



advanced FLOW engineering

Instruction Manual P/N: 51-12522 & 54-12522

Make: **BMW** Model: **X1 28i/ix (E84)** Year: **2012-2015** Engine: **L4-2.0L (t) N20**



- 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	Pro Dry S Air Filter	R21-90074 Grey Media
A2	1	Pro 5R Air Filter	R24-90074 Blue Media
B	1	Tube	05-12522B1
C	1	Housing	05-12522B2
D	1	Nut, Hex M6 x 1	03-50059
E	1	Trim Seal, 25.25"	05-00072
F	1	Screw, Hex M6	03-50032
G	2	Screw, Chs Hd M4	03-50221
H	1	Torx Bit, T20	03-50066
I	2	Washer, Flat M6	03-50070
J	1	Trim Seal, 14.75"	05-00072

Installation will require the following tools:
Tools needed: 7mm, 8mm, 10mm and 7/16 Socket or nut driver, Ratchet and extension, flat head screw driver

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 1-5**

- Step 1: Disconnect the MAF sensor harness ①.
- Step 2: Remove the two 10mm bolts securing the OE housing ②.
- Step 3: Loosen the clamps on the OE tube.
- Step 4: Pull the OE housing and tube out of vehicle.
- Step 5: Remove the dome grommet, that the OE housing was sitting on.



Figure B

Refer to Figure B for Steps 6-7

Step 6: Install aFe filter onto the aFe housing. Make sure housing is sealed in filter retention groove.

Step 7: Install trim seal onto aFe housing.

**Refer to Figure C for Step 8**

Step 8: Install aFe housing into vehicle, secure it with with the supplied nut, washers and bolts ③.

**Figure D****Refer to Figure D for Steps 9-13**

Step 9: Remove MAF sensor from OE air box with the provided torx bit.

Step 10: Install MAF sensor onto aFe intake tube with the provided M4 screw.

Step 11: Install aFe intake tube first onto OE coupling then into aFe air filter. Align it then secure it with the clamps.

Step 12: Re-connect MAF sensor.

Step 13: Verify all clamps are secure and re-check periodically. Your Installation is now complete.

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Pro DRY S Air Filter



P/N: 21-90074

Pro 5R Air Filter



P/N: 24-90074

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

Scorcher Module



P/N: 77-46303

aFe Power Hat



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

Watch G-Shock



P/N: 40-10125

Air Filter



P/N: 30-10227

aFe Euro Plate



P/N: 40-10135

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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