



**advanced FLOW engineering**

**Instruction Manual** P/N: 77-82009 SCORCHER BLUE Bluetooth Power Module

Make: **RAM** Model: **2500/3500HD** Year: **2013-2018** Engine: **L6-6.7L (td) Cummins**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Disconnect the negative battery terminal before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A	1	Module	R77-82009
B	1	LED Switch	05-70029
C	1	Bypass Plug	05-70017
D	1	Harness	AFE-10-116
E	2	Velcro (2 Inches)	05-01244
F	5	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001





# SLEEP MODE

**Figure A**

## **Refer to Figure A for Step 1.**

Step 1: Before installing the aFe POWER Module you must place your vehicle's ECU in sleep mode. In order to place your vehicles ECU in sleep mode you will need to do the following:

- If the engine is cold, open the hood, close the doors, lock the car and wait 30 seconds
- If the engine is warm, open the hood, close the doors, lock the car and wait 20 minutes
- If the engine is warm and you can't wait 20 minutes, disconnect the battery



**Do NOT open the doors or start the vehicle when one of the sensor is disconnected. This could create a check engine light.**



Figure B

**Refer to Figure B for Steps 2-3.**

Step 2: Locate the MAP sensor. The MAP sensor is on the firewall side of the intake manifold and the connector is gray.

Step 3: Locate the injector plug connectors. These are the 2 connectors that are next to the engine valve covers, and have long light blue connectors.

**Figure C****Refer to Figures C for Steps 4-5.**

Step 4: Locate and disconnect the MAP sensor connector, by pressing down on the locking tab and sliding it out of the sensor.

Step 5: Locate the MAP sensor jumper harness on the aFe POWER harness. This is the longer jumper harness with gray connectors. Plug the female connector of the aFe POWER harness into the MAP sensor, then take the male connector of the aFe POWER harness and connect to the female connector of the engine harness.



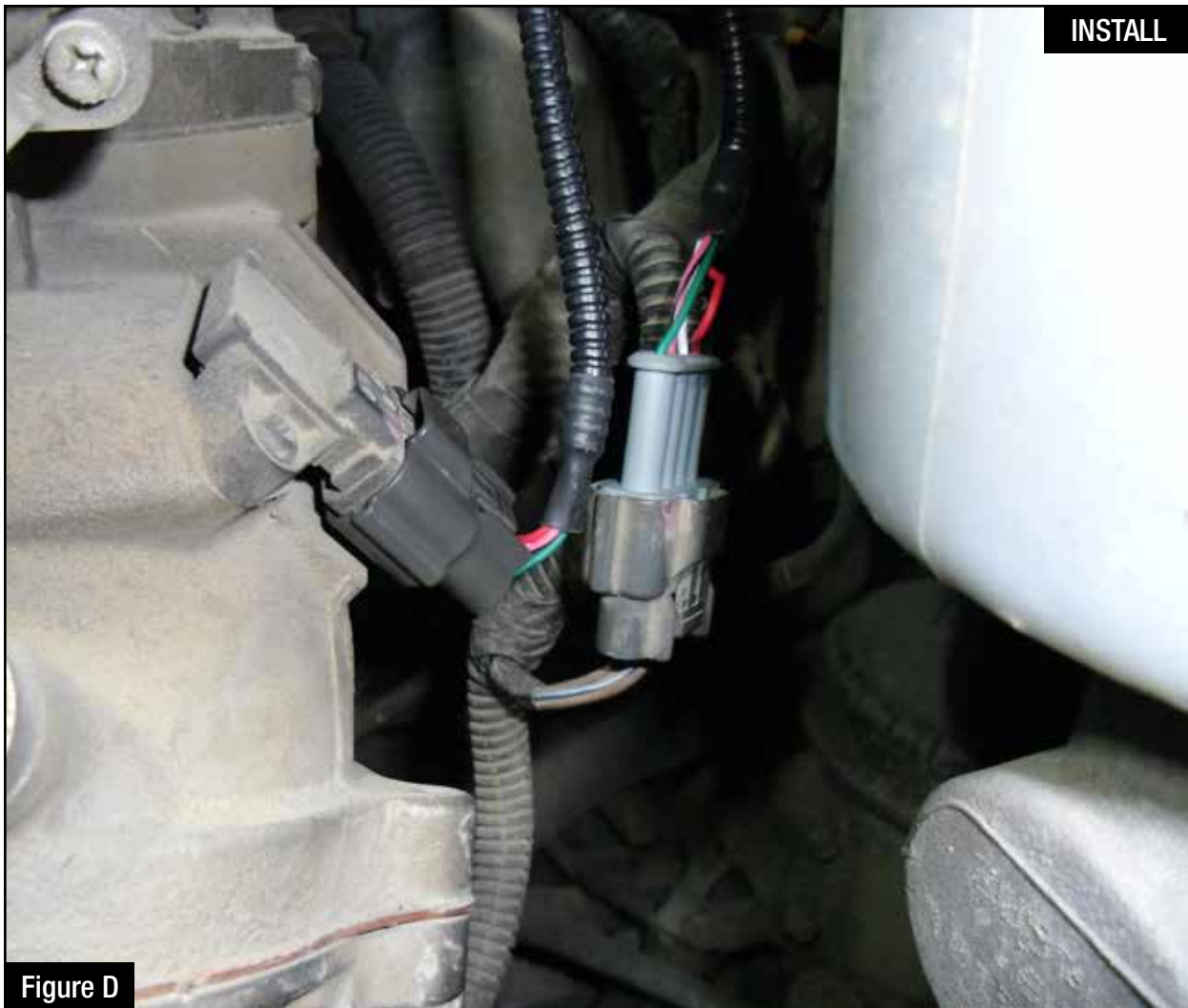


Figure D

**Refer to Figure D for Step 6.**

Step 6: Check with the picture to make sure the connectors are correctly connected.



**Make sure connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.**

**Figure E****Refer to Figure E for Steps 7-8.**

- Step 7: Locate and disconnect the front injector connector. Release the connector by sliding a small flathead screwdriver to press and hold down the locking tab, and then wiggle the blue half of the connector up and out of the black half.
- Step 8: Locate the front injector plug jumper harness on the aFe module. This is the harness labeled "engine fan." Plug the female connector of the module into the stock injector plug connector, then take the male connector of the module and connect to the female connector of the engine harness.





Figure F

**Refer to Figure F for Step 9.**

Step 9: Check with the picture to make sure the connectors are correctly connected.



**Note: Make sure connections are fully engaged and not reversed. Usually, connectors make a snapping sound when fully engaged.**

**Figure G****Refer to Figure G for Steps 10-12.**

- Step 10: Locate and disconnect the rear injector connector. The process is the same as the front connector, but you may have to move the foam insulation to help access this connector.
- Step 11: Locate the rear injector plug jumper harness on the aFe module. This is the harness labeled “flywheel.” Plug the female connector of the module into the stock injector plug connector, then take the male connector of the module and connect to the female connector of the engine harness.
- Step 12: Check with the picture to make sure the connectors are correctly connected.

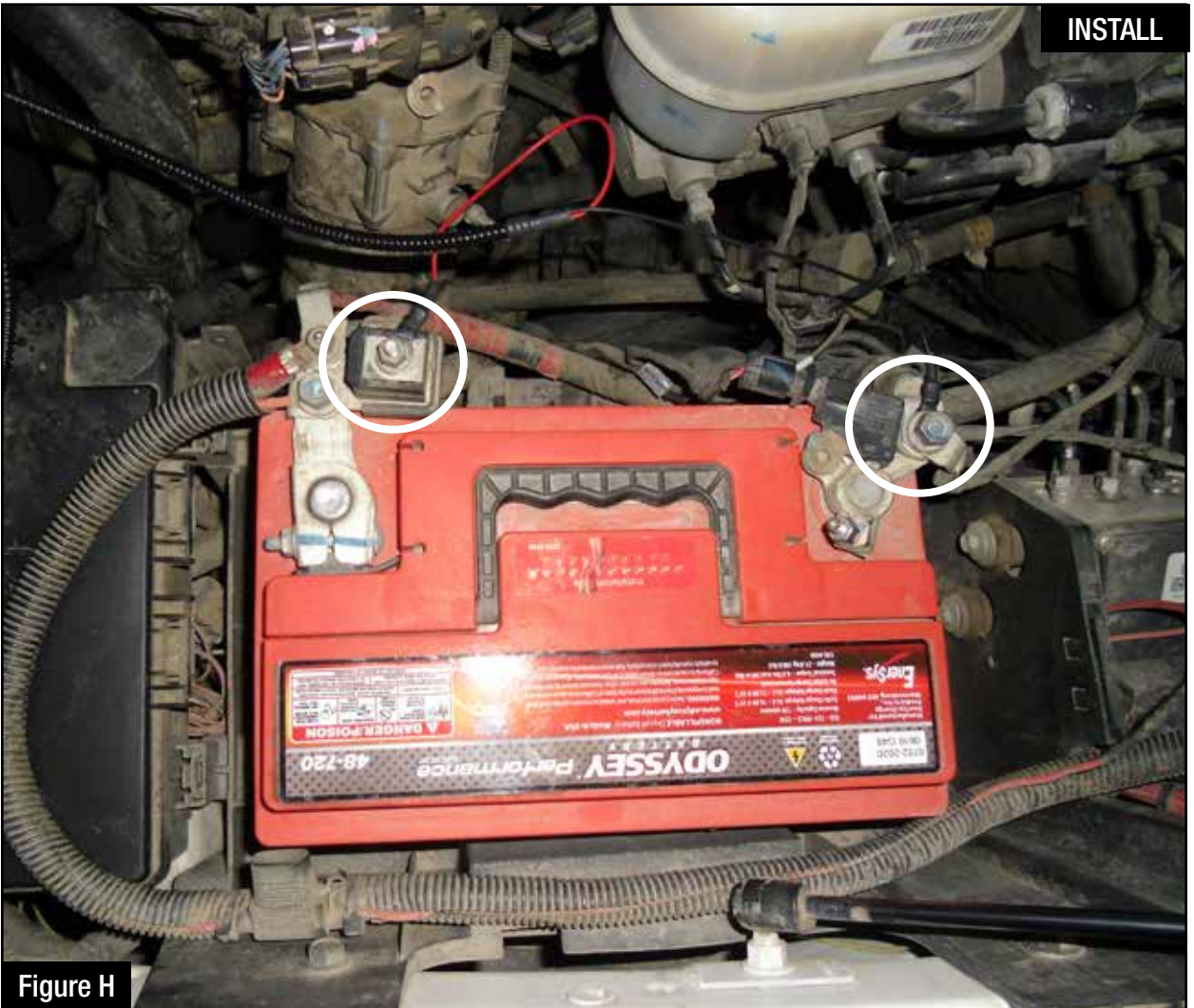


Figure H

**Refer to Figure H for Steps 13-14.**

Step 13: Connect the black ground terminal cable on the aFe module to the negative battery post by removing the 13mm nut, placing the terminal and reinstalling the nut.

Step 14: Connect the red power terminal cable on the aFe module to the positive battery post by removing the 10mm nut, placing the terminal and reinstalling the nut.



**Figure I****Refer to Figure I for Steps 15-16.**

Step 15: Secure the Scorch Blue module on top of the fuse box near the battery, or any other desired location using the Velcro provided. The module must be located within reach of the LED switch harness if being used.

Step 16: Connect the Scorch Blue module to the harness. Make sure the connector is fully engaged



**Note: The doors of the vehicle can now be opened to proceed with the installation of the switch.**



Figure J

**Refer to Figure J for Steps 17-18.**

**The installation of the LED switch in the cabin is optional.**

Step 17: Select the desired location of the LED switch. Route the cable on the back of the switch to exit toward the top or bottom.

Step 18: Use the provided double sided tape to secure the LED switch in the desired location.



**Figure K****Refer to Figure K for Steps 19-20.**

Step 19: Carefully route the switch cable behind steering wheel cover or cabin trim cover.

Step 20: Route the switch cable through firewall and into the engine bay. Follow the main harness through the grommet into the firewall.



Figure L

**Refer to Figure L for Steps 21-22.**

Step 21: Plug the end of the switch cable to the harness inside the engine compartment.

Step 22: Secure the wires away from any extreme heat and moving parts with the provided ties. Make sure all connections are secured and fully engaged.



**Note:** The installation of the module itself is now completed. Keep regarding the install instruction to learn how to use all its features.



Figure M

**Refer to Figure M.**

**(Picture is for reference)**

The blue LED light will start flashing once the module is connected to the truck and the ECU on. The blue LED will become solid if the module gets connected through Bluetooth to a device.





**Figure N**

**Refer to Figure N (LED Switch).**

When turning on the vehicle, each LED will flash and it will stop at its last setting. The LED on the switch represents the different level of power.

- Green LED: Stock
- Yellow LED: Sport
- Orange LED: Sport+
- Red LED: Race

Use the grey button to select the desired setting. Power adjustments can be done at any moment while the unit is on. The LED switch can be used at the same time of the Bluetooth app.



Figure 0



### **Refer to Figure 0 (app connection - iOS).**

For iOS device, download the app from the apps store. Make sure the Bluetooth is activated on your device. Open the app and it will automatically connect through Bluetooth to the SCORCHER BLUE module when the vehicle and module are on. When connected, the vehicle description will show up on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.



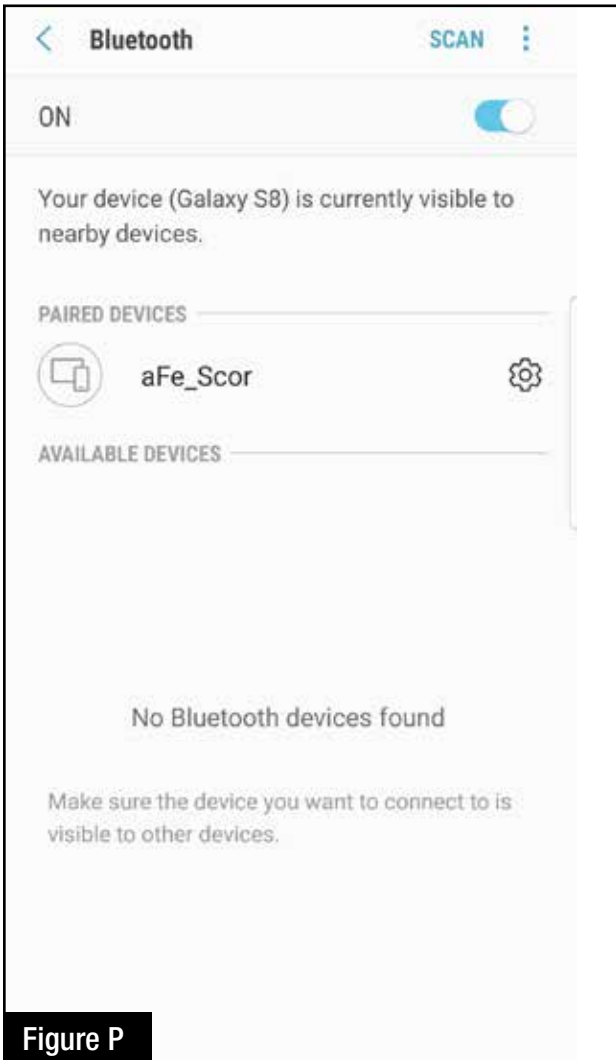
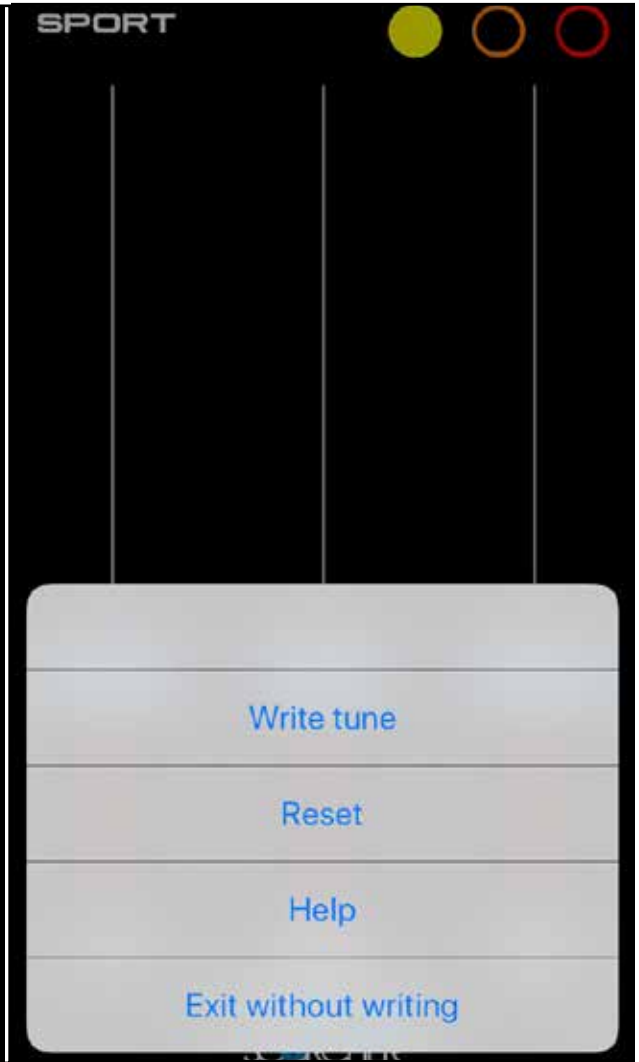
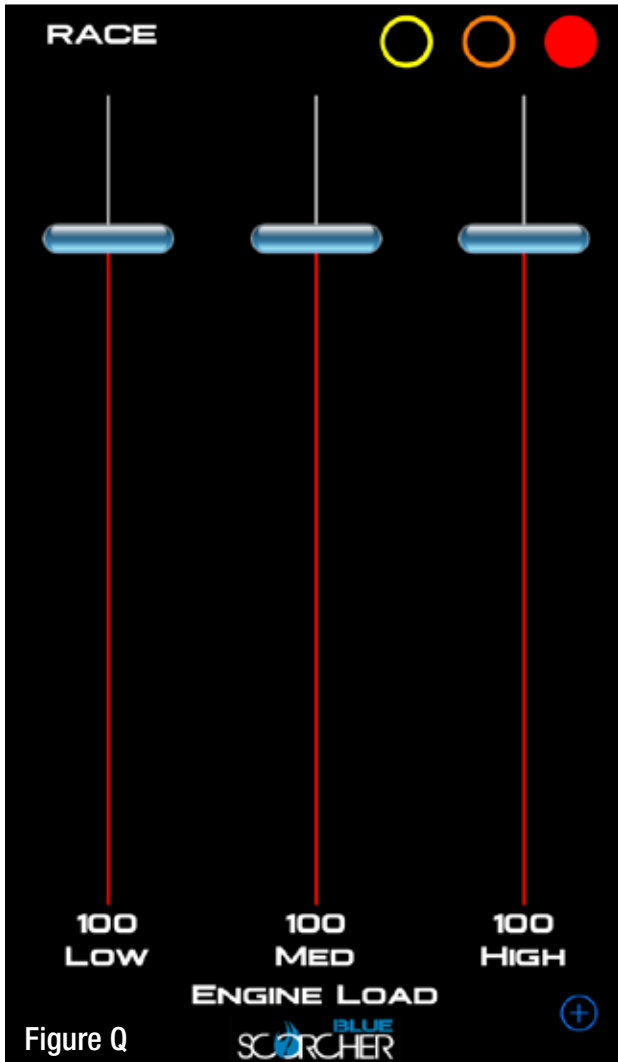


Figure P

**Refer to Figure P (app connection- Android).**

For Android device, download the app from the play store. For the first connection, go to the Bluetooth settings of your device, turn on Bluetooth and scan for available devices. Select “aFe SCOR” and pair with device. The vehicle needs to be on and the module connected. Once shown as paired device, open the app on your device and it will automatically connect to the vehicle. The vehicle description will appear on top of the screen and the gauges will show current data.

The blue LED light on the module will become solid once connected to a Bluetooth device. Simply tap on the green, yellow, orange and red button to switch between the modes.



**Refer to Figure Q (Custom Tuning).**

The aFe POWER SCORCHER BLUE app offers the capability to custom tune the different modes. Go to the menu on the top right corner and select “Tune”. Select the mode you would like to custom tune and adjust the sliders at low, medium and high load. You can either write the tune or exit without writing.



**Disclaimer: Custom tuning should only be performed with the ignition in the “run” position and engine off. Configuring the tunes outside the default values may cause drivability issues and /or check engine lights to occur.**



**Refer to Figure R (Vehicle Performance Screen).**

On the gauges screen, swipe to the left to get to the vehicle performance screen. When the vehicle is not moving, select the test you are wanting to attempt (0-60mph, ¼ mile or mile). The app will automatically detect the movement of the vehicle and the timer will start. Once you reach the speed or distance, the timer will stop. If you select a new mode it will reset and you can start again. If you need to stop the test at any point, hit the cancel button and leave the screen.



**Use the aFe POWER SCORCHER BLUE app responsibly. Always drive safely and obey traffic laws. aFe POWER is not responsible for any accidents, injuries, or property damage that may occur during its use.**



Figure S

**Refer to Figure S (Bypass Plug).**

A bypass plug is included in the kit. The plug can be connected to the harness instead of the module. Once the bypass plug is connected the vehicle will run in factory settings. Make sure the plug is fully engaged when connected to the harness. Thank you for choosing aFe POWER!



**The vehicle needs to be in sleep mode when the module gets disconnected and the bypass plug connected. Wait for the blue LED on the module to stop flashing to make sure the truck is in sleep mode.**

**NOTE: Place enclosed CARB EO sticker on or near the device.  
EO identification label is required to pass the smog test inspection.**

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### OE Replacement Air Filter



P/N: 30-10102 (P5R)  
31-10102 (PDS)

### Cold Air Intake System



P/N: 54-32412 (P5R)  
51-32412 (PDS)

### Momentum HD Air Intake



P/N: 50-72005 (P10R)  
51-72005 (Pro DRY S)

### Sprint Booster V3



P/N: 77-12007

### Intake Manifolds



P/N: 46-10071-1 (Street)  
46-10072 (Race)

### DFS780 Fuel System



P/N: 42-14035 (Full-Time)  
42-14036 (Part-Time)

### Oil Filter



P/N: 44-LF002

### Fuel Filter



P/N: 44-FF016

### Intercooler Tubes



P/N: 46-20134-B

### Intercooler w/ Tubes



P/N: 46-20132-B

### Front Differential Cover



P/N: 46-70042-WL (w/ Oil)  
46-70040 (RAW)

### TB-Back Exhaust System



P/N: 49-42047-1B (Blk. Tip)  
49-42047-1P (Pol. Tip)

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video please go to [aFepower.com](http://aFepower.com).

# Warranty

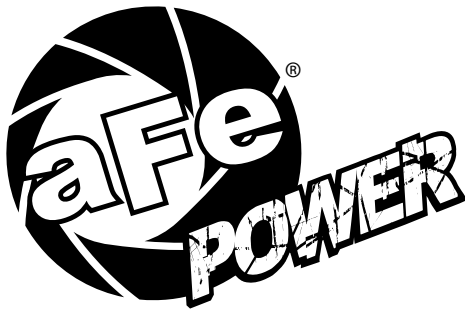
## General Terms:

- aFe warrants their products to be free from manufacturer's defects due to workmanship and material.
- This warranty applies only to the original purchaser of the product and is non-transferrable.
- Proof of purchase of the aFe product is required for all warranty claims.
- Warranty is valid provided aFe instructions for installation and/or cleaning were properly followed.
- Proper maintenance with regular inspections of product is required to insure warranty coverage.
- Damage due to improper installation, abuse, unauthorized repair or alteration is not warranted.
- Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe product is not covered under this warranty.
- All warranty is limited to the repair and/or replacement of the aFe part. To request Return Goods Authorization ("RGA"), email [RGA@afepower.com](mailto:RGA@afepower.com) or call (951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe will either repair or replace the defective product within a reasonable time, not to exceed thirty days.

<b>Product Category</b>	<b>P/N Prefix</b>	<b>Warranty duration</b>
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	21, 24, 72, TF	2 years
Air Intake Systems	50, 51, 54, 55, 75, TR, TA, TL	2 years
Exhaust Systems	49	2 years
Intercoolers & Intercooler Tubes	46-2	2 years
Intake Manifolds	46-1	2 years
Differential Cover	46-7	Life of the vehicle
Exhaust Manifolds	46	2 years
Throttle Body Spacers	46-3	2 years
Fluid Filters	44	90 days
Pre-Filters	28	2 years
Heavy Duty OE Replacement	70	2 years
PowerSports OE Replacement	81, 87	2 years
PowerSports Intake Systems	85	2 years
Tuners	77	1 year

No other warranty expressed or implied applies nor is any person or advanced FLOW engineering authorized to assume any other warranty. Some States do not allow the exclusion or limitation of incidental or consequential damages or do not allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from State to State.





**advanced FLOW engineering, inc.**  
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E-Mail: [Tech@aFepower.com](mailto:Tech@aFepower.com)



# Advanced Gauge Display Monitor

## Instruction Manual P/N: 77-91001



## **DISTRACTED DRIVING AWARENESS:**

**DISTRACTED DRIVING IS UNLAWFUL. ALWAYS DRIVE IN ACCORDANCE WITH TRAFFIC LAWS AND IN A MANNER THAT IS APPROPRIATE AND SAFE FOR ROAD AND TRAFFIC CONDITIONS. ANY INTERACTION WITH THIS DEVICE SHOULD ONLY BE DONE WHILE YOUR MOTOR VEHICLE IS NOT IN MOTION AND IN A LOCATION PERMITTED BY LAW.**

**AFEPOWER IS NOT RESPONSIBLE FOR ANY INJURIES OR PROPERTY DAMAGE THAT MAY OCCUR AS A RESULT OF THE IMPROPER USE OF THIS DEVICE.**

Display  
Monitor



Magnetic  
Base



OBDII  
Plug



Windshield  
Mount



(2x) Cable  
Ties



2m USB Cable  
(To connect magnetic  
base to OBDII Plug)



1m USB Cable  
(To connect screen to  
computer for updates)

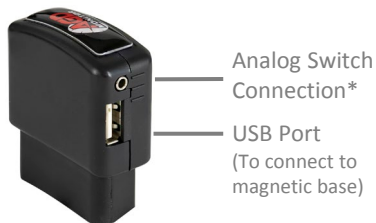




8-Pin Connection



8-Pin Connection



\* All ports may not be used depending on vehicle application and accessories.

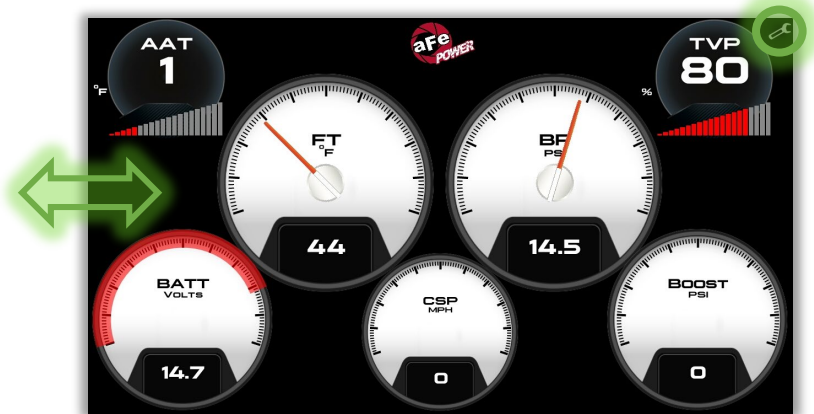
 We recommend to perform the installation while the vehicle is turned off.

1. Install the windshield mount in your desired location. Make sure it will not block or hinder your view in any way while driving.
2. Attach the magnetic base on the windshield mount. Connect the 2m USB cable to the magnetic base's Mini USB port.
3. Place the display monitor on the magnetic base.
4. Locate the OBDII data port under the dash and connect the OBDII plug.
5. Route the 2m USB cable from the magnetic base down to the OBDII plug.
6. Connect the 2m USB cable to the OBDII Plug. If necessary, use the supplied cable ties to secure the cable and to get it out of the way of any possible interference.
7. Verify all connections are secure. The installation of your AGD Monitor is now complete.



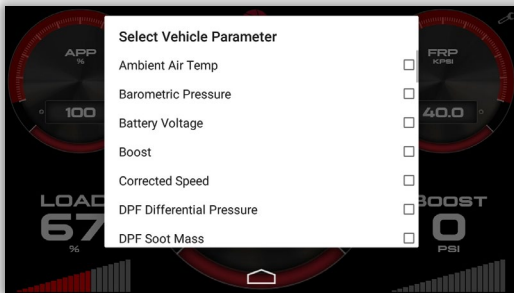
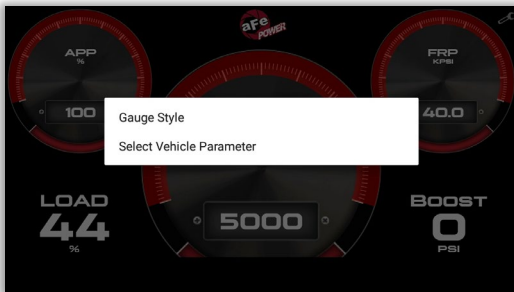
Your new AGD Monitor will turn on once you start your vehicle. The AGD Monitor will check and verify your VIN and then main screen will be displayed.

Tap the top right corner of the screen to access the Options menu.



Swipe left or right anywhere on the screen to change the screen layout.

Touch and hold the gauge you would like to change until the menu pops up, then select either the style or parameter you would like to adjust.

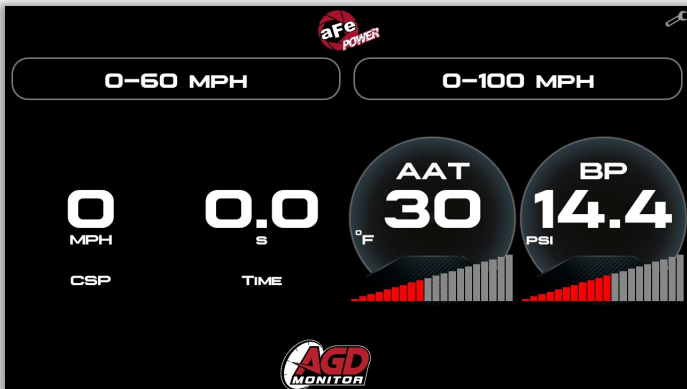


Swipe the screen left or right until you get to the Performance Screen layout.

With the vehicle at a complete stop, select the desired performance test (0 - 60 MPH / 0 - 100 MPH) located at the top of the screen

Once the vehicle starts moving, the test will start automatically and will stop once the target speed is reached.

(The two gauges on the right of the screen may be changed to show the desired vehicle parameters.)







Swipe the screen left or right until you get to the Driving Coach Screen layout.

The Driving Coach Screen will display your instantaneous fuel mileage so you can monitor your driving style to help maximize your fuel mileage.

(The three gauges at the bottom can be changed to show desired vehicle parameters.)

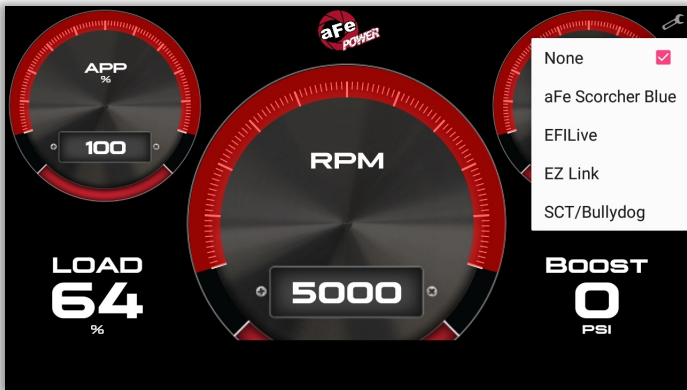


The Driving Coach Screen is only available on select vehicles.



## aFe Scorcher Blue and Third Party Tuners

Go to the Options menu and select Switch Setup. Select the aFe Scorcher Blue or the third-party tuner you have installed on your vehicle.



Note: Any tuner that needs to be wired into the ECM or sensors will still need to be connected with our adjustable switch cable (sold separately).

77-90006: aFe switch cable for EFILive - GM Diesel Truck 07.5-10 LMM

77-90007: aFe switch cable for EFILive - GM Diesel Truck 11-16 LML

Go to Options menu and select the Tire Size Calibrator (this will allow you to adjust your speedometer to read correctly when you are running different tire sizes).

Input the stock tire size that came on your vehicle, then input the new tire size. Once complete, tap the Confirm button.

The vehicle parameter “Corrected Speed” will now display your actual vehicle speed, while “Vehicle Speed” will show the uncorrected speed.”

A screenshot of the "Tire Size Calibrator" interface. The title "Tire Size Calibrator" is at the top. On the left is the "AGD MONITOR" logo. The main area contains two input sections: "Stock Tire Size" with the value "235 / 65 R15" and "New Tire Size" with the value "255 / 70 R17". Below these is an example "(EX: 315 / 75 R 16)". On the right side, there are three buttons: "Confirm", "Cancel", and "Units".

Tire Size Calibrator

AGD MONITOR

Stock Tire Size  
235 / 65 R15

New Tire Size  
255 / 70 R17

(EX: 315 / 75 R 16)

Confirm

Cancel

Units



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### **What should I do if my AGD will not power on?**

- Verify all connections, including the connection of the Display Monitor to the Magnetic Base as well as the OBDII Plug to the vehicle.

### **What should I do if my AGD stops working or if the display goes black?**

- Reboot the Display Monitor by pressing and holding the Power Button for three (3) seconds.

### **What should I do if my AGD powers off all of a sudden?**

- Verify all connections then reboot the Display Monitor by pressing and holding the Power Button for three (3) seconds.

### **What should I do if my AGD is stuck polling for my VIN?**

- Pull the Monitor off the magnetic base and reconnect.
- Verify connection to the USB cable.
- Disconnect OBDII Plug and connect again.

### **What should I do if a gauge becomes frozen?**

- Swipe left or right on the screen and go back to the original screen layout. The screen should reconnect.

For Tech Support

Call 812-518-1220 (8am – 5pm CST)

Or Email [Tech@afepower.com](mailto:Tech@afepower.com) (if possible, include photos or videos)





aFe POWER warrants the included hardware product and accessories against defects in materials and workmanship for one year from the date of original retail purchase. This warranty applies only to the original purchaser of the product and is non-transferrable. Proof of purchase of the aFe POWER product is required for all warranty claims. Warranty is valid provided aFe POWER instructions for installation and/or cleaning were properly followed. Proper maintenance with regular inspections of product is required to insure warranty coverage. Damage due to improper installation, failure to provide proper care and maintenance, accident, abuse, misuse, normal wear and tear, unauthorized repair or alteration is not warranted.

Additionally, Incidental or consequential damages or cost, including installation and removal of part, incurred due to failure of aFe POWER product is not covered under this warranty. All warranty is limited to the repair and/or replacement of the aFe POWER product. Incidental or consequential damage means any loss, expense, or other damage that cannot be remedied by either repairing any defect in the aFe POWER product or by replacing the aFe POWER product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. Furthermore, no individual or entity other than aFe POWER possesses the authority to alter the obligations, limitations, disclaimers, or exclusions under this warranty.

To request Return Goods Authorization (“RGA”), contact aFe POWER by completing and submitting the online technical support form at <https://afepower.com/contact/tech-warranty> or call +1(951)493-7100. Upon receipt of the RGA, you must return the product to the address provided in the RGA, freight prepaid and accompanied with a dated proof of purchase and the RGA. Upon receipt of the defective product and upon verification of proof of purchase, aFe POWER will either repair or replace the defective product within a reasonable time, not to exceed thirty days. aFe POWER has the right to deny any warranty believed to be false, altered or purchased through an unauthorized dealer.



**advanced FLOW engineering, inc.**

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