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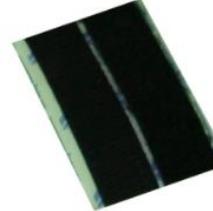
ELECTRONIC POSITIVE AIR SHUTOFF

1036750	2007-2009 Dodge 6.7L
1036751	2010-2018 RAM 6.7L
1036753	2019-2024 RAM 6.7L
1036754	2008-2010 Ford 6.4L
1036755	2011-2019 Ford 6.7L
1036756	2018-2021 Ford 3.0L
1036757	2020-2025 Ford 6.7L
1036758	2008-2010 GMC 6.6L (LMM/LGH)
1036759	2011-2016 GMC 6.6L* (LML)
1036760	2016-2021 GMC 2.8L (LWN)
1036762	2019-2025 GM 3.0L (LM2/LZ0)
1036763	2014-2023 Dodge 3.0L
1036764	2017-2023 GMC 6.6L (L5P)
1036765	2024+ GMC 6.6L (L5P)
1036766	2025+ RAM 6.7L

*2011-2015 Savana/Express vans use 1036758

Kit Contents

Please check to make sure that you have all the parts listed in this kit **before** you start the disassembly of your truck.

1306731	1306733		
			
<i>Electronic Module for kits: 1036750, 1036751, 1036753 - 1036760, 1036762, 1036764 - 1036766</i>	<i>Electronic Module for kit 1036763</i>		
Qty: 1	Qty: 1		
1302380	1302379		
			
<i>Switch Harness Included in kits: 1036750, 1036751, 1036753 - 1036760, 1036763 - 1046766</i>	<i>Switch Harness Included in kits: 1036762</i>		
Qty: 1	Qty: 1		
1302251	1306790	1302250-RG	2000108
			
<i>Switch Decal</i>	<i>Switch Guard Decal</i>	<i>Switch Guard</i>	<i>Switch Bracket</i>
Qty: 1	Qty: 1	Qty: 1	Qty: 1
1330052	1300131	FT-10910-03116	1006701
			
<i>Bracket Screws</i>	<i>Cable Tie</i>	<i>Velcro strips (4")</i>	<i>Window Decal</i>
Qty: 2	Qty: 12	Qty: 2 pcs	Qty: 1

1036750 1302381	1036751 1302382	1036753 1302384
		
<i>Dodge 2007-09 6.7L Harness</i>	<i>Dodge 2010-18 6.7L Harness</i>	<i>Dodge 2019-24 6.7L Harness</i>
Qty: 1	Qty: 1	Qty: 1
1036754 1302388	1036755 1302389	1036756 1302391
		
<i>Ford 2008-10 6.4L Harness</i>	<i>Ford 2011-19 6.7L Harness</i>	<i>Ford 2018-21 3.0L Harness</i>
Qty: 1	Qty: 1	Qty: 1
1036757 1302392	1036758 1302385	1036759 1302386
		
<i>Ford 2020-25 6.7L Harness</i>	<i>GM 2008-10 6.6L Harness</i>	<i>GM 2011-16 6.6L Harness</i>
Qty: 1	Qty: 1	Qty: 1

1036760 1302387	1036762 1302393	1036763 1302399
		
<i>GM 2016-22 2.8L Harness</i>	<i>GM 2019-25 3.0L Harness</i>	<i>Dodge 2014-23 3.0L Harness</i>
Qty: 1	Qty: 1	Qty: 1

1036764 1302394	1036765 1302377	1036766 1302376
		
<i>GM 2017-23 6.6L Harness</i>	<i>GM 2024+ 6.6L Harness</i>	<i>RAM 2025+ 6.7L Harness</i>
Qty: 1	Qty: 1	Qty: 1

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Introduction

Most late model diesel engines incorporate an electronic throttle body into the intake manifold to partially restrict intake air to aid in EGR function and meet ever increasing emission standards. When controlled correctly, this valve can completely shut off the outside air supply to stop the engine. The BD Electronic Positive Air Shutdown kit connects to this valve to shut the engine down in emergency situations.

The BD Electronic PAS will automatically shut off the engine if it exceeds a preset engine RPM or if toggled manually with the supplied switch. The BD module also has an automatic reset feature which will reopen the valve once the engine has stopped. No longer does the operator need to open the hood to reset the valve after a system test.

The BD Electronic PAS is easier to install than previous PAS products as it is completely plug and play with existing parts on the vehicle.

Before you start

Ensure the intake valve on the vehicle will connect to the harness supplied with your kit, the connector may be different based on the year of manufacture of the vehicle and care must be taken to ensure the correct kit is ordered.

NOTE: If the vehicle has been re-tuned to no longer utilize the intake air valve and it is currently disconnected, connect the BD harness only to the intake valve and leave the OE connector disconnected.



An Information decal has been provided in this kit. This may allow safety personal and inspector's to quickly identify that your vehicle is equipped with a BD Positive Air Shut Down unit. Install this decal in a visible location on the inside glass of the vehicle.



VEHICLE SHOULD BE SAFELY SECURED BEFORE INSTALLATION.

Required tools

- Drill
- 1/8" Drill Bit
- 1/2" Unibit
- Battery Terminal Wrench

Installation 2007+ Dodge 6.7

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Intake horn, pointing downwards on the driver side of the engine. The electrical connector is on the bottom of the valve. 2007-2009 have a 4-pin gray connector; 2010-2024 have a 5-pin black connector; 2025+ have a 6-pin black connector.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

Driver side of engine just behind crankshaft drive belt pulley.

NOTE: Do not mistake for the camshaft position sensor located above



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.
4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.
5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.

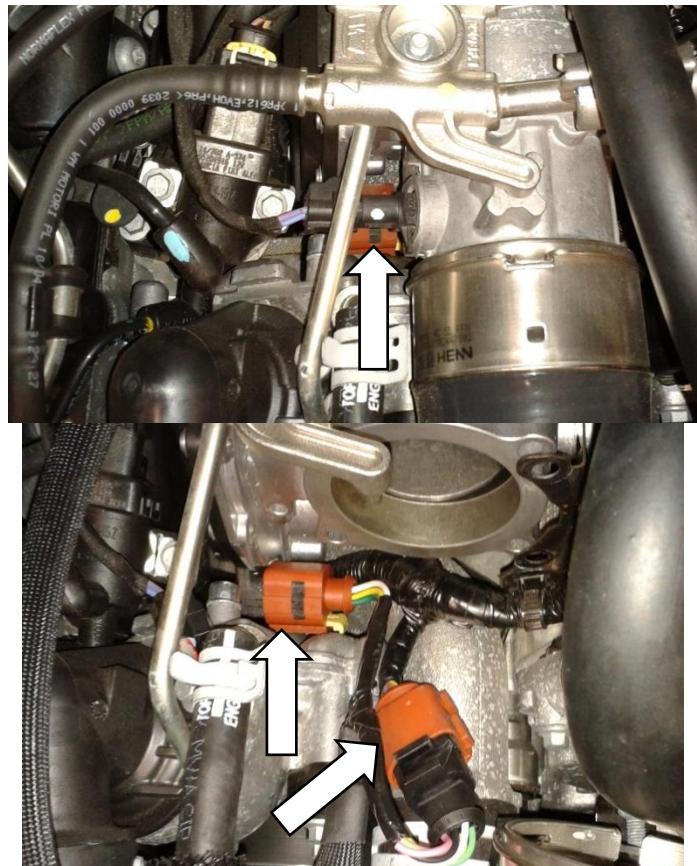


See Page 26 for Switch Installation

Installation 2014 – 2023 Dodge 3.0L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Center top of engine on lower side of intake valve. Remove plastic engine cover, remove the charge air hose (spring clip), remove charge air hose adapter (4 x 8mm bolts) and move out of the way. The connector is orange colored.



2. Locate engine camshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the camshaft position sensor and to the vehicles original wiring.

Front of engine, mounted on the camshaft closest to the driver's side fender.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.

5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Installation 2008 – 2016 GMC 6.6L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

2008-2010 (LMM)

Passenger side of engine, between the air box and the alternator. The electrical connector is on the bottom of the valve.

NOTE: Removing the air intake tube between the air box and engine makes for easier access to the valve's electrical connector.



2011-2016 (LML)

Passenger top side of engine. The electrical connector faces the front of the vehicle.

NOTE: The red connector lock tab must be engaged or connector may come apart from the BD harness.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

Passenger side of engine beside crankshaft drive belt pulley.

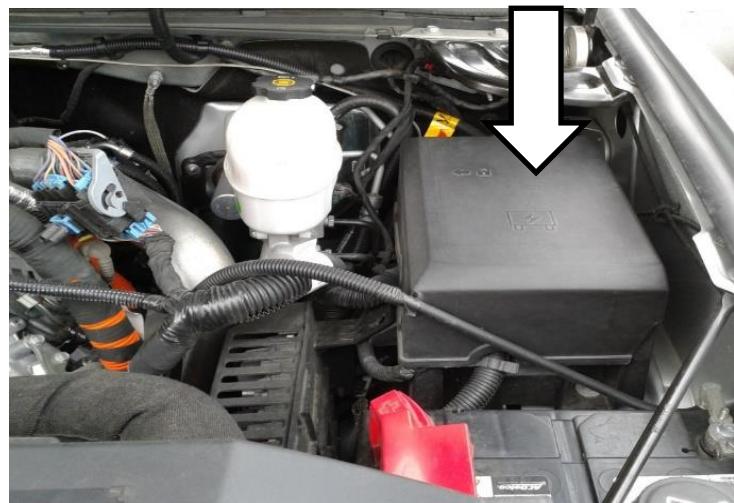
NOTE: Do not mistake for the camshaft position sensor located beside the water pump pulley



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.

5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Installation 2016 – 2022 GMC 2.8L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Top of engine, driver's side. Removing the plastic engine cover will grant better access. Electrical connector location indicated by arrow.

NOTE: Ensure the OE harness lock tab is engaged or the connector may come apart from the BD harness



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicle's original wiring.

Lower driver side of engine, the electrical connector is mounted at the side of the oil pan.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.



5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.

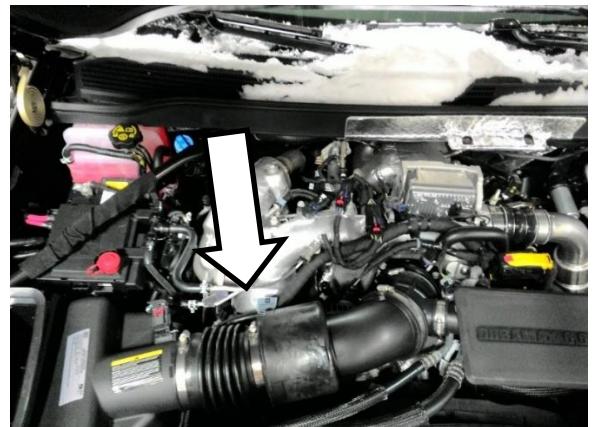
See Page 26 for Switch Installation

Installation 2017+ GMC 6.6L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Passenger side below the intake air tube. Remove the intake tube by loosening the two hose clamps. The electrical connector is then easily accessible.

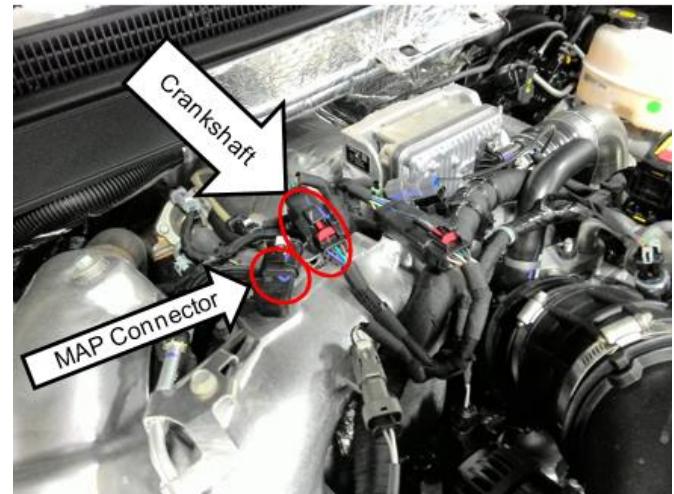
NOTE: Ensure the gray lock tab is engaged on this connection or the connector may come apart from the BD harness.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

2017-2023

The crankshaft position sensor is not accessible on this engine as it is behind the starter motor. Instead, the BD harness plugs in to an inline harness connector at the top of the motor. This is the **8-pin** connector.

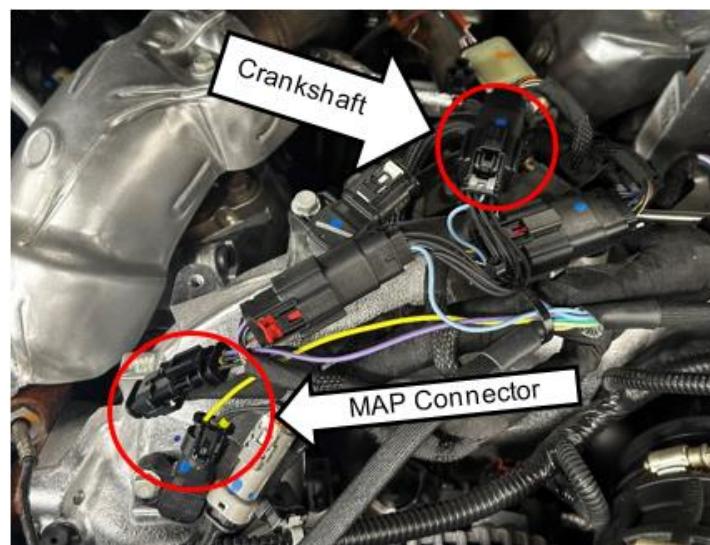


This model also requires the MAP sensor to be connected. This is the **4-pin** connector to the left of the crankshaft connector.

2024+

The crankshaft position sensor is not accessible on this engine as it is behind the starter motor. Instead, the BD harness plugs in to an inline harness connector at the top of the motor. This is the **8-pin** connector.

This model also requires the MAP sensor to be connected. This is the **3-pin** connector to the left of the crankshaft connector.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard.

Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.

5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Installation 2019 – 2025 GM 3.0

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

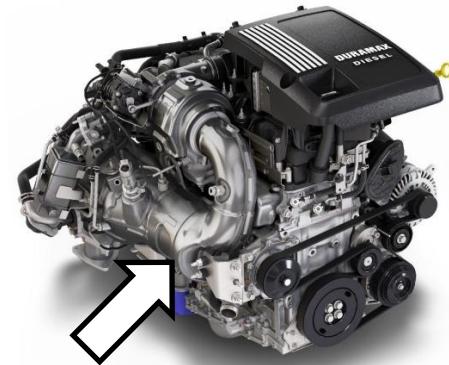
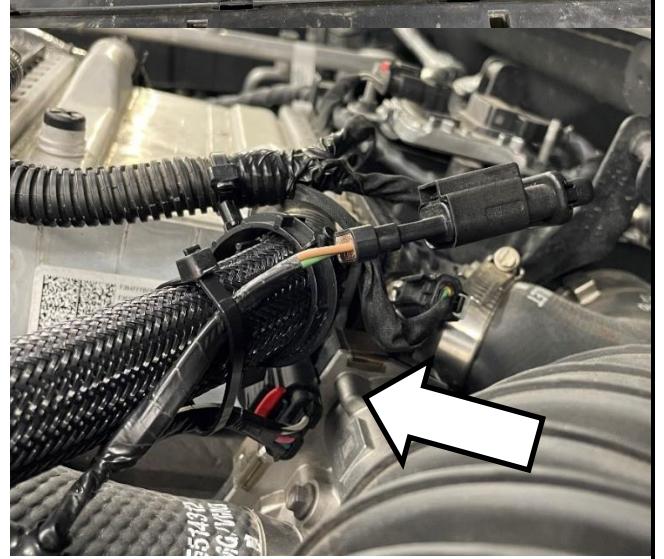
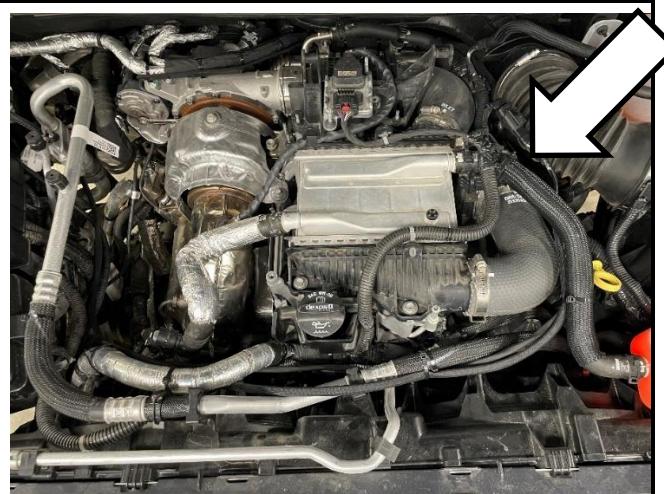
Front top of the engine. Removing the plastic engine cover helps access the intake air valve.

NOTE: The red connector lock tab must be engaged or connector may come apart from the BD harness.

NOTE: 2019+ GM 3.0L Duramax should not set off any code when the E-PAS shuts off the engine while idling. At higher RPMs if the E-PAS button is pressed then a P122D code is set by the vehicle. Code should be cleared after a shutdown event but is not harmful.

2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

The crankshaft position sensor is located at the back of the engine on the passenger side.



Remove the passenger side wheel, fender liner, and skid plates to get closer to the sensor.

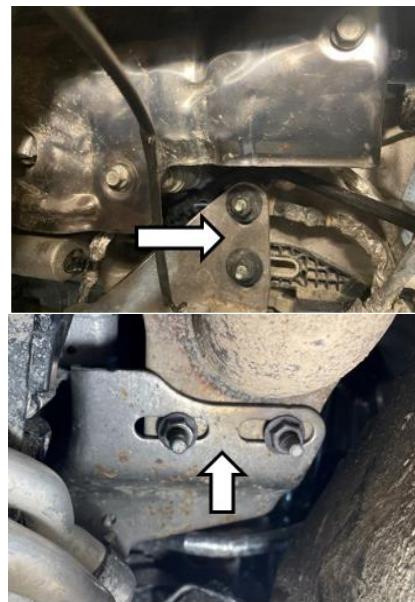


The sensor is behind a heat shield near the exhaust that can be unscrewed and moved out of the way as shown:



If the shield can't be accessed from the side then a bracket can be removed to gain access from below. The following four nuts need to be undone to remove the bracket

NOTE: Make sure the battery is not connected since the shield can short the starter motor located above the sensor.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.
4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.
5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Installation 2008 – 2010 Ford 6.4L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Front top of engine, behind the radiator fan shroud. The electrical connector is located on the back side of the valve.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

Passenger side of engine, bottom front. To gain better access, remove the bolt securing the passenger side of the upper steering stabilizer shock absorber and swing out of the way. A long-handled screw driver or similar tool can help push the connector off once released.

NOTE: Do not mistake for the camshaft position sensor on the opposite side of the block).



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation
5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



Tucked near the firewall

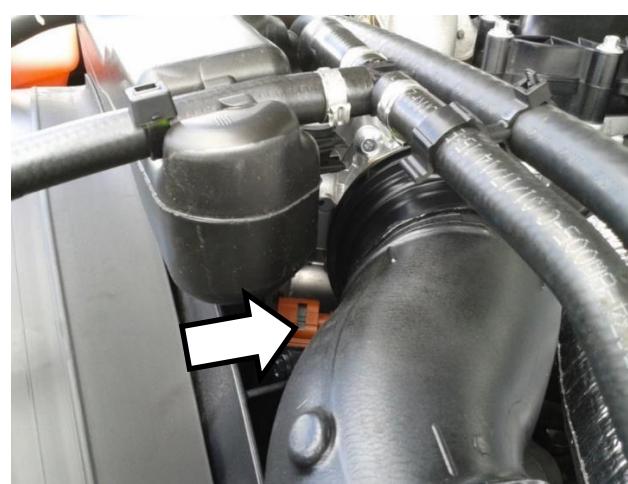
See Page 26 for Switch Installation

Installation 2011 – 2025 Ford 6.7L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Front top of engine, behind the radiator fan shroud. The light brown electrical connector is located on the bottom front side of the valve.

NOTE: Removing the plastic charge air tube from the valve makes for easier access to the valve's electrical connector.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

Driver side of engine block in transmission to engine adapter flange. Remove rubber plug from access hole to reach the electrical connector behind it.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery. Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.

5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Installation 2018 – 2021 Ford 3.0L

1. Locate the intake air valve on the motor and connect the supplied BD E-PAS wiring harness inline by connecting the BD harness directly to the valve and to the vehicle's original electrical connector.

Front top of engine below the air intake pipe.

NOTE: The red connector lock tab must be engaged or connector may come apart from the BD harness.



2. Locate engine crankshaft position sensor on the motor. Connect the supplied BD E-PAS wiring harness inline so that the BD harness connects to the crankshaft position sensor and to the vehicles original wiring.

Driver side rear of engine, clipped to the dipstick tube.



Use care when routing the BD wiring harness to keep it away from the exhaust manifold.

It is necessary to remove the rear belly pan to access the crankshaft position sensor. This is removed with four 8mm and one 11mm fastener.



3. Remove the toggle switch from the supplied switch harness. Route the end of the switch wiring harness from within the engine bay, through the driver's side of the firewall to below the dashboard. Suggested pass through location is through a slit in the existing grommet for the engine to instrument panel wiring harness, otherwise a new hole may be drilled and a new grommet installed if necessary.

4. Route the battery connection ring terminals to the driver side battery (2019 F150 use passenger side). Connect BLACK wire ring terminal to the driver side battery negative or to body ground if desired. Leave the RED positive wire disconnected until end of installation.

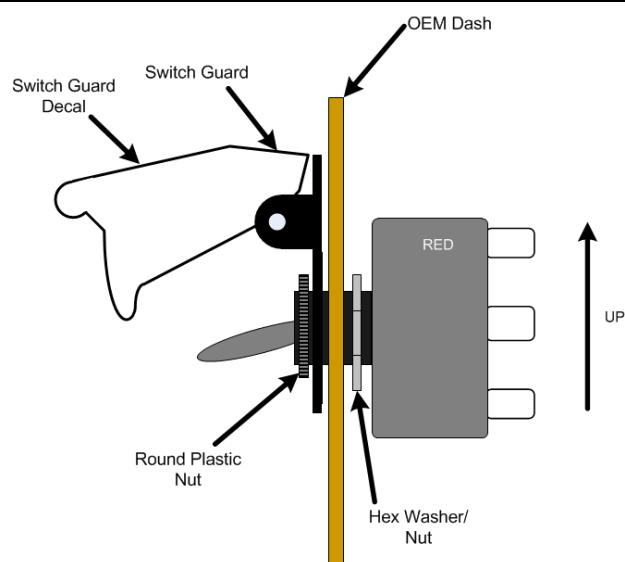
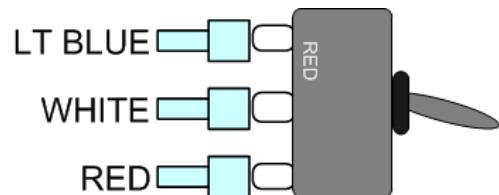
5. Locate suitable location for BD E-PAS module so that it will reach both wiring harnesses. Attach it with supplied adhesive hook and loop tape or wire ties. Suggested mounting location is on top of the plastic fuse box cover on the driver side of the engine bay. If using hook and loop tape, thoroughly clean the mounting surface for good adhesion.



See Page 26 for Switch Installation

Switch Installation

6. Carefully secure all wiring within the engine bay with supplied wire ties to that it is away from moving parts, chafe hazards and heat sources. Use extra care with the crankshaft position sensor wiring due to the close proximity to belts, fans and road debris and potential consequences of a short or break in this wire.
7. Inside the cab, reconnect the toggle switch to the switch wiring harness in the same way they were removed. See diagram for reference. Double check the connections here as wiring the toggle switch incorrectly may damage the module.
8. Locate suitable spot to mount switch on the dashboard within reach of the driver and in a highly visible location. Ensure there is sufficient space behind the dash to mount the switch. Drill a 1/8" pilot hole, then using a stepper bit (unibit) drill a 1/2" hole in the dashboard. Install switch with the groove in the thread boss facing down. Install with either the supplied switch decal or with the supplied switch guard and apply decal to the switch guard. Secure wire below the dashboard using supplied wire ties. A switch bracket has been supplied as an alternative for mounting the switch if desired.
9. Connect RED positive feed wire to the battery or the positive stud at the fuse block.
10. Test and verify system functionality. **Note:** Ford 6.7L read important note in Testing



Switch decal



Switch Guard with decal applied.



Testing

Manual Activation Test: With the engine running at idle, momentarily toggle the E-PAS switch on the dashboard. The engine should stop within a few seconds. Wait at least 10 seconds before restart.

Automatic Activation Test: With engine not running, remove the cover from the module to access the circuit board. Keep away from metal objects that may cause a short circuit. Set the bottom switch to “1500 RPM TEST” mode. This will cause the module to shut the engine down if it exceeds 1500 RPM. Start the vehicle and slowly accelerate the engine, verify that it shuts down over 1500 RPM. Wait at least 10 seconds before restart.



NOTE: The BD E-PAS module is connected to constant battery power unless the harness fuse is removed. Use care when opening module to avoid short circuiting it against metal objects in engine bay.

IMPORTANT: The 2011-2019 Ford 6.7L trucks will set code P0069 if the E-PAS is used to shut the truck off twice in a row. This is due to the factory programming and is not a problem specific to the BD E-PAS. After the truck has run & been shut off normally twice in a row, this code will clear. If the engine light comes on; the code will need to be cleared with a scan tool. This does **not** apply to 2020+ trucks.

Set the operation mode switch on the circuit board back to AUTOMATIC and Set the automatic RPM shutdown speed on the module according to the engine it is installed with. This must be above the normal engine redline to avoid accidentally setting it off during driving. Reinstall module cover and re-secure module.



Make/Engine	RPM
Dodge 6.7L	4200 RPM
GM 6.6L, Ford 6.7L	4600 RPM
Ford 3.0L, 6.4L Dodge 3.0L GM 2.8L, GM 3.0L	5000 RPM

Electronic PAS system operation

The BD Electronic PAS module constantly keeps track of engine speed and will automatically stop the engine if it exceeds the preset maximum RPM. The air valve can be shut at any time even if the engine is not running by toggling the switch on the dash manually.

When the engine is off, the BD E-PAS module will go into a low power consumption state and the toggle switch on the dash will not be lit. Once the engine is started, the module will automatically begin monitoring engine RPM and the toggle switch on the dash will light up to show the system is ready.

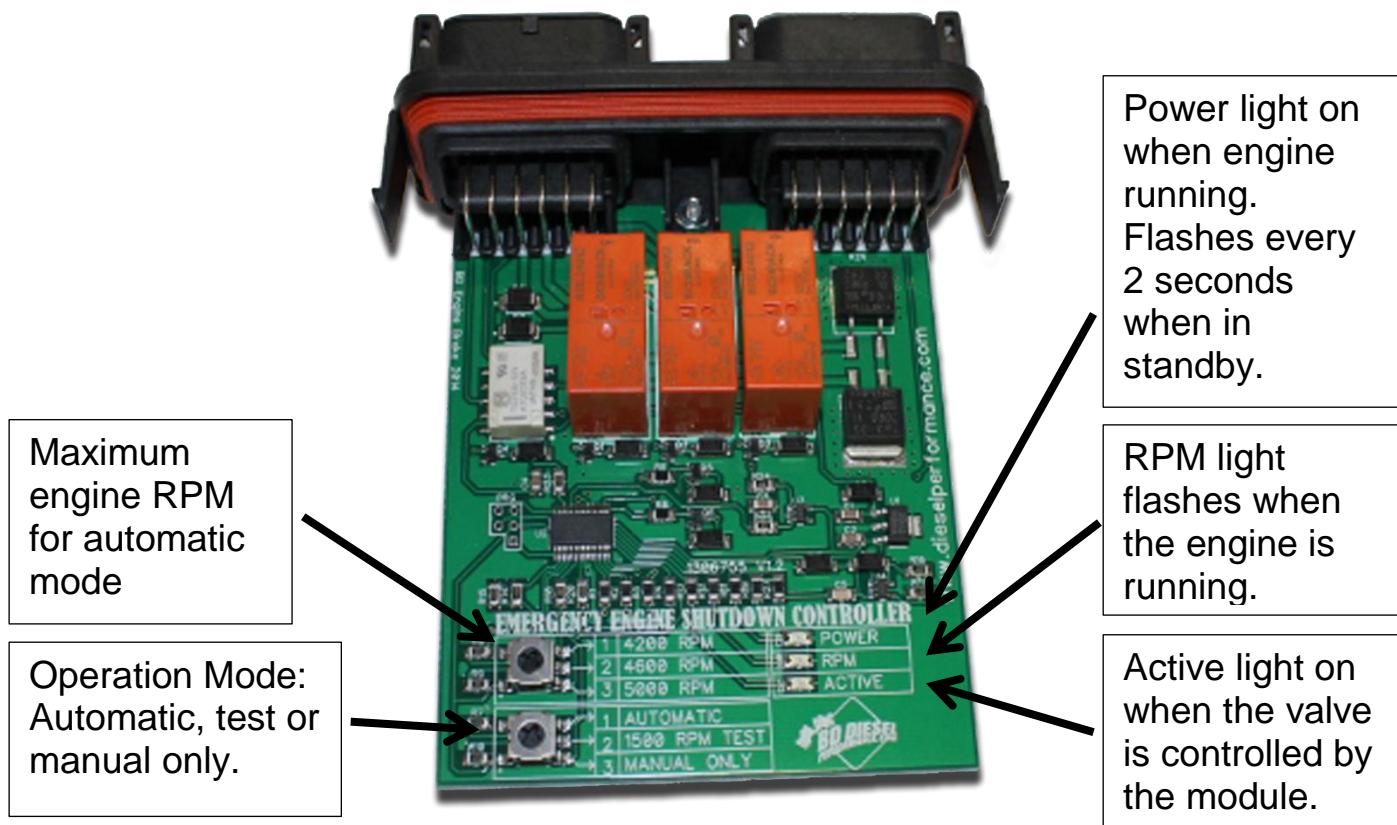
If the system is triggered automatically or manually by the switch, the intake air valve will close and remain closed until the engine RPM has dropped to zero and for an additional 5 seconds afterward. During this time the toggle switch will flash to indicate a closed valve position. *DO NOT ATTEMPT TO RESTART ENGINE WHILE VALVE IS CLOSED.* The valve will automatically reset itself to the open position and the toggle switch light will turn off once shutdown process is complete.

Ford 6.7 – Read important note in Testing

Troubleshooting

Valve does not close by manual toggle switch activation	<p>No power to module. Check fuse at battery. If fuse is blown, inspect harnesses for short circuits or other problems. Remove cover from module and check that the POWER lamp is flashing every two seconds with engine off indicating it is powered and in standby.</p> <p>Incorrect switch wiring. Carefully check the toggle switch wire connection is correct, incorrect connection may damage the module.</p> <p>Intake air valve connectors not fully seated. An audible click should be heard when the connector is fully mated together. Tug on connector to ensure it does not come apart.</p>
Valve closes by manual toggle, not automatically	<p>Incorrect module mode setting. If conducting low speed system test, verify that the lower switch on the module circuit board is set to the middle position, "1500 RPM TEST". For normal automatic operation, the switch should be fully counter clockwise, "AUTOMATIC" and RPM selector switch is set to the correct speed.</p> <p>Harness connected to camshaft position sensor rather than crankshaft position sensor. Verify against pictures in installation section of this manual.</p> <p>No RPM signal to module. Open module cover and start engine. Verify that RPM light is flashing when engine is running and POWER light is on solid. If it is not on or is intermittent, carefully check blue wire from the module's black connector (pin 7) to the crankshaft position sensor is not severed.</p>

Engine light on / fault codes set	<p>Code set during installation: If the ignition was on or the ECM hadn't powered down, disconnecting the air valve may trigger fault codes. Clear codes and recheck.</p> <p>Intake air valve connectors not fully seated. An audible click should be heard when the connector is fully mated together. Tug on connector to ensure it does not come apart.</p> <p>Black connector disconnected: If the BD E-PAS module is unused, keep the black connector plugged into the module or restore the valve to the stock configuration.</p> <p>2011-2019 Ford 6.7 read note in step 10.</p> <p>2017+ GM 6.6L L5P will set a P0106 code if the MAP sensor is not connected. Ensure all connections are secure and connector locks are engaged. Verify that the correct harness is being used, as 2024+ models have a relocated MAP sensor with a different connector. The original 2017–2023 MAP location still exists on 2024+ models but now houses an IAT sensor, which may be mistaken for the MAP sensor.</p> <p>2019+ GM 3.0L: Code P122D sets if the engine is shut off at higher RPMs but not at idle. It occurs when the intake airflow valve exceeds its learned limit, causing no harm. Clear the code as needed.</p>
Engine does not start	<p>Connectors not mated. Inspect crankshaft position sensor connector is correctly installed; an audible click should be heard when connected. Tug on connectors to verify they are correctly mated.</p> <p>Shorted crankshaft position sensor wire. Inspect the blue wire from the module's black connector (pin 7) to the crankshaft position sensor; if this wire is chaffed or broken it may short out the crankshaft position sensor signal.</p> <p>Intake air valve jammed shut or defective. Toggle the system manually while listening for valve movement. If suspect, remove the intake air tube from the valve and visually verify the intake air flap is not closed.</p>

Circuit Board Switch And LED Functions

If you have any technical difficulties please phone our Technical Support hotline at (800) 887-5030 between 8:30am-5:00pm PST (Pacific Standard Time) Monday to Friday

Wiring diagram

