

advanced FLOW engineering

Instruction Manual P/N: F2-03013

Make: **FORD** Model: **RANGER** Year: **2004-2011** Engine: **V6-4.0L**



- 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.
- 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	Air Filter (Pro DRY S)	21-45507
B	1	Housing (Wrinkle Black)	05-12042B2
C	1	Tube (Polished)	05-F203013G1
D	1	Adaptor, Injection Molded: 4.5"	05-01037
E	2	Coupling, Reducer	05-00636
F	2	Clamp, 048	03-50007
G	2	Clamp, 052	03-50008
H	2	Clamp, Mini 010	03-50078
I	3	Screw, Button Head: M6x1x12	03-50102
J	2	Screw, Cheese Head: M4x.7x16	03-50030
K	1	Hose, Fuel: 5/8"ID (18"L)	05-00069
L	1	Seal, Trim: 7/16" Bulb (25.00"L)	05-00072
M	1	Torx, T-20	03-50066

Installation will require the following tools:

8mm and 7mm nut driver, flat head screw driver, 4mm allen hex key

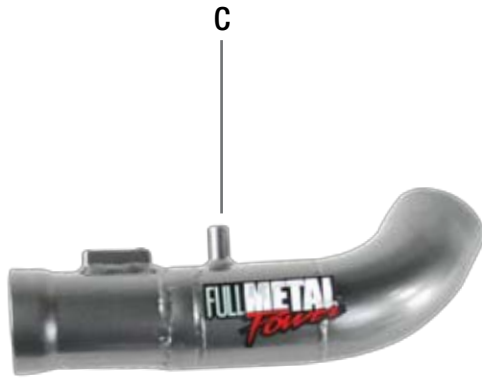



Figure A

Refer to Figure A for steps 1-4

Step 1: Remove the throttle body cover using a 6mm nut driver. ①

Step 2: Unclip the PCV vent tube from the valve cover. ②

Step 3: Disconnect the Mass Air Flow (MAF) sensor from the intake by pulling the red safety clip then pull to disconnect. ③

Step 4: Loosen the throttle body clamp using an 8mm nut driver. ④

INSTALL



Figure B

Refer to Figure B for step 5

Step 5: Unclip the tabs from the OE air box then lift and remove the air box and intake tube as one.

**Figure C****Refer to Figure C for steps 6-9**

- Step 6:** Pre-assemble the aFe housing. Install the filter adaptor using the hardware provided. ⑤
- Step 7:** Pre-assemble the reduction coupler using an 8mm nut driver and the supplied clamps. Leave loose.
- Step 8:** Install the seal trim placing the cut corner in the inside of the housing. Press down tightly.
- Step 9:** Install the aFe air filter.



Figure D

Refer to Figure D for steps 10-11

- Step 10:** Pre-assemble the aFe Full Metal power intake. Remove the MAF sensor from the OE air box using the supplied T-20 bit and reinstall in the aFe intake using the hardware provided. Use a flat head screw driver to tighten. (Be careful not to overtighten)
- Step 11:** Pre-assemble the PCV vent line to the vent tube on the aFe intake. Use the provided mini clamp to tighten the hose.


Figure E

Refer to Figure E for steps 12-13

Step 12: Install the pre-assembled aFe housing on top of the lower portion of the OE air box then use the OE tabs to hold the housing in place. (6)

Step 13: Install the coupling on the throttle body. Then tighten the throttle body side with an 8mm nut driver. Leave the outside clamp loose. (7)

**Figure F****Refer to Figure F for steps 14-15**

Step 14: Install the pre-assembled aFe intake tube on the throttle body side first then to the housing.

Align and adjust as need then tighten down with an 8mm nut driver.

Step 15: Connect the PCV vent hose to the valve cover vent, tighten with the provided mini clamp. ⑧


Figure E

Refer to Figure E for steps 16-17

Step 16: Reconnect the MAF sensor and secure. Press in the red clip to secure plug and re-install the throttle body cover. ⑨

Step 17: Make sure all clamps and hardware is tightened and secure. Make sure the MAF sensor harness does not come in contact with any moving parts.

Note: Re-tighten all connections after approximately 100-200 miles of initial installation.



Pro DRY S Air Filter



P/N: 21-45507

Pro 5R Air Filter



P/N: 24-45507

Pre-Filters



P/N: 28-10083 Black

Pro DRY S Restore Kit



P/N: 90-59999

Blue Aerosol Restore Kit



P/N: 90-50001

Blue Squeeze Restore Kit



P/N: 90-50501

aFe Power Hat



P/N: 40-10114 S/M
P/N: 40-10115 L/XL

aFe Key Chain



P/N: 40-10103

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"). 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/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.