



AUTOMOTIVE
Electronic Performance Modifications

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TAZER JL *Mini*

Also compatible with
Jeep Gladiator JT

User's Guide

For Firmware [11.3.9 - 082222](#)

The **Tazer JL Mini** is an electronic plug-in device for the following vehicles:

2018-2023 Jeep Wrangler JL

2020-2023 Jeep Gladiator JT

2021-2023 Jeep Wrangler 4XE

Firmware Updates

New firmware is available periodically, always free and posted to the Z Automotive website. The Tazer may not ship with the latest firmware, so use [ZPU](#) ([Z Automotive Programming Utility](#)), also on the website, to install the firmware over USB.



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Feature List

Tazer JL Mini features can be broken into three categories:

- **Vehicle Settings** are accessed with the **engine OFF** and the ignition in the **“RUN” position**. These are changes made to the Jeep such as tire size, gear ratios or settings which accommodate other upgrades. **These changes will continue to operate after the Tazer JL Mini is unplugged.**
- **Live Functions** are accessed with the **engine ON**. These are operations the Tazer JL Mini 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 Mini performs live, only while it is physically connected.

NOTE: This is just a list of available features. To learn more about how to activate them or what they do, continue to the dedicated section of the manual for each set of features.

List of Vehicle Settings (ENGINE OFF, IGNITION IN “RUN”)

Main Menu

- **“LightShow?”** 6 preset and 3 make-your-own light shows that flash all the exterior lights – perfect for car shows/first responders/off-road visibility – 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)**
- **“Read/Clear DTCs?”** read and clear DTCs system-wide or in specific modules

Submenus:

- **“Perf?”** PERFORMANCE SUBMENU
- **“TPMS?”** TPMS SUBMENU
- **“Radio?”** RADIO SUBMENU
- **“Lighting?”** LIGHTING SUBMENU
- **“Off Road?”** OFF ROAD SUBMENU
- **“Other?”** OTHER SUBMENU
- **“Marry?”** Marry to access the submenus, then one-touch **“Unmarry?”** Unmarry function returns to stock
- **“TZJL: x.x.x.”** display firmware version
- **“UnmryNo: xxxx”** display Unmarry Number **(ignore this unless instructed not to by support)**
- **“Full Reboot”** reset vehicle modules and UConnect system.

Performance Submenu

- **“Tire”** calibrate speedometer for non-factory tire sizes
- **“GrRatio”** calibrate speedometer for non-factory gear
- **“4 Low”** change the Transfer Case LOW ratio ratios

Tire Submenu

- **“TPMS”** disable Tire Pressure Monitoring System warnings
- **“PSI Front/Back”** change the TPMS warning pressures

Radio Submenu

- **“Cam En”** enable/disable the factory backup camera
- **“CargoCam”** enable aux video/audio for front camera and/or external video source **(8.4” UConnect only)**
- **“DVD_CD”** enable/disable radio’s CD audio input
- **“TravelLnk”** enable/disable SiriusXM TravelLink
- **“OffRdPgS”** activate Offroad Pages **(8.4” UConnect only)**

Lighting Submenu

- **“DRLType”** choose full-time (Canada) or toggled (USA) DRLs
- **“DRL Loc”** set DRL location - choices:
 - DRL
 - Turns
 - Fogs
 - High beams
 - Low beams
- **“DRL Drop”** disable Daytime Running Light Dropout (DRL shut-off while turn signal is on)
- **“Fogs En”** enable/disable factory fog lights
- **“Fog Drop”** enable/disable Fog Light Dropout (fog light shut-off while high beams are on)
- **“OneTouch”** enable/disable one-touch lane change
- **“Halo En”** enable/disable factory halos
- **“LED Heads”** configure vehicle for LED headlights
- **“LED FOGS”** configure vehicle for LED fog lights
- **“LED Tails”** configure vehicle for LED tail lights
(aftermarket lights may require a resistor harness)
- **“Tail”** configure taillights for overseas conversion
- **“LED FTrn”** configure vehicle for LED front turn signals
(aftermarket lights may require a resistor harness)
- **“AutoHiBm”** enable/disable factory automatic high beams
- **“TRLR Tow”** configure vehicle for the Trailer Tow package

Off-Road Submenu

- **“SwayBar”** delete electronic sway bar warnings after removal
- **“EPSteer”** configure vehicle for hydraulic steering pump
- **“TrlrBrk”** configure vehicle for MOPAR trailer brake controller
- **“Locker”** delete factory axle lockers
- **“FrtAxl”** delete factory Front Axle Disconnect after axle swap
- **“DTCM”** declare presence of DTCM **(Rubicon transfer case)**

Other Submenu

- **“AUX”** enable/disable AUX button package
- **“BlindSpot”** enable/disable blind spot detection package
- **“BeltDing”** enable/disable seatbelt ding
- **“ParkSense”** change ParkSense calibration or disable
- **“Splash”** change EVIC splash screen
- **“DualZone”** configure vehicle for single/dual zone center stack
- **“HomeLink”** enable/disable factory HomeLink visor and harness
- **“Paddles”** enable support of added factory paddle shifters
- **“DimMirror”** enable/disable factory auto-dim mirror
- **“ProxEntry”** enable/disable factory proximity entry handles and harness
- **“Bed115v”** enable/disable pickup bed outlet **(Gladiator)**
- **“AutoHL”** enable/disable factory automatic headlight assembly
- **“PanicBtn”** enable/disable keyfob Panic button
- **“SGW”** enable/disable access to the security gateway

List of Live Functions (ENGINE ON)

LIVE Main Menu

- **“LightShow?”** activate Light Show
- **“Live Settings?”** LIVE SETTINGS SUBMENU
- **“PlsBrk”** and **“PlsBrkNum”** enable and customize third brake light flash pattern
- **“Winch XXXX”** define Winch Mode RPM **(excl. 4XE)**
- **“TireFill?”** flash to indicate pressure while filling tires
- **“DarkMode?”** turn off exterior lights and dash/radio/shifter lights while parked with the engine running
- **“Video?”** cycle cameras/video inputs
- **“VAC”** display Vacuum/Boost Gauge
- **“0-30/0-60 timer”** display 0-30 or 0-60 times on EVIC display
- **“ForceRWD”** force RWD or AWD **(392 only)**

-
- “**BrakeHold**” automatically hold brakes at a red light
- “**HomeLnkExt**” use garage door opener after shutdown
- “**TurnCam**” activate rear camera while signalling (**5, 7, 8.4” UConnect**)
- “**Kill3Honk**” disable honks when leaving running vehicle wvith the keys (**driver door only for now**)
- “**HoodAlarm**” toggle hood alarm
- “**AutoPassHt**” enable passenger side heat on remote start

List of “Non-Menu” Live Functions

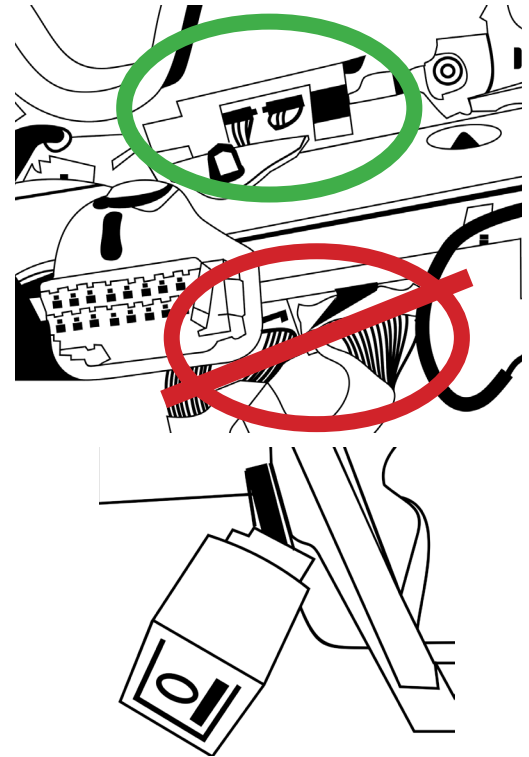
(NOT IN A MENU – AUTOMATIC OR
ACTIVATED WITH BUTTON INPUTS ONLY)

- activate Light Show (shortcuts)
- AutoTrackKill – **automatically remember** the last state of the traction control system and set it for you the next time you start the vehicle
- disconnect sway bar in 2WD up to 30mph or at any speed if mapped to a button
- License Plate Blanking - **automatically turn off** license plate light when in reverse or using TurnCam to reduce glare
- activate bed lights/reverse lights from keyfob (**Gladiator**)
- engage lockers in 2WD and 4Hi on demand (**Rubicon, Mojave**)
- Cooldown Mode – turn on engine fans on-demand with or without the engine running
- Winch Mode – raise idle RPM to user-selected value between 1250 and 2000 (**excl. 4XE**)
- Hood Alarm – monitor hood when alarm is armed to sound the alarm and flash a light show if opened
- Line Lock – use ABS solenoids to lock the front wheels for burnouts at the track or just for fun (**AWD forced off during use**)
- Rock Crawl – lock all four brakes with a steering wheel button combo to hold the vehicle still, especially helpful when off-road (**excl. 4XE**)
- Anchor Mode – lock all four brakes in park to anchor Jeep (**excl. 4XE**)
- TC Kill – turn off traction control, stability control and ABS (**excl. 4XE**)
- use backup camera and added cargo/front camera or media player at any speed with a button shortcut
- Turn Assist – lock the inside back tire for sharper turns (button remap function only) (**excl. 4XE**)
- remap cruise +/-/RES buttons to:
 - Any of the 8 light shows
 - rear camera
 - TC Kill (**excl. 4XE**)
 - Line Lock (**excl. 4XE**)
 - Rock Crawl (**excl. 4XE**)
 - Turn Assist (**excl. 4XE**)
 - Winch Mode (**excl. 4XE**)
 - Cooldown Mode
 - front/rear/front+rear lockers
 - SwayKill
 - Dark Mode
 - Force RWD
- Partial Reboot



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 Mini.
- The driver knee panel may be removed for easier access to see the connectors
- The Tazer JL Mini can be left plugged in, as many of its features (Live Functions) only work when plugged in.
- An optional [SGW Extension Cable](#) is available from our website for easier removal.
- The Tazer JL Mini will go to sleep 30 seconds after the Jeep shuts down.



The Tazer JL Mini fits **ALL** Jeep JLs, JTs and 4XEs. If it looks like one of the plugs is too big, **you're looking at the incorrect plugs** (circled in red).

Menu Navigation

- For all functions involving the dash (EVIC) display, the EVIC screen first needs to be in a state where it's showing the **AUDIO screen**. Navigate to this screen using the steering wheel arrow buttons.
- Once the display is in this state, use the button commands below to operate your Tazer JL Mini.

Function	Button Input
OPEN MENU/SCROLL MENU	◀ (HOLD) + CRUISE CANC
SELECT/CHANGE OPTION or SAVE VALUE (TIRE SIZE, TPMS THRESHOLD, ETC.)	◀ (HOLD) + CRUISE ON/OFF
ADJUST VALUE (TIRE SIZE, TPMS THRESHOLD, ETC.)	◀ (HOLD) + CRUISE +/-

CRITICAL



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Read everything on this page CLOSELY.

EVERY SINGLE TIME YOU MAKE CHANGES IN THE “VEHICLE SETTINGS” (ENGINE OFF) MENU **OR UNMARRY, YOU MUST PERFORM A FULL REBOOT AND TWO SLEEP CYCLES.** THIS PROCESS IS EXPLAINED HERE:

How to perform a FULL REBOOT AND TWO SLEEP CYCLES

- After making all of your changes, scroll to “full reboot?” and select it.
- Wait for the countdown, then perform two sleep cycles.
- The quickest way to do two sleep cycles is to turn the ignition off, open and close the driver’s door and wait about 60 seconds AFTER the dash goes dark, then turn the ignition on (but not the engine) and repeat once more.
- **This step is critical after changing settings** or settings might not save, or you may find that the dash doesn’t shut down, which can result in a dead battery.

Full Reboots should be performed on level ground, with the wheels straight and with your foot off the brakes.

Returning to Stock (Unmarry)

SELECT “UNMARRY?” FROM THE VEHICLE SETTINGS MENU AND PERFORM THE STEPS ABOVE TO RETURN YOUR VEHICLE TO STOCK CONFIGURATION*

*Your Tazer stores the configuration present when it’s Married. That will be what it returns to when you Unmarry, even if it wasn’t stock.

You should Unmarry and remove your Tazer before dealer service or if you wish to use your Tazer in another vehicle.

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.

Main Menu

- **Light Shows “LightShow?”**: Activate pre-programmed and custom light shows, even when the engine isn’t running.
- **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**)
- **Clear DTCs**: Clear any error codes in those same systems
- **“Marry”**: To advance to any of the vehicle settings, 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. This should take around 15 seconds. **Do not disturb this process. This option will change to “Unmarry” once Married. See the previous page for details.**
- **Submenus**: Once married, you can advance through several sub-menus. Select a submenu using the method described above. Submenus and their contents are listed starting on the next page.
 - “Perf?” PERFORMANCE SUBMENU
 - “Tire?” TIRE SUBMENU
 - “Radio?” RADIO SUBMENU
 - “Light?” LIGHTING SUBMENU
 - “Offroad?” OFFROAD SUBMENU
 - “Other?” OTHER SUBMENU
- **Firmware Version Display “TZJL: x.x.x.”**: Shows the current Tazer firmware revision.
- **Unmarry Number “UnmryNo: XXXX”**: Shows the current “Unmarry Number” ([see page 13](#)).
- **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 are changed.** Follow with two sleep cycles as described on the previous page.

Perf Submenu “Perf”: tire and performance-based 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.

NOTE: Use **</BACK(HOLD) + CRUISE+/-** to raise or lower these values and **</BACK(HOLD) + CRUISE On/Off** to save the setting.

NOTE: For these settings, after the required **Full Reboot and two sleep cycles**, go for a **20 minute drive**, preferably highway, so that all sensors adjust. **This process will assure that the speedometer and shift points recalibrate.**

Tire Submenu “Tire”: TPMS options

- **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 Pressures Front/Rear “Psi Front/Back”**: This setting changes the TPMS warning pressures – use **◀/BACK(HOLD) + CRUISE+/-** to raise

or lower the pressure and

◀/BACK(HOLD) + CRUISE On/Off to save the new setting. **The Jeep’s computer will only recognize a minimum of 25 PSI.**

NOTE: For these settings, after the required **Full Reboot and two sleep cycles**, go for a **20 minute drive**, preferably highway, so that all sensors adjust. **This process will assure that the TPMS sensors recalibrate.**

Radio Submenu “Radio”: radio-based options

- **Set Backup Camera “Cam En”**: This setting enables a **newly-added** factory backup camera.
- **Set Cargo Cam “CargoCam”**: This setting will add the Cargo Cam selector to the camera view and activate the input for use with a Z Automotive front camera, AV kit, **OR** HDMI-AV Kit. **You may only use one.**
- **Set DVD/CD “DVD_CD”¹**: This setting activates the CD input on the radio, for use as an aux input,

particularly for the Z Automotive AV or HDMI-AV Kit.

- **Set Travel Link “TravelLnk”**: This setting adds the ability to disable SiriusXM Travel Link, which turns off the weather pop-ups. Also disables SiriusXM Traffic information.
- **Offroad Pages “offRdPgS”**: Activate Offroad Pages after upgrading to an 8.4” radio. Requires a UConnect firmware from 2019 or later.

Lighting Submenu “Lighting”: DRL and other lighting options

- **Set DRL Type “DRLType”**: Choose USA (on but selectable), Canada (on all the time) or OFF (disabled).
- **Set DRL Location “DRL Loc”**: Choose which lights to use as DRLs (results vary with vehicle model) - choices:
 - DRL
 - Turns
 - Fogs
 - High beams
 - Low beams
- **Set DRL Dropout “DRL Drop”**: Set to OFF, this will keep the DRLs on even when a turn signal is in use.
- **Set Fog Lights Enable “Fogs En”**: This setting enables newly-added factory fog lights.
- **Set Fog Dropout “Fog Drop”**: Set to OFF, this will keep the fogs on even when the high beams are in use.
- **One-touch “OneTouch”** enable/disable one-touch lane change
- **Set Halo Enable “Halo En”** enable/disable factory halos

- **Set LED Headlights “LED Heads”** configure vehicle for LED headlights
- **Set LED Fogs “LED FOGS”** configure vehicle for LED fog lights
- **Set LED Tails “LED Tails”** configure vehicle for LED tail lights (**aftermarket lights may require a resistor harness**)
- **Taillight Type “Tail”** configure taillights for overseas conversion (**If you are unable to restore the default value, you should Unmarry as described on page 6 to return to stock.**)
- **Set LED Front Turn “LED FTn”** configure vehicle for LED front turn signals

NOTE: For this setting, after the required **Full Reboot and two sleep cycles**, run each blinker for **20 seconds each**. If this does not clear hyperflash and you have **aftermarket lights**, your lights **might require a resistor harness.**
- **Set Trailer Tow “TRLR Tow”**: Configure the vehicle for MOPAR trailer towing wiring kit

Offroad Submenu “Offroad”: offroad-related options

- **Set Sway Bar “SwayBar”**: Set to YES, this deletes the warnings after the Electronic Sway Bar has been removed
- **Set EPSteer “EPSteer”**: This setting is used if you deleted the factory electronic steering pump for a hydraulic pump.
- **Trailer Brake “TrlrBrk”**: This setting will activate a MOPAR trailer brake controller.
- **Set LOCKER “Locker”**: This setting is used if you

deleted the factory axle lockers. You can delete front only, or both. If the front locker is deleted then the front axle disconnect is deleted and needs to be disabled as well.

- **Set Front Axle Disconnect “Frtaxl”**: This setting will delete the factory Front Axle Disconnect for those that have done axle swaps.
- **DTCM “DTCM”**: Declare the presence of a Drive Train Control Module (Rubicon Transfer Case)

Other Submenu “Other”: additional vehicle settings

- **Set AUX “AUX”**: Set to YES, this configures the vehicle for the AUX button package.
- **Set Blind Spot “BlindSpot”**: Set to YES, this configures the vehicle for the AUX button package.
- **Set Seatbelt Ding “BeltDing”¹**: Set to OFF, this will disable the chime when your seatbelt is off. The seat belt warnings on the dash will continue to function.

Always wear your seatbelt.

- **Set ParkSense “ParkSense”**: This setting is to change or disable ParkSense system. Choices are as follows:

0: None
1: Sahara
2: Rubicon

- **Set Splash “splash”**: With this setting you can choose the cluster splash screen.

For Wranglers:

Sport
Sahara
Rubicon

For Gladiators:

Sport
SportX
Rubicon

- **Set DualZone “DualZone”**: This setting allows the use of the single zone or dual zone center stack button

assembly. Useful when upgrading from a 5” radio to 7 or 8.4, and swapping in the dual zone controls that come with volume knobs. Note: the system will still be single zone in this case, only the driver controls will change the temperature.

- **Set HomeLink “HomeLink”**: Set to YES, this enables the factory HomeLink visor and harness.
- **Set Paddle Shifters “Paddles”**: Set this to ON after adding factory paddle shifters.
- **Auto Dim Mirror “DimMirror”**: Set to YES, this enables the factory auto-dim mirror
- **Set Proximity Entry “ProxEntry”**: Set to YES, this enables the factory proximity entry handles and harnesses
- **Bed 115v “Bed115v”**: Set to YES, this enables the pickup bed outlet (**Gladiator**)
- **Set Auto Headlights “AutoHL”**: Set to YES, this enables the factory automatic headlight assembly
- **Set Panic “PanicBtn”**: Set to NO, this disables the PANIC button on the keyfob. **This needs to be set to ON for the Hood Alarm feature to work.**
- **SGW Lock “sgw”**: Set to NO, this allows access through the security gateway for dealer tools. **Use this feature only if you know your dealer doesn’t mind aftermarket mods. Otherwise, you should Unmarry and remove the Tazer before dealer service.**

Live Menu Settings

This section explains the Tazer's Live Settings – these are activated with the same button presses as the Vehicle Setting, but **while the engine is RUNNING***. These features **will only work if the Tazer remains plugged in.**

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



Main Menu

- **Light Show “LightShow?”**: This is one method of activating the light shows. Selecting this will activate the first show, unless ZPU was used to change the startup show. There are 9 light shows – you can toggle through all 9, then back to OFF.
- **Live Settings “LiveSettings?”**: Select this to enter the Live Settings submenu which includes the adjustable options listed in the next section.
- **TireFill “TireFill?”**: Set the PSI with **◀/BACK(HOLD)** + **CRUISE +/-** 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?”**: Set to ON, this will 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?”¹**: 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.
- **Force AWD “ForceAWD” (392)**: Select Normal, Force RWD or Force AWD. You can change the setting at any time, but the change will only occur when the car is not in motion.
- **Display Tazer Firmware Revision**: Displays the Tazer's current firmware version: “TZJL: x.x.x.” (ie “TZJL: 11.4.0”)

Live Settings Submenu: adjustable LIVE options

NOTE: When using TurnCam or 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.

- **Brake Hold “BrakeHold”**: Set to ON, this will automatically hold your brakes after **pressing the brake firmly for 2 seconds under these circumstances:**
 - not in a Tazer dashboard menu
 - at a full stop
 - your seatbelt is on
 - in drive
- **Homelink EXT “HomeLnkExt”**: This will keep the garage door opener powered after vehicle is shut off. Options are:
 - Off
 - IGN - for 30 seconds after shutdown
 - DOOR - for 30 seconds after shutdown or while door is open with alarm disarmed

Continued...

- **Set In-Motion Nav “InMoNav”:** Set to ON, this allows address entry while the vehicle is in motion. **This is for PASSENGER use.** It may be illegal for the driver to manipulate the navigation system while driving. **It is recommended to leave this setting OFF,** enabling it only when you need to use it. **This will automatically be disabled if TurnCAM is enabled.**
- **“TurnCam”:** Set to yes, this will automatically turn on the backup camera if the turn signals are being used. **This will automatically be disabled if In-Motion Nav is enabled.** Settings are:
 - Off**
 - 5/7 - for 5” or 7” UConnect radio**
 - 8.4 - for 8.4” UConnect radio**
- **“Kill3Honk”:** Set to yes, this will disable the honks that sound when leaving the running vehicle with the keys **(driver door only for now)**
- **“HoodAlarm”:** Set to ON, this will start an alarm and Light Show when the hood is opened. Turn off by starting or unlocking the vehicle or with the Panic button. **(requires that Set Panic is enabled)**
- **“AutoPassHeat”:** Set to ON, this will activate the passenger seat warmer when Auto-On Heat is enabled.
- **Pulse Brake Speed “PlsBrk”:** Choose an option to enable and set the third brake light pulse speed.
- **Pulse Brake Number “PlsBrkNum”:** Set the number of brake light flashes.

Non-Menu Live Functions

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

- **Light Show From Keyfob:** The Tazer JL Mini has two 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.
 - 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.**
- **Stop/Start Kill:** The Tazer JL Mini will **automatically** remember the On/Off state of the Auto Stop/Start button when you turn the vehicle off.
- **Traction Kill:** The Tazer JL Mini will **automatically** remember the Enabled/Disabled system when you turn the vehicle off.
- **Bed/Reverse Lights from Keyfob:** Use the following keyfob shortcuts to turn on the bed and reverse lights:
 - **UNLOCK x3 - Turn on Bed Lights**
 - **UNLOCK x5 - Turn on Bed Lights + Reverse Lights**
 - **LOCK - Turn off the lights (lights will also turn off after 30 minutes)**
- **License Plate Blanking:** The license plate lights will **automatically** turn off when in reverse or using TurnCam to remove glare on the camera at night.
- **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.**
- **Locker Control:** **While stopped,** press **REAR ONLY** in 2WD/4HI or **FRONT+REAR** in 4HI and lockers will engage. Press **OFF** to disengage lockers. This is the same method used to operate the lockers in 4LO. **See LOCKERS in Button Remap section for full locker control.**

Continued...

NOTE: When using TurnCam or 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.

- **Cooldown Mode:** 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

- **Anchor Mode (excl. 4XE):** 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+** buttons. 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.
- **Full traction control disable (excl. 4XE):** **PRESS AND HOLD THE TRACTION BUTTON FOR 5 SECONDS** to fully disable TC and ABS. Shut off and restart the Jeep to reenable. **This will force the 392 into 2WD. Tap again** to restore 4WD.

- **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.**
 - **Turn Assist (excl. 4XE) (button remap ONLY):** **TURN THE WHEEL, THEN PRESS THE REMAPPED BUTTON** to lock the inside back tire for sharper turns.
 - **Button Remap:** **HOLD Right Arrow (▷) and TAP** the desired button to map a hotkey function to it. **You can use the Cruise +, -, and RES buttons.** Simply **TAP the remapped button alone** to use the function. The choices are:
 - Any of the 8 light shows
 - rear camera
 - TC Kill (excl. 4XE)
 - Line Lock (excl. 4XE)
 - Rock Crawl (excl. 4XE)
 - Winch Mode (excl. 4XE)
 - Cooldown Mode
 - Front/Rear/Front+Rear Lockers
 - SwayKill
 - Dark Mode
 - Force RWD
- Keep in mind that not all functions pertain to all vehicles.
- **Partial Reboot:** Press **◁/BACK(HOLD) + CRUISE RES** with the ignition engine OFF and the ignition in RUN to reset several systems including the PCM (engine adaptives), RF Hub, Instrument cluster, ABS, BCM.

UPDATING/LIGHT SHOW CONFIGURATION

Updating your Tazer firmware is done with the [Z Automotive Programming Utility](#), which **requires a computer or other device running Windows or MacOS Catalina or newer** and an available USB port. The ZPU User Guide at the link above explains how to install ZPU and how to perform firmware updates. **If you misplace or damage your USB cable, you can replace it with any common “USB Mini B” data/charging cable.**

Please see the accompanying “[Light Show Configuration Guide](#)” to configure your Tazer JL Mini’s light show options in ZPU

UNMARRYING YOUR TAZER

To Unmarry your Tazer, select “Unmarry” from the Vehicle Settings Menu (not Live). Then perform a “Full Reboot” and two sleep cycles as described on [page 6](#). All of your settings will revert to whatever they were when you originally Married your Tazer.

You should Unmarry and remove your Tazer before dealer service or if you wish to use your Tazer in another vehicle.

The Unmarry Key

NOTE: This feature is **only** for when your Tazer is Married to **another vehicle**.

If you receive a Tazer second-hand, or lose access to your vehicle without unmarrying your Tazer and receive the **“Not VIN XXXX”** error:

1. Navigate to the “UnmryNo” item in the Tazer’s EVIC menu, described on [page 7](#).
2. Write this key down, and visit this URL to purchase our Unmarry Service, where you’ll be prompted to enter that key: <https://www.zautomotive.com/product/unmarry-key/>
3. Return to the UM Key option in the EVIC menu and hit (Left Arrow + Cruise+/-) to begin entering the code provided with your purchase.
4. Press Left + Cruise On/Off to proceed to the next character.
5. Once you’ve entered the last (eighth) digit, your Tazer will report whether the unmarry has succeeded or failed.

Common Troubleshooting Questions

Symptom	Cause	Solution
No menu in EVIC	EVIC display has to be in a state where it can display radio station name	Set EVIC so it's showing radio station name. This would be the the "Audio" menu on the instrument cluster
Changed a setting and it didn't take effect	Full Reboot and 2 sleep cycles were not performed	Follow the directions on page 6 .
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 6 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.
LED Turn signals are hyperflashing	Needs Full Reboot, 2 sleep cycles and calibration	Follow the directions on page 6 . Then run each turn signal for 20 seconds.
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.

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.

Z Automotive is in no way affiliated with FCA.

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