



**advanced FLOW engineering**

**Instruction Manual** P/N: 77-44006 SCORCHER HD Module

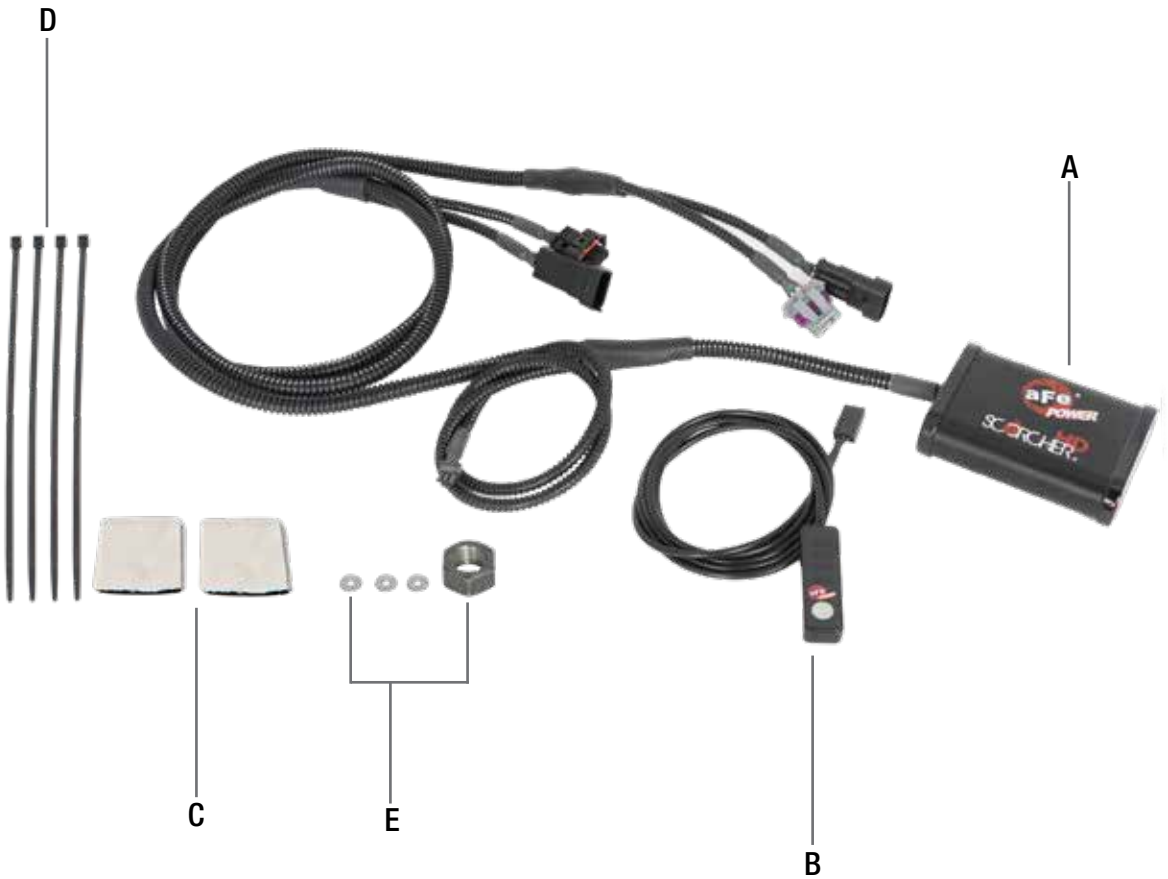
Make: **GM** Model: **Silverado HD/Sierra HD** Year: **2004.5-2010** Engine: **V8-6.6L (td) Duramax (LLY/LBZ/LMM)**



- 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	R77-44006
B	1	LED Switch	05-70005
C	2	Velcro (2 Inches)	05-01244
D	4	Cable Ties	05-60167
E	1	Shim, Kit	03-50504

Warranty Information available at: <https://afepower.com/contact#warranty>





REMOVAL

Figure A

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

Step 1: Locate the MAP ① and Fuel Pressure sensor ②. The Fuel Pressure sensor is located on the passenger side of the engine under the intake tube close to the firewall. The MAP sensor is located on the intake manifold under the EGR.



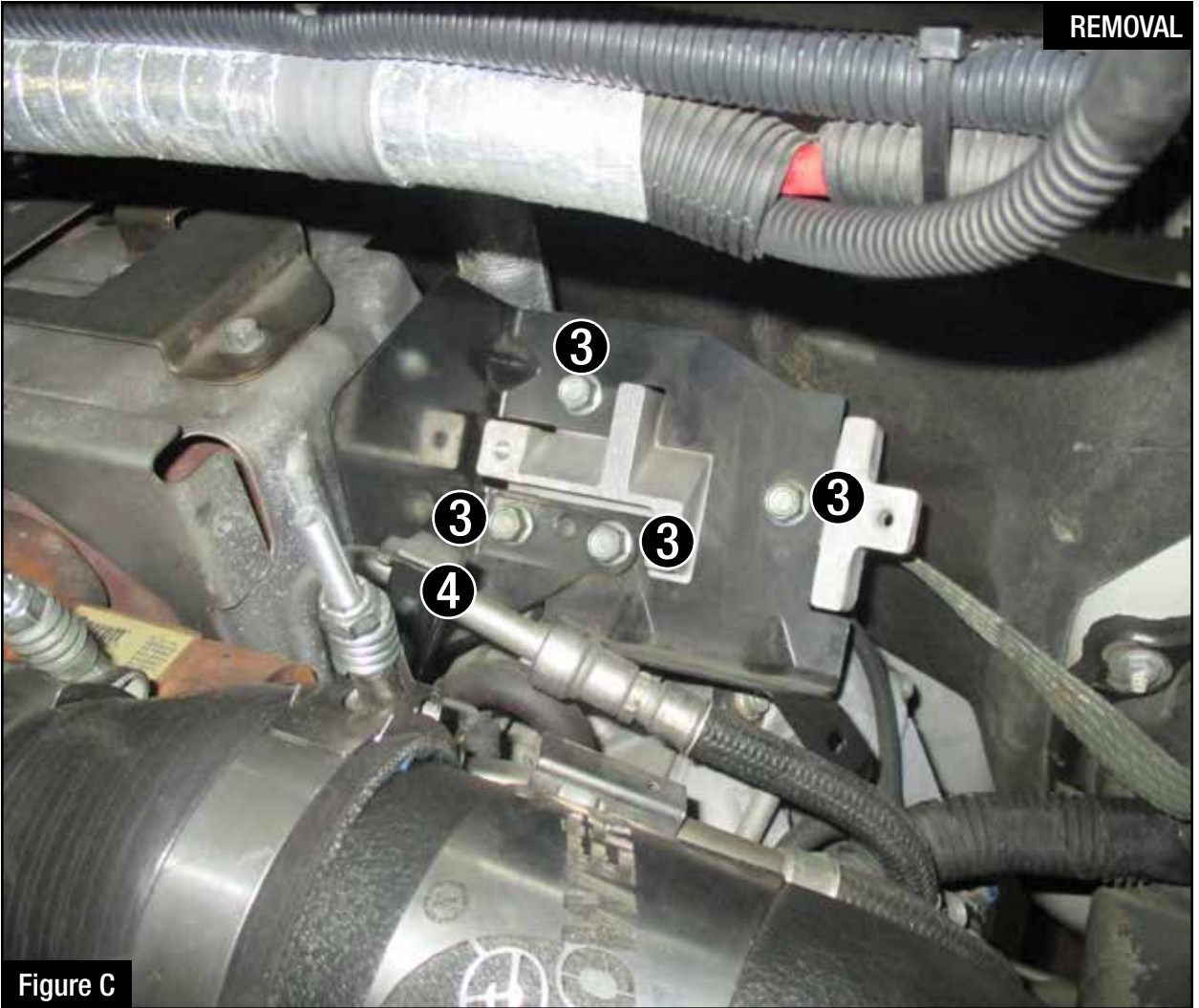
Figure B

**Refer to Figure B for Steps 2-4.**

Step 2: Locate the glow plug controller by the driver side, behind the boost tube.

Step 3: Disconnect the harness and plug connecting to the controller.

Step 4: Remove the two 10mm bolts retaining the controller and remove out of vehicle.

**Figure C****Refer to Figures C for Step 5.**

Step 5: Remove the four bolts (3) on the glow plug controller bracket along with the bracket holding the fuel line (4) and remove out of vehicle.

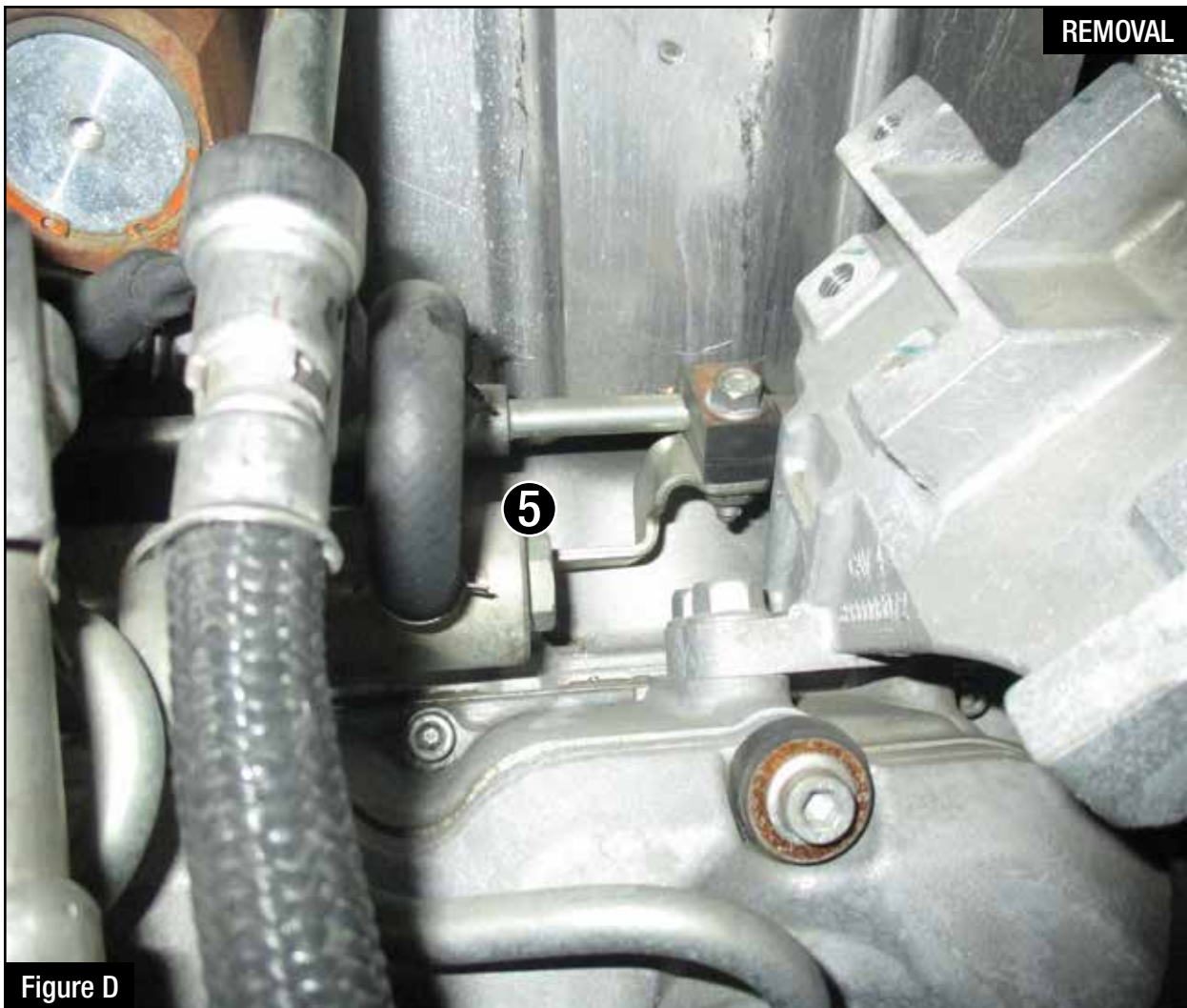


Figure D

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

Step 6: With an 18mm wrench remove the fuel relief valve (5).

**Figure E****Refer to Figure E for Steps 7-9.**

Step 7: Thread the removal tool onto the fuel relief valve.

Step 8: Place the tip of the fuel relive valve on the edge of a vise and tighten.

Step 9: Turn the removal tool clockwise towards the vise to split the fuel relief valve.

**Note: Be cautious and hold the end of the fuel relive valve it is spring loaded and not mixing the components alignment is very important. Locate behind the 3 hole washer is a very small pin that should not be moved or lost, losing it will cause the vehicle to not start.**





Figure F

**Refer to Figure F for Step 10.**

Step 10: Remove the small spring (6) and place the 3 shims in the fuel relief valve and re-insert the spring.

**Figure G****Refer to Figure G for Steps 11-15.**

- Step 11: Assuring no components were lost or misaligned reinsert the tip into the fuel relief valve.
- Step 12: Place the fuel relief valve into the vise and compress back together.
- Step 13: With a small punch re-punch the 3 small indentations securing the tip of the fuel relive valve to the body.
- Step 14: Place the fuel relief valve back into the fuel rail and tighten to 75 ft-lbs of torque, or fuel can leak out.
- Step 15: Refer to steps 6-10 to re-install all the components removed to access the fuel relief valve.
- Note: Using a piece of wood between the tip and the vice will insure the tip does not get damaged.**



Figure H

**Refer to Figure H for Step 16.**

Step 16: Remove the intake air tube out of vehicle to gain access to the fuel rail.



Figure I

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

Step 17: Locate and disconnect the fuel pressure sensor.

Step 18: Locate the fuel pressure sensor jumper harness on the aFe module. This is the shorter harness with a black/orange connectors. Plug the male connector of the module to the stock fuel pressure sensor, then take the female connector of the module and connect to the male connector of the engine harness.

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



Figure J

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

Step 19: Disconnect the MAP sensor.

Step 20: Locate the MAP sensor jumper harness on the aFe module. This is the longer harness with a grey/orange connector. Plug the female connector of the module to the male connector of the engine harness, then the male connector of the module to the stock map sensor of the engine.



Figure K

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

Step 21: Carefully rout the switch behind steering wheel cover.

Step 22: Mount the Switch on an open, flat surface.



Figure L

**Refer to Figure L for Step 23.**

Step 23: 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 to the module.



**Refer to Figure M for Steps 24.**

Step 24: Mount the module in a safe location, using the supplied Velcro 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.





Figure G

### **Refer to Figure G for Step 10.**

Step 10: 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.**



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