

**advanced FLOW engineering** Quantum Cold Air Intake System  
**Instruction Manual** P/N: 53-10010D / 53-10010R

Make: **Ford** Model: **F-150** Year: **2015-2019** Engine: **V8-5.0L**



- 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.



## Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Air Filter (Pro DRY S)	21-90105
A2	1	Air Filter (Pro 5R)	23-91133
B	1	Tube	05-5310010B1
C	1	Housing	05-53112B2
D	1	Coupling, Silicone Elbow	05-01344
E	1	Fitting (Large)	05-01339
F	1	Fitting (Small)	05-01338
G	1	Threadlocker	03-50162
H	1	Plug, Airbox	05-00937
I	1	Washer, Flat: M6	03-50070
J	1	Screw, Hex Hd: M6	03-50052
K	1	Clamp, #064	03-50006
L	1	Clamp, #052	03-50008
M	2	Clamp, #080	03-50011
N	1	Coupling, Silicone Bellow	05-01456

### Installation will require the following tool(s):

8mm, 13mm nut driver or socket and extension, Flat screwdriver #2 Phillips screwdriver, pliers.

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.

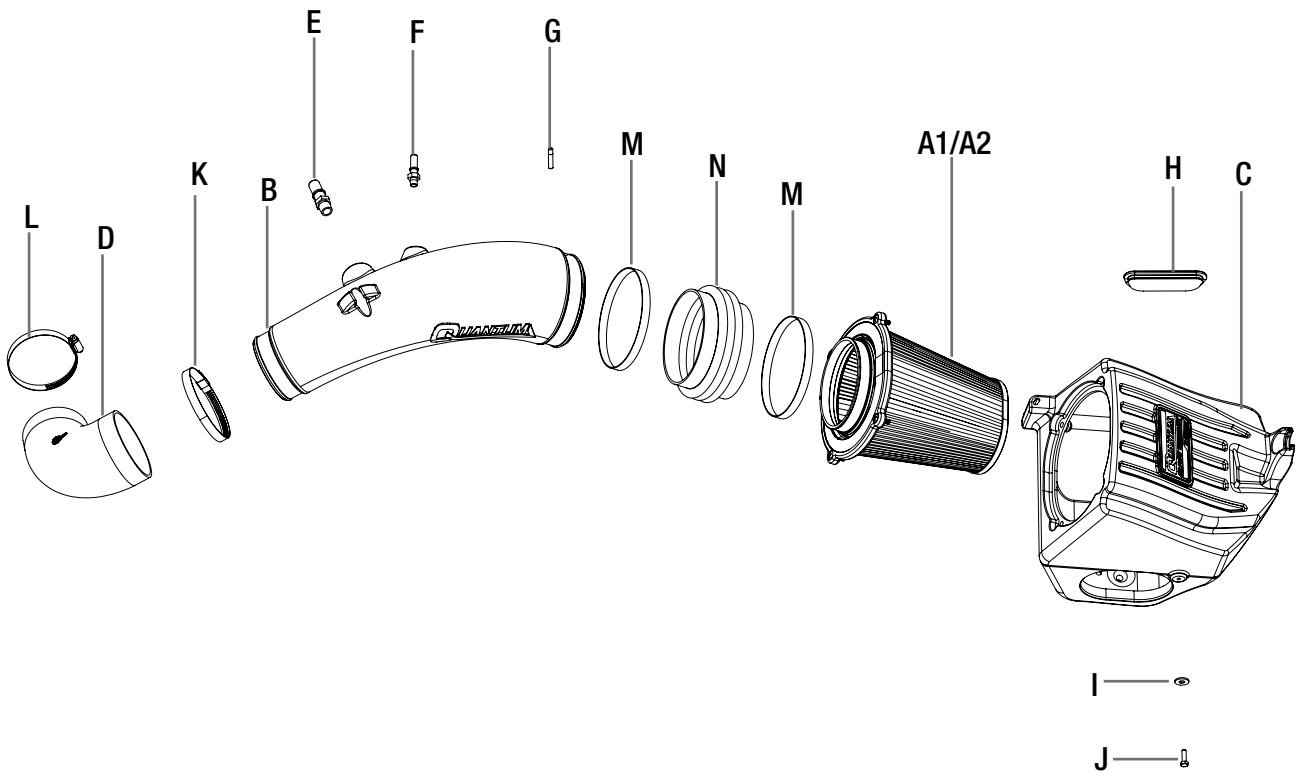




Figure A

**Refer to Figure A for Steps 1-4.**

Step 1: Pull the coolant hose from the tube.

Step 2: Disconnect the two crankcase breather lines.

Step 3: Loosen the two clamps on the air intake tube. Pull the tube out of the truck.

Step 4: Remove the screw and the two plastic rivets securing the housing, then pull the factory air box out of the truck.

**Note: Some models will have a wiring harness attached to the air box, unclip the harness if it is present.**

**Figure B****Refer to Figure B for Steps 5-6.**

Step 5: Remove the screw securing the factory air scoop to the factory housing. Then pull on the scoop to detach it from the housing.

Step 6: Push the factory air scoop in the Quantum housing and secure it with the provided M6 screw and washer.



Figure C

**Refer to Figure C for Steps 7-8**

- Step 7: If you have also purchased the aFe POWER scoop (P/N: 53-10008S) with your Quantum intake, simply push it into the Quantum housing and secure it with the M6 screw and washer provided.
- Step 8: Install the seal trim on the edge of the aFe POWER scoop.



**Refer to Figure D for Steps 9-11.**

Step 9: Transfer the grommet and sleeve from the factory housing to the Quantum housing.

Step 10: Install the Quantum housing into the vehicle by pushing it into the factory grommet, and attach the factory harness to the housing if your vehicle is equipped with one.

Step 11: Secure the housing to the fender using the factory screw removed at Step 4.



Figure E

**Refer to Figure E for Step 12.**

Step 12: Secure the factory scoop inlet with the factory plastic rivets. Or if you have the aFe POWER scoop, secure it with the provided plastic rivets.





Figure F

**Refer to Figure F for Steps 13-14.**

Step 13: Slide the Quantum air filter into the housing. Secure it by tightening the four screws with a #2 Phillips screwdriver.

Step 14: Install couplings and clamps onto throttle body and air filter. Do not tighten clamps yet.



Figure G

**Refer to Figure G for Step 15.**

Step 15: Screw the two provided vent fittings into the Quantum tube. Use some of the furnished thread locker to guarantee a perfect seal.

**Figure H****Refer to Figure H for Step 16.**

Step 16: The kit includes an optional plug to close off the back auxiliary air inlet. Install the plug if you wish to close off the back auxiliary air inlet and only capture cold air from the front of the vehicle.

- Without the plug installed, the aFe POWER intake will capture the maximum air available. More airflow offers more power. Yet some of this air is picked up from inside the engine compartment and could be warmer air. Warmer air will affect the performance of the vehicle.
- The plug installed on the housing will block off any hot engine air entering the housing and make sure the coolest air available is directed into the engine. It will also reduce the noise of the intake.

**Figure 1****Refer to Figure 1 for Steps 17-20.**

- Step 17: Install the Quantum tube in the truck by sliding the tube into the coupling in the throttle body then into the coupling on the air filter.
- Step 18: Align tube correctly then tighten all clamps.
- Step 19: Reconnect the crankcase breather lines and secure coolant hose on tube.
- Step 20: Verify all connections are secured. The installation is now complete, enjoy your Quantum air intake system.

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Quantum Intake Scoop



P/N: 53-10008S

SCORCHER PRO Tune



P/N: 77-33008

Headers + Y-Pipes



P/N: 48-43015-HC (Street)  
48-43015-HN (Race)  
2015-2017 Models Only!

Side Exit Exhaust System



P/N: 49-43081-B (Bik. Tips)  
49-43081-P (Pol. Tips)

Exhaust System



P/N: 49-43073-B (Bik. Tip)  
49-43073-P (Pol. Tip)

Exhaust System



P/N: 49-43074-B (Bik. Tips)  
49-43074-P (Pol. Tips)

Rear Differential Cover



P/N: 46-70152-WL (w/ Oil)  
46-70152 (Black)  
46-70150 (RAW)

SPRINT BOOSTER V3



P/N: 77-13001

Throttle Body Spacer



P/N: 46-33010

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, 23, 24, 72,TF	2 years
Air Intake Systems	50, 51, 53, 54, 55, 56, 75,TR,TA,TL	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
Turbochargers	46-6	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.

\*See turbocharger warranty for more info



**advanced FLOW engineering, inc.**  
252 Granite Street Corona, CA 92879  
TEL: 951.493.7100 TECH: 951.493.7134  
E-Mail: [Tech@aFepower.com](mailto:Tech@aFepower.com)