



## advanced FLOW engineering

Scorch HD Module

**Instruction Manual** P/N: 77-44009

Make: **Chevrolet** Model: **Colorado** Year: **2016-2019** Engine: **I4-2.8L (td) Duramax (LWN)**

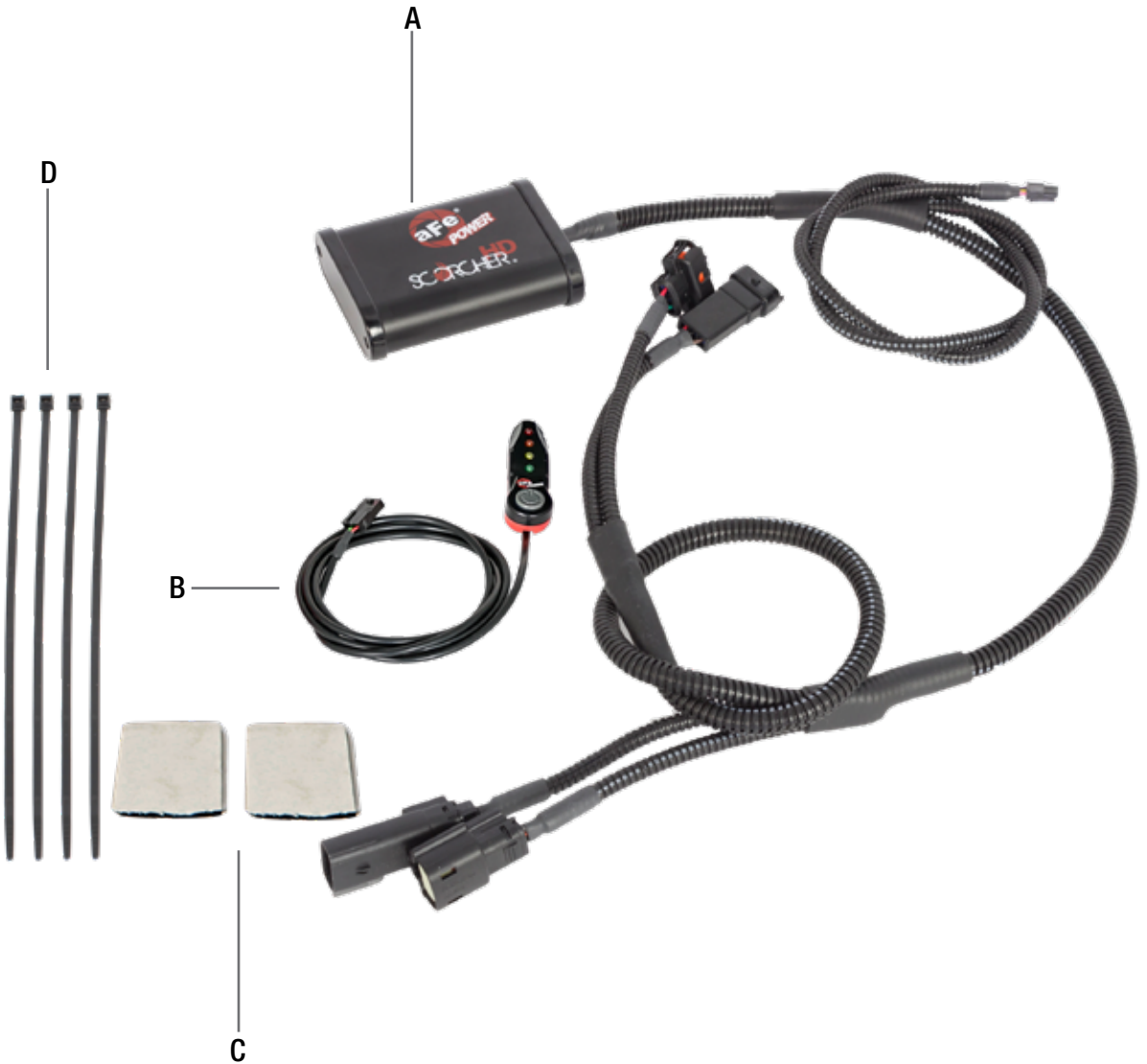
Make: **GMC** Model: **Canyon** Year: **2016-2019** Engine: **I4-2.8L (td) Duramax (LWN)**

**NOTE: Includes Denali Models.**



- 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	R77-44009
B	1	LED Switch	05-70029
C	2	Hook and loop fastener (2 Inches)	05-01244
D	4	Cable Ties	05-60167





# SLEEP MODE

Figure A

## Refer to Figure A for Step 1.

Step 1: Before installing your aFe module, you will have to place your vehicles ECU in sleep mode. In order to do this 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.



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



Figure B

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

Step 2: Remove engine cover and foam insulation on the driver side.

Step 3: Locate the MAP and Fuel Pressure sensor. They are both close to each other located on the passenger side. MAP is located by the engine oil fill in the middle of the fuel rail and throttle body, Fuel pressure is located at the end of the fuel rail close to the fire wall.



**NOTE: To gain more space accessing the sensors, remove the foam insulation on the driver side, reinstall once complete.**

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

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

Step 5: Locate the fuel pressure sensor jumper harness on the aFe module. These connectors are labeled “fuel”. Plug the female connector of the module into the fuel pressure sensor, then take the male connector of the module and connect it to the female connector of the engine harness.



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

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



**NOTE: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.**

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

Step 7: Disconnect the MAP sensor connector, by pressing down on the locking tab and sliding the connector out of the sensor.

Step 8: Locate the MAP sensor jumper harness on the aFe module. This is the large connector. Plug the male connector of the module to the stock map sensor, then the female connector of the module male connector of the engine harness.





Figure F

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

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



**NOTE: Make sure connections are fully engaged. Usually, connectors make a snapping sound when fully engaged.**

**Figure G****Refer to Figure G for Steps 10-11.**

Step 10: 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 11: Mount the Switch on an open, flat surface.



Figure H

**Refer to Figure H for Step 12.**

Step 12: Route the switch cable through firewall and into the engine bay. Follow the main harness through the grommet into the firewall. Plug the end of the cable into the module.



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

Step 13: Mount the module in a safe location, such as on the battery, using the supplied Hook and loop fastener strip. Then, secure the wires and module away from any extreme heat and moving parts, with the provided ties. Make sure all connections are secured and fully engaged.

Step 14: Reinstall the foam insulation and engine cover.

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



Figure J

### Refer to Figure J for Step 15.

Step 11: When turning on the vehicle, the switch will go through the light. 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.

**NOTE: Place enclosed CARB EO sticker on or near the device on a smooth, clean surface.**

**EO identification label is required to pass the smog test inspection.**