

**advanced FLOW engineering**

**Instruction Manual** P/N: 46-70320 / 46-70322

Make: **Ford** Model: **Super Duty F-250/F-350** Year: **2011-2017** 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
A1	1	Oil Pan (Black Machined Fins)	05-60719B
A2	1	Oil Pan (Unpainted Machined Fins)	05-60719A
B	1	Plug, 1/2" NPT	03-50249
C	1	O-Ring, Buna-N (1280)	03-50557
D	15	Screw, Socket Head Cap: M6	03-50556
E	15	Washer, M6	03-50177
F	1	Washer, Aluminum: M12	03-50384
G	1	Plug, M12 x 1.25	03-50385
H	1	Oil Filter	44-LF024

Installation will require the following tools:

14mm socket, 10mm deep socket, 6mm hex driver, socket driver, 3/8" drive ratchet, 1/2" drive ratchet, 6" socket extension, Teflon tape, gasket scraper, oil drain pan.

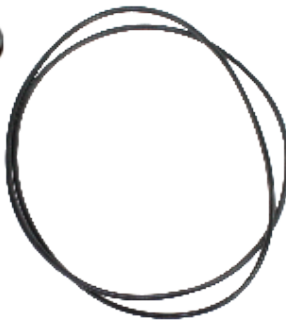
A1



B



C



D



A2



F



H



G



E



Figure A

### **Refer to Figure A for steps 1-2**

Step 1: Park your vehicle on a flat dry surface. You will need to block the tires to prevent the vehicle from rolling.

**NOTE: You will need to get under the vehicle to do this installation. Please use every precaution when lifting vehicle.**

Step 2: Place a drain pan under the oil pan. Remove the drain plug using a 3/8 ratchet and allow the oil pan to drain (about 13 quarts)



Figure B

**Refer to Figure B for steps 3-4**

Step 3: Using an 10mm socket with a 6" extension, remove the 15 bolts and factory oil pan.

Step 4: Clean oil pan gasket surface, be careful not to gouge surface while cleaning.



Figure C

**Refer to Figure C for step 5-7**

Step 5: Lightly coat the supplied O-ring with oil and install in the aFe pan.

Step 6: Install the aFe oil pan with the supplied cap screws and tighten to 7-10 ft. lbs.

Step 7: Install the M12 drain plug with M12 washer.

INSTALL



Figure D

**Refer to Figure D for step 8**

Step 8: Install the 1/2" NPT plug into the side of the oil pan.

**NOTE:** If an engine oil pan heater is desired install it in the 1/2" NPT port.





Figure E

**Refer to Figure E for step 9**

Step 9: Apply a light coat of engine oil to the oil filter seal and install oil filter. Refer to instructions on side of filter.





Figure F

**Refer to Figure F for steps 10-11**

Step 10: Install new oil into the oil fill on the vehicle (approximately 15 quarts). Make sure you have the proper level of oil on the oil dip stick. Check the pan for any leaks.

Step 11: Your installation is now complete. Drive at least 25 miles and check oil level using factory oil dip stick and fill if necessary.

**Momentum Intake System**



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

**Stage-2 Air Intake System**



P/N: 51-11872-1 (PDS)  
54-11872-1 (P5R)

**Stage-2 Si Intake System**



P/N: 51-81872-1 (PDS)  
54-81872-1 (P5R)

**DP-Back Exhaust System**



P/N: 49-03039 (w/ Muffler)  
49-03039NM (No Muffler)

**DFS Fuel System**



P/N: 42-13041 (Full-Time)  
42-13042 (Part-Time)

**SCORCHER HD Module**



P/N: 77-43014

**Intercooler Tubes**



P/N: 46-20144-B

**Fuel Filter**



P/N: 44-FF014

**Front Differential Cover**



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

**Rear Differential Cover**



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

**DP-Back Dual Exhaust**



P/N: 49-43066-B (Blk. Tips)  
49-43066-P (Pol. Tips)

**Transmission Pan**



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

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 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](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.

<b>Product Category</b>	<b>P/N Prefix</b>	<b>Warranty duration</b>
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/Transmission Pan	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.



**advanced FLOW engineering, inc.**  
252 Granite Street Corona, CA 92879  
TEL: 951.493.7100 • TECH: 951.493.7100 x23  
E-Mail: [Tech@aFepower.com](mailto:Tech@aFepower.com)