



**advanced FLOW engineering**

**Instruction Manual** P/N: 46-20319-B

Make: **Ford** Model: **Super Duty F-250/F-350** Year: **2017** 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	Tube, Cold Side	05-60805B
B	1	Coupling, Silicone Reducer	05-60803
C	1	Coupling, Silicone Hump	05-60025
D	1	O-Ring, 82mm	05-60614
E	2	Clamp, Spring Loaded T-Bolt: 3.75"	05-600247
F	1	Screw, Btn Hd Scket: M6	03-50113
G	1	Washer, Flat: M6	03-50070
H	1	Bracket	05-60621
I	1	Adaptor	05-60605
J	1	Clamp, Spring Loaded T-Bolt: 3.25"	03-50530
K	1	Clamp, Spring Loaded T-Bolt : 2.85"	05-60039
L	1	Plug, Hex Hd Socket: 1/8" NPT	03-50029

Tools Needed: Screwdriver, long extension, ratchet, 7mm socket, 10mm socket, 11mm socket, 3/16" allen wrench, 4mm allen wrench, grease and thread sealant.

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.



**Figure A****Refer to Figure A for Steps 1-3**

Step 1: Park vehicle on level ground and engage the parking brake.

Step 2: Open the hood and disconnect the negative battery cable from both batteries.

Step 3: Locate the cold side intercooler tube, it will be the rubber hose on the driver side of the vehicle.



Figure B

**Refer to Figure B for Steps 4-8**

- Step 4: Loosen the clamp securing the intercooler tube onto the intercooler using a 7mm socket.
- Step 5: Unclip the wire loom from the factory plastic intercooler tube adapter using a panel popper.
- Step 6: Disconnect the connector from the sensor in the factory plastic intercooler tube adapter.
- Step 7: Remove the retaining clip that secures the plastic intercooler tube adapter to the engine inlet using a flat head screwdriver.
- Step 8: Remove the intercooler tube from the vehicle.



Figure C

**Refer to Figure C for Steps 9-11**

Step 9: Unbolt the power steering reservoir from the fan shroud using a 10mm socket, move the power steering reservoir out of the factory mounting location and place it to the side.

Step 10: Install the supplied bracket into the factory mounting location of the power steering reservoir using the factory hardware, then install the power steering reservoir onto the aFe bracket and bolt down using the supplied 6mm bolt and washer with a 4mm allen wrench.

**NOTE: The factory clamp on the power steering hose may need to be rotated to clear the intercooler tube.**

Step 11: Remove the sensor from the factory plastic intercooler tube adapter by lifting the tab gently with a screwdriver and twisting the sensor counter clock-wise 1/4 turn then pull sensor out of the adapter.



Figure D

**Refer to Figure D for Steps 12-16**

Step 12: Now we can begin the assembly of the aFe intercooler tube.

Step 13: Install the factory retaining clip onto the aFe aluminum adapter.

Step 14: Install the supplied O-ring into the groove on the inside of the aFe adapter.

Step 15: Install the adapter onto the engine inlet, be sure the clip snaps into place.

**NOTE: Be sure to lubricate the O-ring with grease to prevent it from tearing during install.**

Step 16: Install one of the large clamps onto the aFe adapter.



**Refer to Figure E for Steps 17-19**

Step 17: If you are not using any aftermarket sensors, install the 1/8" plug into the aFe intercooler tube using a 3/16" Allen wrench.

**NOTE: Be sure to use thread sealant on the plug to prevent any leaking.**

Step 18: Install the medium (3.25") clamp onto the intercooler tube then, install the angled coupling onto the end of the tube.

Step 19: Install the sensor from step 11 into the aFe intercooler tube, be sure to twist and lock it into place.

**NOTE: Be sure to lubricate the O-ring with grease to prevent it from tearing during installation.**





Figure F

**Refer to Figure F for Steps 20-22**

- Step 20: Place the remaining large clamp and the large coupling onto the large end of the aFe intercooler tube, do not tighten at this time.
- Step 21: Place the small clamp onto the intercooler outlet then install the intercooler tube into the vehicle and slide the large coupling onto the adapter.
- Step 22: Rotate the clamps into place, adjust couplings, and tighten all of the clamps using a 11mm socket. Install is now complete!



**SCORCHER HD Module**



P/N: 77-43020

**Momentum HD Intake**



P/N: 50-73006 (P10R)  
51-73006 (PDS)

**Dynamic Air Scoop**



P/N: 54-73006-S

**OE Replacement Filter**



P/N: 10-10139 (P5R)  
11-10139 (PDS)  
71-10139 (PG7)

**Sprint Booster V3**



P/N: 77-13001

**Hot-Side Inrtcooler Tube**



P/N: 46-20318-B

**Rear Differential Cover**



P/N: 46-70022 (Blk./Mach.)  
46-7020 (RAW)

**5" DPF-Back Exhaust**



P/N: 49-03090-B (Blk Tip)  
49-03090-P (Pol Tip)

**5" DP-Back Exhaust**



P/N: 49-03093

**Fuel Filter**



P/N: 44-FF014

**Oil Filter**



P/N: 44-LF024

**Transmission Pan**



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

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 nontransferable.
- 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.

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, 24, 72	2 years
Air Intake Systems	50, 51, 54, 55, 75	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

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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