



BULLY DOG THRUSTER™

Electronic Throttle Enhancement Device



WWW.BULLYDOG.COM

SECTION 1:

BULLY DOG THRUSTER PARTS & CHECKLIST



- 1. THRUSTER CONTROL BOX
- 2. THRUSTER WIRING HARNESS
- 3. ON-THE-FLY CONTROL KNOB
- 4. CABLE TIES
- 5. VELCRO TABS
- 6. ADHESIVE PAD SET

SECTION 2:

PRE-INSTALL CHECKLIST

READ THROUGH THE INSTRUCTIONS

Please read the *complete* installation instructions before attempting to install this product.

ALLOW TIME FOR INITIAL SETUP

Make sure you allow up to 30 minutes to complete the initial setup and installation.

NEED FURTHER SUPPORT

For additional troubleshooting and support, see our Knowledge Base Online at bullydog.com/support.

Alterations made to the OEM configuration of a vehicle may violate the Clean Air Act if such alterations bypass, defeat, or render inoperative Elements of Design installed on a vehicle in compliance with the Clean Air Act. Users who alter Derive's products in any way are required to make their own individual determination that the altered products do not violate the Clean Air Act.

SECTION 3:

BULLY DOG THRUSTER INSTALLATION

STEP 1: CONNECT THE ASSEMBLY

Attach the black Bully Dog Thruster Control Box to the Wiring Harness; plug the device into the 26-pin connector firmly, until latched (in most cases the device has already been connected to the main harness at the factory prior to shipping).



STEP 2: DISCONNECT VEHICLE BATTERY

Disconnect the positive (+) terminal of the battery before installing this product.

IMPORTANT!

If you do not disconnect the battery the factory computer will not learn the correct starting pedal position

STEP 3: LOCATE PEDAL POSITION SENSOR:

In this next step you will locate the pedal position sensor assembly, usually located on the top side of the accelerator pedal assembly.



STEP 4: UNPLUG THE WIRING HARNESS FROM THE PEDAL POSITION SENSOR

NOTE

To separate most connectors from the sensor: slide back or release the locking tab on the harness connector or press the tab down on the connector and unplug from the pedal.



SECTION 3:

BULLY DOG THRUSTER INSTALLATION – CONTINUED

STEP 5: CONNECTING DEVICE/HARNESS

Plug the Bully Dog Thruster device in-line between the pedal position sensor and OE wiring harness by connecting the male and female Bully Dog Thruster connectors to the OE connector and sensor.



STEP 6: SECURE THE HARNESS

Secure the Bully Dog Thruster unit using the supplied cable ties. The device should not be hanging loosely or unsecured. Do not attach or mount to any moving assemblies such as the steering column or brake pedal assembly. Make sure that Bully Dog Thruster does not come into direct contact with extreme heat (+370°F) such as AC/Heater coolant lines.

STEP 7: OPTIONAL CONTROL KNOBS



The remote mounted control knob allows you to adjust the throttle pedal sensitivity on the fly, simply plug the control knob into the four-pin connector on the Bully Dog Thruster main wiring harness and mount the knob in a safe location where it is easily accessed by the driver for quick adjustment.

STANDARD ON-THE-FLY CONTROL KNOB

This knob provides the ultimate control over pedal sensitivity with a range of 0% (stock pedal) to 100% (maximum increase). The control knob is fully adjustable “On-The-Fly”.

You can also set the control knob to the desired setting, and unplug the knob while the vehicle is running, which will save the desired setting.



SECTION 4:

NOTES AND TROUBLESHOOTING:

CHECK ENGINE LIGHT AFTER INSTALL

If you experience a check engine light and have no pedal response after starting the vehicle immediately following installation:

– IF YOU HAVE A KEY:

Turn the key back to the off position, remove the ignition key, wait 60 seconds for the ECU to reset and then restart the vehicle. When you restart the vehicle, the check engine light will be gone and pedal response will be restored.

– IF YOU HAVE A KEY FOB:

FOB: make sure that the vehicle is off and that the dash lights are off for at least 60 seconds. When you restart the vehicle, the check engine light should be gone and the pedal response restored.

DIAGNOSTICS *(present only on legacy devices)*

There is a 12-volt input on the main harness that can be used for diagnostic testing. In the event there is an issue with the product itself, please contact our tech support team for instructions on how to use the 12-volt diagnostic test port prior to making any connections to this port.



LED DIAGNOSTIC LIGHT MEANINGS:

GREEN LED

Solid Green LED: Bully Dog Thruster is powered ON and working normally

BLUE LEDs:

Solid Blue LED: Knob is plugged in and set to 0-25%

Flashing slow Blue LED: Knob is plugged in and set to 25-60%

Flashing fast Blue LED: Knob is plugged in and set to 60-100%

GREEN, YELLOW & BLUE LEDs

Flashing green, yellow and blue LEDs
Thruster is not connected or has an error.

IMPORTANT!

Please adhere the correct EO decal under your hood.



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BULLY DOG THRUSTER™ – Part#49002

'06 - '11 Jeep Wrangler 3.8L

CARB EO# D-816-4X

(Sample EO Sticker, actual sticker will vary based on device purchased)

