

amp'd

THROTTLE BOOSTER

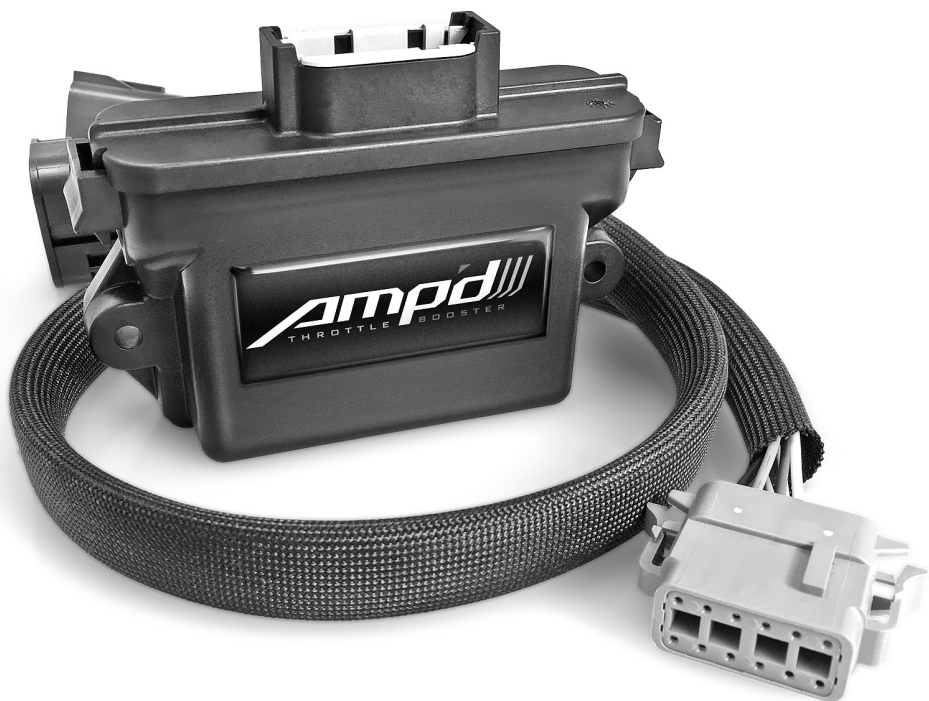


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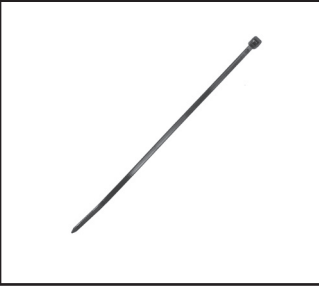
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Contents

AMP'd Module



Zip-Ties



Switch Kit



Harness

1998.5-2003_Dodge	2005-2006_Dodge	2007-2017_Dodge
2005-2010_Ford	2011-2017_Ford	2001-2005_GMC
2006-2007_GMC	2008-2016_GMC	04-2017_GMC/Chrysler

Safety Warnings

Throughout this User Manual you will see important messages regarding your safety or the protection of your vehicle. These messages are designated by the words WARNING, CAUTION, or NOTICE.

WARNING

A WARNING indicates a hazardous situation which, if not avoided, will result in death or serious injury.


CAUTION

A CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

A NOTICE indicates a condition that could cause damage to the product or your vehicle.

The product you have purchased is a high-performance product. As such, it does present some risks of which you should be fully aware. Do not use this product until you have carefully read the following safety information and the Owner Agreement.

 WARNING: *Prior to use, read the User Manual. Misuse of the device could result in traffic accidents, death or serious injury, and/or damage to your vehicle. POWERTEQ IS NOT RESPONSIBLE FOR AND SHALL HAVE NO LIABILITY TO YOU FOR ANY CLAIMS ARISING OUT OR RELATING TO ANY MISAPPLICATION OF THE DEVICE, CUSTOM TUNES, IMPROPER USE OF CALIBRATIONS, MALFUNCTION OR LACK OF LEGAL COMPLIANCE FOR CUSTOM PROGRAMS CREATED BY THIRD PARTIES.*



WARNING

Before using device, read and understand the user manual, including these additional safety instructions. Failure to do so could result in DEATH or SERIOUS INJURY.

- Do not exceed legal speed limits on public roadways. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
- Use any enhanced speed capabilities of this product only in closed circuit, legally sanctioned racing environments expressly for this purpose. Violating traffic laws is dangerous and could result in injury or vehicle damage or both.
- Do not operate the device while driving. Distracted driving could result in traffic accidents, death or serious injury, and/or damage to your vehicle.
- Always perform all adjustments or changes while stopped. Changing a setting while driving can interfere with your attention to roadway conditions and could result in injury or vehicle damage or both.
- Do not stack products. “Stacking” performance-enhancing devices or other improper installation can cause power train failure on the road. Other products may have features incompatible with your device. Follow all installation and operating instructions.
- Some modifications may affect other parts of your vehicle. For example, if you remove/adjust the speed limiter in your vehicle, be sure your tires and other components are rated for the increased speeds they will have to withstand. Not doing so can lead to loss of vehicle control. Modify the speed limiter only for use in closed circuit, legally sanctioned racing environments, not for use on public roadways.

NOTE: The stickers included in some products apply to products that have recieved CARB exemption for emissions compliance.

This product may meet the emissions compliance requirements of the California Air Resources Board and Federal Environment Protection Agency. If so, it is legal for sale and use on pollution-controlled vehicles operated on public streets and highways. The device must be installed and operated according to the instruction provided in this user manual. Included with these compliant products is a sticker for you to keep in your vehicle. You can either adhere it somewhere on the vehicle (e.g., the inside end of driver’s door) or simply store it in your glove box. The purpose of these stickers is to inform anyone who may have questions regarding the use of this product and how it affects emissions. For example, it would be something to show an emissions technician if questioned when taking your vehicle in for an emissions check to let him/her know the product is CARB emissions compliant.

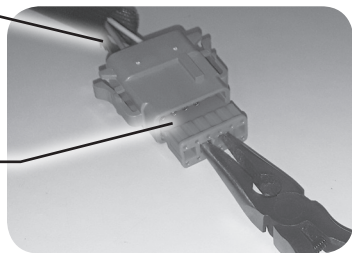
Installation

Tools Required

- Needle Nose Pliers
- Socket Set and Wrench
- Flat Head Screwdriver
- 3/32" Drill Bit & Drill

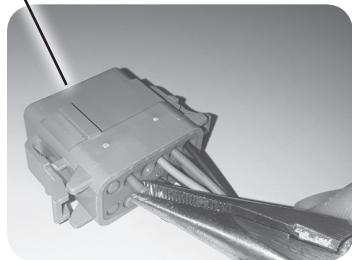
If your kit did not come with an external switch, skip Steps 1-7.

STEP 1 - Locate the Gray Connector shown. (This is the connector that plugs directly into the module.)



STEP 2 - Remove the orange lock wedge from the connector.

STEP 3 - Remove the small plastic plugs from the back of the connector.

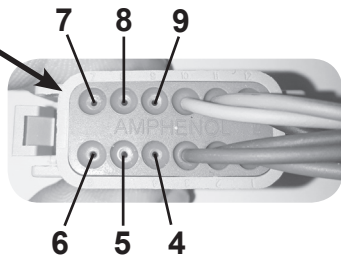


STEP 4 - Locate the switch harness.

DO NOT
Connect the
switch until
LEARN PEDAL
is complete.



STEP 5 - Insert the wires from the switch harness into the gray connector. Refer to the following diagram.



Harness Wire Color	Connector Location
White	4
Light Blue	5
Black	6
Pink	7
Yellow	8
Light Green	9

STEP 6 - Reinsert the orange wedge.

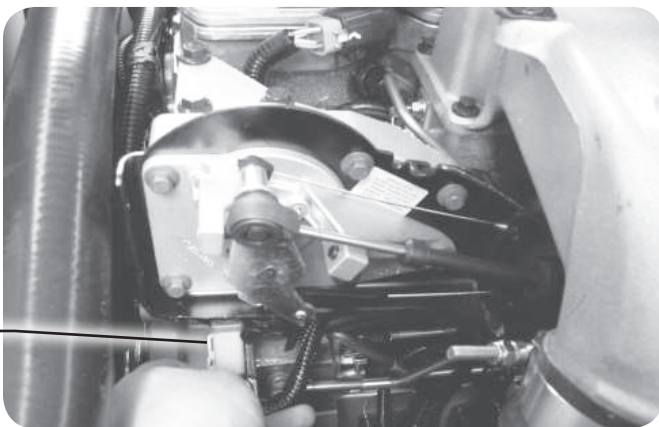
STEP 7 - Gently pull each wire to ensure that its terminal is fully seated.

STEP 8 - To avoid setting possible fault codes, disconnect the negative (-) side of the vehicle battery.

STEP 9 - Locate the vehicle accelerator pedal position sensor and disconnect.

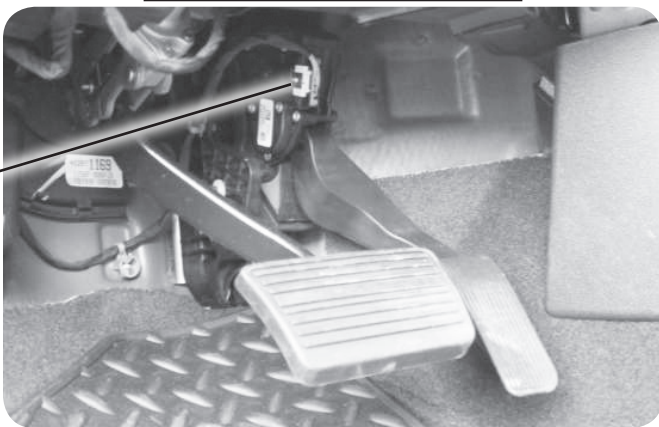
1998-2003 Dodge Truck Sensor Location

On these trucks, the sensor is located under a plastic cover, below the intake elbow, on the driver's side of the engine bay. The sensor connector faces downward.



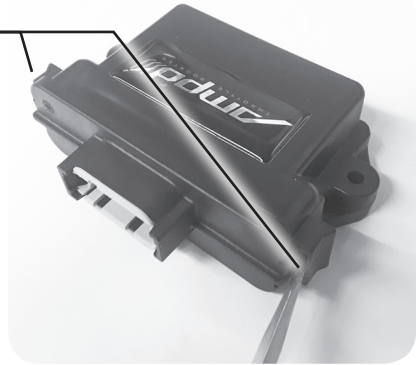
General Sensor Location

On all other vehicles, the sensor is built into the top of the accelerator pedal below the dashboard.

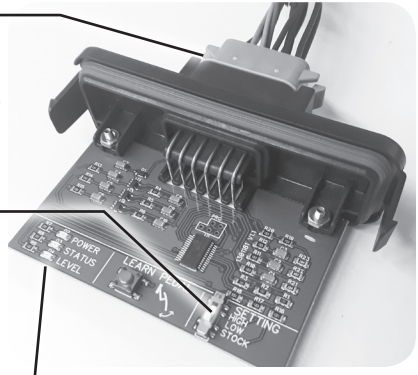


STEP 10 - Connect one end of the supplied harness to the sensor, and the other end to the factory harness. Secure the harness with the supplied zipties. Make sure none of the AMP'd components interfere with pedal operation.

STEP 11 - Open the module by inserting a screwdriver into the slots shown and depressing the tabs. The PCB will slide outward.



STEP 12 - Connect the circuit board to the AMP'd harness. Keep away from metal objects that might cause a short circuit.



STEP 13 - Switch the sensitivity setting to STOCK as shown.

STEP 14 - Reconnect the battery.

STEP 15 - Turn the ignition on. The STATUS indicator should be flashing and the LEVEL indicator should be off.

STEP 16 - Press and release the LEARN PEDAL switch. The STATUS and LEVEL indicator lights will both illuminate.



STEP 17 - Slowly depress and release the throttle pedal a few times within a 15 second window. (This will allow the module to learn your specific accelerator pedal sensor output. Make sure the pedal travel is not impeded by a floor mat or other objects.)

STEP 18 - When the STATUS indicator begins to flash, and the LEVEL indicator turns off, turn the ignition off.

STEP 19 - Slide the PCB back into the enclosure and push in until it snaps into place.

STEP 20 - Secure the enclosure below the dashboard, or in the engine bay (1998-2003 Dodge Trucks) using the supplied zip-ties.

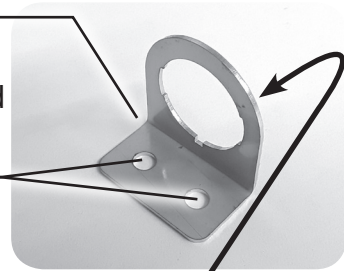


If your kit did not come with an external switch, skip Steps 21-27.

STEP 21 - Route the switch harness connection to the desired location in the vehicle.

STEP 22 - Locate the mounting bracket.

STEP 23 - Place the bracket in the desired location and use the holes to mark the drill locations. Use a 3/32" drill bit to drill the two pilot holes.



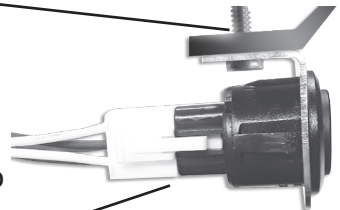
STEP 24 - Place the Throttle Sensitivity sticker around the hole on the front face of the bracket.



STEP 25 - Fasten the mounting bracket into place using the supplied self-tapping screws. Tighten until snug, but do not over tighten.

STEP 26 - Install the switch so that it sits flush with the bracket face.

STEP 27 - Connect the wire harness to the backside of the switch.



Operation

AMP'd Switch

The switch has three normal sensitivity levels: Low-Medium-High. These levels are activated by pressing the switch and are indicated by the 3 LEDs on the front.



STOCK → 0% Sensitivity Increase



LOW → +50% Sensitivity Increase



MEDIUM → +75% Sensitivity Increase



HIGH → +100% Sensitivity Increase

To activate Valet mode:



VALET MODE → -50% Sensitivity Increase. Press and hold the switch for 5 seconds. All three LEDs will light up. The module will limit power until valet mode is disabled. Turn Valet mode off by holding it for another 5 seconds.

To activate Extreme mode:

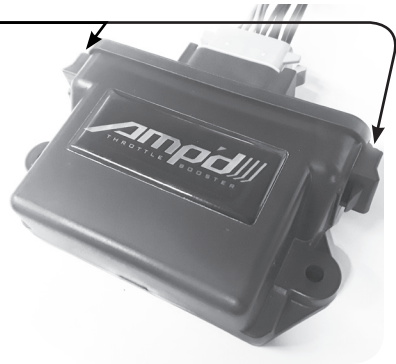


EXTREME MODE → +400% Sensitivity Increase. Press and hold the switch for 10 seconds. All three LEDs will flash. Turn this mode off by pressing the switch once. This mode will turn off by default on the next vehicle start for safety.

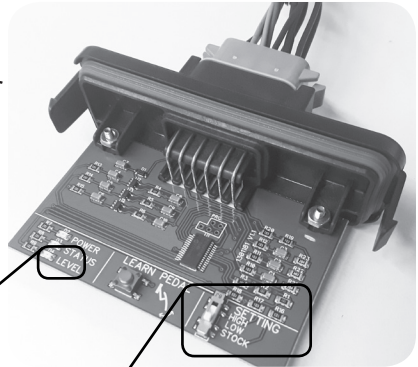
Internal Switch

If an external switch is not being used, only two sensitivity levels are available: Low & High. To manually switch between the levels follow these instructions:

STEP 1 - Open the module by inserting a screwdriver into the slots shown and depressing the tabs. The PCB will slide outward.



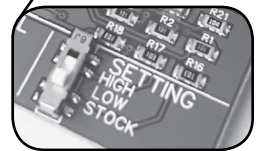
STEP 2 - Use the internal switch to set the sensitivity level. Once the switch is moved, the Level indicator LED will flash according to the setting selected.



STEP 3 - Slide the PCB back into the enclosure and push in until it snaps into place.



Level Indicator

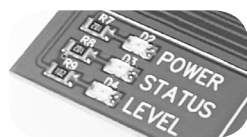


Internal Switch

Troubleshooting

Normal LED Function

POWER LED - Lit whenever the module is supplied with power (key-on).



STATUS LED - Flashes when it module is experiences power issues.

LEVEL LED - Flashes every five seconds indicating the sensitivity level. This can be used to diagnose a malfunctioning internal or external switch. The LED stays off when the current level is STOCK. Note that if the AMP'd switch is connected, it will override the internal module switch.

LEVEL LED Indicator - When Using the Internal Switch

Level	Description	Sensitivity %	# of Flashes
Off	Stock	0%	0
1	Low	+50%	1
3	High	+100%	2

LEVEL LED Indicator - When Using the AMP'd Switch

Level	Description	Sensitivity %	# of Flashes
Off	Stock	0%	0
1	Low	+50%	1
2	Medium	+75%	2
3	High	+100%	3
4	Extreme	+400%	4
5	Valet Mode	-50%	5

AMP'd Module

Issue		Solution
Vehicle sets codes for multiple APPS circuits	1	Check that the module is powered by removing the cover and checking the POWER LED. It should be lit whenever the ignition is on (and may remain powered after the ignition has been turned off for a short time on late model trucks). The STATUS LED should flash indicating that the accelerator pedal sensor has detected the module.
	2	If the Throttle Sensitivity Booster is used before the LEARN PEDAL sequence has been performed, a code may be triggered. If in doubt, follow the LEARN PEDAL process.
	3	Ensure the connectors are fully seated.
Sensitivity Setting has no Effect	1	If the module detects a failure in the APPS pedal it will not boost the sensitivity for safety. Check for an APPS fault code.
	2	Verify that the SETTING switch on the circuit board is set to LOW or HIGH for sensitivity boosting.
	3	If the module has not been properly learned for the pedal it will not boost sensitivity. Refer to installation step 7 for instruction on learning the module to your APPS pedal.

AMP'd Switch

Issue	Solution
AMP'd Switch LEDs illuminate in the wrong order.	The AMP'd switch has been wired incorrectly. Refer to the wiring chart in the previous section.
AMP'd Switch not working/not detected	Black or Pink wire from the switch are incorrectly installed.