



advanced FLOW engineering

Instruction Manual P/N: 77-43014

SCORCHER HD Module

Make: **Ford** Model: **F-250/F-350/F-450/F-550** Year: **2011-2016** Engine: **V8-6.7L (td) Power Stroke**



- 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 | R77-43014 |
| B | 1 | LED Switch | 05-70029 |
| C | 2 | Velcro (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 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 sensors is disconnected.
This could create a check engine light.**

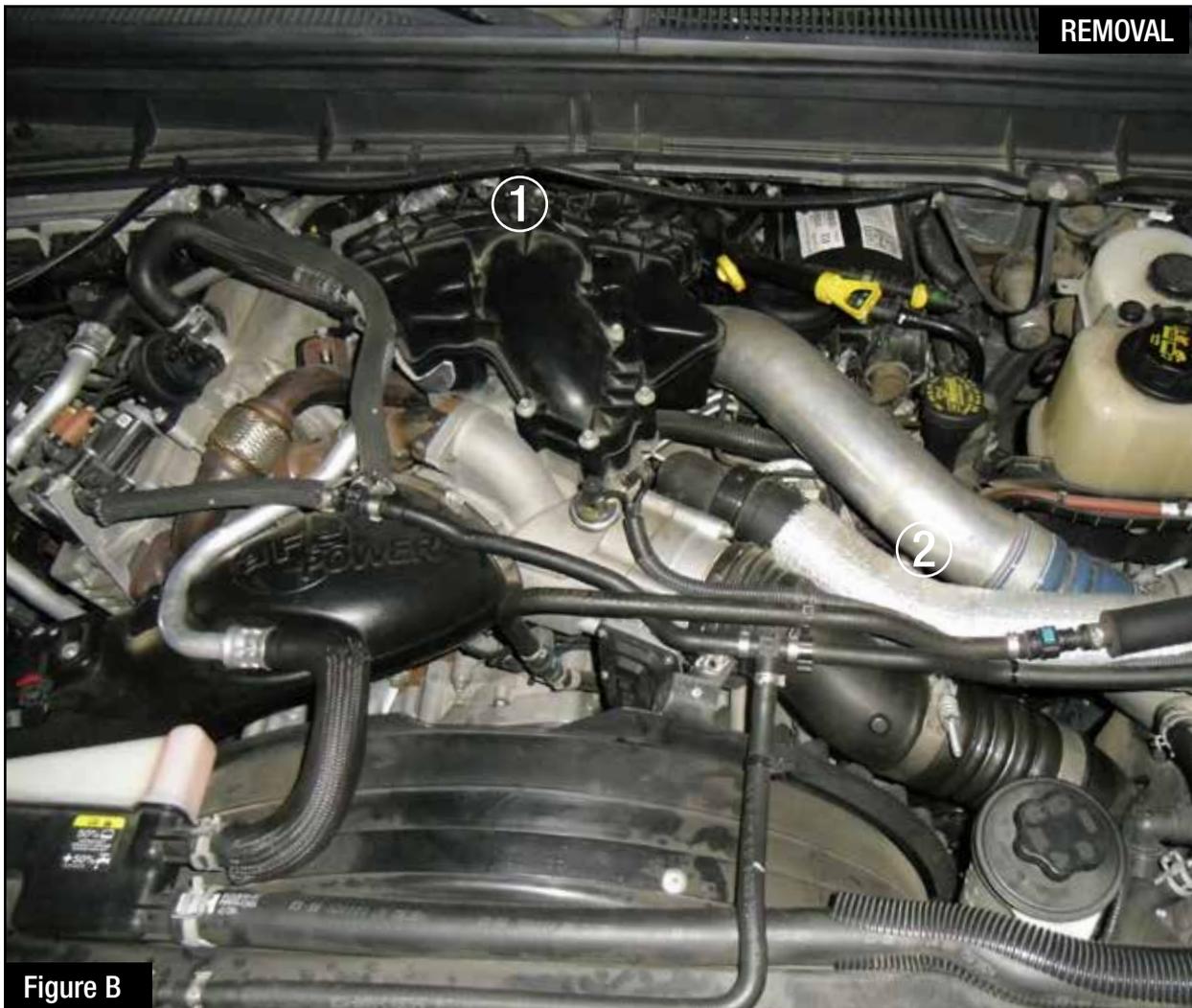
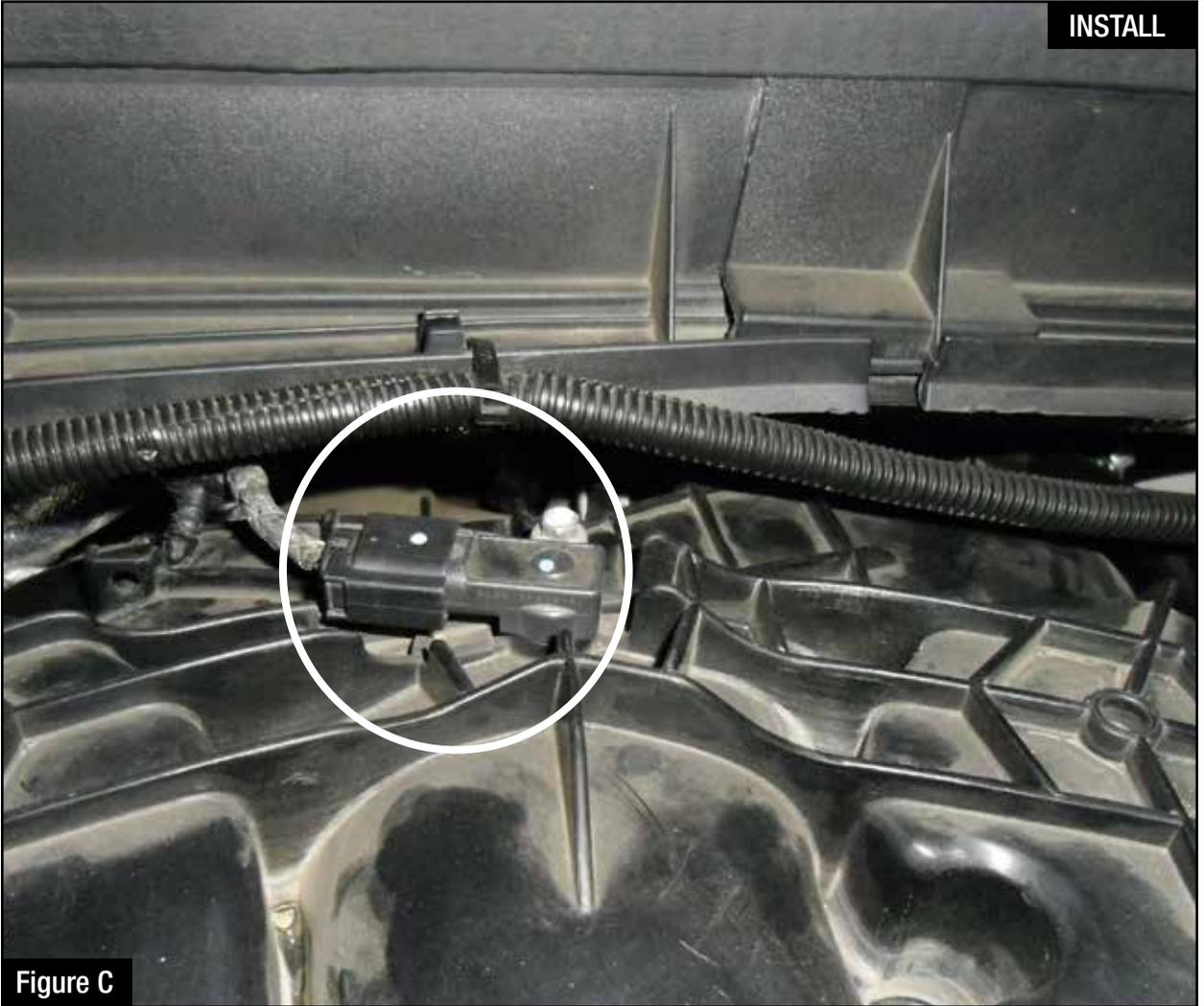


Figure B

Refer to Figure B for Steps 2-3.

Step 2: Locate the MAP sensor (1). The MAP sensor is on the top of the intake manifold near the windshield cowl.

Step 3: Locate the fuel pressure sensor (2). It is below the blue coupling on the intercooler tube, at the end of the common fuel rail. The common fuel rail runs alongside the valve cover on the driver side.

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

Step 4: Locate and disconnect the MAP sensor.

Step 5: Locate the MAP sensor jumper harness on the aFe POWER harness. This is the longer jumper harness with a small rectangular connector. 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.



Refer to Figures 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 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 fuel pressure sensor.

Step 8: Locate the fuel pressure sensor jumper harness on the aFe module. This is the shorter harness with an orange seal on the male connector. Plug the female connector of the module into the fuel pressure sensor, 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 pictures 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 10-11.

Step 10: Select the desired location of the LED switch and route the cable through the top or bottom of the switch.

Step 11: Use the provided double sided tape to secure the LED switch in the desired location.

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

Step 12: Carefully route the switch cable behind steering wheel cover or cabin trim cover.

Step 13: Route the switch cable through firewall and into the engine bay. Follow the main harness through the grommet into the firewall.

**Figure I****Refer to Figure I for Steps 14-16.**

Step 14: Plug the end of the switch cable to the harness inside the engine compartment.

Step 15: Mount the module in a safe location, such as on top of the fuse box, using the provided velcro.

Step 16: Secure the wires away from any extreme heat and moving parts with the provided ties.



Figure J

Refer to Figure J for Step 17.

Step 17: When turning on the vehicle, each LED will flash. 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.

Intercooler Tubes



P/N: 46-20144-B

Front Differential Cover



P/N: 46-70082-WL (w/ Oil)
46-70082 (Blk)
46-70080 (RAW)

Transmission Pan Cover



P/N: 46-70182 (Blk)
46-70180 (RAW)

Rear Differential Cover



P/N: 46-70022-WL (w/ Oil)
46-70022 (Blk)
46-70020 (RAW)

Air Intake System



P/N: 50-73005-1 (P10R)
51-73005-1 (PDS)

Sprint Booster



P/N: 77-13001

Exhaust System



P/N: 49-03066-P (Pol)
49-03066-B (Blk)

Fuel Filter



P/N: 44-FF014

Oil Filter



P/N: 44-LF034

Oil Cap



P/N: 79-12006

Exhaust Race Pipe



P/N: 49-43036

OER Air Filter



P/N: 30-80202 (P5R)
31-80202 (PDS)
73-80202 (PG7)

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video please go to 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 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.

| Product Category | P/N Prefix | Warranty duration |
|----------------------------------|---------------------------------------|--------------------------|
| Direct OE Replacement Filters | 10, 11, 30, 31, 71, 73 | Life of the vehicle |
| Racing Filters | 18 | 1 year |
| Universal | 21, 23, 24, 72,TF | 2 years |
| Air Intake Systems | 50, 51, 53, 54, 55, 75,TR, TA, TL, TM | 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.



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