



**advanced FLOW engineering** Stage-2 Air Intake

**Instruction Manual** P/N: 51-12182 / 54-12182 / 51-12192 / 54-12192 / 75-12192  
54-12193 (AIS + Cover)

Make: **Ford** Model: **F-150** Year: **2011** Engine: **V6-3.5L (tt) EcoBoost (XX-12182)**

Make: **Ford** Model: **F-150** Year: **12-14** Engine: **V6-3.5L (tt) EcoBoost (XX-12192/3)**



- 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.

**NOTE: Retain factory parts for future use.**

Label	Qty.	Description	Part Number
A1	2	Pro DRY S Air Filter	21-90069 (Gray Media) (51-12182/192)
A2	2	Pro 5R Air Filter	24-90069 (Blue Media) (54-12182/192)
A3	2	Pro-GUARD 7 Air Filter	72-90069 (Gold Media) (75-12192)
B	1	Housing	05-12182B3
C1	1	Tube	05-12182B1 (51/54-12182 Only)
C2	1	Tube	05-12192B1 (51/54/75-12192 Only)
D	1	Tube	05-12182B2
E	2	Screw, Cheese head	03-50034 (51/54-12182 Only)
F	1	Screw, M6	03-50052 (51/54/75-12192 Only)
G	1	Coupling, Straight	05-01242
H	1	Coupling, Reducer	05-00612
I	1	Coupling, Reducer	05-00636
J	2	Clamp #32	03-50016
K	1	Clamp #52	03-50008
L	2	Clamp #60	03-50002
M	1	Clamp #72	03-50010
N	1	Cap	03-50119
O	1	T-20 Torx	03-50066
P	1	Seal Trim (24.5 Inches)	05-00072
Q	1	Cover	05-12188-B (54-12193 Only)
R	3	Screws	03-50113 (54-12193 Only)

**Installation will require the following tools:**

8mm Nut Driver, Flat Head Screwdriver




**Figure A**

**Refer to Figure A for steps 1-5**

- Step 1: Disconnect the Manifold Air Pressure (MAP) sensor plug from stock air box. ①
- Step 2: For 51/54-12182 only unplug the vacuum line from the underside of the OE intake tube. ②
- Step 3: Loosen the OE intake clamps using an 8mm nut driver from the left and right side runners. ③
- Step 4: Uncalmp the top portion of the OE air box. ④
- Step 5: Remove the OE intake and the top portion of the OE air box by pulling straight up and out of the vehicle.



Figure B

**Refer to Figure B for steps 6-8**

Step 6: Pre-assemble the aFe housing; insert both aFe filters through the housing.

Step 7: Pre-assemble the filter clamps but do not tighten.

Step 8: Install the seal trim around the edges of the housing.



Figure C

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

Step 9: Remove the MAP sensor from the OE intake using the provided T-20 torx bit.

Step 10: Install the MAP sensor on the front aFe intake tube using the provided hardware. ⑤

Step 11: Install the small straight coupling on the cross over tube, install clamps but do not tighten. ⑥

For 51/54/75-12192 install the 3/8" vent plug on the rear tube.

**Figure D****Refer to Figure D for steps 12-14**

Step 12: Install the aFe housing on top of the lower portion of the OE housing. Clamp down using factory air box clips. (7)

Step 13: Install the larger reduction coupling (05-00612) on the driver side runner. Clamp down but do not tighten. (8)

Step 14: Install the smaller reduction coupling (05-00636) on the passenger side runner. Clamp down but do not tighten. (9)



**Refer to Figure E for step 15**

Step 15: Install the front aFe intake tube with the MAP sensor. (Slide into coupler side before installing the filter side). Do not tighten clamps.





Figure F

### **Refer to Figure F for steps 16-18**

Step 16: Install the rear aFe intake tube. (First install into coupler side before installing the filter side). Do not tighten clamps.

Step 17: Slide the small straight coupling from the front aFe intake tube to the rear cross over tube.

Step 18: Adjust both intake tubes if needed then tighten down all clamps with an 8mm nut driver.

Note: If there is contact with the coolant reservoir vent hose, this hose can be trimmed 1/4" for extra clearance. Reconnect after trimming. ⑩

**Figure G****Refer to Figure G for steps 19-20**

Step 19: For 51/54/12182 reconnect the vacuum line to the rear aFe intake tube.

Step 20: Reconnect the MAP sensor harness. ⑪

*NOTE: Retighten all connections after approximately 100-200 miles.*

**Place the included CARB EO sticker on or near the device on a smooth, clean surface.**

**EO identification is required to pass the smog inspection.**

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Pro DRY S Air Filter



P/N: 21-90069

Pro 5R Air Filter



P/N: 24-90069

Pro-GUARD 7 Air Filter



P/N: 72-90069

Pro DRY S Restore Kit



P/N: 90-59999

Blue Squeeze Restore Kit



P/N: 90-50501

Blue Aerosol Restore Kit



P/N: 90-50001

Gold Squeeze Restore Kit



P/N: 90-50500

Gold Aerosol Restore Kit



P/N: 90-50000

aFe Power Hat



P/N: 40-10083

aFe Key Chain



P/N: 40-10109

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.

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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