

# Tazer 2<sup>nd</sup> Gen Unlocker/Line Lock/Light Show

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For Firmware Version 2.2.9-031317

The Tazer is an electronic OBD2 plug-in device for the following vehicles:

- 2015-2016 Dodge Challenger
- 2011-2016 Dodge Charger
- 2011-2016 Chrysler 300
- 2014-2016 Dodge Durango
- 2014-2016 Jeep Grand Cherokee



## Feature List:

- Can enable factory Sport Mode for 5 speed vehicles – enables “sport” Uconnect radio button (2012-2014 Charger/300, 8.4” and 4.3” screens)
- Can enable factory Sport Mode for 8 speed vehicles – changes PRNDL to PRNDS (2012-2014 Charger/300, 2015-2016 Charger/Challenger)
- Can enable SRT performance pages on 8.4 Uconnect radio screen(2012-2014 Charger/300)
- Can enable SRT performance timers in EVIC display(2012-2016 Charger/300/Challenger)
- Can enable SRT Drive Modes - street/sport/track/valet/custom/ECO (2015-2016 Scat Pack Charger/Challenger)
- Can enable support of added factory paddle shifters(2012-2016)
- Can enable the addition of factory fog lights
- Can disable Tire Pressure Monitoring System
- Can enable/disable Daytime Running Lights and user can select lights to use (application dependent)
- Can enable the addition of factory backup camera and grid lines
- Can enable in-motion navigation address entry
- Can disable Daytime Running Light Dropout (when DRL shuts off while turn signal is on)
- Can disable Fog Light Dropout (when Fogs shut off while High Beams are on)
- Can disable Seat Belt reminder chime (2015/16 Charger/Challenger)
- Can enable aux video/audio for front camera and/or external video source (2015-2016 Charger/Challenger, 2014-2016 Jeep GC, 2014-2016 Durango)\*
- Can enable factory Shift Light function (2015+ Challenger/ Charger 6.4L)
- Force RWD mode – for AWD cars/trucks, can keep in RWD or AWD, or return to normal automatic operation (2012-2016 Charger, 2014-2016 Jeep GC SRT, 2014-2016 Durango with electronic transfer case)
- Line Lock – Uses ABS solenoids to lock the front wheels for burnouts at the track or just for fun (AWD forced off during use)

- AutoUpshift – Tazer will Upshift vehicle in AutoStick at a user-defined RPM trip point. Can be set using ZPU or via steering wheel buttons on-the-fly (2012-2014 5 speed only)
- Steering Wheel Shifting – Driver can manually shift through gears using steering wheel cruise +/- buttons. (2012-2014 5 speed only)
- Fully disable ESP/Traction Control by pressing and holding ESP button
- Peak RPM Display – Displays actual peak recorded actual shift RPM at every shift when in this mode
- 0 to 30 and 0 to 60 Timers – Displays 0-30 or 0-60 times on EVIC display (for 2011 that can't enable SRT pages and Durango)
- Reset Adaptives – Reset TCM learned shift adaptives on-the-fly
- Light Show mode – 6 preset and 3 make-your-own Light shows that flashes all the exterior lights, perfect for car shows. Control from Keyfob or steering wheel buttons. Can be enabled for in-motion use for parades, off-road and legal police/EMS.
- Can remap ACC buttons or added “aux” buttons (and SPORT button on 2015+ Scat Pack) to many of tazer’s functions.
- Turn engine fans on High on demand when the ignition is on, engine not running – good for the staging lanes at the track.
- Clear CELs – reset that pesky check engine light. Good when you have mods that set the light and you know exactly why.
- Firmware updates – new firmware is available periodically, always free and posted to the Z Automotive website. Use ZPU programming utility, also on the website, to load the firmware.

\* Use of extra video inputs requires wiring video source(s) to radio. Special adapter harness required, sold separately.

## Installation: Plug in Tazer

Installation is a matter of simply plugging the Tazer into the OBD2 diagnostic port under the dashboard, above the parking brake. The Tazer does not need to be plugged in for any of the features in the “setup menu” to remain operational. A Y-cable may be used if you have other devices that need to be plugged into the OBD port at the same time, such as a data logger. The Tazer can be left plugged in, as many of its features are “live” and only work when plugged in. The Tazer will go into “sleep” mode by itself, 30 seconds after the car shuts down.



## Unlocker Operation:

This section explains how to use the Tazer to change the vehicle settings for feature activation.

**NOTE: WRITE DOWN THE SETTINGS - BEFORE AND AFTER - SO THAT YOU CAN CHANGE THEM BACK IF BRINGING THE CAR IN FOR SERVICE.**

**2015-2016 Challenger/Charger/300, 2014-2016 Jeep/Durango:** 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. Use the left and up/down arrows to set the EVIC display like this. One the display is in this state, press and hold the steering wheel LEFT ARROW, and tap the

Cruise “CANCEL” button to enter the settings menu. Pressing LEFT ARROW and CANCEL will advance through the menu items. To change a setting, press and hold LEFT ARROW and tap the Cruise “ON/OFF” (center) button. Advance through the menu slowly. You can exit the menu quickly and safely by holding the left arrow and pressing the cruise RES button. If you made any changes in the setup menu, be sure to either “select” the firmware version or exit the menu using the left arrow and RES button.

**2011-2014 Charger/300:** For all functions involving the dash (EVIC) display, the EVIC screen first needs to be in a state where it’s showing the radio station name on the top line, or if the radio is off, a blank line on top. Use the “BACK” button and up/down arrows to set the EVIC display like this. One the display is in this state, press and hold the steering wheel “BACK” button, and tap the Cruise “CANCEL” button to enter the settings menu. Pressing BACK and CANCEL will advance through the menu items. To change a setting, press and hold BACK and tap the Cruise “ON/OFF” button. Advance through the menu slowly.

***The setup menu is accessed with the ignition ON but engine NOT running.***

***The menu items are listed in the order in which they will display.***

**Light Show:** Though this is not a setting, it’s in the settings menu so that the light shows can be activated also when the engine is off – this will work in ACC mode as well.

**Clear CELs:** Though this is not a setting, if selected, this will clear a check engine light and diagnostic codes stored in the PCM, TCM, ABS, and AWD modules.

**Set Sport Mode for 5 speed:** If set ON, this will add sport mode button to the radio for 5 speed 2012-2014 Charger/300 vehicles. Radio will reset after changing this setting. (If not a 2012-2014 Charger or 300, LEAVE THIS SETTING ALONE)

**Set Sport Mode for 8 speed:** If set ON, this changes PRNDL shifter function to PRNDS on 2012-2014 Charger/300 equipped with an 8 speed. Sport mode might not work right away; may need a sleep/wake cycle to take effect. Park the car for 5 minutes and it should be enabled. (If not a 2012-2014 Charger or 300, LEAVE THIS SETTING ALONE)

**Set SRT Mode :** If not an SRT, and set ON, this will add the SRT splash screen and SRT menu items to the EVIC display in 2012-2014 Charger/300, and SRT Drive Modes to 2015-2016 Challenger/Charger Scat Pack (Enabling this on 2015-2016 Charger 3.6 or 5.7 will result in an airbag error light)

**Set Performance Pages :** For 2012-2014 charger/300, this adds the SRT performance pages to the radio. In 2015-2016 Challenger and Charger, this adds performance pages and extra gauges to EVIC screen, and depending on vehicle might enable performance pages on the 8.4 Uconnect screen<sup>1</sup>.

**Set Paddle Shifters :** If factory paddle shifters are added, this setting will enable them.

**Set TPMS :** Turn the tire pressure monitoring system type – good when using drag radials or winter tires when the sensors aren’t present anyway. Can be NONE, BASE, or PREMIUM. NONE is TPMS disabled. BASE is for the system that only has a low tire pressure warning light. PREMIUM is the system that shows individual tire pressures.

**Set Backup Camera :** If factory backup camera is added, this setting will enable it.

**Set DRL Dropout:** This setting is enabled by default, making the DRL turn off when using a turn signal. Turning this OFF will keep the DRL *on* even when a turn signal is in use.

**Set DRL Type :** Choose USA (on but selectable), Canada (on all the time), or off.

**Set DRL Location :** Choose which lights to use as DRL's (results vary with vehicle model) – Dedicated DRL, SRT DRL's, Turns, Fogs, Hi beams or Low beams.

**Set Fog lights Enable:** If factory fog lights are added, this setting will enable them.

**Set Fog Dropout:** This setting is enabled by default, making the Fogs turn off when using high beams. Turning this OFF will keep the fogs *on* even when high beams are in use.

**Set Seatbelt Ding<sup>2</sup>:** This setting is enabled by default, making the seat chime ding when moving unbuckled. Turning this OFF will keep the chime from making noise, but the seat belt warnings on the dash will continue to function. ALWAYS WEAR YOUR SEATBELT.

**Set Steering<sup>2</sup>:** This setting, for Scat Packs, toggles between SCAT and SRT. If setting SRT on, then change steering to SRT as well. This allows Scat Pack owners to use Track steering firmness from the SRT.

**Set Backup camera grid lines<sup>2</sup> :** : If factory backup camera is added (2015-2016), this setting will enable the dynamic grid lines.

**Set DVD\_CD<sup>2</sup> :** This setting adds the CD input on the RA3/RA4 radio, for use as an aux input, particularly useful if adding a media player or DVD player.

**Set Super Track Pak<sup>2</sup>:** This setting enables Super Track Pak (2015-2016 challenger/Charger) which in most cars is what will add the Dodge Performance configuration app.

**Set Drive Modes<sup>2</sup>:** This, in conjunction with Super Track Pack enables Drive Mode app on uconnect (2015-2016 Challenger/Charger). Depending on build, some drive mode functions may or may not work<sup>1</sup>. This function, along with SRT mode, adds the ability to use track mode on Scat Pack Challengers.

**Set Transmission Drive Mode<sup>2</sup>:** This, in conjunction with Super Track Pack enables Engine/Transmission setting to be available on the Dodge Performance App. For Automatic transmission 2015-2016 Challenger/Charger.

**Set Shift Light<sup>2</sup>:** This enables factory shift light function for (2015-2016) Challengers/Chargers<sup>1</sup>.

**Set EVIC Splash<sup>2</sup>:** This setting will allow changing the start animation on 2015-2016 Challenger/Charger with the following restrictions: If SRT is ON, then the working choices are None (Charger/Challenger will display) or HELLCAT. If SRT is OFF, the choices are None (Charger/Challenger will display), SCAT bee animation, or SHAKER logo (Challenger). This is a new feature, and may not display on some cars.

**Set ECO mode<sup>2</sup>:** This setting, when used with SRT ON, allows the use of ECO mode on 2015-2016 Challenger and Charger Scat Packs, and some 5.7 builds.

**Firmware Version Display:** Shows the current Tazer firmware revision. If selected, will reset the vehicle – this function is used if the dash/shifter isn't going into sleep mode after a configuration change has been made.

## Live Menu Settings:

This section explains how to use the Tazer's live functions – these are activated with the same button presses as the Settings Menu, but while the engine is RUNNING. These features will only work if the Tazer remains plugged in.

**Light Show:** 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.

**Set In Motion Nav:** If set ON, this adds the ability for address info to be entered into the navigation system while vehicle is moving. This is for the PASSENGER to use. It may be illegal for the driver to use the navigation system to enter information while the vehicle is in motion. On RA3/RA4 radios, it will also allow the text feature and switching drive mode settings while in motion.

**Set Camera<sup>2</sup>:** This item will switch between backup camera, VES input, and Aux input. Note the factory backup camera turns itself off at a certain speed (8-20mph). This feature requires that the tazer remain plugged in to function. Works on 2015-2016 Challenger/Charger, and 2014-2016 Jeep GC/Durango.

**Peak RPM Display:** When this is on screen, every time the transmission shifts, whether in Drive or Autostick, Upshift or down, the peak RPM for that shift will be displayed on EVIC screen. Note that this actual shift RPM is where the transmission actually shifted, not when it was told to shift! Automatic transmissions only.

**Force AWD: (AWD models only)** When selected, will switch between “AWD: Normal”, “AWD:Force RWD”, and “AWD:Force AWD. You can change the setting at any time, but the change will only occur when the car is not in motion.

**0-30 Timer:** (2011 and Durango only) When the vehicle is stopped, this display will change to “start 30”. As soon as the vehicle starts moving, the display will change to “go to 30” and the timer starts. When the vehicle reaches 30MPH, the time will be displayed.

**0-60 Timer:** (2011 and Durango only) When the vehicle is stopped, this display will change to “start 60”. As soon as the vehicle starts moving, the display will change to “go to 60” and the timer starts. When the vehicle reaches 60MPH, the time will be displayed.

**Display Tazer Firmware Revision:** Displays the Tazer’s current firmware version: “TZ2G: x.x.x.” (ie “TZ2G:2.2.6”)

## Non-Menu Live Functions:

The Tazer has other live functions that are not accessed via a menu.

**Line Lock:** The Tazer will use the ABS solenoids to lock the front wheels for burnout purposes. To use this feature, you must stop the car then press the steering wheel “back” button (2011-2014) or left arrow button (2015+) and hold it while pressing the cruise + button. Continue to hold the back/ok button, but the cruise button does not need to be held. Once the ABS light on the dash comes on (and EVIC message “Line Lock ON”), pump the brake pedal twice firmly and release. Press the gas pedal, and the rear wheels will break traction. Brakes release when the back/ok button is released. On AWD vehicles, the AWD system will be temporarily forced into RWD until the burnout is complete and the vehicle returns to a full stop. ESP will revert to “Sport” when line lock is released.

**Full ESP Disable/Enable:** Stop the car. Press and hold the ESP button for 5-7 seconds (20 seconds on 2015+) and the ESP lights, BRAKE light, ABS lights will illuminate indicating that ESP and ABS are shut off. With the car stopped press and hold again for 5-7 seconds and the ESP system will turn back on. (2015+ need to re-start to enable)

**Sport Mode on 2015-2016 Challenger/Charger:** If your car does not have a physical “SPORT” button, and you used the Tazer to enable sport mode, you can press the traction (ESP) button and BACK buttons on the console at the same time, and this will turn SPORT on and off.

**Light Show from Keyfob:** Press Unlock-Unlock-lock-Unlock on the keyfob to start Light Show 1. Press Unlock again to advance to the next Light Show. Press Lock to turn it off. There are 9 light shows. Show will continue until tuned off (BACK + ON/OFF), or if the vehicle is driven. Light show settings, custom light show setup, and light show in motion can be unlocked using ZPU utility. Please see the Light Show Configuration Guide for more information on the Light Shows.

**Set Camera<sup>2</sup>:** While the video input can be selected using the EVIC screen as mentioned above, it can also be selected quickly by double-clicking the volume MUTE button to switch between backup camera, VES input, and Aux input. Note the factory backup camera turns itself off at a certain speed (8-20mph).

**Steering Wheel Shifting:** (SWS, 5 speed only) The cruise(+) button on the steering wheel can be used for upshifts, while the cruise(-) button will downshift. They will be active only when in AutoStick mode as long as SWS is enabled, and only if the cruise control system is turned off. Use the console shifter to enter AutoStick mode. You will not re-enter DRIVE mode when pressing cruise + and in gear 5, as you would using the console shifter. To re-enter drive mode, double click the cruise + button while in 4<sup>th</sup> gear, or use the console shifter. To disable SWS, press the page down and cruise (-) buttons at the same time. To enable SWS, press page up and cruise (+) at the same time. "SWS on" or "SWS off" will display in EVIC.

**AutoUpshift:** (5 speed 2012-2014 only) The Tazer will automatically upshift for you at a programmable RPM when in AutoStick mode. The Tazer is factory preset to request a shift for you at 6000RPM, but this can be set to any value by using the ZPU utility, although the TCM will cause a "limp home" mode if RPMs exceed 7000. Keep in mind that this is the RPM at which a shift will be requested; there is delay in the TCM and hydraulic circuits that cause the shift to actually take place later, as the RPMs continue to rise. This can be anywhere from 200-600RPM higher (depending on HP, valve body modifications, clutch wear, etc) so it's best to set the RPM shift point lower, and use the PeakRPM function to test your car's delay and adjust accordingly. You can also set Autoupshift RPMs using steering wheel buttons. With the car in Park and engine not running, hold the "BACK" button and push cruise +/- to adjust. EVIC display will show "Upshift xxxx" where xxxx is the new set RPM. Use ZPU if you would like to set the RPMs differently for each gear. Works in "sport mode" only.

**Reset Adaptives:** Reset TCM adaptives at any time by pressing "BACK" and Cruise on/off. "Adapt Reset" will show on the EVIC screen.

**Engine Fan Control :** With the ignition on but engine not running, press the right arrow and cruise cancel button at the same time to toggle the engine fans on and off. They will turn off automatically if the battery drops to 11.0V.

**Button Remap:** This function allows the assignment of "hotkeys" for quick access to some of the Tazer's functions. The ACC buttons (if equipped) or an "AUX" button bank (or Viper buttons for old style) may be used for this function, as can the SPORT button on 2016-17 Scat Packs. While the dash is in Audio mode, press and hold the left arrow (back button for old style) and press the button you'd like to remap. The choices are: Any of the 8 light shows, back/front/aux cameras/video, line lock, custom drive mode, ESP kill, Force RWD, Launch Mode. Keep in mind that not all functions pertain to all vehicles.

<sup>1</sup> Some settings require a sleep/wake cycle. The quickest way to do this is to turn the ignition off, open and close the driver's door, remove the key from the cabin. Wait about 60 seconds AFTER the dash goes dark, then re-enter. The new settings should have taken effect.

<sup>2</sup> For 2015+ only. These settings will not be available in the menu on a 2011-2014.

Symptom	Cause	Solution
No menu in EVIC	EVIC display has to be in state where it can display radio station name	Set EVIC so it's showing radio station name. It's the top line of the 2011-2014 small dash screen, or the "Audio" menu on 2015+ large screen
Airbag light is on	Configuration mismatch	Cannot set SRT mode on 2015/16 Charger 3.6 or 5.7 – Should be rectified in a future firmware release.
Line Lock won't hold the car	Didn't provide adequate brake pressure	Invoke Line Lock by pressing back/OK and tapping cruise +, and while continuing to hold back/ok, press the brake pedal FIRMLY twice and release.
Changed a setting and it didn't take effect	Needs a sleep/wake cycle	Turn the ignition off, open and close the driver's door, remove the key from the cabin. Wait about 60 seconds AFTER the dash goes dark, then re-enter. SRT setting on 2015/2016 may take 2 sleep cycles to complete.
Dash is staying on after the car should be sleeping	A setting was changed and the menu wasn't exited properly	Enter the setup menu, scroll to one of the settings (i.e. Sport5) then exit the menu by pressing left arrow and cruise RES. The security red dot will illuminate for a second to indicate the reset was sent.
No PRNDL display in EVIC	Changed Sport 8 Speed setting incorrectly.	Change the Sport 8 Speed setting back to its original state.

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