



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

**Instruction Manual** P/N: 54-10142 / 51-10142

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Make: **Jeep** Model: **Wrangler (TJ)** Year: **1997-2006** Engine: **I6-4.0L**



- 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 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)	21-30018
A2	1	Air Filter (Pro-5R)	24-30018
B	1	Housing	05-00086
C	1	Intake Tube	05-00087
D	1	Coupling, Hump	05-00564
E	1	Coupling, Straight	05-00418
F	2	Clamp Mini, #008	03-50077
G	2	Clamp, #048	03-50007
H	2	Clamp, #052	03-50008
I	1	Grommet, Air Temp Sensor	03-50033
J	2	Screw, Hex Hd: M6	03-50057
K	2	Washer, Wavy: M6	03-50058
L	2	Nut, Hex: M6	03-50059
M	4	Washer, Fender: 1/4	03-50074
N	1	Grommet, Rubber	03-50076
O	1	Cap: 1/2	03-50103
P	1	Hose, Fuel: 5/8 ID (12" inches)	05-00069
Q	1	Seal, Trim: 3/4 (26" inches)	05-00007

Installation will require the following tools:

5/16 or 8mm nut driver, 10mm/13mm socket, extension and ratchet.



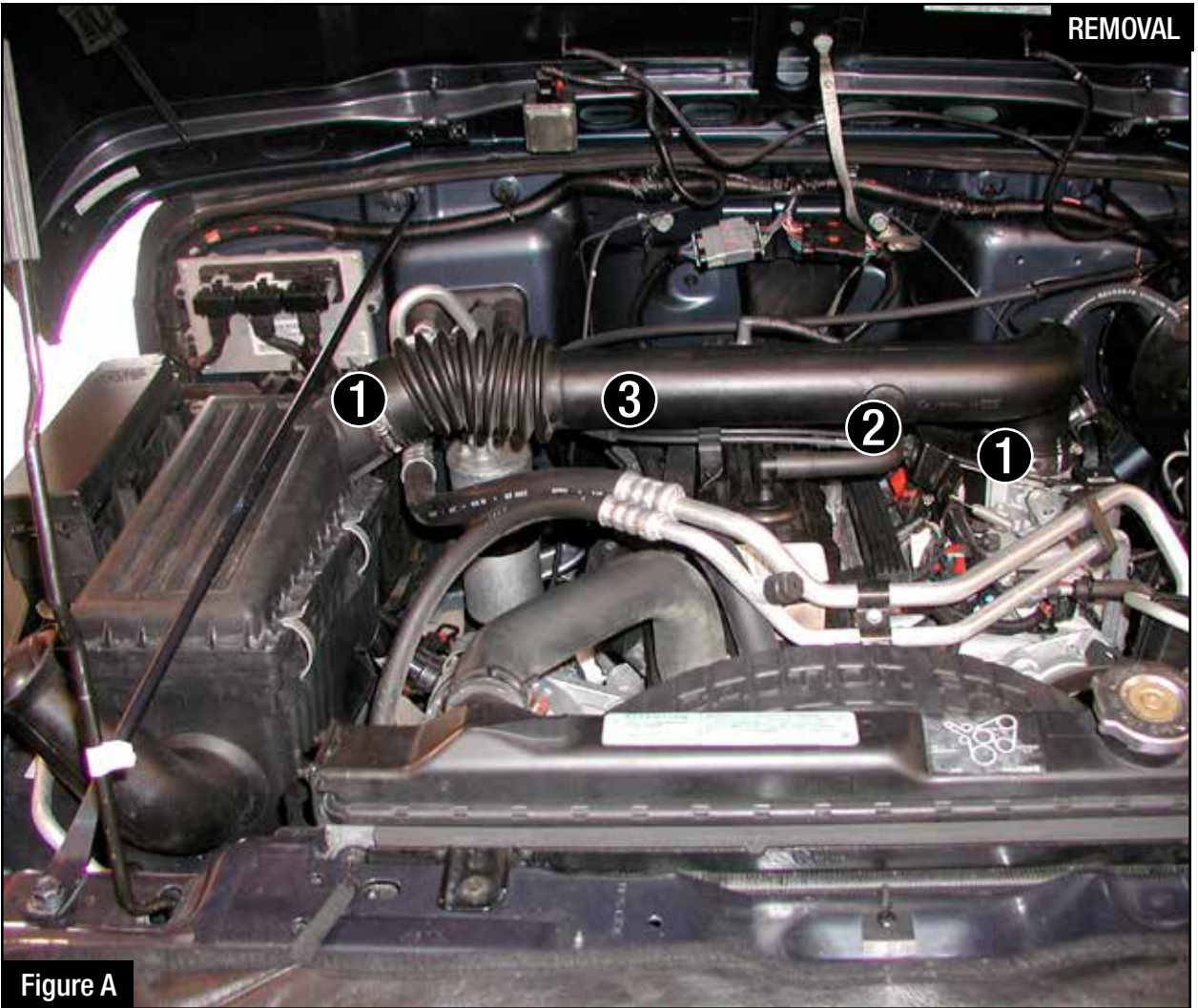


Figure A

**Refer to Figure A for Steps 1-4.**

- Step 1: On vehicles equipped with a temp sensor, disconnect the harness to the sensor.
- Step 2: Using an 8mm nut driver, loosen the clamps ① at the airbox and the throttle body.
- Step 3: Disconnect the vent hose ② from the intake tube.
- Step 4: Remove the intake tube. ③





Figure B

**Refer to Figure B for Steps 5-6.**

Step 5: Unclip the five clamps (4) holding down the airbox lid.

Step 6: Remove the lid and the air filter.



**Refer to Figure C for Step 7.**

Step 7: Remove the three screws (5) holding the lower section of the airbox using a 10mm socket and ratchet. Remove the airbox.



Figure D

**Refer to Figure D for Step 8.**

Step 8: Using a 13mm socket, remove the two screws (6) holding the strut rod and remove the rod.



**Figure E****Refer to Figure E for Step 9.**

Step 9: Using a 10mm socket and ratchet, remove the upper radiator bracket screw (7) and save for later use.



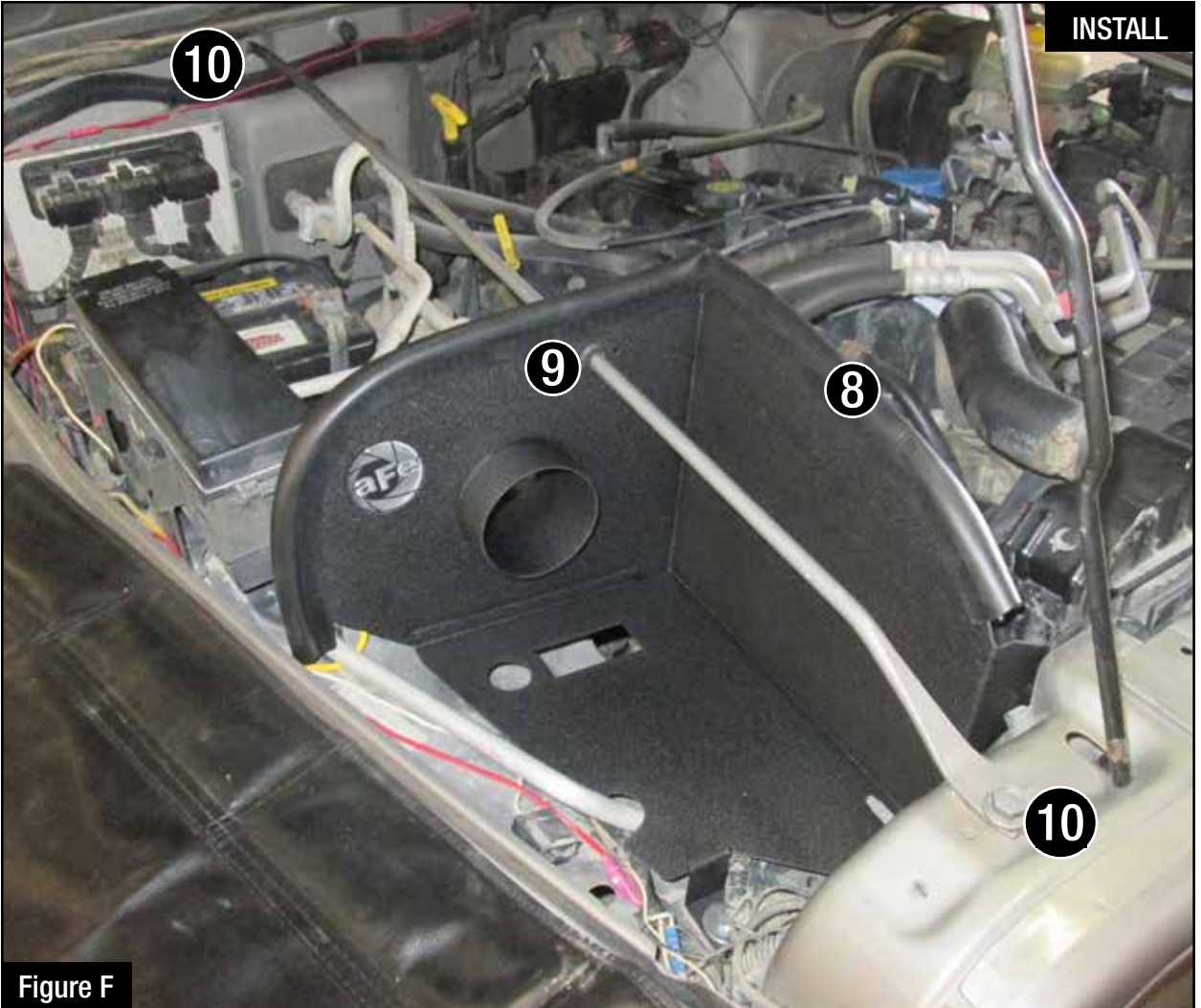


Figure F

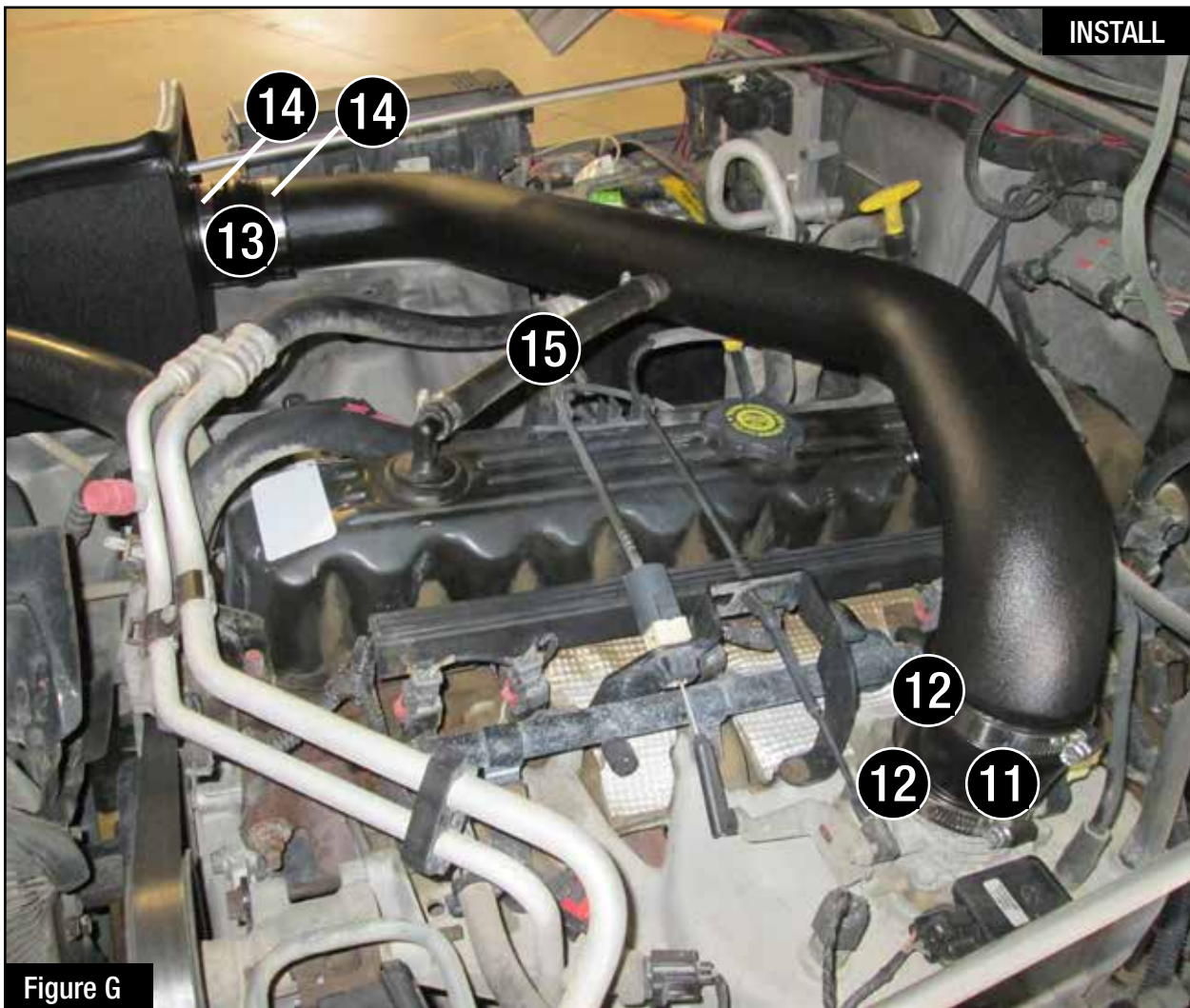
**Refer to Figure F for Steps 10-13.**

Step 10: Install the trim seal (8) onto the housing.

Step 11: Install the aFe housing using the supplied screws, washers and nuts. Reinstall the radiator bracket screw that was removed earlier to support the front of the housing.

Step 12: Slide the grommet (9) over the strut rod, then slide the strut rod through the opening in the housing. Press grommet into hole in aFe housing.

Step 13: Secure the strut rod with the 2 screws (10) removed earlier.


**Figure G**
**Refer to Figure G for Steps 14-17.**

Step 14: Install the straight coupler (11) and two #048 clamps (12) onto the throttle body.

Step 15: Install the hump coupler (13) and two #052 clamps (14) on the filter housing.

Step 16: Install the intake tube into the couplers, align the tube then tighten coupler clamps.

Step 17: Replace the vent hose with the supplied hose (15) and mini clamps. Trim to length if necessary.



Figure H

**Refer to Figure H for Steps 18-21.**

Step 18: Install the filter and clamp. Tighten the filter clamp.

Step 19: If equipped with an air temperature, remove the cap ⑯ on the intake tube.

Step 20: Remove the temperature sensor from the OE tube and insert it into the grommet on the intake tube and connect the harness to the sensor.

Step 21: Make sure all clamps and connections are secured. Your installation is now completed.

**NOTE: 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: 21-30018

Pro 5R Air Filter



P/N: 24-30018

Pre-Filter



P/N: 28-10083

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

Throttle Body Spacer



P/N: 46-35001

DANA 30 Differential Cover



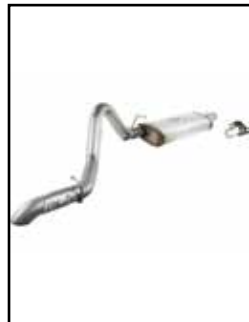
P/N: 46-70192-WL (w/ Oil)

DANA 44 Differential Cover



P/N: 46-70162-WL (w/ Oil)

Exhaust System



P/N: 49-46223

Twisted Steel Headers



P/N: 48-46201

DFC Replacement



P/N: 47-48005

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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