



**advanced FLOW engineering** Stage-2 Air Intake

**Instruction Manual** P/N: 54-12462 / 51-12462

Make: **Jeep** Model: **Cherokee** Year: **2014-2017** Engine: **V6-3.2L**

**CARB Exempt 2014-2016 under D-550-27**



- 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 (51-12462) |
| A2    | 1    | Air Filter (Pro-5R)        | 24-45507 (54-12462) |
| B     | 1    | Housing                    | 05-12462B2          |
| C     | 1    | Intake Tube                | 05-12462B1          |
| D     | 2    | Hump Coupling              | 05-00564            |
| E     | 1    | Adaptor                    | 05-01037            |
| F     | 4    | Clamp #52                  | 05-50008            |
| G     | 3    | Spacers                    | 03-50289            |
| H     | 3    | Button Head Screw          | 03-50102            |
| I     | 1    | Grommet                    | 03-50050            |
| J     | 1    | Fuel Hose 5/8" I/D (13.5") | 05-00069            |
| K     | 1    | Trim Seal (21")            | 05-00072            |

Tools needed: 8mm nut driver.



A1



A2



B



C

D

E



F



G

H

I



J

K


**Figure A**
**Refer to Figure A for Steps 1-8**

- Step 1. Remove the engine cover by lifting firmly up
- Step 2. Remove the temperature sensor by unclipping the harness (1).
- Step 3. Loosen the throttle body clamp (2).
- Step 4. Loosen the Plenum clamp to the stock intake (3).
- Step 5. Remove Reservoir clip and Vacuum lines clips from the stock intake (4).
- Step 6. Remove the stock housing mount screws. (Save screws it will be re-used with the aFe housing) (5).
- Step 7. Disconnect the stock vent hose from the housing and from the engine (6).
- Step 8. Remove stock intake from lower portion of housing and plenum (7).

**Figure B****Refer to Figure B for Steps 9-10**

Step 9. Remove stock air filter.

Step 10. Lubricate the rubber mounts for easier removal. Remove stock plenum by carefully lifting the back end up to disengage the rear mount, then carefully pull the plenum to the rear and towards the side. Be careful not to break the front mount (8).



**Refer to Figure C for Steps 11-13**

Step 11. Remove Temp sensor from stock intake.

Step 12. Install Grommet in the aFe Intake tube.

Step 13. Insert the Temp sensor that was removed from stock intake tube into the aFe intake tube.

**Figure D****Refer to Figure D for Steps 14-16**

Step 14. Assemble the aFe housing. Install the trim seal on the top portion of the housing.

Step 15. Install the aFe Adaptor with the 3 screws that are provided.

Step 16. Install coupler onto the adaptor and place clamps onto coupler.


**Figure E**

**Refer to Figure E for Steps 17-19**

Step 17. Install the aFe housing using the 3 factory screws removed in step 6 with the provided 3/8 spacers.

Step 18. Install the coupler onto the throttle body with provided clamps (9).

Step 19. Install the aFe filter onto the adaptor (10).



**Figure F****Refer to Figure F for Steps 20-23**

Step 20. Install aFe intake tube onto the filter side, then onto the throttle body coupler.

Step 21. Remove the vent hose and quick connector and install the new vent hose as shown (11).

Step 22. Re-connect Temp Sensor (12).

Step 23. Tighten all Clamps. (Make sure to not over tighten clamps).



**Figure E**

**Refer to Figure E for Step 15**

Step 23. Re-Install Engine Cover.

**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 label is required to pass the smog inspection.

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Pro DRY S Air Filter



P/N: 21-91062

Pro 5R Air Filter



P/N: 24-91062

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 Power Hat



P/N: 40-10083

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 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](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, 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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