

# 97764 DERRINGER HIGH OUTPUT FOR 2020-2025 GM L5P WITH DUAL ALTERNATORS

Banks Derringer® Diesel Tuner  
Install guide for vehicles with  
dual alternators.

2020-2022 (67106 | 67126)

2023 (67107 | 67127)

2024-25 (67108 | 67128)



iDash Pro / iDash Data Pro  
required for install.



Please read through the following  
instructions thoroughly before

# General Installation Practices

## Installation Practices

## Disclaimers

### Disclaimers

## Disconnect Battery

**STOP:** The new Derringer High Output only works with an iDash Pro running firmware version 1.06 or newer. The first time you connect the iDash Pro to your Bank's mobile app, you'll be prompted to update to the latest firmware, wirelessly, if an update is available.

If you have an existing iDash SuperGauge or iDash DataMonster, you can use it as a secondary expansion gauge.



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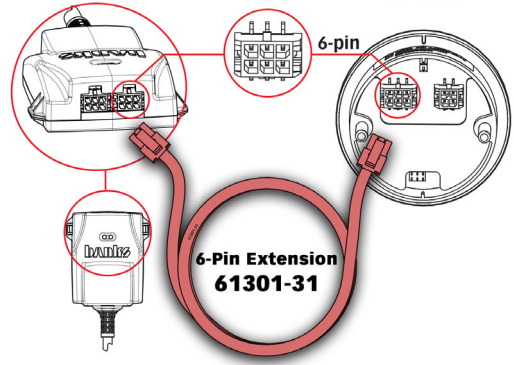
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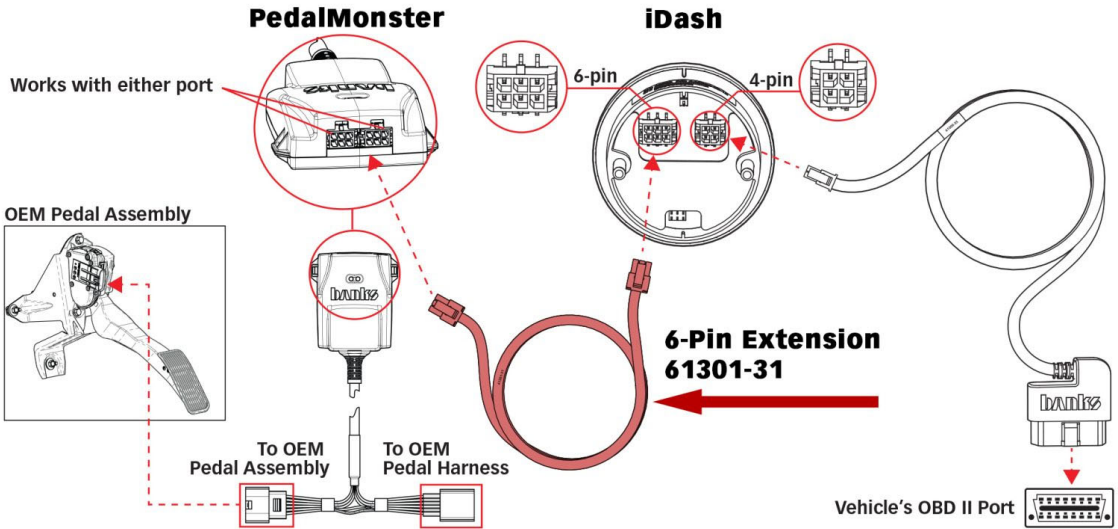
**PedalMonster**

**iDash**



If you already have a PedalMonster and do not currently have an iDash, you will need a Banks 6-pin PedalMonster extension cable to connect your existing PedalMonster to your new iDash.

This is mentioned again in Section 4 Step 9.



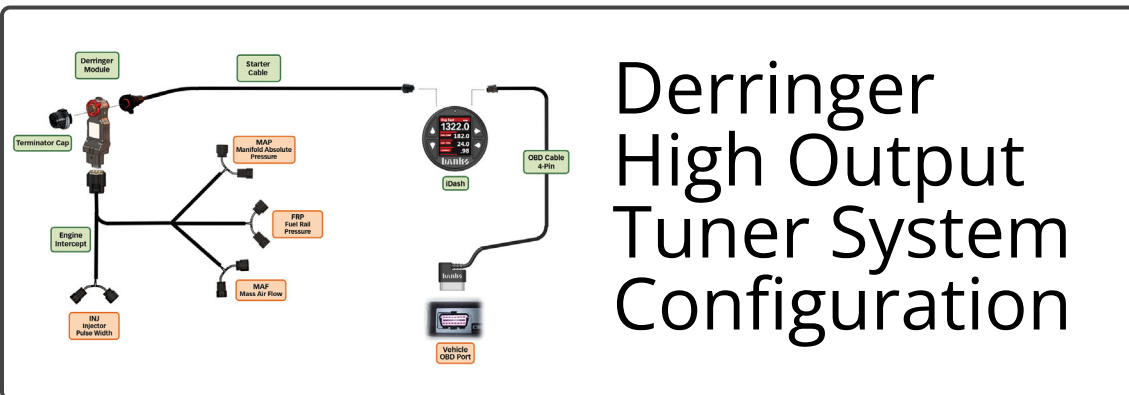
# Disconnect Battery

Before starting the install, disconnect both negative battery terminals for at least 15 min.

The ECU will hold some residual charge, so disconnecting sensor plugs early may cause a check engine light upon completion of your install.

**15  
MIN**

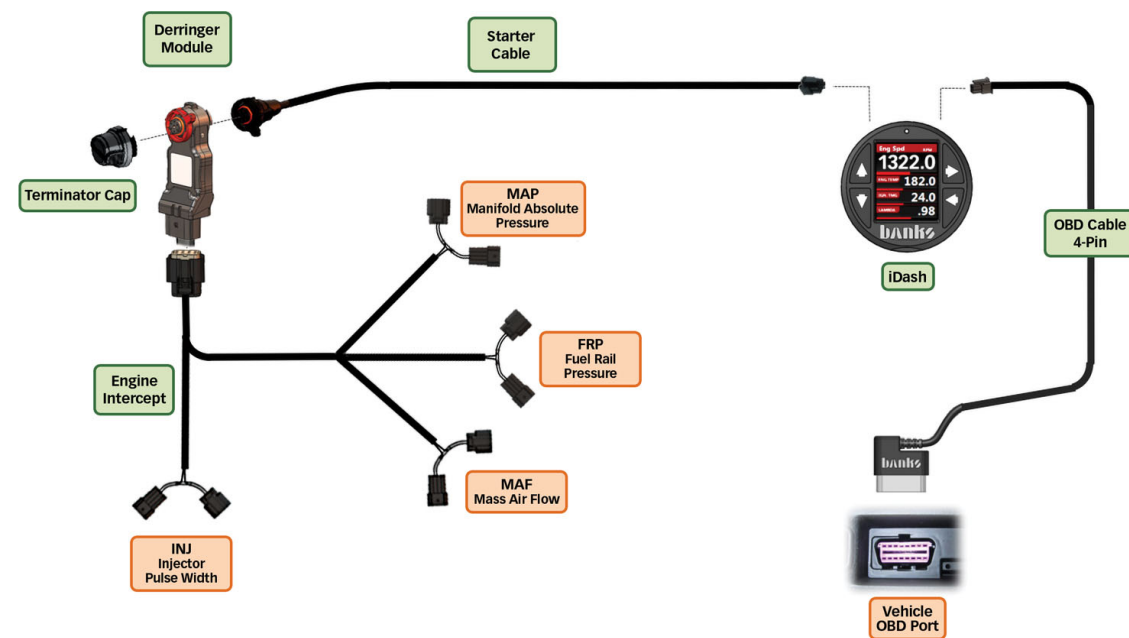
## Section 1: Installation of Wire Harness and Derringer Tuner



## Derringer High Output Tuner System Configuration

## Derringer Tuner System Configuration





The Derringer High Output tuner uses a new sensor intercept harness when compared to previous Derringer Tuners. The High Output tuner will tap into total of 4 sensors on the engine, let's take some time to familiarize yourself with where these sensors are located as positions change depending on the production year of your truck.



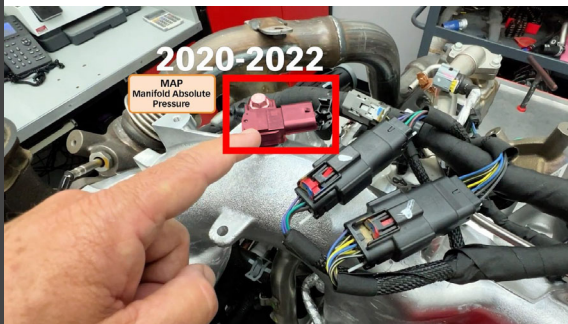
## 1) M.A.F. (Mass Air Flow)

The Mass Air Flow sensor is located on the plastic intake tube, just after the air filter for the engine.

## 2) M.A.P. (Manifold Absolute Pressure)

The Manifold Absolute Pressure sensor is located behind the EGR valve and is bolted onto the cast aluminum intake manifold. Depending on what year range your truck is, this sensor will be in one of two places.

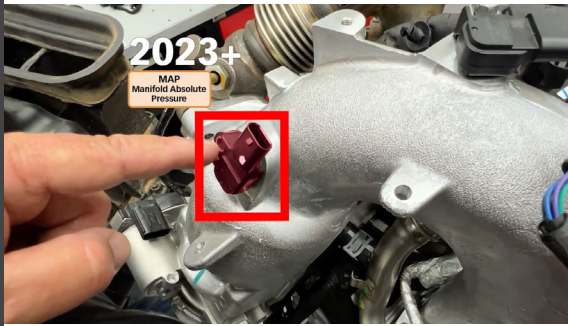
### 2020-2022 Years



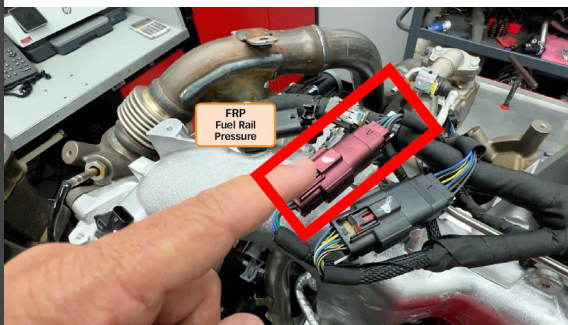
The (Temperature)/ Manifold Absolute Pressure sensor is located on top of the cast aluminum intake manifold.

If your truck only has one sensor here, you will plug it into the top one.

## 2023+ Years

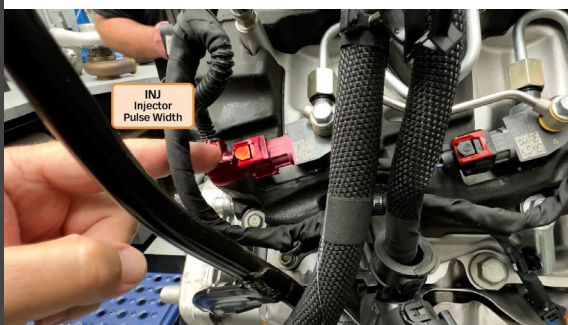


For late 2023+ model years, the top TMAP sensor is split in two. The pressure sensor is lower on the intake manifold, closer to the EGR valve. If your truck has two sensors, you will plug into the lower of the two.



### 3) F.R.P. (Fuel Rail Pressure)

The Fuel Rail Pressure sensor plug is located on top of the cast aluminum intake manifold right after the MAP sensor(s) are.



### 4) I.N.J. (Injector Pulse Width)

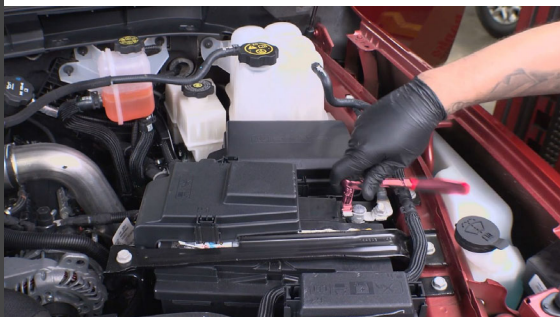
The last location that will connect your Derringer Harness to is the fuel injector for cylinder #2. It is located on the driver's side of the engine towards the nose of the truck and is normally covered with a plastic cover on the engine.

Now that you are familiar with the four sensors and plugs the Derringer will intercept, let's continue with the installation.

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## Section 2: Derringer Harness Intercepts

### 2.0 Disconnect Battery



#### **WARNING:**

Ensure the engine bay is cool. Remove keys from the ignition. Disconnect both battery GROUND (-) cables. Secure the cables so that they do not come in contact with the battery posts during the installation.



**NOTE:** If the ECU is powered on when the sensors are disconnected, your vehicle will show diagnostic trouble codes. These codes can be cleared later using the iDash.



**15  
MIN**

Leave them disconnected for 15 minutes prior to separating any connectors.

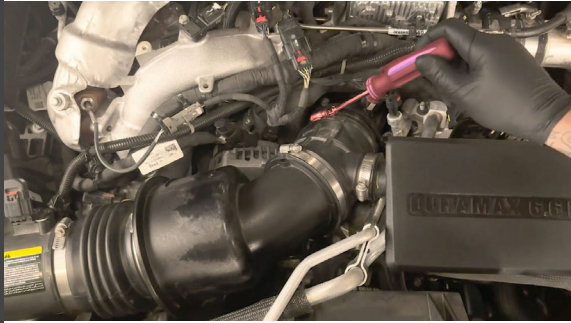
This allows the truck's ECM to go to sleep. Do not perform open heart surgery on patient while awake.

## 2.1 Injector Intercept (INJ)



1. To start, locate the secondary alternator located on the driver's side of the engine. This will be temporarily removed to provide access to the #2 injector.

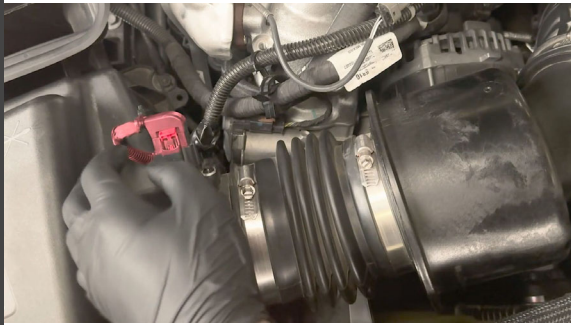




2. Start by removing the air intake system. Use a flat-blade screwdriver or nut driver and loosen the clamp that holds the intake onto the turbo inlet.

### 3. Unplug the MAF sensor located on the other end of the air intake.

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After sliding back the locking tab, pull the plug from the (T)MAP sensor. If the connector doesn't easily pull away from the sensor, use your thumb to slightly depress the grey locking tab. Jiggling the connector gently should allow it to slide off the sensor.

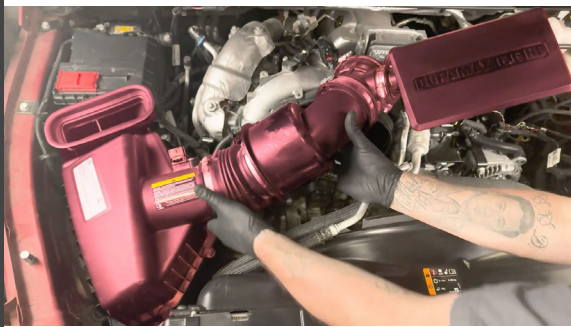
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To disconnect the OEM harness, slide back the OEM harness connector's red locking tab.



Use your thumb to depress the black plastic tab just in front of the red tab. This will release the connector and you can pull it away from the OEM FRP connection.

4. Lift and remove the Air Intake from the truck, and set it aside.



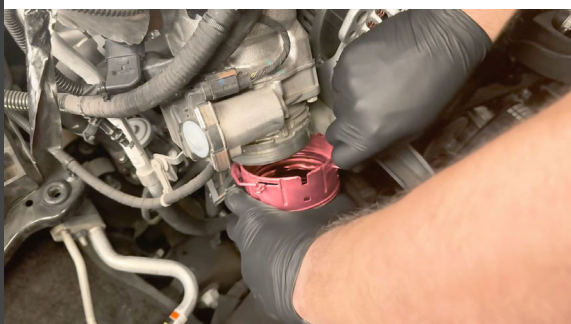




5. Place a plastic plug onto the turbo inlet to prevent any debris from entering.



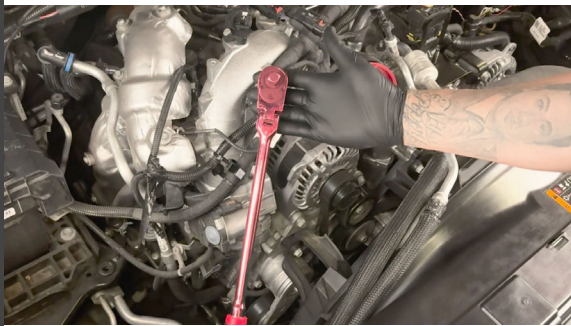
6. Unplug the temperature sensor located on the top of the boost tube.



7. Pull the locking clip free and release the cold-side boost tube from the EGR valve.



It does not have to be fully removed, just place a cap over the top and move it to the side for now.



8. With a 1/2" breaker bar, attach it to the front belt tensioner and press down.



This will release the tension on the belt...



... and will allow you to remove it from the secondary alternator. Pull the belt off and let it rest in the engine bay for now.

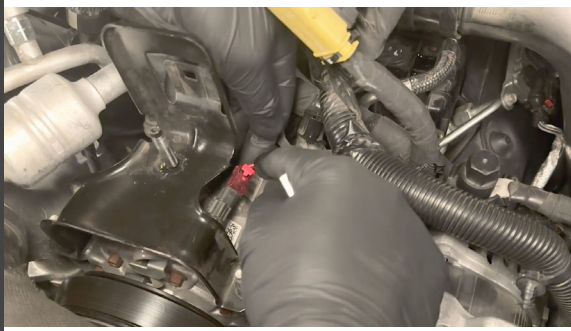


9. With a flat head screw driver, release the plug from the metal bracket.



10. Release the cable tie-down from the secondary alternator.





11. Release this plug from the AC Compressor.



12. With a 17mm socket, remove the top power cable from the alternator.



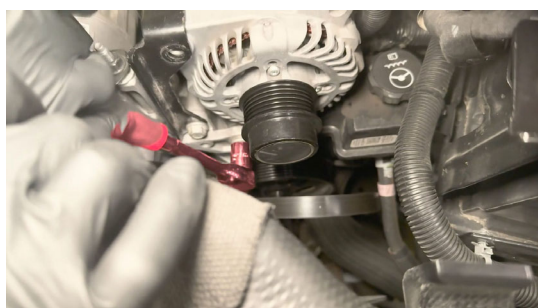
13. Disconnect the plug located on the back side of the alternator.



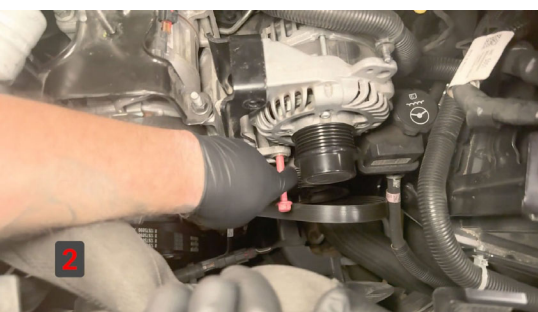
14. With a 15mm socket, remove the 3 bolts that hold the alternator to the engine.



Top Bolt



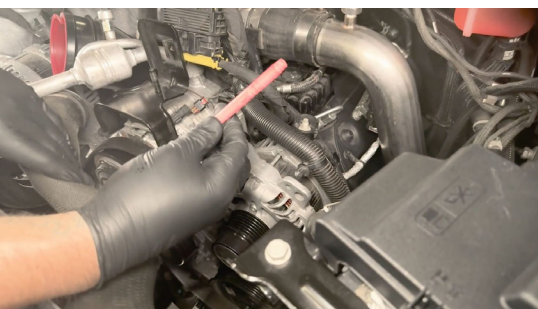
Bottom Bolt



Bottom Bolt



Side Bolt



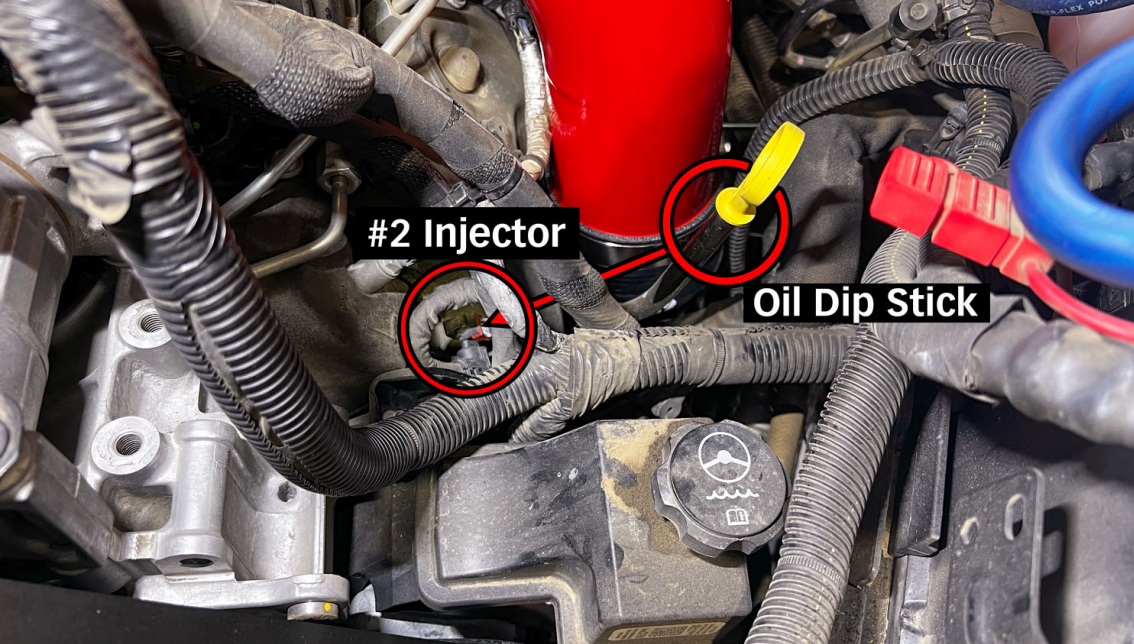
Side Bolt



Lift and remove the Alternator

The #2 injector can be a bit tricky to find. First, locate the yellow dipstick, then look down to the left.

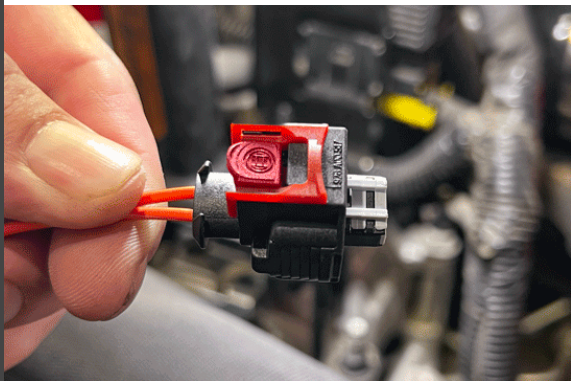




## About The Plug

The injector plug has an unusual locking mechanism.

The tab highlighted in red can be both lifted and pushed like a button, as seen in this animation.



**15.** Gently lift up the plastic injector cover to gain access to the #2 injector.





Locate OEM Injector #2



Using a pick tool, lift up the tab slightly.



This will allow you to slide back the red safety lock.



When the red safety lock has been slid back, use a pick or flat-blade screw driver to push the tab like a button.



This will release the plug, allowing you to remove it from the injector.



Unplug it from the vehicle

If you cannot get your hands into this tight space, use one tool to depress the tab, and another tool, like a lever, to slide the plug off the injector.





Intercept the injector harness with the Banks Harness



Plug in the intercept harness into the #2 fuel injector.



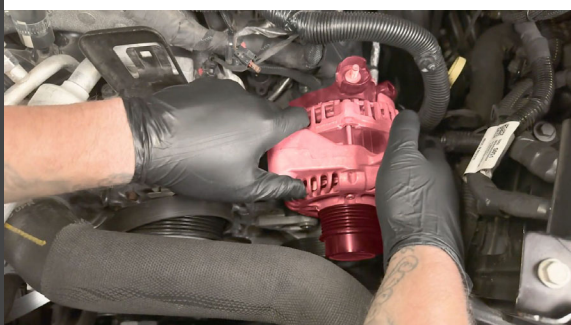
Be sure to lock the red tab back into place.



Press the plastic injector cover back on to the engine.



Run the Banks harness along with the factory loom, and zip tie it into place.



16. Bring the secondary alternator back to the truck.

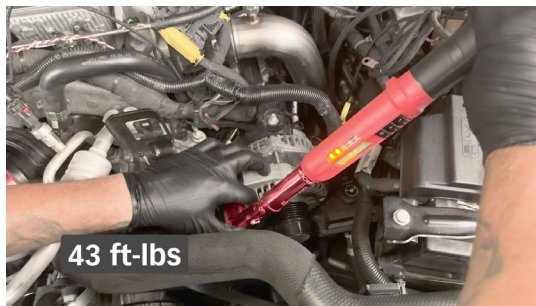
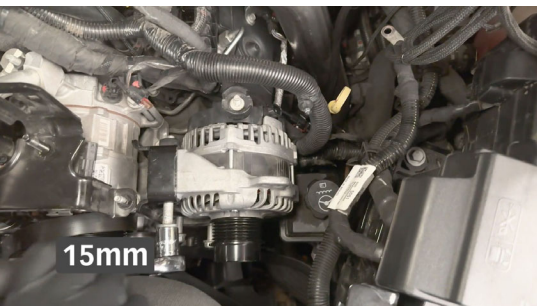




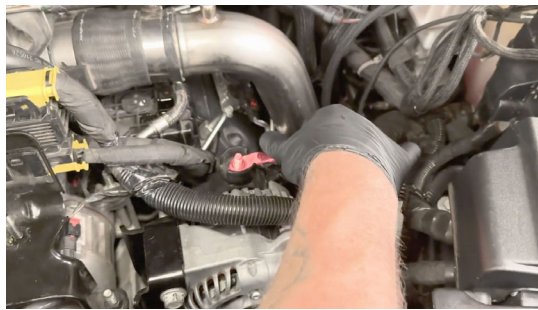
Re-attach the alternator with its bracket.



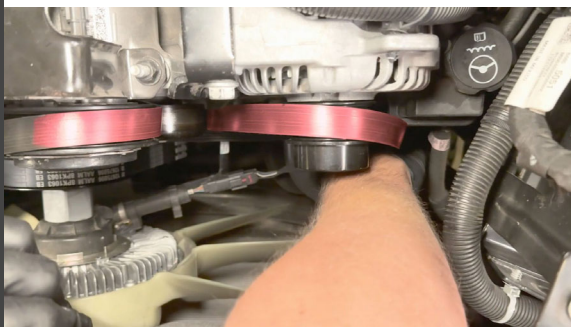
With a 15mm socket, reinstall the 3 bolts that hold the alternator on, and tighten to 43 ft-lbs.



**17.** Reconnect the secondary alternator and AC harness.



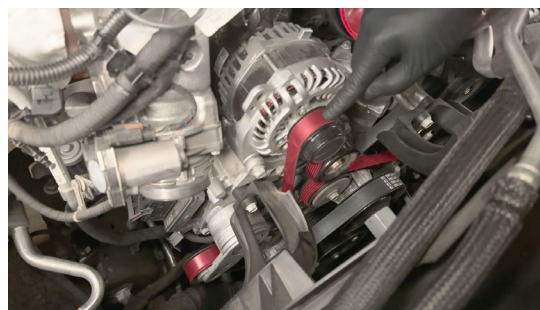
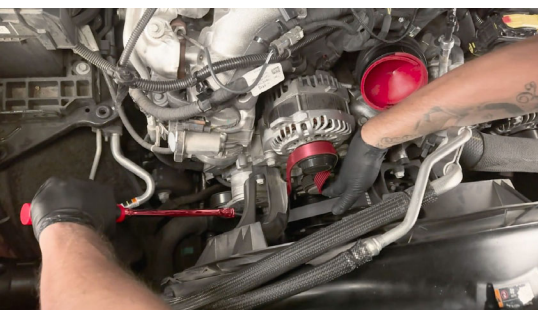
18. Be sure to snug down the battery charge cable on the alternator to 10ft-lbs.



19. Line up the accessory belt back onto the alternator and power steering pump.



20. Re-install your breaker bar to relieve tension on the belt, and press down on the belt to loop it back around the water pump.

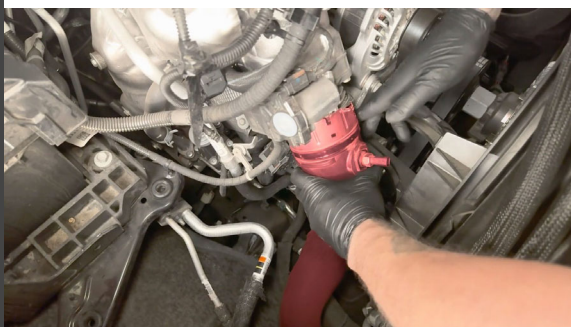


Loop the belt around the water pump, then release the tension on the breaker bar.

Be sure the belt is in the center of all the pulleys and not riding up on an edge.



Check that all pulleys and idlers are properly seated before continuing.



**21.** Reconnect the boost tube, making sure the locking clip snaps back into place.



**22.** Reinstall the intake air temperature sensor.



**23.** Remove the plug you installed on the turbo inlet.



**24.** Reinstall your air intake system to the turbo inlet.



25. Tighten the clamp with a nut driver or flat head screwdriver.

## 2.2 Mass Air Flow Intercept (MAF)

For vehicles with a stock air intake.



A) Plug in the Derringer harness plug with the MAF label on it, into the Mass Air Flow sensor.





Plug the other end of the Derringer MAF intercept harness, into the factory harness.

Check that both red locking tabs are pressed in.

For vehicles with a Banks Ram-Air Intake.



**B)** If you have a Banks Ram-Air, be sure to plug-in the Air Mass Control Module into your intake first.



The cable end of the AMC connects to the MAF sensor.



The other end of the AMC will connect to your Derringer MAF intercept plug.

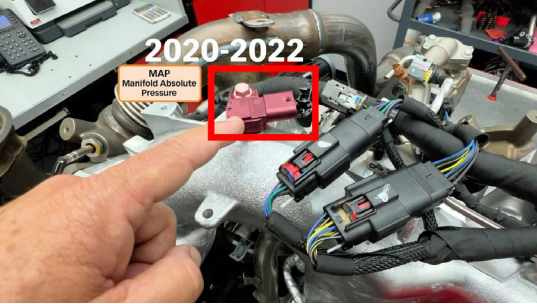


Connect the other end of the Derringer MAF intercept harness into the factory harness.

Check that both red locking tabs are pressed in.

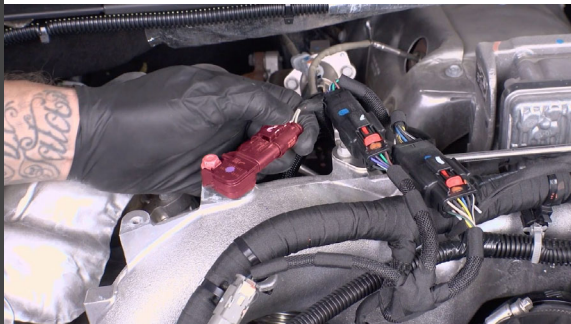
## 2.3 Manifold Absolute Pressure Intercept (MAP)

Next you will intercept the (T)MAP sensor. Remember, if your truck is a 2020-22 model year, you'll have one sensor on the top that you will intercept. For late late 2023 and newer trucks with dual sensors, you will intercept the lower one.



The install steps below are on a 2020-2022 truck. Be sure to connect your derringer harness to the correct sensor for your year range, as the plugs will not fit onto the wrong sensor.

## 2020-2022



A) Slide the red locking tab back, and depress the black portion in front to release the sensor.



Intercept the top MAP sensor with the Derringer Harness.



Connect the Derringer MAP intercept harness to the factory harness.

The install steps below are on a 2023+ truck. Be sure to



connect your derringer harness to the correct sensor for your year range, as the plugs will not fit onto the wrong sensor.

2023.5+



B) Slide the red locking tab back, and depress the black portion in front to release the sensor.



Intercept the Lower MAP sensor with the Derringer Harness.

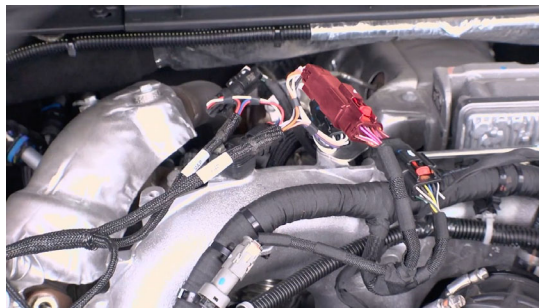
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## 2.4 Fuel Rail Pressure Intercept (FRP)

Disconnect the FRP sensor, located directly behind the top-mounted (T)MAP sensor.



Connect one end of the Derringer FRP intercept harness to the factory sensor.

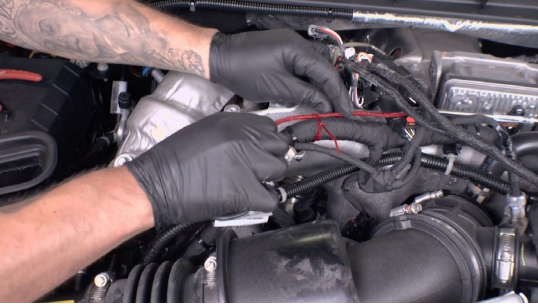


And plug the other end, into the factory harness.

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## 3.0 Derringer Tuner Installation

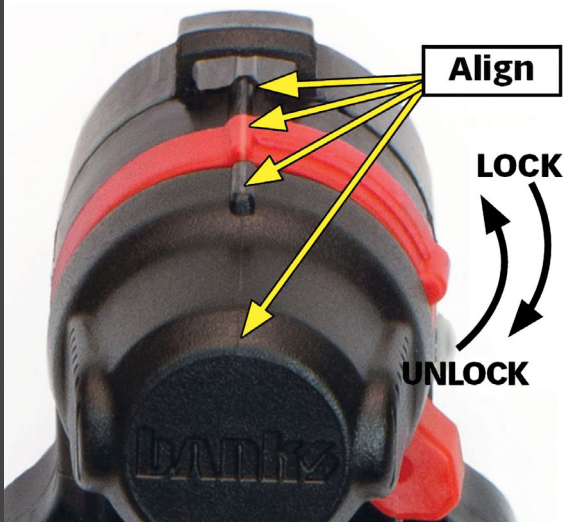
Now that the Derringer harness has intercepted its 4 locations, route the Derringer harness along with the factory harness towards the driver side of the truck. Use the included zip-ties to keep the loom up and out of the way.



1. Connect the **Derringer Module** to the black termination cap and sensor intercept harness.

2. Rotate the locking ring so all marks line up at the 12 o'clock position then connect the mating ends together ensuring proper alignment using the 12 o'clock marks.

Pushing the pieces together without proper alignment could result in bent pins.

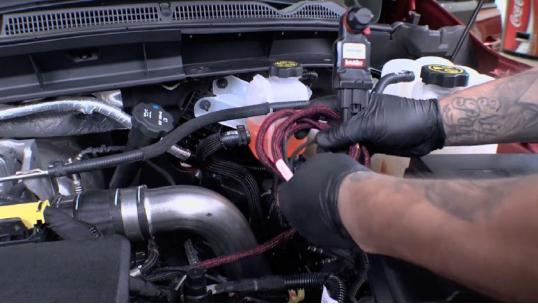


Be sure to line up the tabs before rotating the locking ring.



Connect the engine intercept harness.





Coil up the extra slack of the Derringer Intercept Harness.



Zip-tie any loose ends.



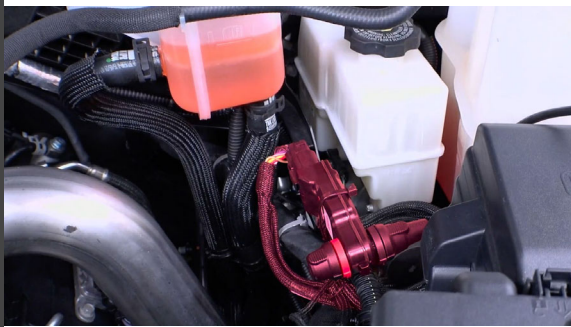
Connect the Derringer Startert Cable to the back side of the Derringer Module.



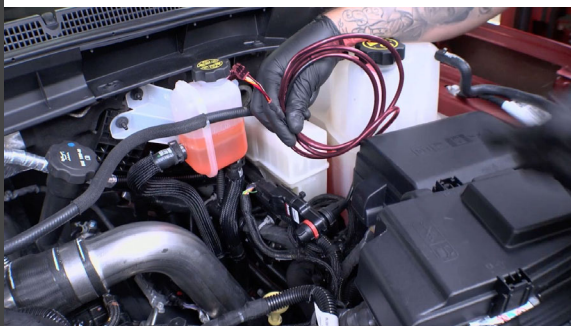
Carefully line up the alignment tab on the starter cable with the Derringer, and fully seat the cable before locking it.



When finished, both the alignment tabs on the cap and starter cable should be directly inline with each other, with the locking rings clicked down.



3. Secure the Derringer Module to the factory harness near the brake fluid reservoir



4. Grab the other end of the Derringer Starter Cable, and run it through to the side fender near the driverside door.



Run the cable under the foam insulation.

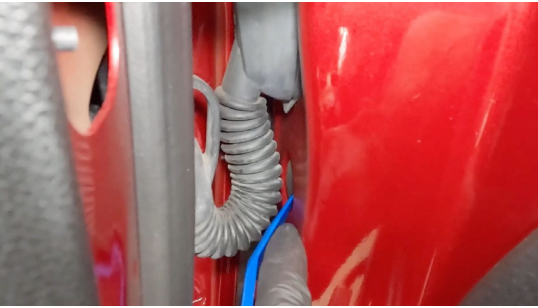


With the driver side door open, pull the Starter Cable through.



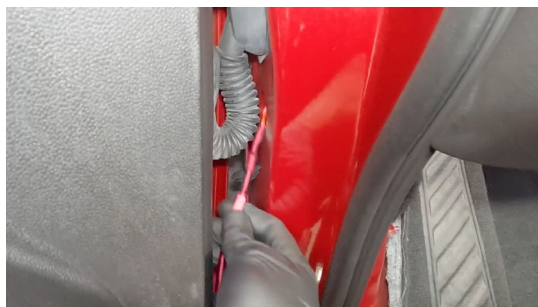


Lift up the driverside kick panel.



With a plastic pry tool, remove this grommet.

5. With a blade, cut a slice through the grommet to allow your Derringer Starter Cable to pass through.





Pull the cable through to the other side. You will need enough slack in the cable to run the 6-Pin starter cable up to where you will mount your iDash or into the extra 6-pin port on the PedalMonster if you have one.

## 4.0 iDash Installation

The following steps show how to install the iDash with a Stealth Pod.



1. Pop the side fuse panel off with a plastic pry tool.

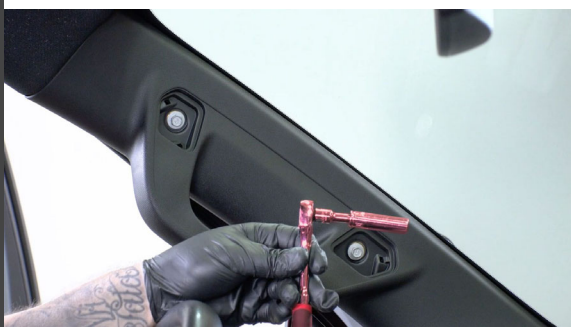


2. Pull back some of the weatherstripping around the door frame.





3. With a plastic pry tool, remove the covers over the A-Pillar grab handle bolts.



4. With a 10mm socket, remove the two bolts that secure the A-Pillar.



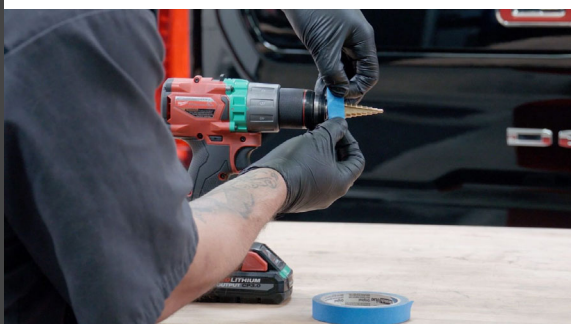
5. With a firm tug, remove the grab handle from the A-Pillar.



6. Bring the grab handle to a table with a non-slip surface.

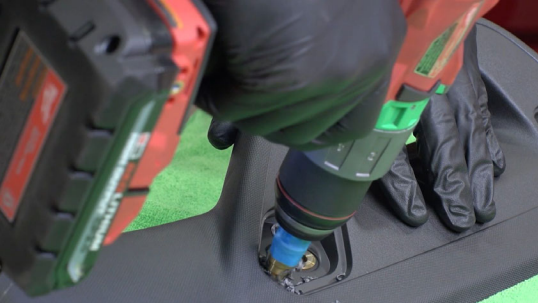


7. With the supplied step bit, you will drill out this hole near the lower bolt.



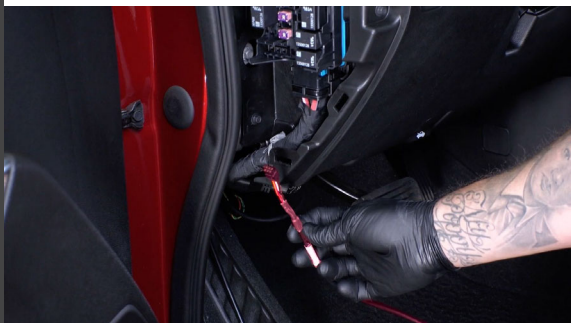
8. You will need to expand the hole to the 18mm mark on the step bit.

Using some painters tape is a good idea to mark the bit so you don't plunge it deeper than you need to.



Once you're satisfied with your hole and have cleaned up any left-over debris. Bring your drilled grab handle back to the truck.

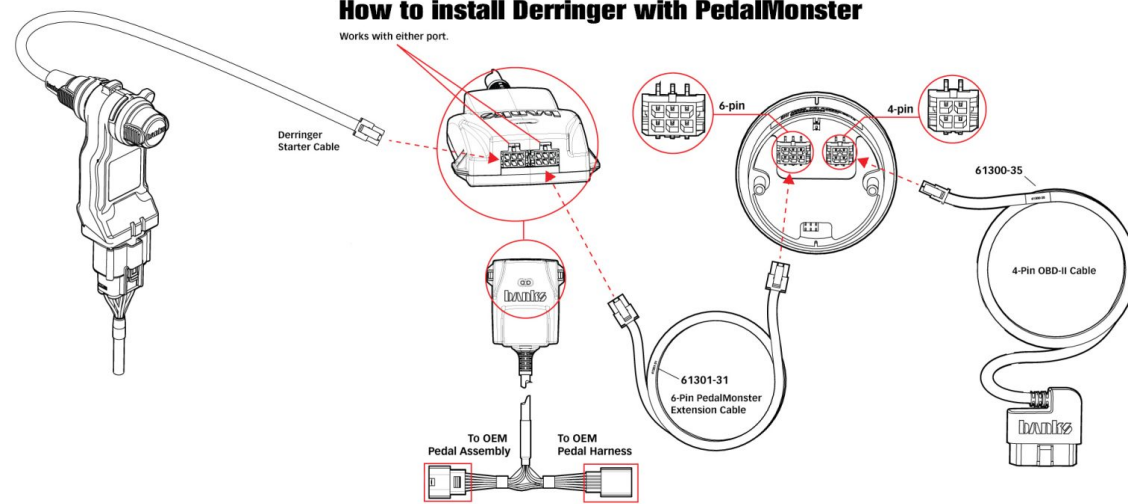
9. If installing a Derringer and iDash only, route the 6-pin Starter Cable, up from the bottom and through the side fuse panel. Drape some slack over on the dashboard for now.



If installing with a PedalMonster, see below.

## How to install Derringer with PedalMonster

Works with either port.



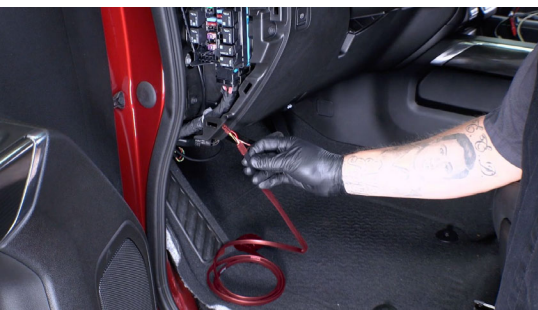
If you already have or will be installing a PedalMonster with your Derringer, the Derringer's 6-pin Starter Cable will plug directly into one of the extra ports on the PedalMonster and not directly into the iDash.

Then route a 6-Pin PedalMonster Extension Cable (61301-31) up from the PedalMonster and into the 6-pin port on the back of the iDash instead.





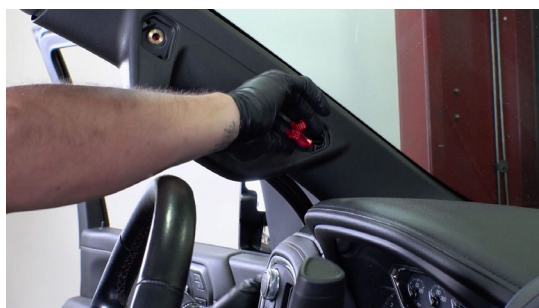
Route the 6-pin Derringer Starter Cable OR 6-Pin PedalMonster Extension cable up to the dashboard.



Route the 4-pin OBD-2 cable up the side as well.



10. Route both cables through the hole you drilled into the grab-handle.

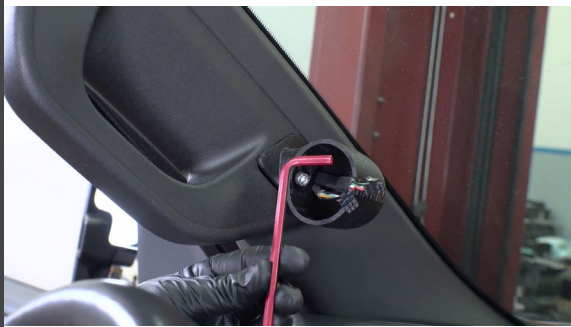




**11.** Snap the grab-handle back onto the A-Pillar.



**12.** Grab your Stealth Pod and run the wires through the cable access hole in it.



**13.** Starting by hand, thread in the supplied hex head bolt and washer, secure it with the supplied key.





**14.** Connect the 6 pin Derringer/ PedalMonster and 4 pin OBD-2 cables to the ports on the back of the iDash.



**15.** Slide in your iDash and make sure the banks logo is straight and level.



**16.** Secure the top bolt with a 10mm socket.



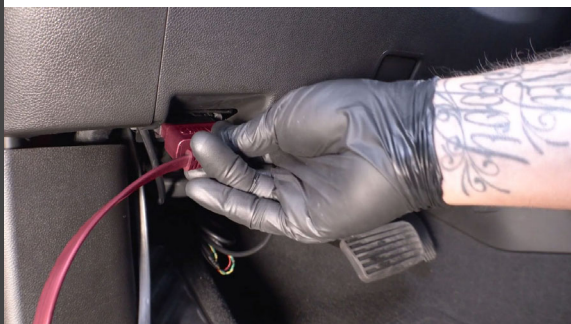
**17.** Snap back in the top cover for the bolt.



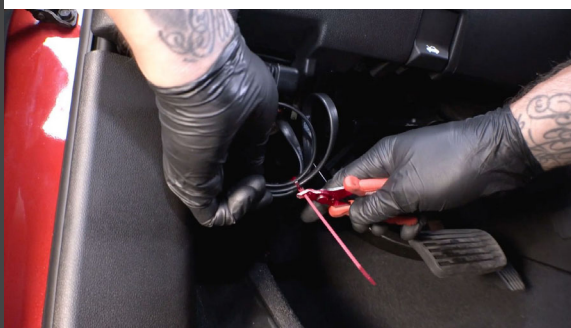
**18.** Snap back in the side fuse cover.



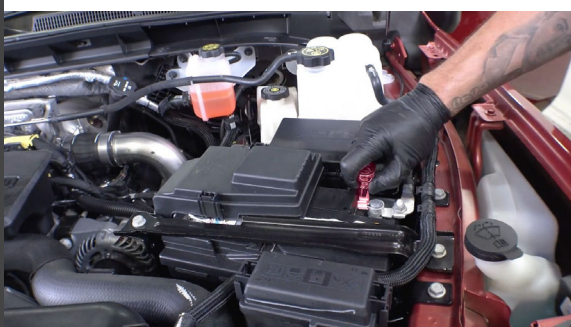
**19.** Snap back in the lower kick panel.



**20.** Connect the Banks OBD-2 cable to the OBD-2 port under the dash board.



21. Tidy up any excess wire and tuck it up and out of the way.



22. Reconnect the negative battery terminals in the engine bay.



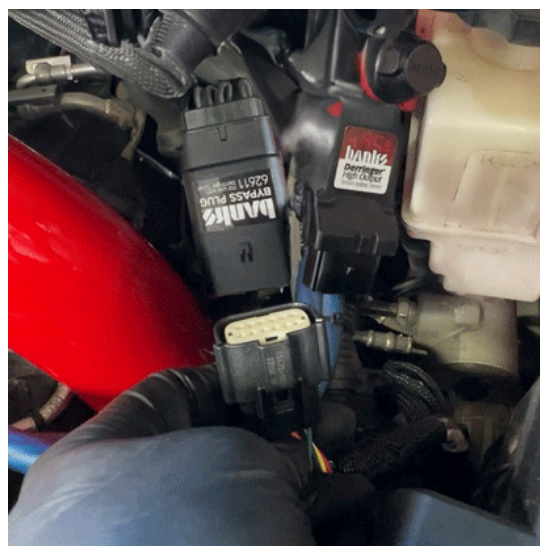
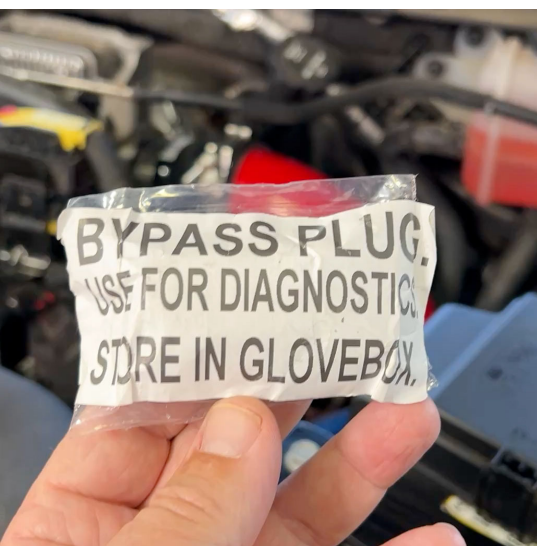
23. Check that the iDash powers up with the truck, and that a green status light is illuminated on the Derringer Module in your engine bay.



25. Let's check your installation. If the ECU was properly powered down prior to installation, upon starting the truck for the first time, you should not experience a check engine light or any errors on the dashboard. If a check engine light or any errors are present, use the iDash to clear the codes. Proceed to step 25.1.

25.1 While the engine is running, in Park, follow these steps to clear codes using the iDash.

- a. Right arrow to enter menu
- b. Scroll down to highlight Diagnostics
- c. Select Diagnostics using right arrow
- d. Scroll down to Vehicle
- e. Select Vehicle using right arrow
- f. Scroll down to Clear Vehicle Codes
- g. Use right arrow again to confirm Clear Codes
- h. Wait for Clearing Codes message to disappear
- i. A message will display: Codes Cleared
- j. Turn off ignition and wait until dashboard fully powers off.
- k. After dashboard powers off, restart engine. All errors should be gone.
- l. If errors persist, contact Banks Tech Support by phone or text.
- m. If after hours, and Tech Support is not available, install supplied Banks Bypass Plug
- n. Remove engine harness connection from bottom of Derringers module
- o. Install Banks bypass plug onto Banks engine harness
- p. Repeat code-clearing process.



## 5.0 Derringer settings and configuration

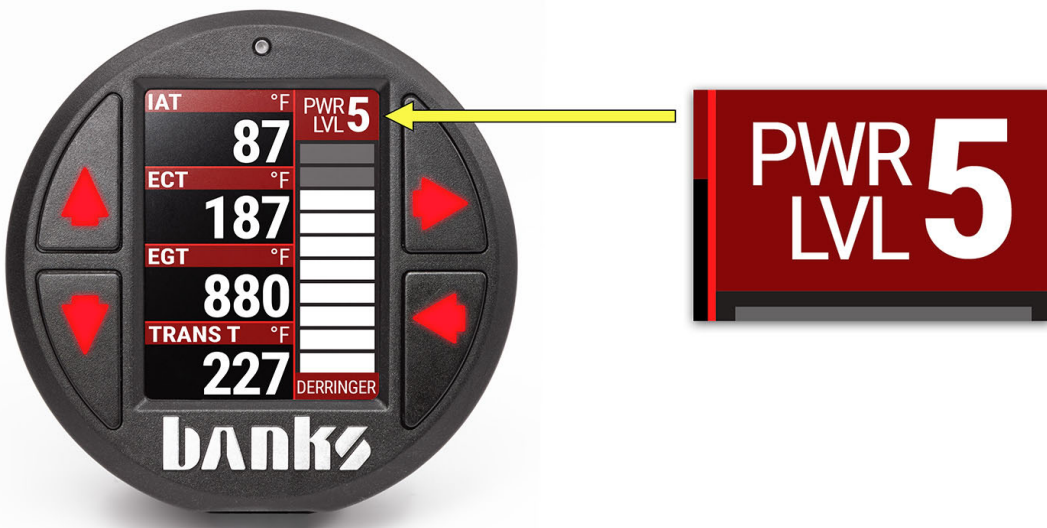
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### 5.1 Checking your connection

On the iDash, navigate to the Gauge Layout, scroll down, then select the “Derringer” layout. Using the **UP** and **DOWN** arrow buttons to adjust the power level settings.



If the power level cannot be adjusted, refer to “Section 6: Troubleshooting”



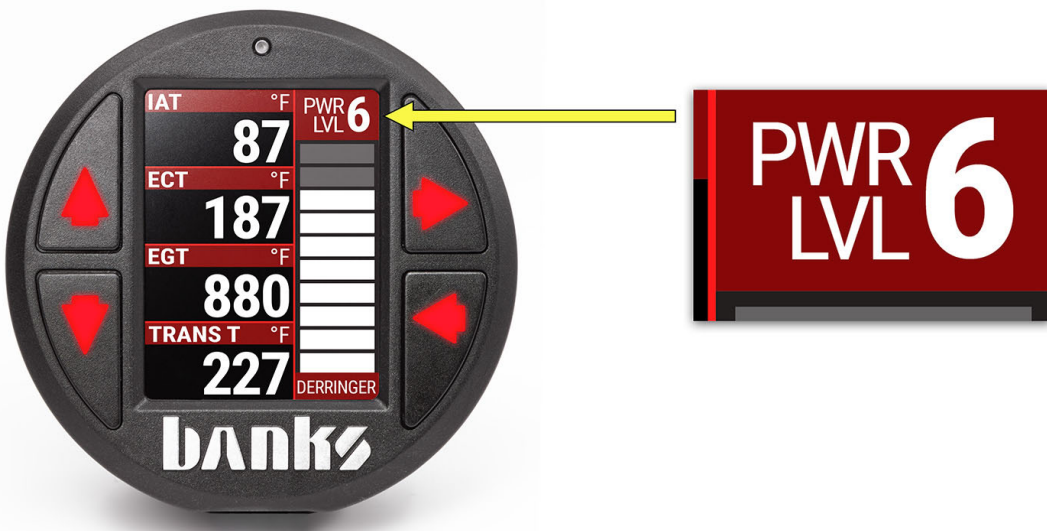
## 5.2 Derringer Tuner Operation

### Setting Desired Power Level:

The Derringer is equipped with multiple power levels. You can set the desired power level while driving, however, it is recommended that you do not switch the power level under high load applications.

### iDash configuration:

When the Derringer is connected to an iDash, there are a total of 6 power levels (level 6, 5, 4, 3, 2, and stock). The power level can be changed by pressing the **UP** and **DOWN** buttons at any time. If you have the Derringer layout loaded, you will see the power level change at the top right corner. If you have any other layout loaded, a message box will pop up to notify you of the power level change.





This mode is to be used when peak engine performance is desired. This mode has been optimized for maximum power output along with improved turbo response by tuning fuel delivery and boost.

### **PLUS MODE/LEVEL 3**

The plus calibration is designed for use in everyday driving. This power level adds a noticeable punch under high load acceleration by improving turbo response and power. Power in this mode can be sustained for a prolonged duration.

### **STOCK MODE**

Stock mode turns OFF your Derringer tuner. Throttle response and power return to stock levels.

### **Banks ActiveSafety®**

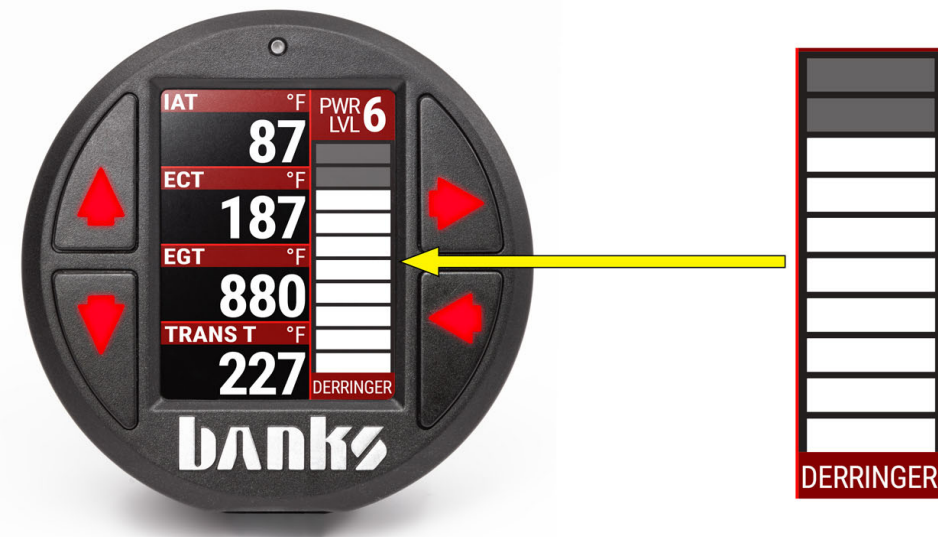
Anytime aftermarket electronics are introduced to your vehicle, it is important to know that they are not going to cause damage. Banks builds in a suite of ActiveSafety features to safeguard your vehicle:

- » Software that monitors and diagnoses itself to ensure proper function.
- » Self-monitoring hardware that provides automatic bypass should something malfunction.

The Derringer Tuner module monitors multiple parameters and adjusts its output controls to protect the driveline. The Derringer Tuner monitors engine coolant temperature (ECT) and will limit the additional power that it provides anytime the ECT is outside of optimal operating range to protect the engine.

### **Power Added (%):**

When connected to an iDash while displaying the “Derringer” layout, the vertical bar graph on the right-hand side represents, in real-time, how much power the Derringer is adding. In Stock Mode there will be no change to the bar graph and in Sport Mode/Level 6 the bar graph will reach 100% under proper operating conditions. Percent power added is affected by safety features such as Engine Coolant Temperature, Exhaust Gas Temperature, Regen., and various transmission parameters, so it might not always fully reach 100%. The “**Power Added**” data can also be displayed on ANY layout as a numeric value by selecting it from the “**Derringer**” category of parameters.



### Automatic Transmission Learning:

6.6L GM Duramax pickup trucks equipped with the Allison 10L1000 10-speed automatic transmission use an adaptive shift control logic. After the initial installation of the Derringer Tuner, wide-open throttle shifts may feel soft when switching to higher power levels. Also, when switching to lower power levels, shifting may feel harsher. Continued use at a single power level will provide more consistent shifting performance.

To accelerate the learning process perform the following sequence at a location where it is safe to accelerate without exceeding the posted speed limit.

1. Set the Derringer Tuner to **Stock Mode** power setting, start the truck and allow the engine to reach normal operating temperature.
2. Adjust the Derringer Tuner to **Plus Mode/Level 3** power setting.
3. Drive your vehicle for 5-10 miles, ensuring a complete shift cycle through each gear (The transmission shift learning process requires 15-30 complete shift cycles to learn a new shift program).
4. Increase power level to **Sport Mode/Level 6** and repeat **Step 3**.

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## 6.0 Troubleshooting

### No Communication with iDash

Check that your wiring matches the figure in **Section 1.0 Wiring**

**Diagram:** Derringer High Output Tuner System Configuration.

Common sources of Derringer communication errors (D-ERR) are wrong caps attached to the Derringer and/or the In-Cab Termination Cable is not installed. A

Black Termination Cap must be connected to the Derringer and only one In-Cab Termination Cable should be attached to one of the iDash units.

## iDash Display Error Code

If error code “D-ERR!” appears on the iDash, refer to the following to display the code and description:

**Settings > Diagnostics > Select the module that is giving the error**

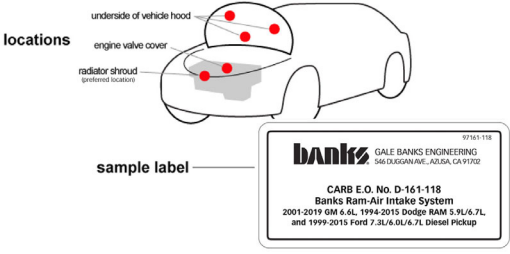

### Derringer Tuner (GM L5P application)

Event	Course of Action
Derringer not detected by iDash	<p>Press the right arrow to enter the menu. Use the down arrow to scroll to Banks Modules. If Derringer is displayed, proceed to step 5.2. If Derringer is not displayed, scroll to and select Re-Scan for Modules using the right arrow.</p> <p>At the Derringer, rotate the locking ring to the unlocked position on the Starter Cable side. Separate starter cable from Derringer. Inspect all 6 gold pins on Derringer to ensure they are not bent.</p> <p>Reconnect Starter Cable, ensuring orientation is correct. Make sure Starter Cable is fully seated into the Derringer. Then, rotate locking ring into locked position. Do not rely locking ring to seat the cable into the Derringer.</p>

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Code	Event	Course of Action
1,1	Fuel Rail Pressure (FRP) Input Voltage Out of Range.	Turn ignition OFF & check the male and female FRP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
1,2	Manifold Absolute Pressure (MAP) Input Voltage Out of Range.	Turn ignition OFF & check the male & female MAP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
1,4	Fuel Rail Pressure 2 (FRP2) Input Voltage Out of Range.	Turn ignition OFF & check the male and female FRP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
2,1	Fuel Rail Pressure (FRP) Output Voltage Out of Range.	Turn ignition OFF & check the male & female FRP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
2,2	Manifold Absolute Pressure (MAP) Output Voltage Out of Range	Turn ignition OFF & check the male & female MAP sensor connectors. Turn Ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
2,4	Fuel Rail Pressure 2 (FRP2) Output Voltage Out of Range.	Turn ignition OFF & check the male & female FRP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
3,2	Internal Module Malfunction or Intermittent Power.	Turn ignition OFF & check the male and female FRP sensor connectors. Turn ignition back ON & re-check for presence of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
3,3	CPU Over Temp Limit	CPU over temperature limit exceeds 125°C (257°F). Turn ignition OFF & allow several minutes to let the CPU cool. Turn ignition back ON & re-check for presense of code. If code does not re-appear at key ON, start engine & check for presence of code both at engine idle & under varying driving conditions.
3,4	OBD-II CAN Communication error	Turn ignition OFF & check the following connections (as applicable): 1) 61300-35 OBD-II Interface Cable - at 16-pin vehicle OBD-II & 4-pin inter-cable connectors. 2) 61301-21 Y-Adapter Cable - at 4-pin inter-cable & 6-pin inter-cable connectors

		3) 61301-20 B-Bus Starter Cable - at 6-pin inter-cable & 6-pin B-Bus Starter Cable
	<div> <div> <h3>Vehicle CARB EO Label Placement</h3>  <p><b>locations</b></p> <ul style="list-style-type: none"> <li>underside of vehicle hood</li> <li>engine valve cover</li> <li>radiator shroud (preferred location)</li> </ul> <p><b>sample label</b></p> <div>  <small>GALE BANKS ENGINEERING 546 DUGGAN AVE., AZUSA, CA 91702</small> </div> <div> <small>97161-1118</small>  <b>CARB E.O. No. D-161-118</b>  <b>Banks Ram-Air Intake System</b>            2001-2019 GM 6.6L, 1994-2015 Dodge RAM 5.9L/6.7L, and 1999-2015 Ford 7.3L/6.0L/6.7L Diesel Pickup         </div> </div> </div> <div> <h2>CARB EO Label</h2> <p>For smog check purposes, affix the CARB E.O. Label on a visible location under the hood. Banks recommends using the radiator shroud location.</p> </div>	
<b>Technical Support</b> 4 5 If you require support, call or text us in (800) 601-8072 during normal business hours, Monday-Friday. We can also be reached via Facebook messenger.	<b>Exhaust Support</b> Torque Converter Clutch Slip Detected	Shift solenoid valve performance DTC's, in conjunction with P0894, may indicate incorrect fluid level. Incorrect gear ratio may indicate a worn or failing transmission. Take your vehicle to a mechanic for inspection/repair.