

advanced FLOW engineering

Instruction Manual P/N: 51-12122/ 54-12122

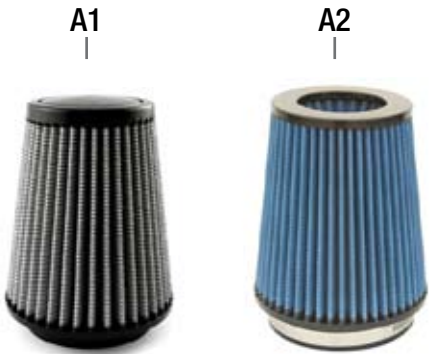
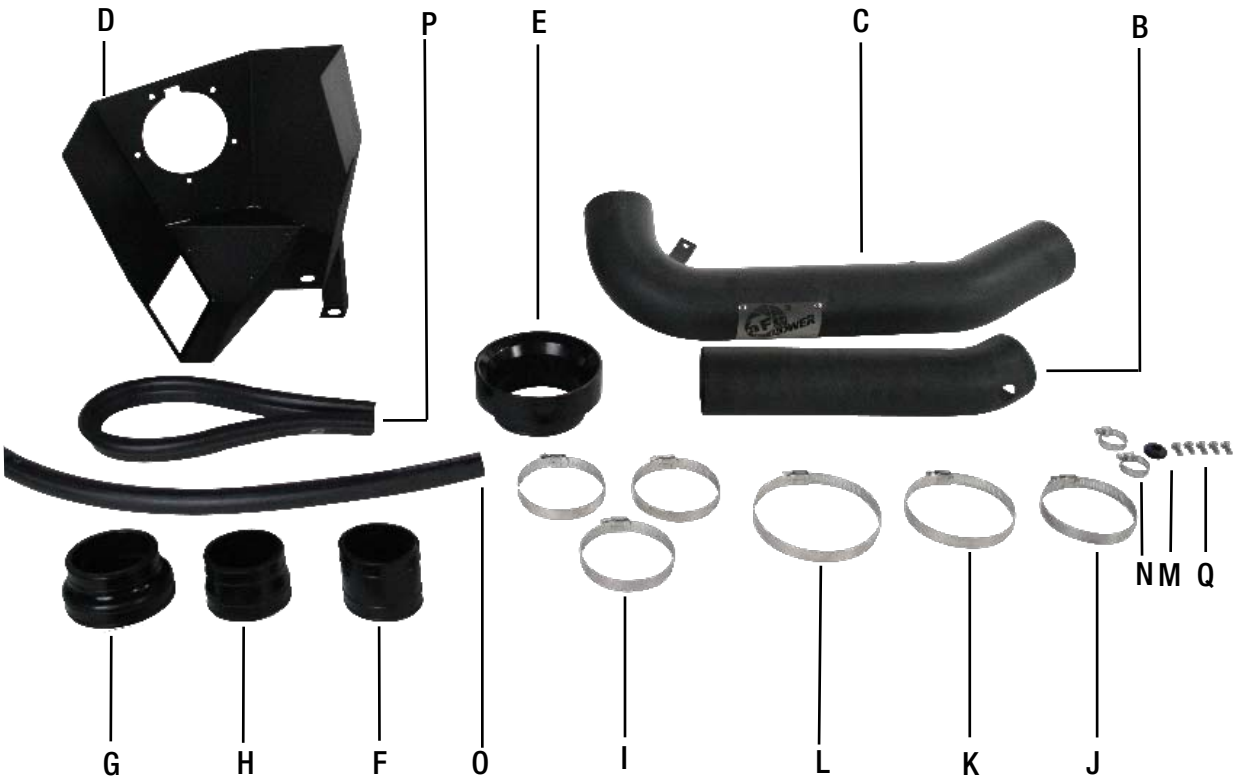
Make: **Jeep** Model: **Grand Cherokee** Year: **11-12** Engine: **V6-3.6L**



- 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	21-90045 (Gray Media)
A2	1	Pro 5R Air Filter	24-91031 (Blue Media)
B	1	Tube #1	05-12122B1
C	1	Tube #2	05-12122B2
D	1	Housing	05-12122B3
E	1	Adaptor	05-00611
F	1	Straight Coupler	05-00305
G	1	Reducer Coupling	05-00612
H	1	Reducer Coupling	05-00636
I	3	Clamp #48	03-50007
J	1	Clamp #52	03-50008
K	1	Clamp #56	03-50009
L	1	Clamp #72	03-50010
M	1	Grommet	03-50050
N	2	Mini Clamp	03-50078
O	1	Fuel Hose (14 Inches)	05-00069
P	1	Seal Trim (25.25 Inches)	05-00072
Q	5	Screw, Button Head	03-50102

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.





Refer to Figure A for Step 1

Step 1: Remove the engine cover by lifting it firmly off the engine.



Figure B

Refer to Figure B for Steps 2-7

Step 2: Disconnect the temp sensor wire harness. ②

Step 3: Remove the temp sensor with a 90 degree turn clockwise. Be sure not to damage the sensor

Step 4: Loosen the hose clamp at the throttle body and at the air box.

Step 5: Disconnect the vent hose from the air box along with the power steering hose clip.

Step 6: Remove the stock intake tube, and air filter housing by pulling straight up and out of the vehicle.

Step 7: Remove the factory grommets from the bottom of the OE air box. Save as these will be used later in installation.



Figure C

Refer to Figure C for Steps 8-10

Step 8: Install the air filter adaptor using the 5 button head screws provided using a 5mm hex key.

Step 9: Install the seal trim as shown on the housing.

Step 10: Install the aFe air filter.

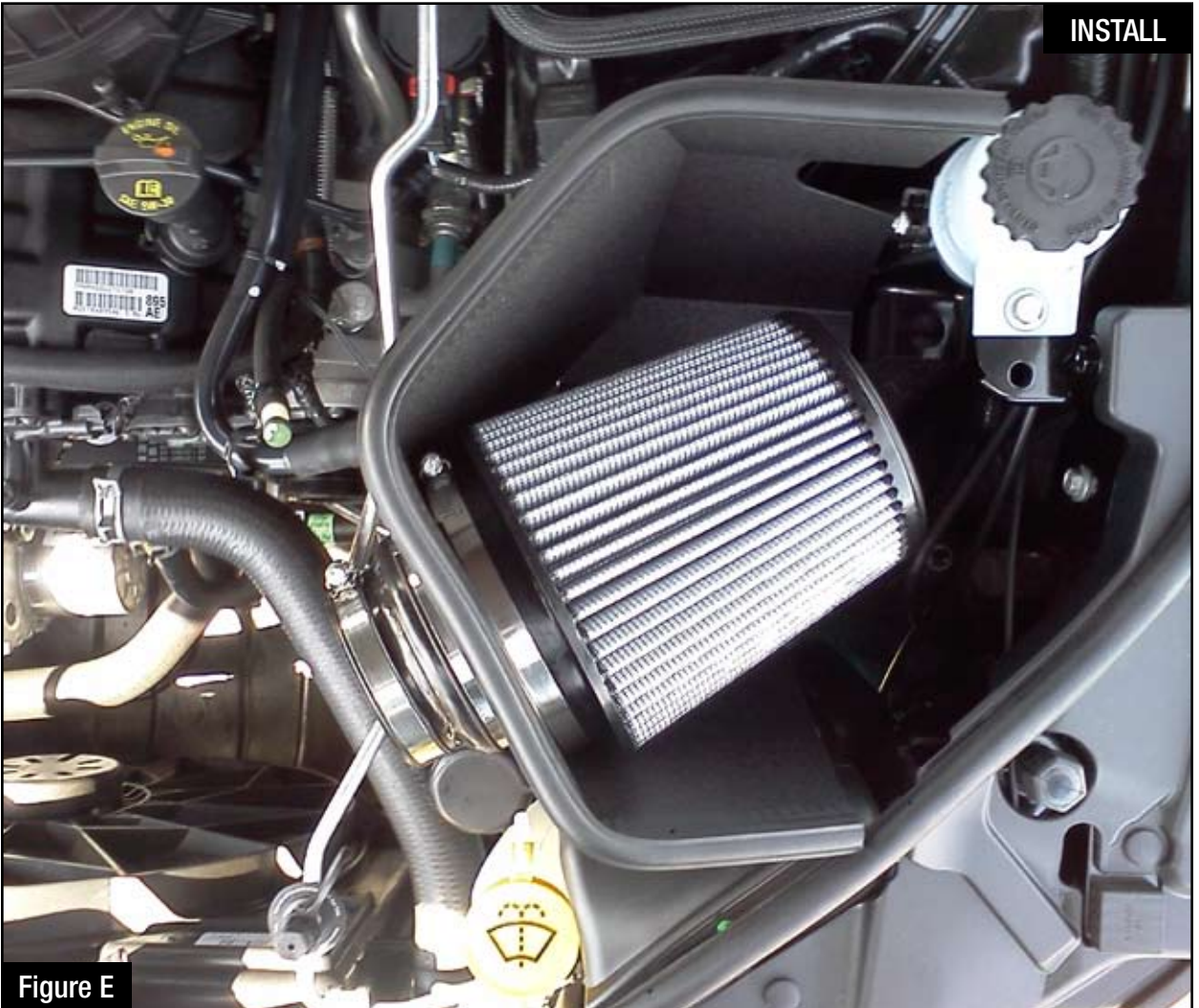


Figure D

Refer to Figure D for Steps 11-12

Step 11: Remove the OE air scoop from the OE air box.

Step 12: Place the OE air scoop in the aFe housing.



Refer to Figure E for Steps 13-14

Step 13: Install the removed OE grommets from step 7 onto the bottom of the aFe housing.

Step 14: Install the housing into the vehicle on the original grommet mounts.



Figure F

Refer to Figure F for Steps 15-17

Step 15: Install the supplied rubber grommet onto the new intake tube. Remove the o-ring from the temp sensor and install the sensor into the grommet with a twisting motion. Do not damage the sensor. ⑮

Step 16: Install the straight coupler and clamps onto the the throttle body, do not tighten the clamps. ⑯

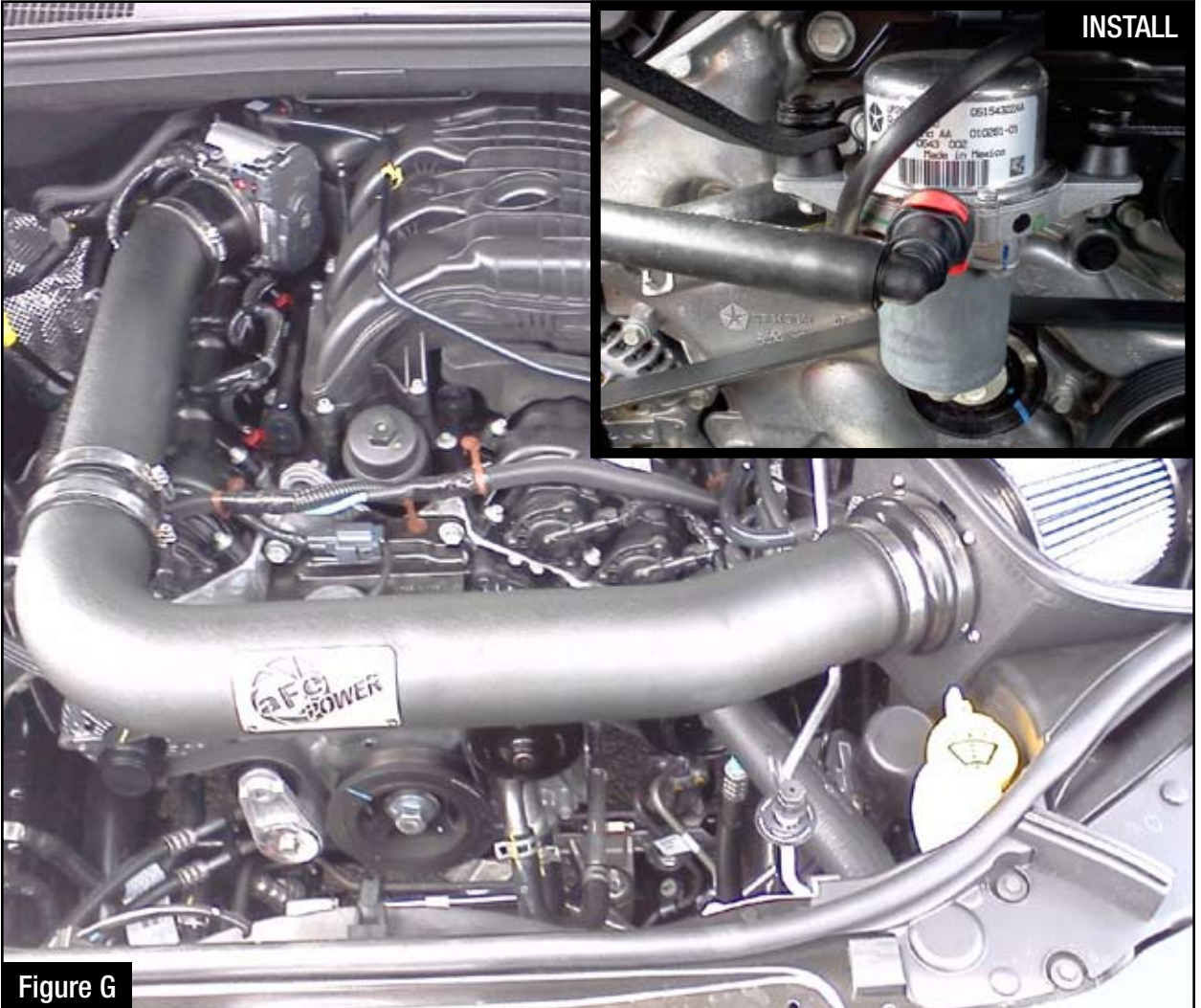


Figure G

Refer to Figure G for Steps 17-20

Step 17: Unbolt the vacuum canister in front of the engine.

Step 18: Install the intake tube starting from the housing aligning it to the throttle body.

Step 19: Reinstall the vacuum canister.

Step 20: Reconnect the temp sensor wire.



Figure H

Refer to Figure H for Steps 21

Step 21: Measure approximately 4" from the end of the OE vent tube and cut to accept the new 5/8 rubber vent hose. Cut the new rubber vent hose 12" long and slip over the OE vent hose and connect it to the intake tube. Save the original vent tube that was cut and the remaining 5/8 rubber vent hose. These will be used if the vehicle is returned to stock.

*Verify all connections are secure 100-200 miles after installation



Page left blank intentionally

Page left blank intentionally



Pro DRY S Air Filter



P/N: 21-90045

Pro 5R Air Filter



P/N: 24-91031

Pro-GUARD 7 Air Filter



P/N: 72-90045

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

aFe Key Chain



P/N: 40-10103

aFe Power Hat



P/N: 40-10083

Gold Squeeze Restore Kit



P/N: 90-50500

Gold Aerosol Restore Kit



P/N: 90-50000

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.



advanced FLOW engineering, inc.
252 Granite Street Corona, CA 92879
TEL: 951.493.7100 • TECH: 951.493.7100 x23
E-Mail: Tech@aFepower.com