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TSBooster

Throttle Sensitivity Booster V3

1057931 - 1057942

Visit the product page at TSBooster.com to see full vehicle application list and the latest on CARB emission compliance testing.

Kit Contents

13011XX	
	1301101 in kit 1057931 1301102 in kit 1057932 1301104 in kit 1057934 1301107 in kit 1057937 1301108 in kit 1057938 1301109 in kit 1057939 1301110 in kit 1057940 1301111 in kit 1057941 1301112 in kit 1057942
TSBooster module	
Qty: 1	

1300133	1330054	1330053
		
Tie wrap	Double sided tape	Alcohol wipe
Qty: 1	Qty: 1	Qty: 1

What's New?

This is the third version of the Throttle Sensitivity Booster. For those familiar with the previous version this one includes all of the previous features and more.

The key improvements are that the switch and the module are now one unit so you get all the functionality without the added expense.

Installation is now easier since the module no longer needs to be opened up to complete the installation. The module now automatically learns the pedal it is plugged into and stores that in its memory.

Introduction

The TSBooster by BD Power is a device that puts you in control of your throttle pedal!

Many vehicles suffer from lackluster throttle response - the TSBooster can solve that by letting you choose from three different performance levels. Use the buttons on the module to select on the fly. This lets you quickly change modes in response to changes in road conditions. There is also a ludicrous feature best reserved for showing off to your friends because it is... well... ludicrous!

Maybe performance isn't your thing but instead you need a valet feature to be used when loaning out your vehicle? The TSBooster's Valet feature limits vehicle power to approximately half of its normal value, perfect for new drivers or your friend who likes to borrow your vehicle too often.

The TSBooster also incorporates brand new features including an Eco mode and a Security feature. Eco mode slightly reduces the accelerator pedal sensitivity to help you keep up your fuel economy. The security feature lets you completely lock out the throttle from working at all, making it nearly impossible to steal the vehicle.

CARB Emissions EO#

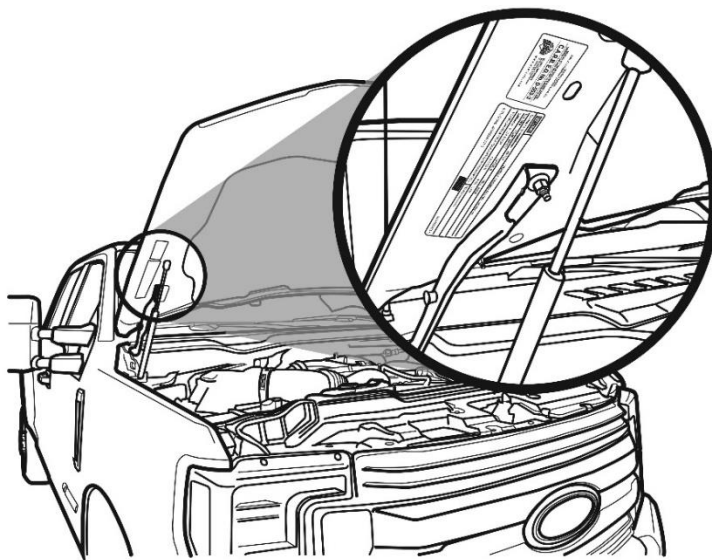
Check out tsb.bddiesel.com for the most up to date CARB compliance data.

Currently the BD TSB is 50 state legal for:

- Most 2005-2018 Ford diesel trucks (D-553-7)
- Most 2007-2021 Dodge / Jeep / Ram / Chrysler gasoline models (D-553-9)

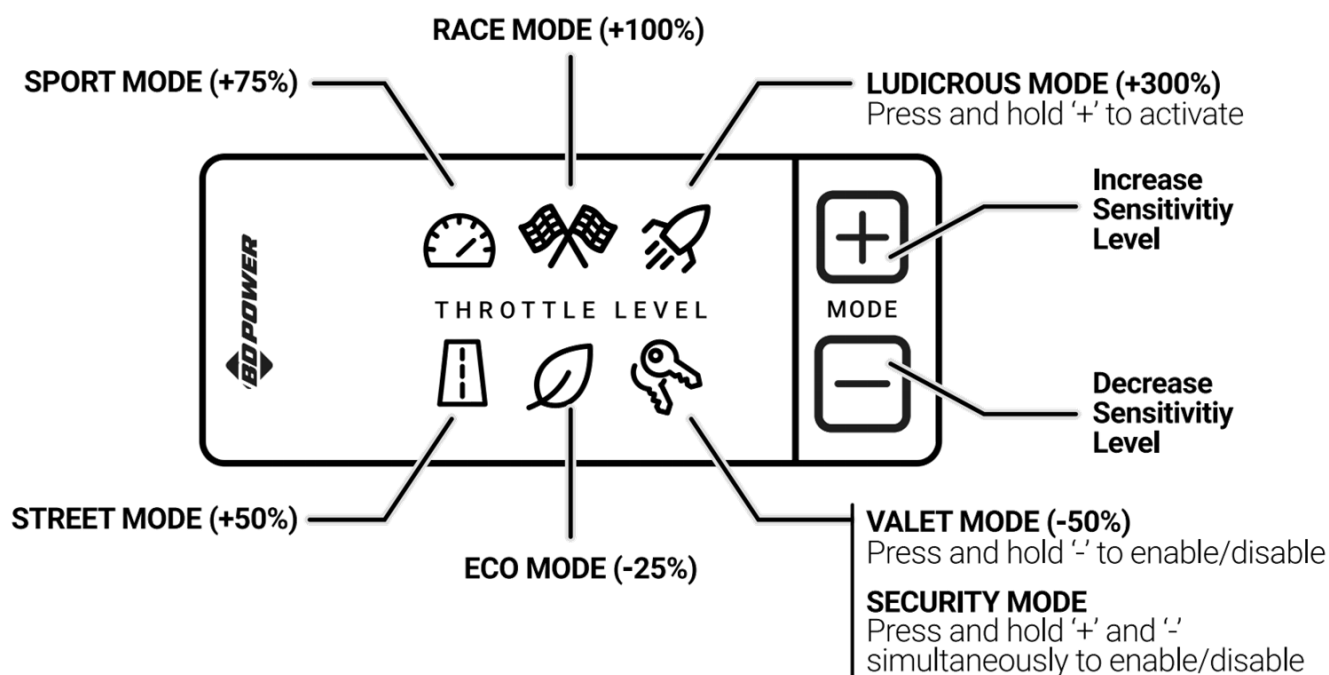
Check tsb.bddiesel.com for complete application list and EO documents.

Install the supplied CARB EO sticker under the hood next to the vehicles emissions sticker as shown in the graphic. **DO NOT** install this sticker in any vehicle application other than those listed above!



Operation

The TSBooster has 7 modes that can be accessed from the + and – buttons. The unit is OFF if no lights are lit. The unit is on if any of the indicators are lit. Security mode flashes the key symbol, Ludicrous mode flashes the rocket ship.



Installation



Wait for 5 minutes after turning off the ignition to be sure that the ECM has powered off so that no fault code is set from unplugging the accelerator pedal sensor.

Locate and unplug the electrical connector for the accelerator pedal position sensor. This should be located at the top of the accelerator pedal.

Note this is usually a 6-wire connector. In the photo you can see a 4-wire white connector for the adjustable pedal, and the black 6-wire which is the pedal position sensor that we want to use.



Plug the TSBooster in to the pedal and then into the factory wiring harness. Ensure both connectors click into place to confirm they have latched.



Determine where you want to mount the TSBooster module and route the wire so that it is away from moving objects (pedals, steering column) and will not interfere with driving. Use the supplied tie-wraps to hold it in place.



Use the supplied alcohol wipe to clean the surface where the TSBooster will mount. Apply the double-sided tape to the chosen mounting location (trim tape to length if needed).



Affix the TSBooster module in the desired location. Press firmly into the tape to achieve a good bond.
Note the adhesive in the tape will bond better with time (50% after 20 min, 90% after 24hrs)



Turn the ignition switch to the on/run position but don't start the engine.

For push button start vehicles, do not press the brake pedal while pressing the button, this will allow you to access RUN mode without starting the engine.



Sweep the throttle pedal up and down. The TSBooster will flash all of its lights showing that it is learning the pedal. Continue applying and releasing slowly until the flashing lights stop. Once the flashing stops it means all of the pedal range has been learned and stored.

If you do not do the above initial learn step it is okay, the module will just learn as you drive instead. This initial pedal sweep is just suggested as it ensures the learn is complete and the unit will function immediately.



Set the desired level on the controller using the + and – buttons. See the operation section of the manual above for information on the available modes.



Troubleshooting

All 6 LEDs flashing

The module is storing new pedal voltage data (learning). This is normal and once the module has seen the whole pedal input range it will no longer flash.

Single/Multiple LEDs flashing

The individual LEDs are programmed to flash to show fault information and can help diagnose where a problem lies.



APPS 1 circuit input low



APPS 2 circuit input low



APPS 1 circuit input high



APPS 2 circuit input high



APPS 3 circuit input high

(Flashing Keys is not used for error reporting. Ludicrous uses a double flash to differentiate it from a fault condition.)

Pressing + / - does nothing	Check the module is fully plugged into the vehicles wiring harness and that the ignition is turned on so the module is being powered.
Module stays powered on after key turned off	This is normal. The module is powered by the ECM so this just means the ECM has not powered down yet. It should turn off within about 10 minutes of turning off the vehicle. This will not drain your battery.
Fault codes set	<p>Check the electrical connectors for loose wires or connectors not plugged in fully. Was the pedal unplugged while the ECM was still powered? Try clearing the code and see if it returns.</p> <p>If the module is flashing an error, it indicates the voltage entering the module is out of range. This means the problem exists on the input to the module. If the module does not detect an error, it is possible a problem may still exist on the output wires from the module.</p>
The plug doesn't match my vehicle	Make sure you are trying to plug into the actual accelerator pedal sensor connector, not the power adjustable pedals connector. Verify you have the correct kit for your application at tsbooster.com
Late model RAM heated seats, AC, camera, other features disabled after install	<p>If you disconnected the vehicle batteries while installing on a 2019+ Dodge vehicle it is normal for some features to stop working until the vehicle has re-discovered all of the installed features.</p> <p>This generally takes about an hour after reconnecting the batteries and will resolve itself automatically.</p>