



advanced FLOW engineering Stage-2 Air Intake
Instruction Manual P/N: 51-12622 / 54-12622

Make: **Ford** Model: **Explorer Sport** Year: **2012-2017** Engine: **V6-3.5L (tt) EcoBoost**
(CARB exempt 12-16 under D-550-28 only)



- 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	Air Filter (Pro DRY S)	21-45507
A2	1	Air Filter (Pro-5R)	24-45507
B	1	Tube	05-12622B1
C	1	Housing	05-12622B2
D	1	Seal Trim 7/16" (20 inches)	05-00072
E	1	Grommet	03-50050
F	1	Clamp, 052 (2-13/16"-3-3/4")	03-50008
G	3	Clamp, 048 (2-9/16"-3-1/2")	03-50007
H	1	Coupling Straight (3"ID x 2-1/2"L)	05-01028
I	1	Coupling Reducer (3-1/4"x 3")	05-00636
J	1	Adaptor, Filter	05-01037
K	3	Screws, M6 Button Head	03-50113

Tools needed: 8mm Nut Driver, 10mm wrench or deep socket, 4mm Hex key (allen).



A1



A2





Figure A

Refer to Figure A for Steps 1-4

Step 1: Disconnect wire harness from temperature sensor.

Step 2: Remove plastic harness tie from corner of airbox lid.

Step 3: Loosen rear clamp on rubber intake tube.

Step 4: Undo the 2 latches and remove airbox cover, tube and filter.



Figure B

Refer to Figure B for Step 5

Step 5: Remove temp sensor from factory tube by turning $\frac{1}{4}$ turn counter-clockwise. Be careful not to damage the sensor.



Figure C

Refer to Figure C for Steps 6-7

Step 6: Insert rubber grommet into hole on the aFe intake tube.

Step 7: Insert temp sensor into grommet. This will be easier if the O-ring is removed from the sensor and support the grommet with your fingers inside the tube as you twist and push.

**Figure D****Refer to Figure D for Steps 8-11**

Step 8: Install the filter adaptor with 3 button headed screws

Step 9: Install seal trim on upper edge of housing

Step 10: Install polyurethane straight coupler and 2 #048 clamps but, do not fully tighten

Step 11: Install filter on the adaptor and tighten.



Figure E

Refer to Figure E for Steps 12-13

Step 12: Install housing and filter assembly and fasten clips, it may be necessary to loosen the 2 battery hold-down nuts and slide the battery rearward for extra room.

Step 13: Install polyurethane reducer coupling onto inlet tube with a #048 and #052 clamp but, do not fully tighten.



Figure F

Refer to Figure F for Steps 14-16

Step 14: Install the aFe intake tube and tighten all clamps. Re-connect the temp sensor harness. Tighten the battery hold-down nuts.

Step 15: Insert the wire harness plastic tie into the hole provided in the housing.

Step 16: Your installation is now complete.

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.



Page left blank intentionally

Page left blank intentionally



Page left blank intentionally

Page left blank intentionally



Pro DRY S Air Filter



P/N: 21-45507

Pro 5R Air Filter



P/N: 24-45507

Pro DRY S Restore Kit



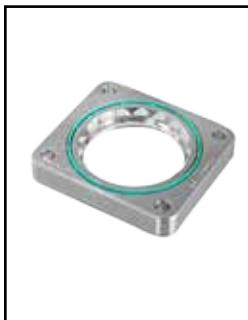
P/N: 90-59999

Blue Squeeze Restore Kit



P/N: 90-50501

Throttle Body Spacer



P/N: 46-33018

Oil Filter



P/N: 44-LF025

Sprint Booster



P/N: 77-13001

Black Flashlight



P/N: 40-10131

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 nontransferable.
- 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.



advanced FLOW engineering, inc.
252 Granite Street Corona, CA 92879
TEL: 951.493.7155 • TECH: 951.493.7100
E-Mail: Tech@aFepower.com