

advanced FLOW engineering Stage-2 Air Intake

Instruction Manual P/N: 51-81872-E

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	Pro DRY S Air Filter	21-91053
B	1	Housing	05-81872B2
C	1	Tube	05-81872B1
D	2	Clamp #72	03-50010
E	1	Clamp #88	03-50005
F	1	Cover	05-81872B3
G	1	Coupling, Turbo	05-01137
H	1	Coupling, Silicone Hump	05-01201
I	2	Fixing Clamp, 3/4"	03-50234
J	1	Gasket, MAS	05-00631
K	2	Screw, Chs Hd: M4x.7x8	03-50034
L	2	Spacer, Nylon	03-50089
M	3	Screw, Hex Hd: M6x1x20	03-50057
N	1	Washer, Flat: M6	03-50070
O	7	Screw, Btn Hd: 5/16"x1-1/4"	03-50217
P	1	Torx Bit: T20	03-50066
Q	1	Bracket	05-01351
R	2	Nut, M6	03-50185
S	1	12oz. Cleaner Spray	90-10011

Installation will require the following tools:

T-20 Torx Bit, 8mm Nut Driver, 10mm Socket, Ratchet, Flat Head Screw Driver, 4.5mm Allen Key.

B



C



D



E



F



G



H



I

Q



J



K



L



M



N



O



RP



O



RP



O



RP



RP



RP

A



S



**Figure A****Refer to Figure A for step 1**

Step 1: Take off the (2) 8mm screws securing the OE intake tube and filter box (1) and loosen the band clamps. On 2015 models, cut the plastic tie holding the coolant tube (2).



Figure B

Refer to Figure B for steps 2-3

Step 2: Disconnect the wire harness clip from the filter housing and pull the red tab out on the flow sensor connector, then press the tab and pull off the sensor plug. Remove the flow sensor off the tube with the provided T-20 torx bit (3).

Step 3: Pull out the air box in an upward motion.



Refer to Figure C for step 4

Step 4: Slip all the hoses out of the way on the OE intake tube, loosen the clamps and remove the tube (4).



Figure D

Refer to Figure D for steps 5-8

Step 5: Remove OE filter minder and OE grommet from factory housing.

Step 6: Install OE grommet and OE filter minder onto hole on new cover (5).

Add the hump coupler with clamps onto the small end of cover and slide until flush with tube.

Step 7: Install the sensor onto the new intake tube with provided nylon spacers, gasket and small screws. Also place the largest clamp on the big oval end of the tube (6).

Step 8: Install the air filter on cover using provided clamp and tighten.



Figure E

Refer to Figure E for step 9

Step 9: Install the adaptor coupling onto the engine with the radius edge outward (7).

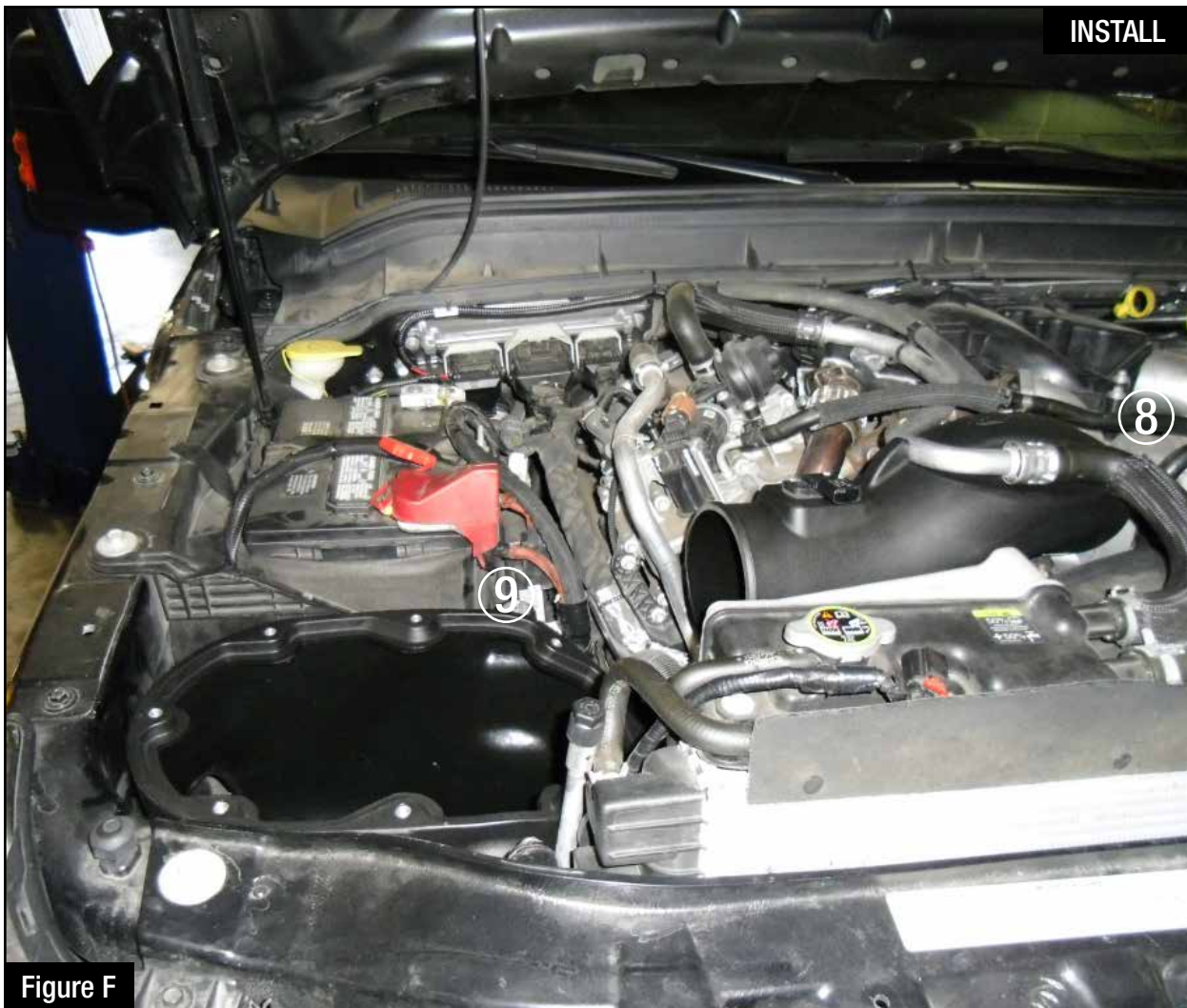


Figure F

Refer to Figure F for steps 10-11

Step 10: Install tube onto engine manifold over the adaptor coupling (8). Do not tighten clamps at this time.

Step 11: Install the housing, push on it to make sure stud on the bottom goes through OE rubber grommet). Also reinstall the factory 8mm screw near the positive battery cable (9).



Figure G

Refer to Figure G for step 12

Step 12: Slide hump coupling from cover onto the tube and close housing ⑩.

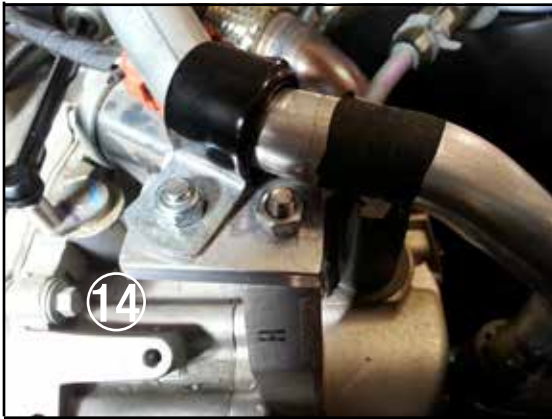


Figure H

Refer to Figure H for steps 13-17

Step 13: Use the provided button head screws to tighten cover to housing (11).

Step 14: Tighten all clamps.

Step 15: Re-connect the flow sensor.

Step 16: Snap metal tube line into tube. If too tight, plastic tube may be trimmed or filed to fit (12).

Step 17: Secure OE hose with 3/4" fixing clamp (13) using M6 screw and washer.

NOTE: On 2015 models, use provided bracket, 3/4" fixing clamp, 2 nuts and M6 screws to reattach coolant tube (14).



Figure I

Refer to Figure I for steps 18-19

Step 18: Reconnect batteries.

Step 19: Check that all components are tight and secure. Your installation is now complete.

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 inspection.

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Pro DRY S Air Filter



P/N: 21-91053

Pro 5R Air Filter



P/N: 24-91053

Pro-GUARD 7 Air Filter



P/N: 72-91053

DP-Back Exhaust System



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

Pro DRY S Restore Kit



P/N: 90-59999

Blue Squeeze Restore Kit



P/N: 90-50001

Gold Squeeze Restore Kit



P/N: 90-50500

DFS780 PRO Fuel System



P/N: 42-23031

SCORCHER PRO



P/N: 77-33003

Oil Filter



P/N: 44-LF024

Intercooler Tubes



P/N: 46-20144-B

Sprint Booster V3



P/N: 77-13001

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

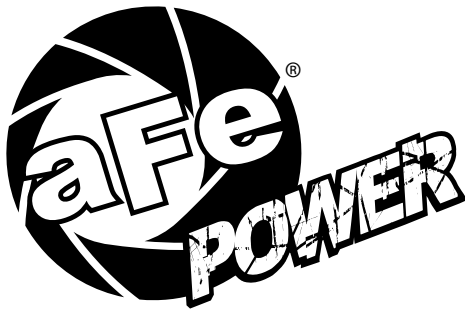
Warranty

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, 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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