Z AUTOMOTIVE
Electronic Performance Modifications

BurnBox RAM
Line Lock/Light Show/Tire adjustments/Performance timers
For Firmware Version 8.0.0 – 080917

Installation

Installation is a matter of simply plugging the BurnBox RAM Module into the OBDII diagnostic port under the dashboard, above the parking brake. The module will shut itself off, 30 seconds after the car goes to sleep. So there's no need to unplug it – it'll always be ready to use.

Operation

Line Lock : The BurnBox RAM Module 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 and hold it, and press the CRUISE+ button. Continue to hold the CRUISE+ button, and you can release the BACK button. 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 CRUISE+ button is released.

Vehicle configuration changes: The BurnBox RAM module can be used to recalibrate the speedometer due to tire size changes, or gear ratio changes, and to turn off the TPMS tire pressure monitoring system (but not the amber tire lamp). To make any changes, first the BurnBox RAM needs to be "married" to your vehicle.

> **Marrying:** With the ignition on but the engine NOT running, set the dash to "Audio" mode, then press the BACK button and tap cruise CANCEL button. "Lightshow?" will display on the dash. Advance to the next item in the menu to by holding the BACK button and pressing CANCEL again. (Lightshows => Clear CELs => Marry) Once "Marry?" is showing, select it by holding BACK and pressing cruise ON/OFF. The same procedure, once married, will unmarry the BurnBox RAM and set the vehicle to its original values.
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> **TPMS:** Once married, you can change settings. Advance to the next item in the list, TPMS. If you select (BACK + Cruise ON/OFF), the TPMS system will change between PREMIUM, BASE, and OFF.

Tire Size: Advance to the next item in the list, Tire Size. You can raise/lower the tire circumference (in mm) by holding the BACK button and pressing cruise +/. To lock it in, press BACK + Cruise ON/OFF

Gear Ratio: Advance to the next item in the list, Gear Ratio. You can raise/lower the ratio (shows without the decimal, for example 3.21 displays as 321) by holding the BACK button and pressing cruise +/. To lock it in, press BACK + Cruise ON/OFF, Setting gear ratio has no effect on 8-speed vehicles.

Performance Timers: The BurnBox RAM module can be used to display 0-30 and 0-60 times.

With the engine running, set the dash to "Audio" mode, then press the BACK button and tap cruise CANCEL button. "Lightshow?" will display on the dash. Advance to the next item in the menu to by holding the BACK button and pressing CANCEL again. (Lightshows => 0-30 => 0-60 => firmware version) When the timer of choice is showing, the vehicle will reset the timer each time the vehicle stops. When the vehicle moves, it will start the timer and display the time when the target speed is reached.

Light Shows : The BurnBox RAM Module comes pre-configured with 6 light shows out of the box, plus 3 "make your own" light shows that you can configure with the ZPU utility. There are three ways to control the BurnBox RAM Module:

Keyfob: The light show can be turned on by pressing unlock-unlock-lock-unlock from the keyfob. This will 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.

Quick-on: The light show can be activated by moving the High Beam stalk to the forward (hi beam) position, and tap the CRUISE + button. This will start the first light show in the sequence (depending on which show it's configured to start with). Pressing CRUISE + again will advance to the next enabled show. Moving the High Beam stalk back to its normal position will end the show.

Dash Menu: You can start the show by setting the dash to "Audio" mode, then press the BACK button and tap cruise CANCEL button. "Lightshow?" will display on the

dash. Hold left arrow and tap cruise on/off button to turn on the first light show in the sequence. BACK+ cruise on/off to advance to the next show. Advance to the next item in the menu to turn off the show.

The BurnBox RAM Module will shut off if it's used for such a long time that the vehicle battery voltage drops below 11V.

Configuration

Configuration of the BurnBox RAM Module's light shows is accomplished by using the supplied USB cable connected to a PC, using the ZPU Programming Utility. The ZPU User Guide and light show configuration guides explain how to install ZPU, perform firmware updates, and configure the light shows.

Z Automotive cannot be held responsible misuse or consequential damages. If you are in doubt, email techsupport@zautotech.com. **Please be aware that modifying your vehicle in any way can affect your vehicle's warranty, longevity. Please use with caution, and AT YOUR OWN RISK.**