of God (e.g., flood, fire, lightning), or other cause beyond the reasonable control of SCT is/are not covered. Also, any damage or roblem resulting from faulty or improper installation is not covered and shall be the responsibility of the installer. **SCT IS NOT LIABLE FOR AND HEREBY EXCLUDES ANY AND ALL INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES RELATING TO THE PRODUCTS COVERED BY THIS WARRANTY.** This is the consumer's exclusive warranty and is in lieu of all other warranties, express or implied, except as may be required by applicable law. Without limiting the generality of the foregoing, SCT shall not be liable for any breach of any other written or oral warranties given to the consumer by any third party(ies) such as those (if any) given to the consumer by dealers or distributors of the products.

Can This Warranty Be Transferred?

This warranty is not transferable and applies only to the consumer who originally purchased the Livewire TS product.

How Does State Law Apply?

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. Pertinent state law shall control for what period of time following the sale a consumer may seek a remedy under the implied warranty of merchantability or fitness for a particular purpose. Some states do not allow the exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

1.2 Device Firmware & Tune Revision Updates

From time to time, you may wish to update your device to the latest version of firmware or tune revision. Make sure you have returned your vehicle back to stock before updating your unit.

NOTE: If viewing this document online you can click on the following link to download the SCT Device Updater: [SCT Device Updater](#)

1.3 About your SCT Device

Available Gasoline Tunes: 93, 91, 87 octane and economy as applicable. Available Diesel Tunes: Performance, Street, Towing.

Note: Not all options are available for all vehicles.

- Livewire TS VIN locks (marries) to a single vehicle. You cannot use the device to tune a new or different vehicle, until you have returned the original vehicle back to stock, which will unlock the device. You can only change vehicles 5 times before the unit is permanently locked. To reset the Changes or Unlock device you will need to contact SCT. Service charges do apply.
- Standard pre-programmed tuning files are designed for vehicles with minor performance modifications such as; cold air kits, high-flow exhaust systems, and other basic modifications. Vehicles that have aftermarket superchargers or turbochargers will require custom tuning, which can be purchased only through authorized SCT Custom Tuning Dealers.
- If you later add a blower, turbo or nitrous to your vehicle or add a more 'wild' naturally aspirated combination of parts, you will need to obtain a custom tune from an SCT dealer. The Livewire TS programmer is flexible enough so that your original investment will not be lost – it can be loaded with a custom tune from the SCT dealer.
- Read your vehicle's warranty carefully before installing or using this Product. You are solely responsible for determining whether use or installation of this Product will negate or diminish any applicable warranty coverage. Under no circumstances will the Seller be liable for the voidance of all or any part of the Buyer's vehicle warranty. Rather, the Buyer assumes all risk and responsibility if an automotive manufacturer and/or dealer voids the Buyer's vehicle warranty in whole or in part due to use or installation of this product.
- The stock file is stored during initial programming. The stock file stays on the programmer until returned to stock. You should always return your vehicle back to stock before taking your vehicle in to any auto service facility or before updating your device.

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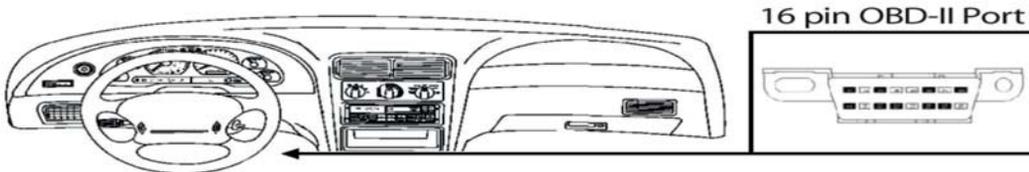
2. GETTING STARTED

2.1 Powering on the Livewire TS

There two ways to power on the device. If you'd like to flash you vehicle, you will need to use the **Vehicle** instructions below. If you are looking to update or load custom tunes onto your device you will use the **Computer** instructions below.

- **Using the Vehicle**

- Locate the vehicle's OBD Diagnostic port. This connector is usually located under the vehicles dash board on the driver's side. The port may be covered with a cap or compartment door labeled OBD Diagnostic Port.
- If the connector pins are covered or the port is located behind a compartment door, remove the cap or open the compartment door.
- Connect the OBD connector from the Livewire TS to the vehicles OBD Diagnostic port.



- **Using the Computer**

- Install SCT Device Updater before connecting your unit via USB
- Locate the computers USB port. This port can be found on the front or the back of the computer, if using a laptop the ports will usually be on either side of the laptop.
- Using the USB cable provided connect the USB end of the cable to the PC and the other to the bottom of the Livewire TS



2.2 Loading Email Custom Tunes to the Livewire TS

1. Before connecting your LWTS to your PC. Select the image of your device, download and completely install SCT Device Updater.
2. Connect your device with the USB cable provided to the back of your computer. (Allow about 30 seconds for the drivers to install)
3. Save your custom tunes from your email to your desktop.
4. Open SCT Device Updater software that you just installed, there will be a shortcut icon on your desktop.
5. Now select “Load Custom Tune File” from the Basic Operations menu followed by clicking on “Locate Custom Tunes”
6. Select the desired tune and select the slot you would like to load the file to. 7. Press “Program” when ready to transfer the custom tune to the LWTS.
8. Repeat steps 5-7 if you wish to load more than one file.

2.3 Menu Navigation

Program Vehicle

- Return to Stock
- Strategy Tunes
- Custom Tunes

Gauges / Datalog

- Configuration
- Monitor

Diagnostics

- Read DTC
- Clear DTC

Performance Tests

- 0-60 PMH
- ¼ Mile
- Braking

Vehicle Info

- Vin
- Strategy
- Vehicle Weight

Device Settings

- LCD Brightness Day Time
- LCD Brightness Night Time
- Theme: Red / Blue / Dark

Device Info

- Device Name
- Device Part #
- Serial Number
- Firmware Version
- Preloaded Tuning
- Custom Tuning
- Tune Revision
- Market
- Unlocks Left
- Married Status
- Current Flash
- Total Flashes
- Support Info
- Vehicle Batt
- Vehicle Board FW
- License Notice

- Ambient Light Sensor
 - Audio
 - Ignition Key Check
 - Power Save Mode
-

2.4 Using the Touch Screen

The screen on the Livewire TS is pretty simple to use, simply use your index finger to scroll through the sub-menu options by pressing firmly on the screen of the LWTS. When you see the menu you would like to choose, press firmly on the icon with your finger. If you'd like to back out of a menu simply press the **Exit** button.

While programming your vehicle, the screen will guide you and explain whether to press the Cancel button or the Select button to perform certain actions or select different items.

2.5 Reading Vehicle Strategy

Ford will often times update the computer in your vehicle. The new update ID (calibration ID) that is loaded into your computer is called a strategy. Many times your SCT dealer will ask you to read your vehicles strategy for many reasons which includes creating custom tunes.

1. Once the device is powered on using the OBDII cable provided, swipe from right to left once to get to the "VEHICLE INFO" icon.
2. Press on the "VEHICLE INFO" icon; you will be prompted to turn the key to the ON position.
3. Make sure you turn the key forward to the position before firing up the vehicle. Your dashboard should be lit with indicator lights.
4. Once the Livewire TS has detected you turned the key on, it will proceed to display your VIN, COMM and ECU Strategy.

2.6 Reading/Clearing Vehicle DTCs

If you are experiencing a check engine light on your dashboard, you will be able to retrieve the code and read the cause of the code using your Livewire TS. You will also have the ability to clear these codes if you have gone ahead and taken care of the problem that was causing the check engine light.

1. Once the device is powered on using the OBDII cable provided, on the bottom right of the screen press the "DIAGNOSTICS" function.
 2. You will have the choice on the following screen whether to Read DTC or Clear DTC, make your selection by pressing the appropriate option.
 - a. **READ DTC:** Turn key ON, the device will automatically detect it; if any codes are present they will be listed on the next screen. You will be able to read the meaning of the code by simply touching the code being displayed. To go back to the list of DTC's present simply press the OK button.
 - b. **CLEAR DTC:** Turn Key On, the device will automatically detect it; when the codes have been deleted successfully the device will let you know it.
-

3.0 Programming your vehicle

3.1 Installing a Preloaded Tune File

1. Connect the Livewire TS to your vehicle's OBD II service port and power on the device by pressing down on the power button in the upper right hand corner of the device as you are looking at the screen.
2. Start with the unit powered on and connected to the vehicle, press the "Program Vehicle" button on the screen.
3. Next you will be prompted with a "Street Use Notice" which you must agree to and approve to begin tuning. If you approve and agree press the "Continue" button on the screen to proceed.
4. You may be prompted to "Turn Key On". If so, please turn the ignition key to the "On" position but do not start the vehicle.
5. A screen will appear asking you to select your vehicle. Please touch the menu listing that contains your vehicle.
6. Next you will be prompted to adjust options. These options are items available from SCT to make minor adjustments to the calibration being loaded. It is not necessary to make adjustments in this area. If you wish to make an adjustment, simply press the option you would like to change and the screen will change to display the available values for that option. When you are satisfied with the values of these options or if you do not wish to change them, simply touch "Approve".
7. You will now be prompted with a screen to review your vehicle and options (if any selected). Press "Continue".
8. The next screen, possibly two, will differ between vehicles. You will be prompted to "Turn key Off" and/or "Turn Key On". It's important here to follow the prompts from the device.
9. Livewire TS will now Upload the current file that is in your vehicle, referred to as the "Stock File", and will proceed to download the new calibration you have selected with all options applied if you have selected any.
10. After this is complete the device will display a "Download Complete" screen. You can now turn the key to the off position. For GM vehicles you may see a "Power Down ECU" screen while the vehicle completes some power down procedures.
11. You have now successfully tuned your vehicle!



Which tune file do I choose?

Gasoline Engine: Tunes are based on Octane, make sure you choose the correct octane rating based on the octane you are running in your vehicle.

- 87 Octane
 - 91 Octane
 - 93 Octane
-

Diesel Engine: We offer a few tunes based on what you're going to be doing with your truck.

- **Street:** Less power than Performance. Moderate gain over stock, safe for light towing, under 5k lbs.
- **Performance:** The most aggressive preloaded diesel tune. Good for everyday use, racing, economy but not recommended for any type of towing.
- **Tow:** Should be used when towing any significant load. Shifting is towing centered

How do I know what the Options do?

In section 3.4 there's a list of options, their functions and are also explained. For suggestions on using any of these options refer to a custom tuning dealer.

NOTE: Adjustable Options vary for each vehicle and are not available on all vehicles

3.2 Installing a Custom Tune File

- 4 Start with the unit powered on and connected to the vehicle, press the "Program Vehicle" button on the screen.
- 5 Next you will be prompted with a "Street Use Notice" which you must agree to and approve to begin tuning. If you approve and agree press the "Continue" button on the screen to proceed.
- 6 You may be prompted to "Turn Key On". If so, please turn the ignition key to the "On" position but do not start the vehicle.
- 7 A screen will appear asking you to select your vehicle. Please scroll down until you see the area "Available Custom Tunes" and touch the menu listing that contains the custom tune you would like to load.
- 8 Next you will be prompted to adjust options. These options are items available from SCT to make minor adjustments to the calibration being loaded. It is not necessary to make adjustments in this area. If you wish to make an adjustment, simply press the option you would like to change and the screen will change to display the available values for that option. When you are satisfied with the values of these options or if you do not wish to change them, simply touch "Approve".
- 9 You will now be prompted with a screen to review your vehicle and options (if any selected). Press "Continue".
- 10 The next screen, possibly two, will differ between vehicles. You will be prompted to "Turn key Off" and/or "Turn Key On". It's important here to follow the prompts from the device.
- 11 Livewire TS will now Upload the current file that is in your vehicle, referred to as the "Stock File", and will proceed to download the new calibration you have selected with all options applied if you have selected any.
- 12 After this is complete the device will display a "Download Complete" screen. You can now turn the key to the off position. For GM vehicles you may see a "Power Down ECU" screen while the vehicle completes some power down procedures.

You have now successfully tuned your vehicle!

Custom tunes are built by SCT's network of Custom tuning Dealers and any questions related to them need to be directed towards the tuning dealer.



LOCKED AT CT	Keeps the torque converter locked during decel to aid in engine braking.
LOCK IN 1-2-3	Locks the torque converter in 1st, 2nd and 3rd gear.
AGG. TOW HAUL	More aggressive shift schedule keeping the engine in its power band longer.

DIESEL AND GAS SHARED OPTIONS:

AXLE RATIO	Set the axle ratio to correct shift patterns and speedometer.
TIRE SIZE	Set the tire size to correct shift patterns and speedometer.
IDLE SPEED	Sets Idle speed in RPM.
TRACTION CONTROL	- On/Off setting disables traction control without using the tcs button.
WOT SHIFT	Increase or Decrease the WOT Shift points of each gear individually by mph.
SHIFT PRESSURE	% change in transmission pressure during shifts. (+ = firmer) (- = softer)

GAS VEHICLES SPECIFIC OPTIONS:

TUNE TYPE	Gas Vehicles preloaded tunes vary Performance levels by Octane. Premium fuel will provide the best performance increase.
TOWING TUNE	Adjusts the Octane based tunes to focus more on towing over performance.
ECONOMY TUNE	Adjusts the Octane based tunes to focus on economy over performance.
REAR O2'S	Disables the Rear O2s and eliminates CEL caused by rear O2 removal.
GLOBAL SPARK	Add or Remove Timing Advance to the entire RPM range.
SPARK BY RPM	Add or Remove Timing by RPM Range. (0-2000)(2000-4000)(4000-8000)
WOT FUEL	Add or Remove Fuel at Wide Open Throttle. (WOT)
FUEL INJECTORS	Allows you to adjust for different sized injectors. (Not available on all vehicles)
CMCV DELETES	Updates tune to handle the CMCV/IMRC delete plate's modification.
FAN CONTROL	Lowers the Temperature at which the Fan turns on.
REV LIMITER DRIVE	Sets Rev Limit in RPM while in Drive
REV LIMITER NEUTRAL	Sets Rev Limit in RPM while in Neutral
SPEED LIMIT	Remove, Increase or Decrease the vehicle speed limiter. (Aka govenor)

4. USING DEVICE FEATURES

4.1 On-Device Data Logging and Monitoring

This menu accesses the Monitoring and Data Logging feature. This menu is also used when collecting data from the analog input on the device.

1. With your key out of the ignition connect your device to the OBDII port and power on your Livewire TS, on the bottom left of the screen you will see GAUGES / DATALOG, press it.
2. Go ahead and turn the key to the ON position, the device will automatically detect when you have turned the key forward, it will take you the main gauge display.
3. Tap the screen once and select "Configuration", select the appropriate Preloaded Datalog File displayed on the screen that matches your type of vehicle, press **Continue**.
4. You are now on the main gauge screen and are ready to configure what is being displayed.

Editing a Gauge

To edit a gauge you will tap twice on the gauge you would like to edit. You will be taken to the edit screen where you can choose what parameter you would like to monitor.

- a. **Item:** Here you will find a list of parameters that are preloaded on your device. You can find the Analog Inputs at the bottom of this list.
- b. **Equation:** We have preset the most common equations as a list to choose from
 - V (this would be Voltage)
 - SCT EGT ° F
 - PLX EGT ° F
 - AEM X-WIFI EGT ° F
 - SensorConnection EGT °F
 - ExhaustGasTech EGT °F
 - LM1
 - TE 2A0
 - PLX
 - LC1
 - AEM
 - AFM1000
 - G100
 - Dyno Jet WBC
 - GM 1Bar MAP
 - GM 2Bar MAP
 - GM 3Bar MAP
- c. **Range:** You will be able to set the range of the sensor or pid selected. The range is automatically modified based on the parameter selected. (Excludes Analogs)
- d. **Alert:** Setting a Min and Max value will cause the device to alert you when these values have been exceeded.
 - **Indicator:** You may choose the color of the alert to be displayed by your LWTS

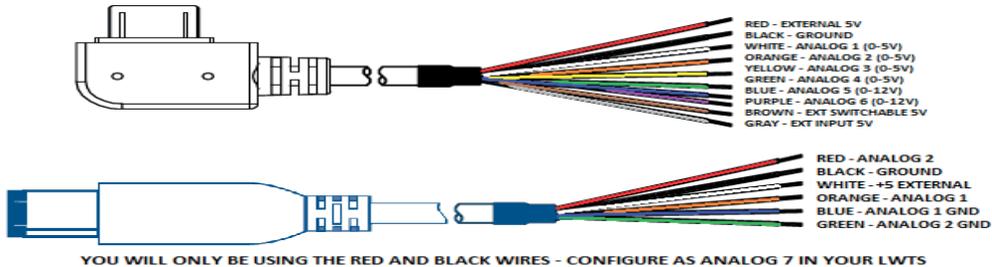
Editing Gauge Layout

There are eight (8) preset gauge layouts available to choose from

1. From the Main Gauge display, single tap the screen, select "LAYOUT" that will appear on the bottom left of the screen.
 2. You may scroll using your finger to the selection to choose from.
 3. Tap the image of the layout you'd like to use. You will need to edit gauges once more.
-

4.2 Connecting External Analog Inputs

Using the wiring specifications that came with your analog sensor, connect to the proper pins using the diagram below.



NOTE: Do not connect any device to the analog input that exceeds 5 volts to the analog port or permanent damage to the adapter can occur

Example of an EGT being set up is outlined below:

Configuring your EGT Kit to work with your LWTS

1. Connect the 6 PIN Firewire analog cable into the built-in firewire port on the OBDII cable.
 2. Power on your LWTS, on the bottom left of your home screen you will see “**Gauges/Datalog**”, select it.
 3. You will be prompted to turn the key to the ON position; the LWTS will automatically detect your key being turned on.
 4. Select the appropriate Preloaded Datalog File displayed on the screen that matches your type of vehicle, (in this example we will use Ford Diesel 6.0L and 7.3L) Press **Continue**.
 5. When the main gauge display comes up, Double tap on the gauge you would like to edit.
 - a. Single Tap: Views the Menu
 - b. Double Tap: Edits Gauges
 6. Once you’ve double tapped the gauge, you will be brought to a screen where you can select the proper Item to monitor, proper equation for analogs and add a Min and Max Range.
 - a. Item: Press and hold on the screen to scroll, all the way at the bottom where the Analogs are located, tap “**Analog In 7 Red-Wire**”
 - b. Equation: Tap “**SCT EGT F**”
 - c. You may now modify Min and Max Value’s
 7. Select “Approve” to confirm the changes and view the EGT signal real-time.
-

4.3 Device Settings

Using the Livewire TS Performance Test to measure your vehicle's performance:

The LWTS Performance Test feature allows you to measure the 0-60 MPH, ¼ Mile ET and Braking ET all in one test or individually. (You may select more than one test at a time)

***NOTE:** Prior to using the LWTS Performance Test, you must configure your vehicle's weight within the Vehicle Info Menu. The option to modify weight will appear only after you have successfully read Vehicle Info*

4.4 Device Settings

Within the Device Settings menu, we have given the options to customize your device for exactly your needs. Below is an outline of all options and their functions.

-LCD BRIGHTNESS DAY TIME: Allows you to modify the brightness of the screen.

-LCD BRIGHTNESS NIGHT TIME: Allows you to modify the brightness of the screen.

-THEME: You may change the appearance of the menu screens with a Blue (Default), Red or Dark Black) theme.

-AMBIENT LIGHT SENSOR: This feature allows the device to adjust brightness of the screen automatically. You may turn this feature off.

-AUDIO: You may turn the sound Off or On of the device, this includes the beeping noise the device makes when selecting the menus and options.

-IGNITION KEY CHECK: Will allow the device to automatically identify the key being turned on automatically, you may shut this function off. It's recommended to leave this On.

-POWER SAVE MODE: You can choose from Auto or Always On.

AUTO: When the device sees you have shut off the vehicle the programmer will start a counter to automatically shut down in 5minutes.

ALWAYS ON: Your device will remain on whether you shut off the vehicle or not.

-STARTUP FUNCTION: When the device is turned on you can allow the device to go directly to either:

MAIN MENU
GAUGES / DATALOG
PERFORMANCE

-ONSCREEN TUTORIAL: Provides on screen assistance using your touch screen. On or Off

-DEMO MODE: Simulates the functions of the programmer such as Programming and Monitoring

Gauges. ***NOTE:** Disable DEMO Mode before attempting to program your vehicle.* **-FACTORY RESET:** This will DELETE all custom tunes and restore preloaded tunes.

-SHUTDOWN: Powers down your device.

5. COMMON QUESTIONS

When I connect the tuner to the vehicle, it doesn't power on.

- Check for blown fuses for OBDII/Cigarette Lighter.

Does the tuner have to stay plugged in to keep the vehicle tune?

- No. After tuning, you can disconnect the programmer.

Can I stack/combine the SCT programmer with another chip or tuning module?

- All Chips/Tuning Products must be removed before tuning with SCT.

Can I tune more than one vehicle with this programmer?

- One vehicle tuned at a time. You may return to stock and tune another vehicle up to 5 times.

Can the vehicle be tuned while the engine is running?

- No. This can cause severe damage to the vehicle and PCM.

Should I return to stock before taking my vehicle to the dealer?

- Yes. This prevents the tuner from becoming locked if the dealer updates the PCM.

Can I use a lower octane fuel than the tune file lists?

- No. You must use the same octane fuel that the vehicle is tuned for. Failure to use the proper octane can result in severe engine damage.

I have a supercharger / nitrous oxide on my vehicle; can I use a pre-loaded tune?

- No. The pre-loaded tune files within the Livewire TS are designed for minor performance modifications such as cold air kits, high flow exhaust systems and other basic modifications. For high horsepower modifications such as superchargers, nitrous oxide or turbo systems, you will need to have your vehicle tuned by an SCT Custom Tuning dealer.

