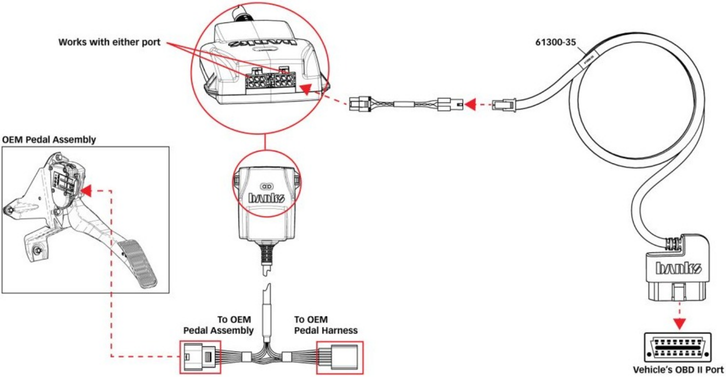
PEDALMONSTER STAND-ALONE DIAGRAM


Works with either port
61300-35
OEM Pedal Assembly
banks
To OEM
Pedal Assembly
To OEM
Pedal Harness
banks
Vehicle's OBD II Port

Section 1: **Installation**

Step 1

Power off the vehicle completely and open the driver's door. Leave alone the vehicle for a minimum of 10 minutes prior to installing the PedalMonster to ensure the vehicle system is asleep in order to avoid setting Check Engine Light.

Some cars have a proximity system that is triggered if a transponder car key is within a certain distance of the vehicle. Place the proximity car key a minimum of 10 feet away to prevent the vehicle electronics from powering on.

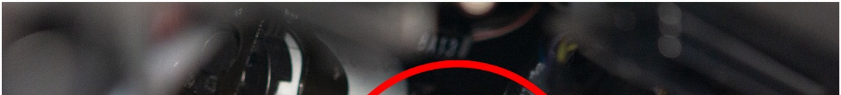
If the vehicle does not go to sleep, it's best to disconnect the battery or batteries. This will eliminate a check engine light as a result of disconnecting the accelerator pedal.

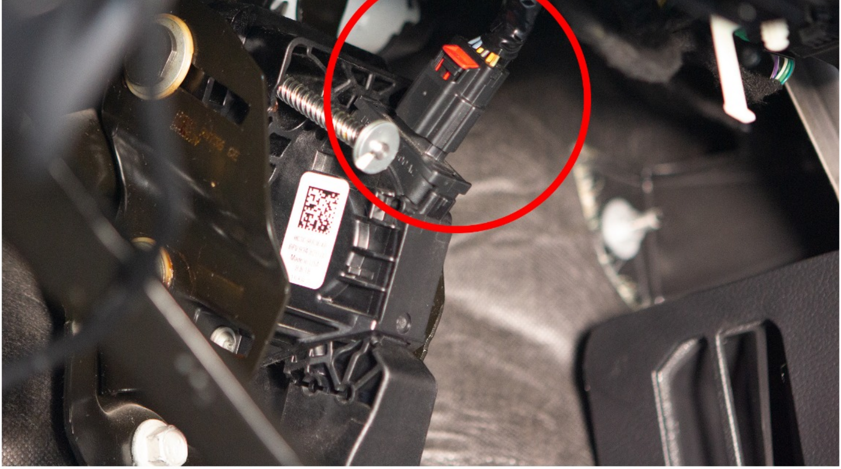
Step 2

Locate the connector at the top of the accelerator pedal. While some connectors face the driver, others may face up toward the dash or to the left.

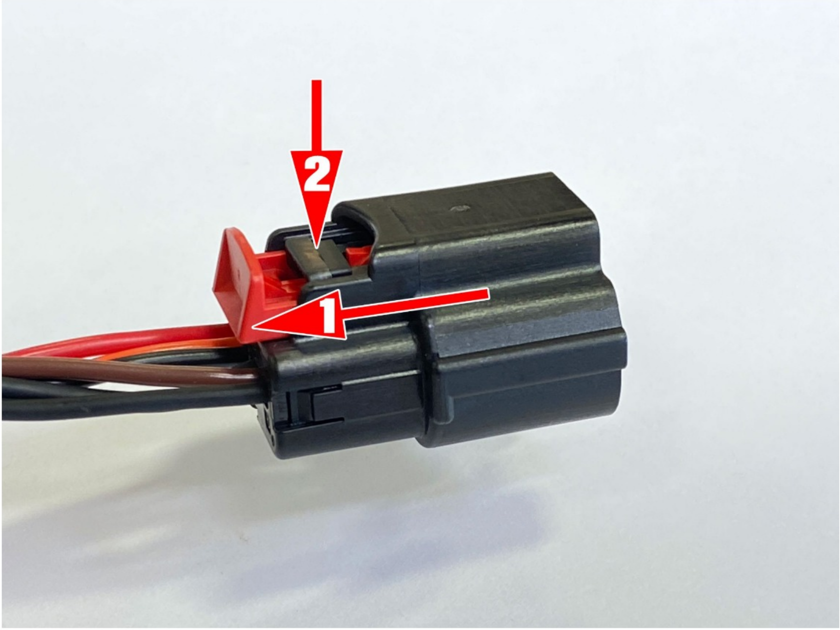
Step 3

If the connector has a locking tab, slide the locking tab outwards to unlock. This will expose a black plastic button you will pinch to unlatch. Remove the connector from the accelerator pedal.

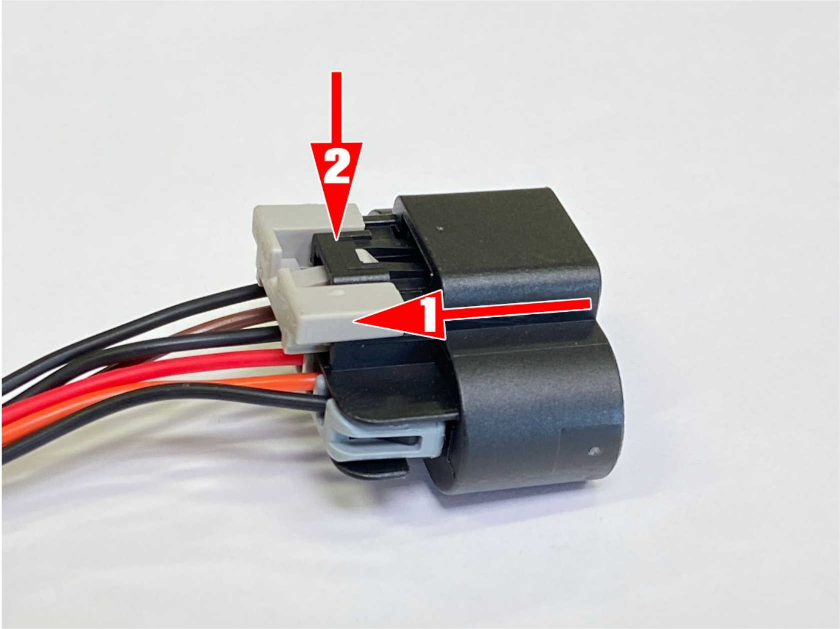




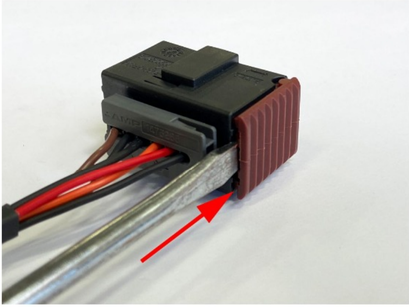
Below are three common pedal connectors. Most manufacturers use a slide lock to ensure the connector doesn't accidentally get kicked loose.



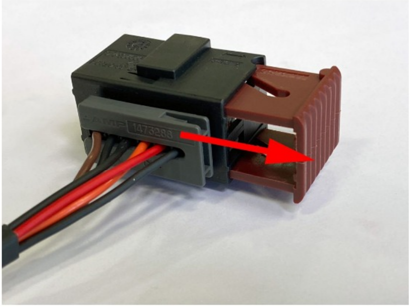
Example 1. Slide out grey lock approx 1/8". Squeeze the black tab. This will release the connector.



Example 2. Slide out grey lock approx 1/8". Squeeze the black tab. This will release the connector.



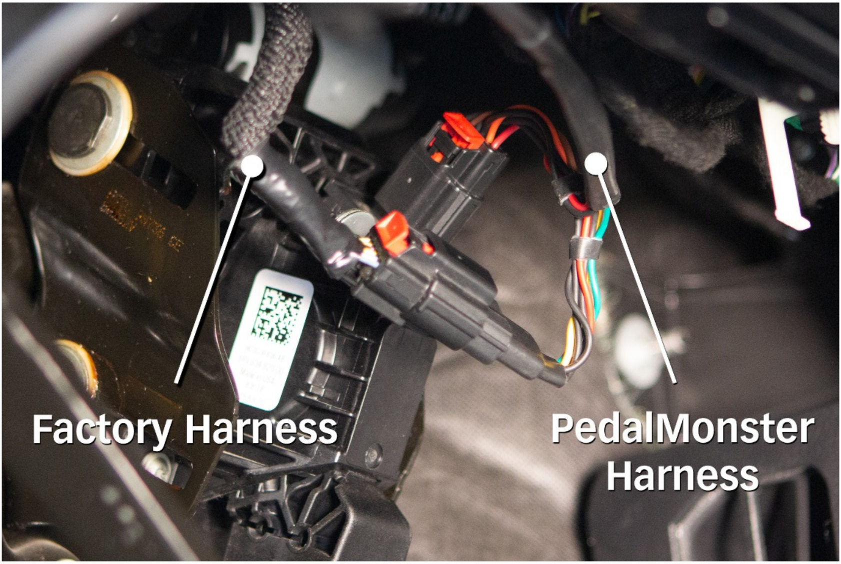
Example 3. Insert small flat-blade screwdriver or pick tool.


AMP 1473288

Remove tool and slide out the locking mechanism about 1/2" with your fingers.

Step 4

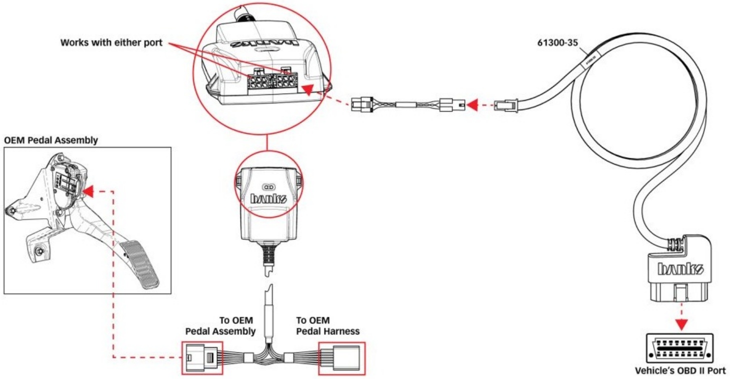
Connect the female PedalMonster plug to the accelerator pedal. Connect the male PedalMonster connector and to the vehicle's female connector. Ensure both male and female connectors on the PedalMonster module are securely connected to vehicle's connectors.


Factory Harness
PedalMonster Harness

Step 5

Reinsert the locking tab on the connectors (if applicable).

Section 2A: **PedalMonster Stand-Alone** Configuration


Works with either port
61300-35
OEM Pedal Assembly
banks
To OEM Pedal Assembly
To OEM Pedal Harness
banks
Vehicle's OBD II Port

Step 1

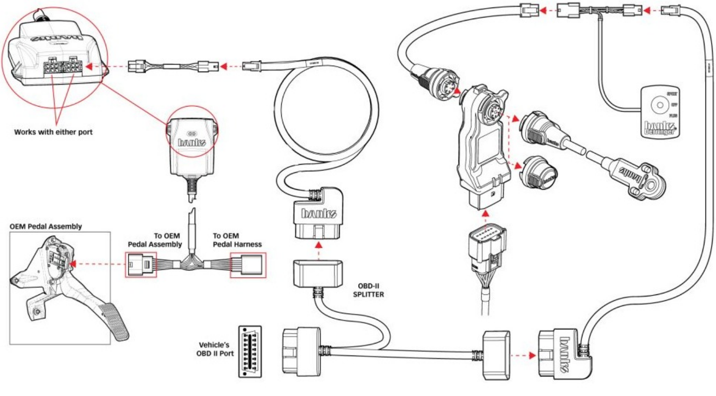
Connect the 4-to-6 pin OBD-II adapter to either of the PedalMonster module's 6-pin female ports.

Step 2

Connect the 6 pin side of the OBD cable to the short adapter cable you just plugged into the PedalMonster. Now connect the OBD plug into the vehicle's OBD receptacle found just above the driver's left knee. In some European vehicle's the OBD receptacle may be hidden by a hinged panel above the driver's left leg.

Do not secure the PedalMonster yet. You'll need access to the recessed Bluetooth pairing button on the back.

Section 2B: **PedalMonster Monster with Switch** Configuration


Works with either port
OEM Pedal Assembly
To OEM Pedal Assembly
To OEM Pedal Harness
OBD-II SPLITTER
Vehicle's OBD II Port

For those with an existing Derringer tuner with a 3-position power level switch, you will need an OBD splitter. Follow the instructions for PedalMonster Stand-Alone kit for module installation. Then follow the steps below.

Step 1

Instead of Derringer's OBD connector plugging directly into the vehicle's OBD port, Derringer's OBD connector will now plug into one side of the OBD splitter as shown above.

Step 2

The OBD cable that came in the PedalMonster kit will plug into the other side of the splitter.

Step 3

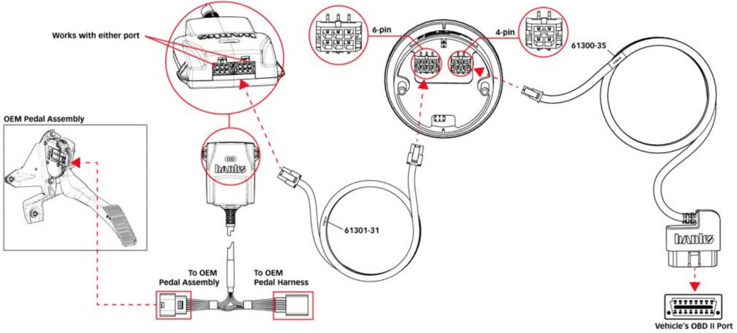
Plug the splitter into the vehicle's OBD port.

Step 4

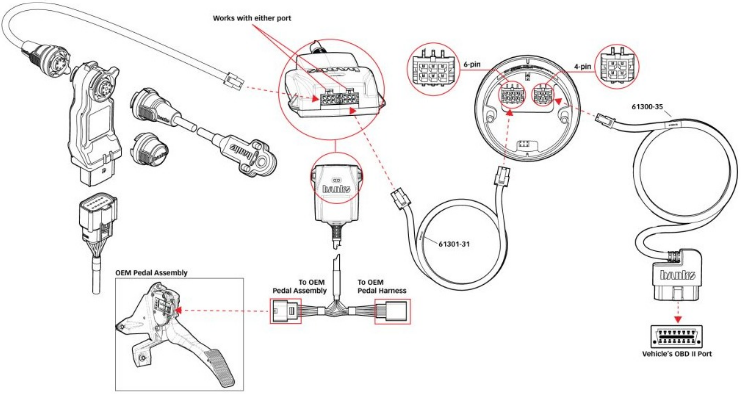
Calibrate and adjust PedalMonster using the mobile app as explained in **Section 6**.

Section 2C: **PedalMonster with iDash** Configuration

```
NOTE: If you do not have an iDash and will be using the PedalMonster in a standalone configuration, skip ahead to Section 4.
```


Works with either port
6-pin
4-pin
61300-35
OEM Pedal Assembly
61301-31
To OEM Pedal Assembly
To OEM Pedal Harness
Vehicle's OBD II Port

Section 2D: **PedalMonster with iDash and Derringer** Diagram


Works with either port
6-pin
4-pin
61300-35
61301-31
OEM Pedal Assembly
To OEM Pedal Assembly
To OEM Pedal Harness
Vehicle's OBD II Port

Step 1

If using Derringer, 4-Channel, or other Banks Bus modules, the PedalMonster will serve as the connecting hub between the modules and the iDash. Connect the Banks Bus Starter Cable from the Derringer or 4-Channel modules directly to the PedalMonster.

If adding a PedalMonster to an existing Derringer/iDash system, unplug the 6-pin Starter Cable from the back of the iDash, route it to the PedalMonster and connect it to either of the 6-pin ports.

Step 2

Connect the 6-Pin Female Banks Bus cable (supplied with the kit) from the PedalMonster module to the iDash.

Step 3

Connect the OBD-II Cable from the vehicle's OBD-II port to iDash's 4-pin port.

Do not secure the PedalMonster yet. You'll need access to the recessed Bluetooth pairing button on the back.

Section 3: Initial Setup of **PedalMonster** with iDash

Step 1

Turn on the vehicle's ignition but do not start the engine.

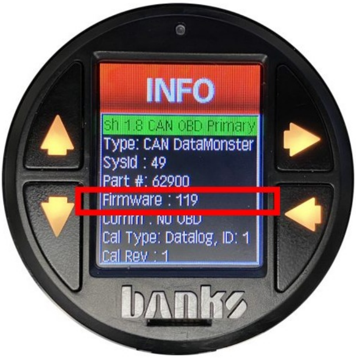
Step 2

Press any button on the iDash to wake it up.

Step 3

Check iDash firmware version. You must have iDash firmware **v119** or higher in order for iDash to communicate with the PedalMonster. To check the firmware version navigate to MENU–>SYSTEM INFORMATION–>IDASH 1.8. If you do not have version 119 or higher, update your iDash firmware here before proceeding. Never updated firmware before? Watch the tutorial below.

IMPORTANT: Updating firmware to 1.19 may cause a loss of custom pages and settings. It is recommended that you take photos of your custom pages so they can be easily re-created after the firmware update.



Sh 1.8 CAN OBD Primary
Type: CAN DataMonster
SysId : 49
Part #: 62900
Firmware : 119
Comm : No OBD
Cal Type: Datalog, ID: 1
Cal Rev : 1

Version 119 or higher is required to use iDash with PedalMonster

SPORT
RPM
4
3318
SPEED MPH
57
ECT °F
221
PM
Der
banks
IDASH 1.8 FIRMWARE
UPDATE TUTORIAL

Step 4

Press the Right Arrow on the iDash to navigate into MENU–>BANKS MODULES–>PEDAL MONSTER–>CALIBRATE.

Step 5

Press the Right Arrow to acknowledge YES and confirm the calibration process. Fully depress the accelerator pedal and release the pedal. Repeat the process by fully depressing and releasing the pedal. You should see "SUCCESS. CALIBRATION PROCESS IS COMPLETE".

Section 4: Initial Setup of PedalMonster with Mobile App

Step 1

Download the Banks PedalMonster mobile app from Apple App Store or Google Play Store.

Step 2

Turn on the vehicle's ignition but do not start the engine.

Step 3

Activate Bluetooth on the phone and start the Banks PedalMonster app.

Step 4

Press the pairing button on the bottom of the PedalMonster module when prompted by the Banks PedalMonster app. This allows the pairing process to complete by sharing a security key between the PedalMonster module and the phone app.

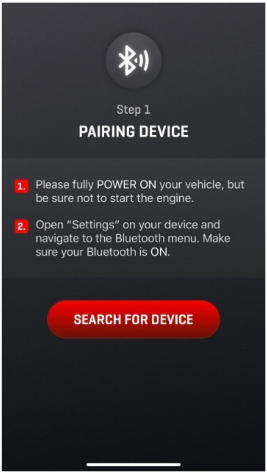
The pairing button is not necessary on subsequent connections, but required when making a new connection between a PedalMonster Module and your phone. The mobile app will automatically store 5 pairing keys.

Step 5

Press BEGIN CALIBRATION icon to start the pedal calibration. Fully depress the accelerator pedal and release pedal. Click on CONTINUE icon to acknowledge the completed step. Fully depress and release the pedal again to confirm the pedal range and complete the calibration process.

Step 6

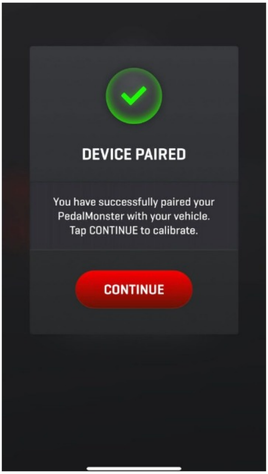
Once satisfied PedalMonster is connected and communicating with the app, it's time to use the supplied zip ties to secure the module and cables up under the dashboard or in a side panel compartment. Make absolutely sure the cables do not get in the way of the throttle, brake or clutch pedals.


Step 1

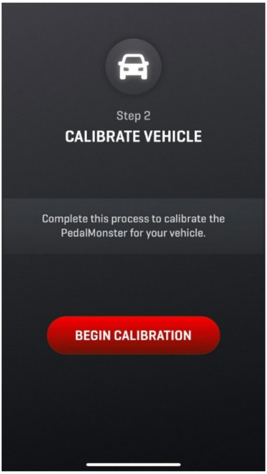
PAIRING DEVICE

1. Please fully POWER ON your vehicle, but be sure not to start the engine.
2. Open "Settings" on your device and navigate to the Bluetooth menu. Make sure your Bluetooth is ON.

SEARCH FOR DEVICE


DEVICE PAIRED

You have successfully paired your PedalMonster with your vehicle. Tap CONTINUE to calibrate.


Step 2

CALIBRATE VEHICLE

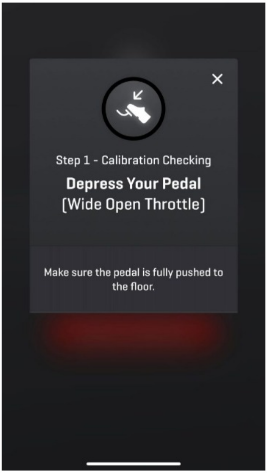
Complete this process to calibrate the PedalMonster for your vehicle.

BEGIN CALIBRATION

Pairing with mobile device

Pairing complete

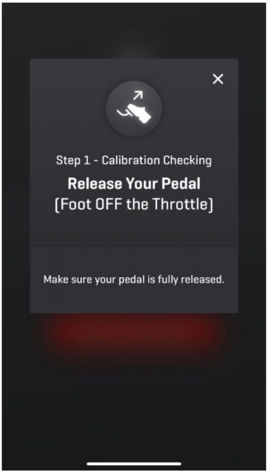
Pedal calibration


Step 1 - Calibration Checking

Depress Your Pedal
[Wide Open Throttle]

Make sure the pedal is fully pushed to the floor.

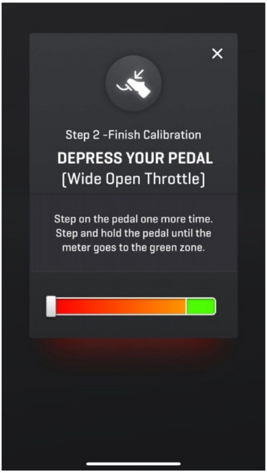
Pedal calibration


Step 1 - Calibration Checking

Release Your Pedal
[Foot OFF the Throttle]

Make sure your pedal is fully released.

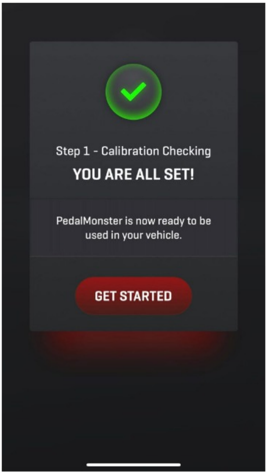
Pedal calibration


Step 2 -Finish Calibration

DEPRESS YOUR PEDAL
[Wide Open Throttle]

Step on the pedal one more time. Step and hold the pedal until the meter goes to the green zone.

Pedal calibration


Step 1 - Calibration Checking

YOU ARE ALL SET!

PedalMonster is now ready to be used in your vehicle.

GET STARTED

Pedal calibration complete

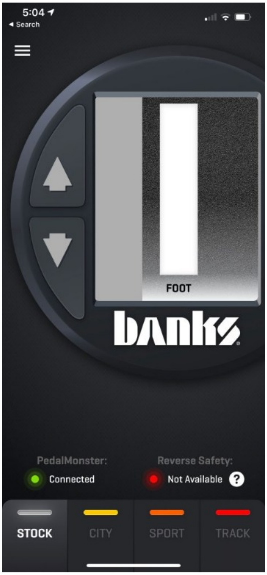
Mobile App Explained

When the “Connected” light is green, the PedalMonster app is communicating with the PedalMonster module. Starting with City mode, PedalMonster increases throttle sensitivity. It recommended to begin in City mode and increase sensitivity using the up and down arrows.

NOTE: To change modes, increase or decrease sensitivity levels, you must release the pedal completely. The same is true when controlling the PedalMonster via iDash.

The bar graph on the left (FOOT) displays actual pedal position. The bar graph on the right (BANKS) displays commanded pedal position. As sensitivity is increased, the disparity between the graphs will grow.

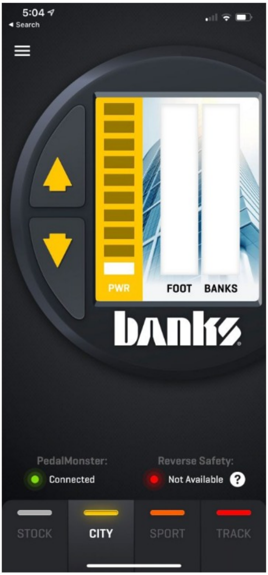
If the mobile app is disconnected from the PedalMonster module, an on-screen message will prompt you to reconnect.


5:04
Search
FOOT
banks
STOCK
CITY
SPORT
TRACK

PedalMonster: Connected

Reverse Safety: Not Available

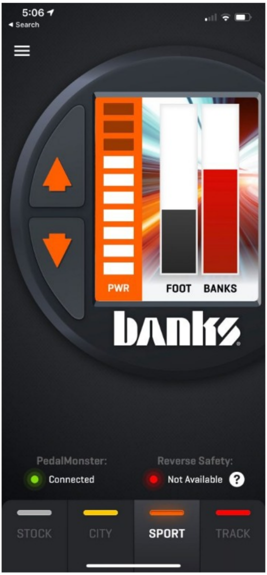
Stock pedal


5:04
Search
PWR
FOOT
BANKS
banks
STOCK
CITY
SPORT
TRACK

PedalMonster: Connected

Reverse Safety: Not Available

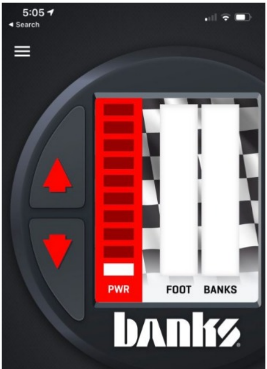
City

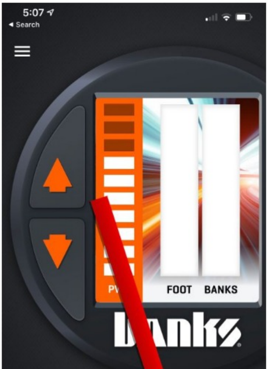

5:06
Search
PWR
FOOT
BANKS
banks
STOCK
CITY
SPORT
TRACK

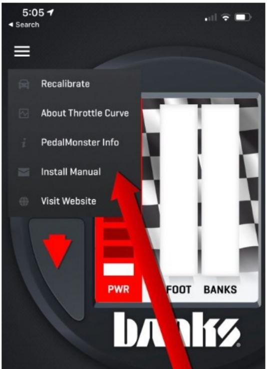
PedalMonster: Connected

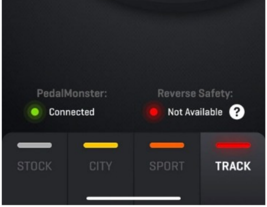
Reverse Safety: Not Available

Sport


5:05
Search
PWR
FOOT
BANKS
banks


5:07
Search
PWR
FOOT
BANKS
banks


5:05
Search
Recalibrate
About Throttle Curve
PedalMonster Info
Install Manual
Visit Website
PWR
FOOT
BANKS
banks

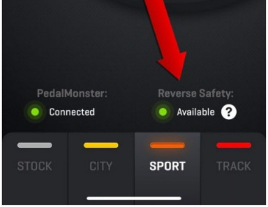


PedalMonster: Connected

Reverse Safety: Not Available

?
STOCK
CITY
SPORT
TRACK

Track

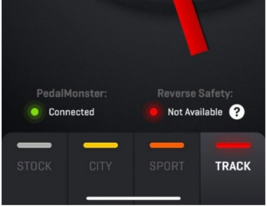


PedalMonster: Connected

Reverse Safety: Available

?
STOCK
CITY
SPORT
TRACK

Reverse Safety Active



PedalMonster: Connected

Reverse Safety: Not Available

?
STOCK
CITY
SPORT
TRACK

Drop-down menu

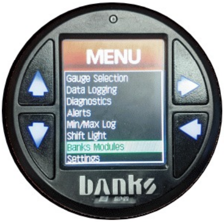
PedalMonster increases pedal sensitivity in ten increments beginning with City level 1 being the least sensitive and Track level 10 being the most sensitive.

PedalMonster adjusts for slow speed maneuvering such as around parking lot for improved drive-ability and quickly ramps up sensitivity as the vehicle gets moving.

PedalMonster can sense reverse gear, returning the pedal to stock. The availability of this function varies from vehicle to vehicle. A green light will indicate when this function is available in your vehicle.

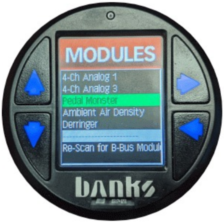
Section 5: PedalMonster Settings

SETTING via iDASH



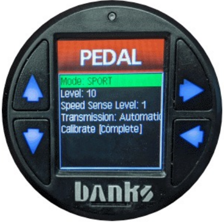
MENU
Gauge Selection
Data Logging
Diagnostics
Alerts
Min/Max Log
Shift Light
Banks Modules
Settings
banks

Press RIGHT ARROW to enter MENU.
Scroll Down to BANKS MODULES and
press RIGHT ARROW to confirm selection



MODULES
4-Ch Analog 1
4-Ch Analog 3
Pedal Monster
Ambient Air Density
Derringer
Re-Scan for B-Bus Modul
banks

Scroll to Pedal Monster and press RIGHT
ARROW to confirm selection



Mode: SPORT
Level: 10
Speed Sense Level: 1
Transmission: Automati
Calibrate [Complete]

PedalMonster Settings

MODE SELECTION

The available selections are STOCK, CITY, SPORT, and TRACK. STOCK mode will retain factory pedal sensitivity.

CITY mode has a mild sensitivity increase across the pedal travel. TRACK mode has the most aggressive increase.

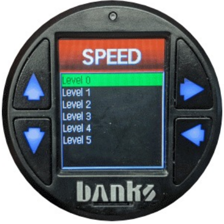
MODE
STOCK
CITY
SPORT
TRACK

LEVEL SELECTION

Each mode has 10 incremental levels

LEVEL
Level 4
Level 5
Level 6
Level 7
Level 8
Level 9
Level 10

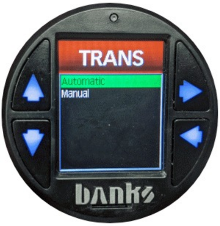
SPEED-BASED TRIM


SPEED
Level 0
Level 1
Level 2
Level 3
Level 4
Level 5
banks

SPEED-BASED TRIM sets the gain based on vehicle speed input. This allows for minimal increase in pedal sensitivity when in low speed (

Tip: You can utilize more aggressive MODE and higher LEVEL as you increase the SPEED-BASED TRIM Level.

TRANSMISSION SETTING

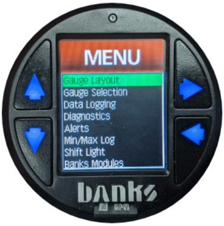

TRANS
Automatic
Manual
banks

Choose between manual or automatic transmission.

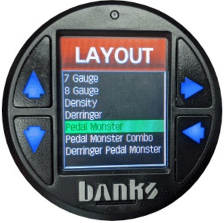
MANUAL transmission setting offers reduced pedal boosting in the 0-20% of the pedal travel compared to the AUTOMATIC. This is to improve the drive-ability during clutch engagement in manual transmission vehicles.

Tip: Automatic transmission vehicles can opt to use the MANUAL setting as it offers different characteristic and some users might find it more suitable.

Section 6: PedalMonster Gauge Layout

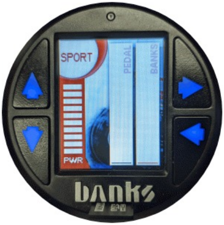

MENU
Gauge Layout
Gauge Selection
Data Logging
Diagnostics
Alerts
Min/Max Log
Shift Light
Banks Modules
banks

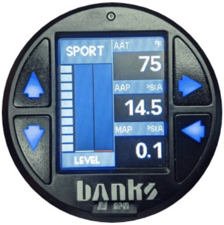
Press RIGHT ARROW to enter MENU, and select GAUGE LAYOUT


LAYOUT
7 Gauge
8 Gauge
Density
Derringer
Pedal Monster
Pedal Monster Combo
Derringer Pedal Monster
banks

Available Gauge Layouts – Pedal Monster, Pedal Monster Combo, and Derringer Pedal Monster (if used with Derringer)

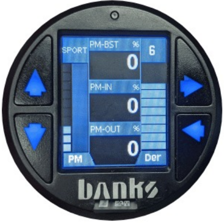
Using PedalMonster and PedalMonster Combo Layout


SPORT
PEDAL
BANKS
PWR
banks

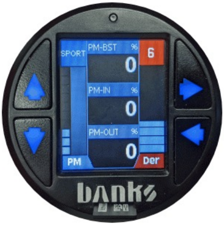

SPORT
AAT
°F
75
AAP
PSIA
14.5
MAP
PSIA
0.1
LEVEL
banks

Press UP / DOWN ARROWS to increase or decrease levels. Pressing UP on Level 10 or STOCK will roll over to next Mode. Likewise, pressing DOWN at Level 1 will go to previous Mode.

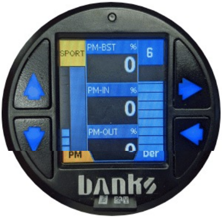
Using PedalMonster Derringer Combo Layout


SPORT
PM-BST %
6
0
PM-IN %
0
PM-OUT %
0
PM
Der
banks

By default, Pressing UP / DOWN in Derringer PedalMonster Layout will change PedalMonster Level.


SPORT
PM-BST %
6
0
PM-IN %
0
PM-OUT %
0
PM
Der
banks

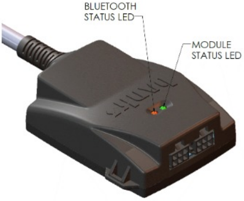
Press LEFT ARROW to highlight Derringer Level. Press UP / DOWN to change Derringer level.


SPORT
PM-BST %
6
0
PM-IN %
0
PM-OUT %
0
PM
Der
banks

Press LEFT ARROW to highlight PedalMonster Setting. Press UP / DOWN to change PedalMonster Level. Pressing UP on Level 10 or STOCK will roll over to next Mode. Likewise, pressing DOWN at Level 1 will go to previous Mode.

Section 7: Troubleshooting

PEDALMONSTER STATUS LED


BLUETOOTH STATUS LED
MODULE STATUS LED

Bluetooth Status LED

The Bluetooth Status LED will flash ORANGE when the module is not paired. It will flash GREEN when paired with a device.

Module Status LED

When faults are detected, Module Status LED will flash a diagnostic code. Diagnostic codes are comprised of 2 digits. Each digit is expressed by the flashing RED LED.

A code can be determined by counting the number of RED flashes displayed before the LED flashes GREEN for the first digit and the number of RED flashes after the LED flashes GREEN for the second digit. After the diagnostic code is displayed, additional codes will be displayed in sequence, separated by 4 seconds with the LED off. Once you have written down all diagnostic codes being displayed, consult the following tables for a description of code along with the action to be taken.

Fault codes can be also displayed via iDash or PedalMonster app.

MODULE STATUS ERROR CODE

Code	*Event*	*Course of Action*
1,1	APP1 Input Voltage Out of Range	Check PedalMonster connection at the vehicle pedal. Ensure the connectors are correctly seated
1,2	APP2 Input Voltage Out of Range	Check PedalMonster connection at the vehicle pedal. Ensure the connectors are correctly seated
1,3	APP Input Voltage Correlation Fault	Re-initiate PedalMonster calibration process
2,1	APP1 Output Voltage Out of Range	Check PedalMonster connection at the vehicle pedal harness. Ensure the connectors are correctly seated
2,2	App2 Output Voltage Out of Range	Check PedalMonster connection at the vehicle pedal harness. Ensure the connectors are correctly seated
3,4	OBDII CAN Communication Error	Check connection at the 4 to 6-pin OBD Adapter from the PedalMonster and to the OBDII Cable. Ensure connector pins are not damaged and properly seated. Double check OBDII Cable is firmly seated in the vehicle's OBDII Port
3,5	BBus CAN Communication Error	Check connection at the Banks Bus Cable from the PedalMonster to iDash. Ensure the connectors are properly seated

Vehicle Troubleshooting Guide

Issue	*Possible Cause*	*Suggested Action*
Check Engine Light is on after PedalMonster Installation	1. Vehicle system was powered on during the installation process	Read and note the DTC with a diagnostic tool. Reset check engine light. If the Check Engine Light fails to clear, remove PedalMonster Module. Clear Check Engine Light and verify that the DTC code has been cleared. Re-install following the installation process. Ensure the vehicle is powered down and system is asleep (see Installation Section 2 / Step 1) during the installation process
	2. PedalMonster module connectors are not securely fastened	
	3. PedalMonster is installed on a non-supported platform	Contact Banks Power Tech Support

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