



advanced FLOW engineering

Instruction Manual P/N: 77-84010

Make: **Chevrolet** Model: **Silverado HD** Year: **2017-2018** Engine: **V8-6.6L (td) Duramax (L5P)**
Make: **GMC** Model: **Sierra HD** Year: **2017-2018** Engine: **V8-6.6L (td) Duramax (L5P)**



- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- 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	R77-84010
B	1	LED Switch	05-70013
C	1	Bypass Plug	05-70017
D	1	Harness	AFE-10-130
E	2	Velcro (2 Inches)	05-01244
F	5	Cable Ties	05-60167
G	2	Double Sided Tape	07-90001

Note: Legal in California for use on race vehicles only. The use of this device on vehicles used on public streets or highways is strictly prohibited in California and others states that have adopted California emission regulations.





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.

Step 2: Locate the MAP and Fuel Pressure sensors. The MAP is on top of the intake manifold. The Fuel Pressure sensor is at the end of the fuel rail on the passenger side, under the intake manifold. It is easiest to locate it by looking behind the alternator and down to the left.



Refer to Figures C for Steps 3-4.

- Step 3: Locate, and then disconnect the MAP sensor connector, by sliding back the locking tab then pressing down on the locking tab of the connector and sliding the connector out of the sensor.
- Step 4: Locate the MAP sensor jumper harness on the aFe Power harness. This is the shorter jumper harness and will be labeled MAP. 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. Make sure to lock the gray tab on the aFe harness, by sliding the tab in after the connectors are together.



Figure D

Refer to Figure D for Step 5.

Step 5: Check with the pictures 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.



INSTALL

Figure E

Refer to Figure E for Step 6.

Step 6: Remove the intake tube to gain better access to the fuel pressure sensor.



Figure F

Refer to Figure F for Steps 7-8.

- Step 7: Disconnect the Fuel pressure sensor connector by sliding the red locking tab backwards, then pressing down on the red tab and sliding the connector out of the sensor.
- Step 8: Locate the Fuel Pressure sensor jumper harness on the aFe Power harness. This is the longer harness and will be labeled FUEL. Plug the female connector of the aFe Power harness into the fuel pressure sensor, then the male connector of the aFe Power harness to the female connector of the engine harness. Make sure to lock the gray tab on the aFe harness and the red tab on the OE harness, by sliding the tabs in after the connectors are fully engaged.



Note: The fuel pressure sensor orientation varies; the position of the locking tab may differ from the photo.



Figure G

Refer to Figure G for Step 9.

Step 9: Check with the pictures 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 H

Refer to Figure H for Steps 10-11.

- Step 10: Connect the black ground terminal cable on the aFe module to the negative battery post by removing the 10mm nut and placing the terminal and reconnect the nut.
- Step 11: Connect the red power terminal cable on the aFe module to the positive battery. Start by pulling off the terminal cover, then removing the 10mm nut. Place the terminal and reinstall the nut. Then finally reinstall the terminal cover.

**Figure I****Refer to Figure I for Steps 12-13.**

Step 12: Secure the SCORCHER Blue to the fuse box cover on the driver side 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 13: Connect the SCORCHER 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 14-15.

NOTE: The installation of the LED switch in the cabin is optional.

Step 14: 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 15: Use the provided double-sided tape to secure the LED switch in the desired location.



Refer to Figure K for Step 16.

Step 16: To gain better access to the main firewall grommet, remove the three 10mm nuts securing the fuse box to the firewall. Carefully pull the box off of the mounting studs and let it hang. Do not pull hard on this box, it only needs to drop about 2 inches.

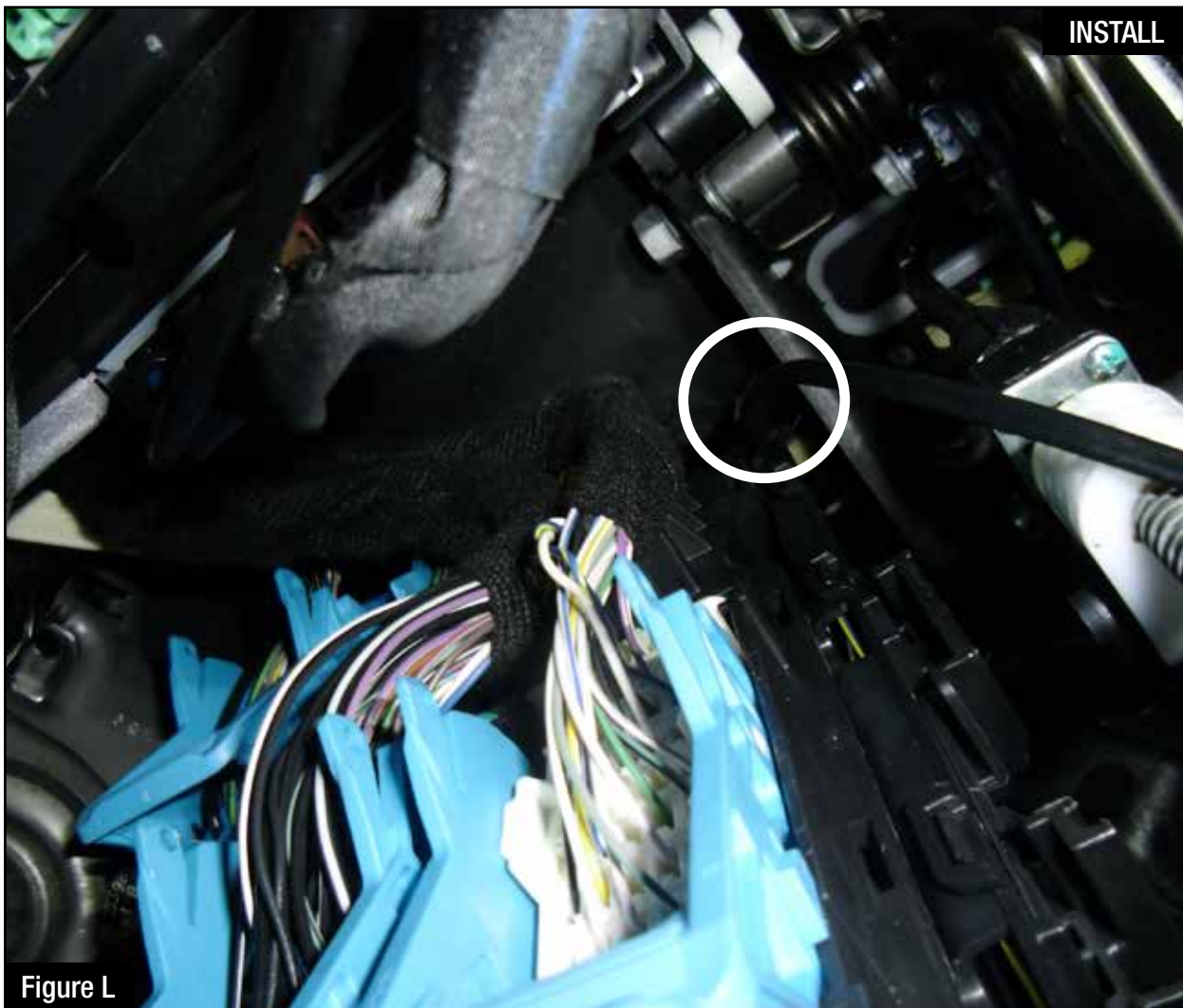


Figure L

Refer to Figure L for Steps 17-18.

- Step 17: Route the switch cable through firewall and into the engine bay. Follow the main harness through the grommet into the firewall.
- Step 18: Reinstall the fuse box on the firewall.



Refer to Figure M for Steps 19-21.

Step 19: Plug the end of the switch cable to the harness inside the engine compartment.

Step 20: Secure the wires away from any extreme heat and moving parts with the provided ties. Make sure all connections are secured and fully engaged.

Step 21: Reinstall the intake tube.

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



Figure N

Refer to Figure N.

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.

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



Figure 0

Refer to Figure 0 (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 P



Refer to Figure P (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.

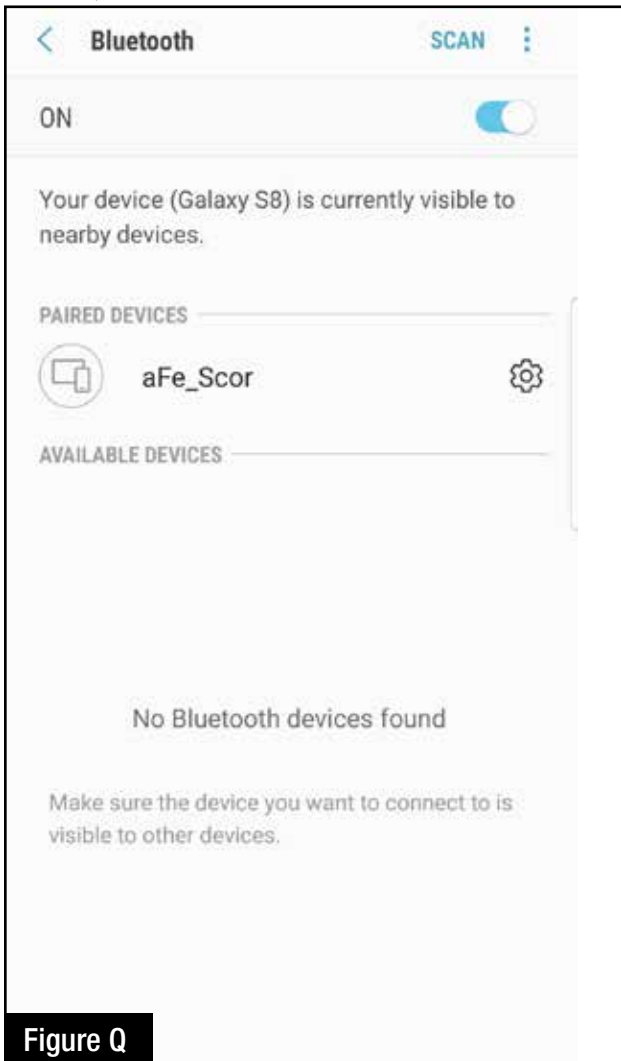


Figure Q

Refer to Figure Q (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.

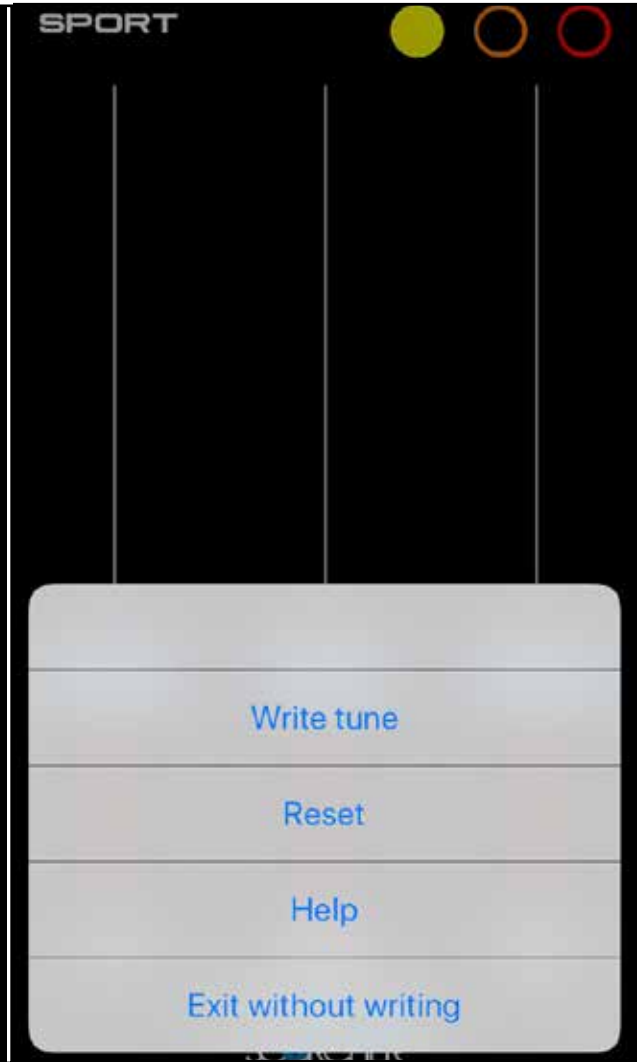
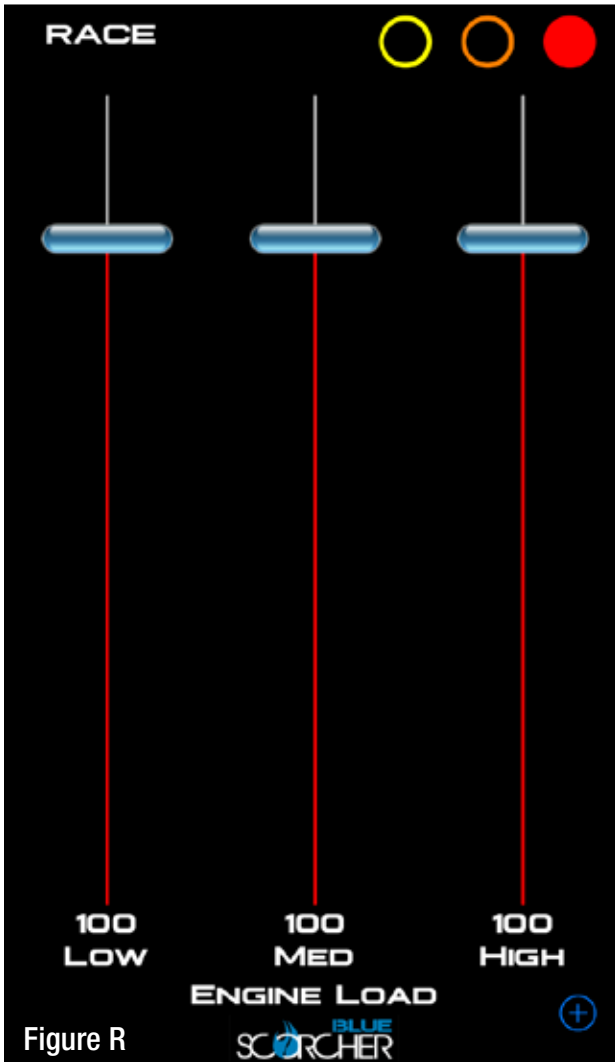


Figure R

Refer to Figure R (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 S (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 T

Refer to Figure T (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.



OE Replacement Air Filter



P/N: 30-10275 (P5R)
31-10275 (PDS)

Momentum Intake System



P/N: 50-74008 (P10R)
51-74008 (PDS)

DP-Back Exhaust System



P/N: 49-44092-B (Blk. Tips)
49-44092-P (Pol. Tips)

Rear Differential Cover



P/N: 46-70012-WL (w/ Oil)
46-70012 (Blk)
46-70010 (RAW)

DP-Back Exhaust System



P/N: 49-04087 (No Tip)

DFS780 Fuel System



P/N: 42-14023 (Full-Time)
42-14024 (Boost)

Sprint Booster V3



P/N: 77-14003

Oil Filter



P/N: 44-LF001

Intercooler Tubes



P/N: 46-20334-B

DPF-Back Exhaust System



P/N: 49-44086-B (Blk. Tips)
49-44086-P (Pol. Tips)

Cold Air Intake System



P/N: 54-12902