CRITICAL Information

For Owning and Operating Your TAZER JL Lite

Z AUTOMOTIVE Electronic Performance Modifications

Button Shortcuts • FAQs • Helpful Links • Required Knowledge

Menu Navigation

- The Tazer menu is accessed ONLY from the AUDIO page of the dashboard EVIC screen
- Ignition must be in the RUN position (press twice with your foot off the brake)
- Engine off = VEHICLE SETTINGS MENU • Engine running = LIVE MENU

Function	Button Input
OPEN MENU/SCROLL MENU (Starting from "LightShow?")	◁ (HOLD) + CRUISE CANC (TAP)
SELECT/CHANGE MENU OPTION or SAVE VALUE (TIRE SIZE, GEAR RATIO, TPMS THRESHOLD, ETC.)	◁ (HOLD) + CRUISE ON/OFF (TAP) Access Vehicle Settings submenus after selecting "Marry."
ADJUST VALUE (TIRE SIZE, GEAR RATIO, TPMS THRESHOLD, ETC.)	◁ (HOLD) + CRUISE SET +/- (TAP) Remember to SAVE the value with the command above.

When finished making changes in the ENGINE-OFF "Vehicle Settings" Menu, one Full Reboot AND two sleep cycles are required.

Click here for a video!

These settings will remain when the Tazer is unplugged!

One Full Reboot and Two Sleep Cycles

1. Move the vehicle to level ground with the wheels straight and keep your foot off of the brakes.
2. Select "Full Reboot?" from the menu and wait for the countdown to complete.
3. Perform a sleep cycle exactly as follows:
   a. turn the ignition off
   b. open and close the driver's door (optional, makes vehicle sleep faster)
   c. wait for all instruments to go dark (sleep)
   d. after instruments go dark, wait 60 seconds
   e. turn the vehicle back on (to ACC or RUN, no need to start the engine)
4. Repeat step 3 one more time.
5. If tire-related changes were made, immediately follow this with a 20 minute drive, preferably at highway speeds, so that all of the sensors adjust.

NOTE: THE CODES U0168 AND U1514 AND INCORRECT TEMPS ARE NORMAL AFTER UNPLUGGING THE SGW WIRES OR DOING A FULL REBOOT AND WILL GO AWAY AFTER SOME DRIVING. IF YOU'RE SEEING OTHER CODES OR THEY DON'T GO AWAY, THAT GENERALLY INDICATES A MISCONFIGURATION SUCH AS MISSED SLEEP CYCLES.

LIVE SETTINGS and FEATURES do not require a Full Reboot or sleep cycles, and only work when the Tazer is PHYSICALLY CONNECTED TO THE VEHICLE!

Return to Stock/Prior Configuration (UNMARRY)

Return your vehicle to stock/prior configuration along with the Tazer's Vehicle Settings (but not Live Settings) by selecting "Unmarry?" NOT "UnmryNo" from the Vehicle Settings menu and waiting for the countdown. Then perform a Full Reboot and two sleep cycles.

- This is always the first troubleshooting step when there are errors after configuration. Starting fresh and making sure all configuration steps were followed is key!
- Simply remove the Tazer to remove Live Settings and Functions.

UNMARRY and REMOVE the Tazer before dealer service.
And remember to plug the SGW back in or your radio won't turn on!

DO NOT USE YOUR TAZER WITHOUT READING THIS PAGE ☺

Print this page and keep it in your vehicle!

Click here for the one page version

NOTE: IF YOU ARE MISSING THE DASHBOARD "AUDIO" PAGE, USE THE DASHBOARD "SCREEN SETUP" MENU TO ADD AUDIO TO "FAVORITES."

Firmware Updates

Update your firmware by removing the Tazer from your vehicle, connecting the included USB cable to your Windows or Mac computer, installing the Z Automotive Programming Utility, opening it, and selecting "Update."

Click here to download ZPU!

You do not need to Unmarry the Tazer before an update or upgrade.

- We recommend checking for updates when your Tazer arrives! Firmware is released a few times a year.
  Click here to check the Update News for your Tazer.
- Replace lost or damaged USB cables with a common "USB mini-B" data/charging cable.
- Trouble updating? Click here for additional steps that might help.

Live Function Shortcuts

Function	Button Input
Light Show from Keyfob	Unlock, Unlock, Lock, Unlock
Cooldown Mode	▷ (HOLD) + CRUISE CANC (TAP)
Winch Mode (excl. 4XE and Diesel)	◁ (HOLD) + CRUISE RES (TAP)
Anchor Mode (excl. 4XE and Diesel)	Brake Firmly + Pull High Beam Stalk
Line Lock	◁ (HOLD) + CRUISE "+" (TAP) Pump Brakes Firmly x 2 (Keep at least one button held)
Rock Crawl	◁ (HOLD) + CRUISE "-" (TAP) Pump Brakes Firmly x 2 (Keep at least one button held)
Cycle Camera Inputs	Mute (Quickly Double-Tap)
Partial Reboot	◁ (HOLD) + CRUISE RES (TAP) (With engine OFF)
Auto Stop/Start Disable	Press factory Stop/Start button to turn it off and Tazer will automatically remember on restart.

Contact Us!

Feel free to reach out with any questions! **Email is preferred since we often need to send links and written steps.**

- **Email:** support@zautotech.com
- **Text Message:** (833) 432-3549

Hours: M-F 9AM-4:30PM EST

TAZER JL Lite User's Guide

For Firmware 11.4.7 - 10292025

The Tazer JL Lite (P/N: z_tzr_jll) is a DIY features programmer for the following vehicles:

2018-Present
Jeep Wrangler JL
Jeep Gladiator JT
Jeep Wrangler 4XE

The Tazer JL Lite is a cheaper, feature-limited version of the Tazer JL Mini and can be upgraded to a Tazer JL Mini at any time by purchasing an Activation Key. That process is described on page 3.

What's in the box?



- Tazer JL Lite
- USB Mini-B Cable

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CLICK or TAP to jump to section or Use CTRL + F (Windows) or ⌘ + F (MacOS) to search the document

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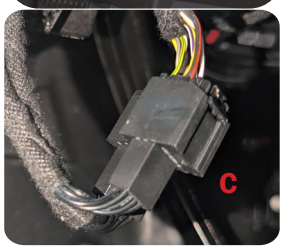
Installation





- Unplug the two SGW connectors **circled in green** by pressing the tab with your index finger and gently pulling straight down on the wires.
- Plug those two connectors into the Tazer JL Lite.
- The driver knee panel may be removed for easier access to the connectors.
- The Tazer JL Lite can be left plugged in, as many of its features (Live Functions) only work when plugged in.
- We HIGHLY recommend the optional SGW Extension Cable (A), available from our website. Install it in the now-vacant SGW ports (B) for easier access when removing the Tazer for dealer service. Remember to reconnect the SGW plugs to their factory location (B) or the extension (C) when you remove the Tazer!
- The Tazer JL Lite will go to sleep and stop blinking 30 seconds after the Jeep shuts down.





The Tazer JL Lite fits ALL models of the Wrangler JL, Wrangler 4XE and Gladiator JT. If one of the plugs doesn't fit, YOU'RE LOOKING AT THE WRONG PLUGS (circled in red).

The next step is to Marry the Tazer to your vehicle. Refer to the previous Critical Information page and the following list of menu items. Marrying does not change any settings.

Only change a Vehicle Setting when you've made a relevant change to your vehicle. Example: Only change the "CamEn" setting if you are ADDING a backup camera. There's no reason to change that setting if you already have a backup camera.

Features and Menus

Tazer JL Lite features are broken into three categories:

- **Vehicle Settings** are accessed with the **Tazer Married** to your vehicle, **engine OFF** and **ignition in the "RUN" position**. These are programmed changes such as tire size and gear ratio, or which accommodate added hardware. **These remain when the Tazer is unplugged.**
- **Live Functions** are accessed with the **Tazer Married or Unmarried** and the **engine ON**. These are operations the Tazer JL Lite performs live, **only while it is physically connected.**
- **"Non-Menu" Live Functions are not located in a menu.** They are **activated automatically or with a steering wheel button combination**. These are operations the Tazer JL Lite performs live, only while it is physically connected.

Vehicle Settings

This section explains the Vehicle Settings used primarily for feature activation.

The **Vehicle Settings menu** is accessed with the **ignition in "Run" (not "ACC") and the engine NOT running.**
The menu items are listed in the order in which they will display on your dash. Actual menu text is noted in quotes.

For Vehicle Settings in the "Perf" and "Tire" submenus, don't forget to "SAVE" number values before the required Full Reboot and two sleep cycles. Immediately follow with a 20 minute drive, preferably at highway speed. This process will ensure that all tire sensors recalibrate.
An additional tire size relearn procedured is required on Manual Transmission vehicles. Click this link for those steps.

Main Menu

- **Light Shows "LightShow?":** Cycle through 6 preset and 3 make-your-own light shows that flash the exterior lights – perfect for car shows/first responders/off-road visibility – can also be controlled from key fob or steering wheel buttons – can be enabled in-motion for use in parades, off-road and for legal police/EMS applications (contact support for more info)
  Custom Light Shows can be configured in the ZPU software.
- **Read DTCs:** View any error codes in the
  Powertrain Control Module **(PCM)**
  Body Control Module **(BCM)**
  Transmission Control Module **(TCM)**
  Anti-lock Brake System **(ABS)**
  Drivetrain Control Module **(DTCM)**
  Radio Frequency Hub **(RFH)**
  Drive Assistance Module **(DASM)**
  Occupant Restraint Controller **(ORC)**
  ParkTronic System **(PTS)**
  Emissions Readiness **(Ready)**
- **Clear DTCs:** Clear any error codes in those same systems.
- **"Marry": To advance to any of the Vehicle Settings submenus, you will first need to "Marry" the Tazer to the vehicle.** When you select this option, the Tazer will download your car's **current** (presumably stock) settings to be restored when you Unmarry. This should take around 15 seconds.
  Do not disturb this process.
  This option will change to "Unmarry" once Married. See Critical Information for details.
  If the Tazer is already Married to a different vehicle, this option will read "NOT VIN." See page 8 for details.
- **Submenus:** Once married, you can advance though several sub-menus. Select a submenu using the method described above.
  "**Perf?**" PERFORMANCE SUBMENU
  "**Tire?**" TIRE SUBMENU
- **Firmware Version Display "TZJL: x.x.x.":** Shows the running Tazer firmware revision.
- **Unmarry Number "UnmryNo: XXXX":** Shows the current "Unmarry Number." **This is not the same as "Unmarry?" and is only used when the Tazer is Married to a different vehicle. See page 8 for details.**
- **Full Reboot "FullReboot?":** This option resets vehicle modules and the UConnect system twice. The dash will reset. When finished, the red dash security dot will turn on. It may turn off or not depending on the vehicle.
  This takes 2.5 minutes and should be performed after any Vehicle Settings (engine-OFF menu) are changed. Follow with two sleep cycles as described on the Critical Information page.

Performance Submenu "Perf"
Tire and Performance Options

- **Set Tire Size "Tire":** This setting will change the programmed tire diameter. Use the hand-measured height in inches for accurate sensor readings.
- **Set Gear Ratio "GrRatio":** This setting will change the programmed gear ratio.
- **Set Transfer Case LOW Ratio "4 Low":** This setting will change the programmed 4Lo gear ratio.
- **Set TPMS "TPMS":** Change the tire pressure monitoring system type – good when using drag radials or winter tires when the sensors aren't present anyway. Can be **NONE** (disabled), **BASE** (low tire warning only), or **PREMIUM** (individual tire pressure).
- **Set Tire Pressure "PSI Front/Back":** This setting changes the TPMS warning pressures.
  The Jeep's computer can only recognize a minimum of 25 PSI.

TPMS Submenu "Tire"
TPMS Options

Full Features Activation (Tazer JL Mini Upgrade)

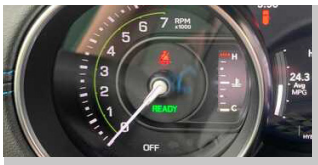
Follow these steps to purchase an upgrade for your Tazer JL Lite to a Tazer JL Mini and unlock the full feature set, including configuration options for lighting and many Live Features.

1. **Navigate to the "S/N:" option** in the ENGINE-OFF Vehicle Settings menu and **write down the 4-character Serial Number.**
   The Serial Number can also be found in the top device info bar and in the "Upgrade" tab on the "Update" screen of the ZPU update software by clicking "Request." Be sure you're in the **"UPGRADE" Tab** rather than the Unmarry Tab.
2. **Visit this URL to purchase an Activation Key**, where you'll be prompted to **enter that Serial Number.** https://www.zautomotive.com/product/activation-key/
   Be sure to **enter the correct Serial Number or your Activation Key WILL NOT WORK.**
3. Once your purchase is complete, you'll be redirected to a **confirmation page containing your Activation Key.**
4. **There are two ways to enter your Activation Key:**
   1. Computer: Plug the Tazer in over USB, then head to the **"UPGRADE" Tab** on the Update screen of ZPU. Enter the key in the lower text box and click "Activate." **There will be a short count-down, followed by a "Successful" message.**
   2. In Vehicle: Navigate back to the "S/N:" option and select it (◁ (HOLD) + CRUISE ON/OFF). You will be prompted to enter the Activation Key. Enter each character with ◁ (HOLD) + CRUISE SET +/-, followed by ◁ (HOLD) + CRUISE ON/OFF to confirm and proceed to the next character. **Once the last character is confirmed, the dash will read "SUCCESS."**
5. Click here for the Tazer JL Mini Manual!

Live Menu Settings

The **Live Menu** is accessed using the **same button presses** as the Vehicle Settings menu, but **with the engine RUNNING.* The menu items are listed in the order in which they will display.**

LIVE MENU SETTINGS DO NOT REQUIRE A FULL REBOOT OR SLEEP CYCLES AND ARE NOT REMOVED WHEN YOU UNMARRY!



* the 4XE will also access the Live Menu with the engine off, ignition in RUN and the tachyometer at 0

When using the Mute shortcut, **avoid turning the camera off using the on-screen "X."** Instead, wait for the TurnCam to turn off after your signal or use the Mute shortcut again to turn the camera off.

Main Menu

- **Light Shows** "**LightShow?**": Cycle through 6 preset and 3 make-your-own light shows that flash the exterior lights – perfect for car shows/first responders/off-road visibility – can also be controlled from key fob or steering wheel buttons – can be enabled in-motion for use in parades, off-road and for legal police/EMS applications **(contact support for more info)** Custom Light Shows can be configured in the ZPU software.
- **Winch RPM** "**Winch XXXX**" **(excl. 4XE)**: Select this option to adjust the Winch Mode RPMs between 1300 and 2000. Remember to SAVE the value.
- **TireFill** "**TireFill?**": Select a PSI and the marker lights near each tire will
  - **flash slowly if underfilled**
  - **flash quickly if overfilled**
  - **remain solid at the correct pressure**
- **Dark Mode** "**DarkMode?**": Select to turn off vehicle lights. Advance to the next menu item, press "Screen Off," or drive over 5 mph to cancel this mode.
- **Set Video** "**Video?**": Select to cycle between camera and video inputs.
- **"VAC" or "BOOST"**: Choose VAC or BOOST to display that gauge on the EVIC screen.
- **0-30 Timer** "**0-30**": Select this option with the vehicle stopped and the display will change to "start 30." As soon as the vehicle starts moving, the display will change to "go to 30" and the timer will start. When the vehicle reaches 30MPH, the time will be displayed.
- **0-60 Timer** "**0-60**": Select this option with the vehicle stopped and the display will change to "start 60." As soon as the vehicle starts moving, the display will change to "go to 60" and the timer will start. When the vehicle reaches 60MPH, the time will be displayed.
- **Firmware Version Display** "**TZJL: x.x.x.**": Shows the running Tazer firmware revision.

Non-Menu Live Functions

Some **live** functions of the Tazer JL Lite are **not accessed via a menu**, but rather work automatically or with **button presses**.

- **Light Show Shortcuts:** The Tazer JL Lite has three button shortcuts to start Light Shows. Those are:
  Keyfob: Press **UNLOCK, UNLOCK, LOCK, UNLOCK** on the keyfob to start the first light show in the sequence (depending on which show it's configured to start with). Pressing unlock again will advance to the next enabled show. **Pressing lock will turn off the light shows.** You may lock the vehicle while the shows are on by pressing the button on the door handle or using the key.
  Steering Wheel: Press **HIGH BEAM STALK (PULL) + CRUISE+** to start the first light show in the sequence. Press **CRUISE+** to advance to the next enabled show.
  Adaptive Cruise buttons: See the button remap instructions below. Press the remapped button to turn the Light Show on or off.
  The light show will shut off if it's used for such a long time that the vehicle battery voltage drops below 11V.
- **Auto Stop/Start Disable (excl. 4XE):** The Tazer JL Lite will **automatically** remember the On/Off state of the Auto Stop/Start button when you turn the vehicle off.
- **Sway Bar in 2WD:** Press **SWAY BAR** while in 2WD and it will disconnect or re-connect as if it were in 4WD. It will automatically re-connect at 30MPH and disconnect when the Jeep comes back to a full stop. See "SwayKill" in Button Remap section for full sway bar control.
- **Cooldown Mode (excl. 4XE):** Press ▷+ **CRUISE CANCEL** to turn the engine fans on High. Press again to turn them off.
  NOTE: When the engine is off, the fans will turn off automatically if the battery drops to 11V.
  NOTE: The transmission temperature will read as 229F while this mode is being used with the engine running.
  NOTE: Only works with the engine OFF on manual Jeeps
- **Winch Mode (excl. 4XE and Diesel):** Press ◁/**BACK(HOLD) + CRUISE RES** to raise the idle RPMs to the value selected in the live menu (default 2000). There may be a few-second delay before it changes. Touching the accelerator will cancel Winch Mode.
- **Anchor Mode (excl. 4XE) (REQUIRES Brake Hold to be ON):** This feature locks all four brakes until the accelerator is pressed. To activate, **BRAKE FIRMLY + PULL HI-BEAM STALK.** This works in conjunction with Winch and Cooldown Modes.
- **Line Lock (excl. 4XE):** While **in 2WD** and at a full stop, press ◁/**BACK(HOLD) + CRUISE+**. Once the ABS and Brake lights on the dash begin to flash, continue to hold the buttons and pump the brake pedal twice firmly and release. The Jeep will stay held using only the front brakes while you press on the accelerator to do a burnout. "LineLock" will be displayed in the cluster. This will automatically force RWD on 392.
- **Rock Crawl (excl. 4XE):** This feature holds all four brakes while you work the pedals to apply torque. Press and hold ◁/**BACK(HOLD) + CRUISE-** and pump the brakes twice. Once "RockCrawl" shows on the EVIC, release the buttons when you're ready to start moving.
- **Set Camera:** Rather than using the menu to cycle cameras and video inputs, they can also be cycled by **quickly tapping the radio MUTE button twice**.
- **Partial Reboot:** Press ◁/**BACK(HOLD) + CRUISE RES** with the engine OFF and the ignition in RUN to reset several systems including the PCM (engine adaptives), RF Hub, Instrument cluster, ABS, BCM.

The Unmarry Key

This feature is ONLY for when your Tazer is Married to a different vehicle.

If you receive a Tazer second-hand, or lose access to your vehicle without Unmarrying your Tazer and receive the "Not VIN" error:

1. **Navigate to the "UnmryNo:" option** in the ENGINE-OFF Vehicle Settings menu and **write down the 4-character Unmarry Number.**

The Unmarry Number can also be found in "Unmarry" tab on the "Update" screen of the ZPU update software by clicking "Request." Be sure you're in the **"Unmarry" Tab** rather than the Upgrade Tab.

2. **Visit this URL to purchase an Unmarry Key**, where you'll be prompted to **enter that Unmarry Number.** https://www.zautomotive.com/products/unmarry-key

Be sure to **enter the correct Unmarry Number or your Unmarry Key WILL NOT WORK.**

3. Once your purchase is complete, you'll you'll be redirected to a **confirmation page containing your Unmarry Key.**
4. **There are two ways to enter your Unmarry Key:**

   1. Computer: Plug the Tazer in over USB, then head to the "Unmarry" Tab on the Update screen of ZPU**.** Enter the key in the lower text box and click "Activate." **There will be a short count-down, followed by a "Successful" message.**

   2. In Vehicle: Navigate back to the "UnmryNo:" option and select it (◁ (HOLD) + CRUISE ON/OFF). You will be prompted to enter the Unmarry Key. Enter each character with ◁ (HOLD) + CRUISE SET +/-, followed by ◁ (HOLD) + CRUISE ON/OFF to confirm and proceed to the next character. **Once the last character is confirmed, the dash will read "WIPED."**

Common Troubleshooting

Symptom	Cause	Solution
No menu in EVIC	Display or ignition in incorrect state or firmware flash required.	Confirm ignition in RUN, not ACC, with dash on AUDIO and that you're HOLDING Left while TAPPING Cruise Cancel. If that doesn't do it, try running through the steps here to do a clean re-flash of the firmware: https://www.zautomotive.com/fixmytazer
Changed a setting and it didn't take effect	Value was not "SAVED" and/or Full Reboot and 2 sleep cycles were not performed	Follow the directions on page 1.
Changed gear ratio and "service AWD" is showing	Incorrect gear ratio chosen or Full Reboot and 2 sleep cycles were not performed	Follow the directions on page 1 and go for a short drive to fully initialize.
Manual transmission: changed tire size and have ESS error/backup camera stopped working	ESS re-learn procedure not completed.	Please see the ESS relearn procedure on the support page for Tazer JL.
Red security light on, ignition state won't change or vehicle won't start	Needs time to complete synchronization routine after configuration change	Wait a few minutes and then try changing ignition state, then perform one sleep cycle.
Winch Mode will not turn off.	If you are using a Pedal Commander, it may interfere with Winch Mode turning off.	Remove the Pedal Commander, turn Winch Mode off, then reconnect the Pedal Commander.
Changed tire size in a 2025+ vehicle and received errors related to emergency braking, cruise control and lane assist.	2025.5 Wranglers a 2026 Gladiators have a manufacturing defect unrelated to the Tazer which causes these errors after tire size changes. This affects even dealers.	We created the DASM Whisperer to fix this issue. Click here for more info.

Z Automotive cannot be held responsible misuse or consequential damages.
If you are in doubt, email support@zautotech.com.
Please be aware that modifying your vehicle in any way can affect your vehicle's warranty, longevity, handling, etc.
Please use with caution, and AT YOUR OWN RISK.
USING THE LIGHT SHOW FEATURE ON PUBLIC ROADS: IMPERSONATING A POLICE OFFICER IS A FELONY. LIGHT SHOW IS INTENDED FOR CAR SHOW/TRACK/OFF ROAD USE ONLY.
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