



**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.
- 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.



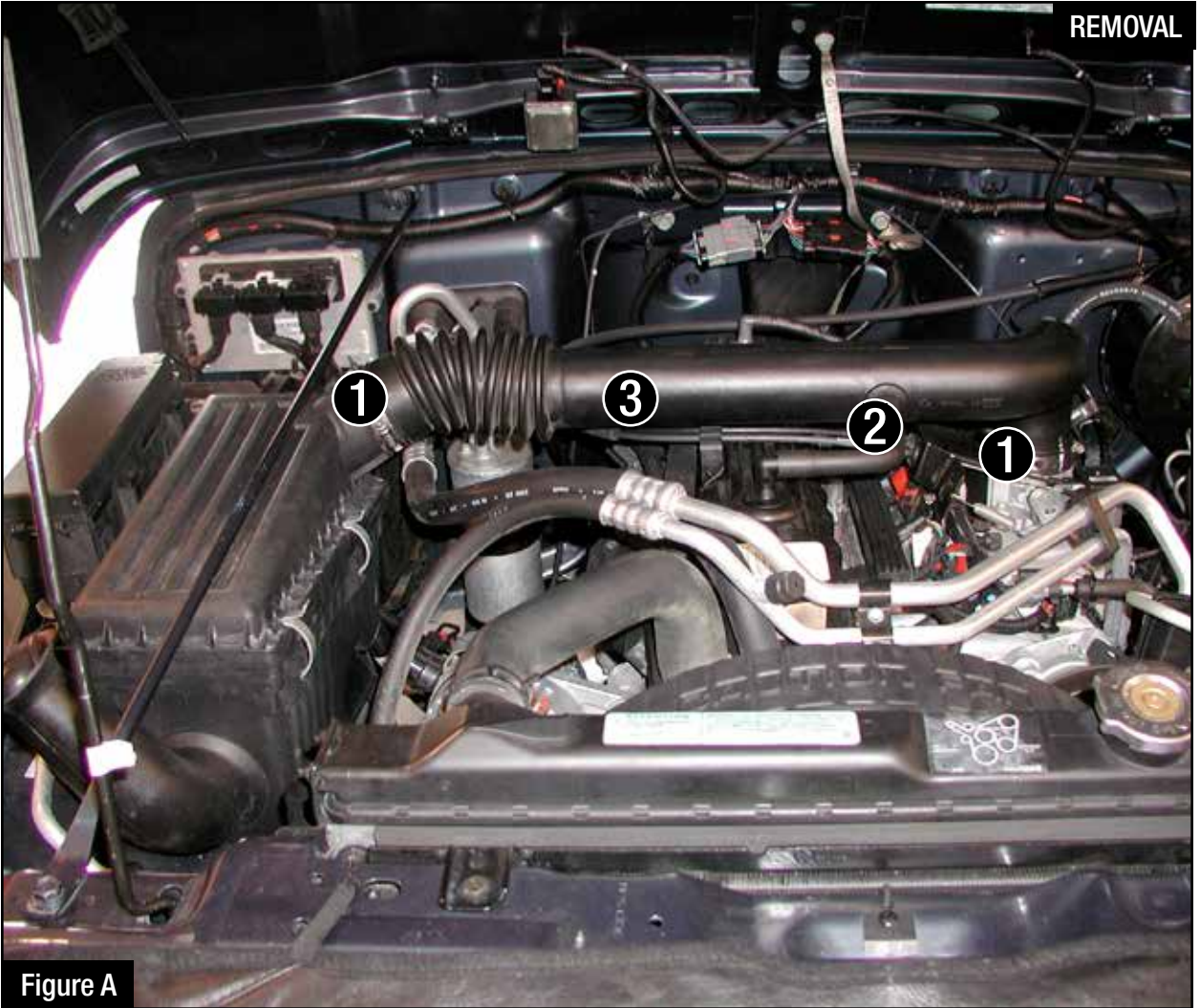


Figure A

**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

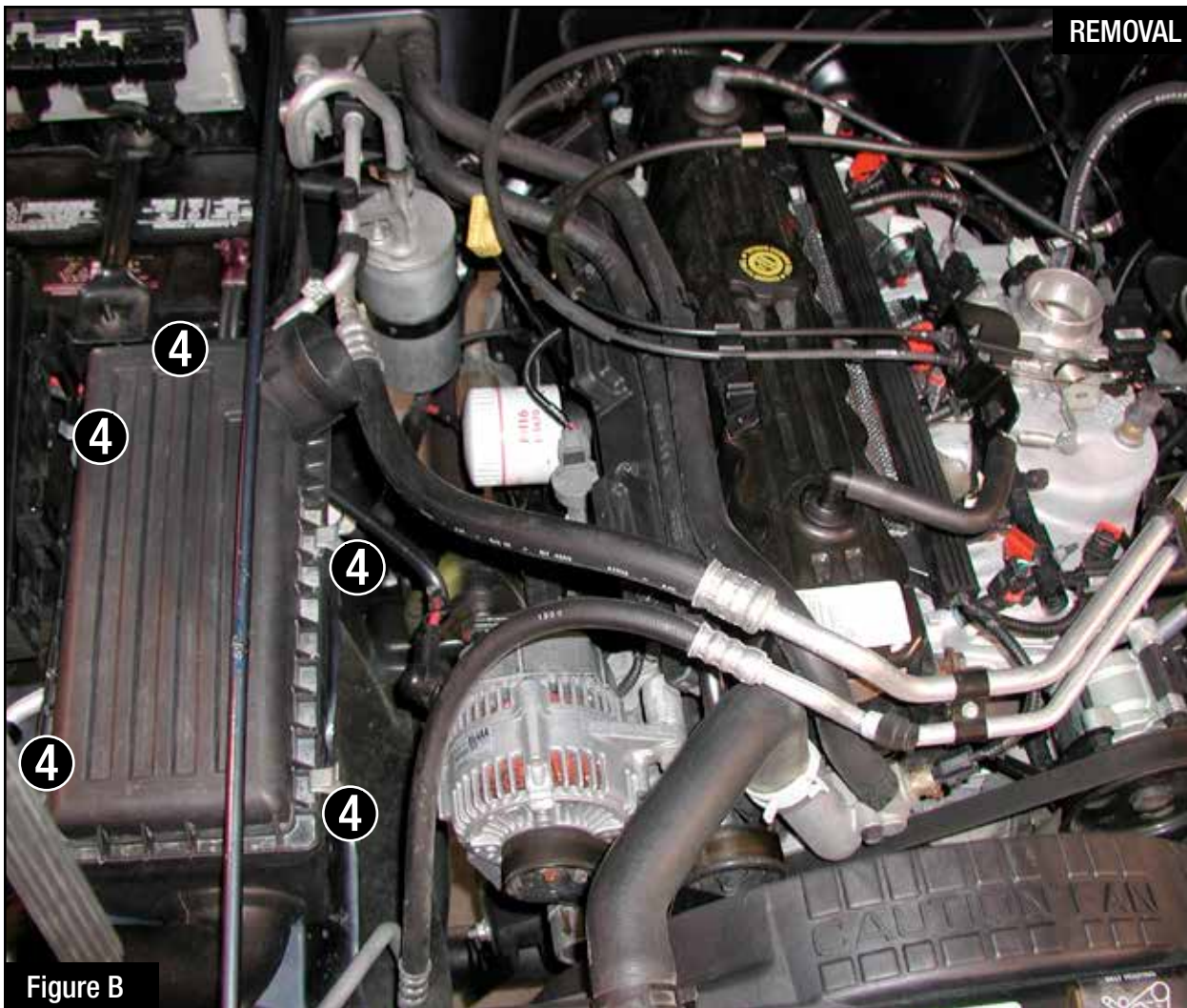


Figure B

**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.



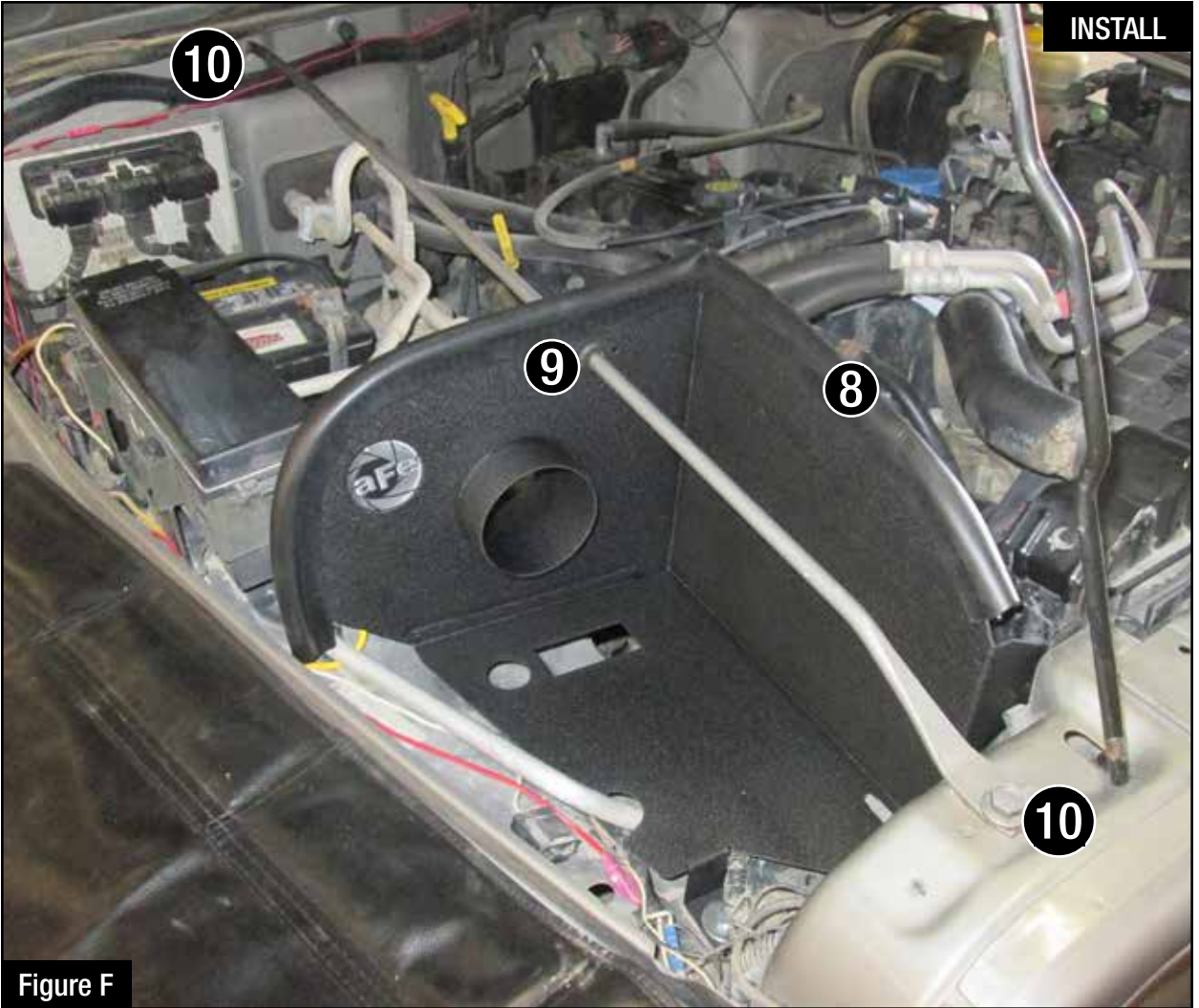


Figure F

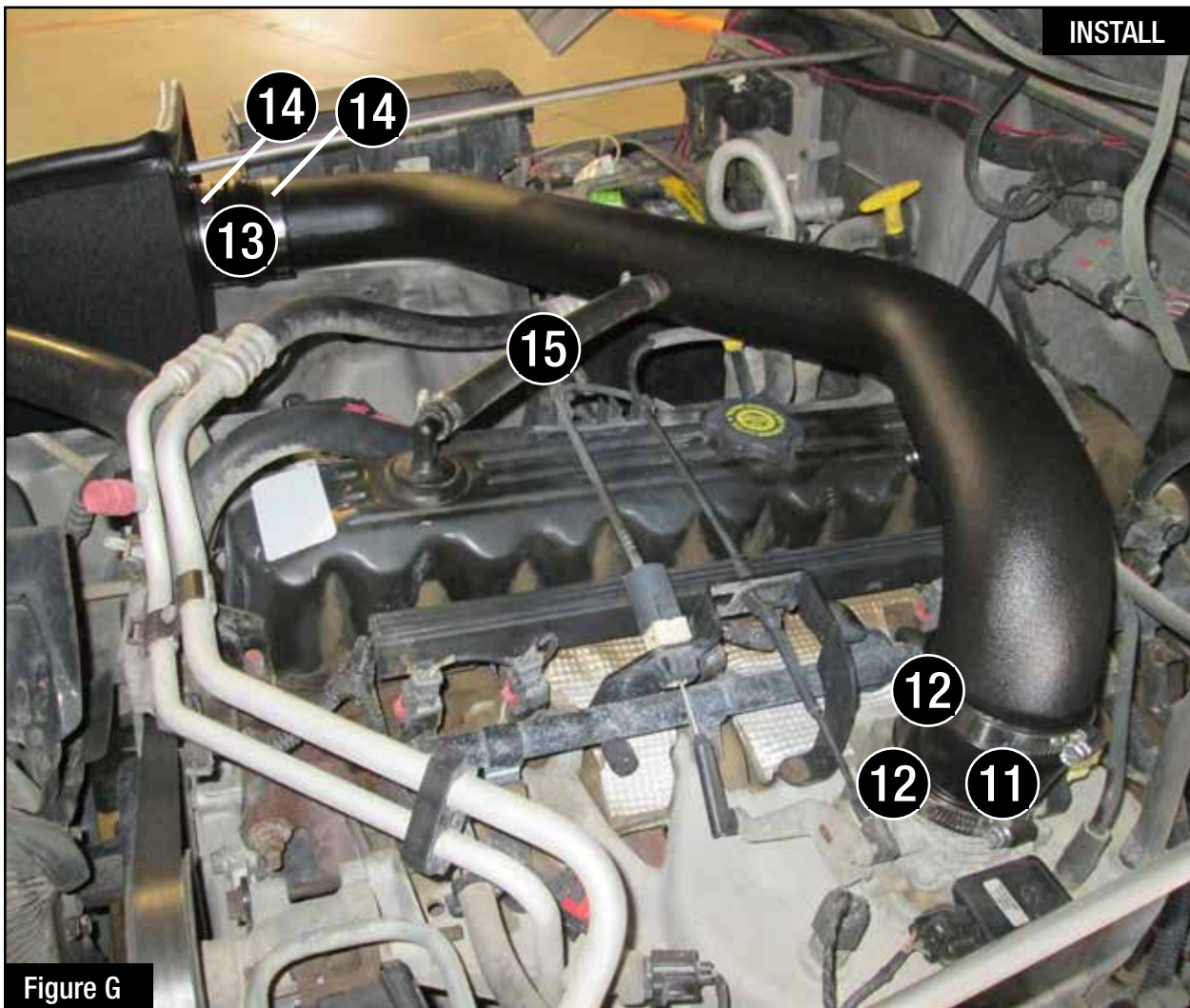
**Refer to Figure F for Steps 10-13.**

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.

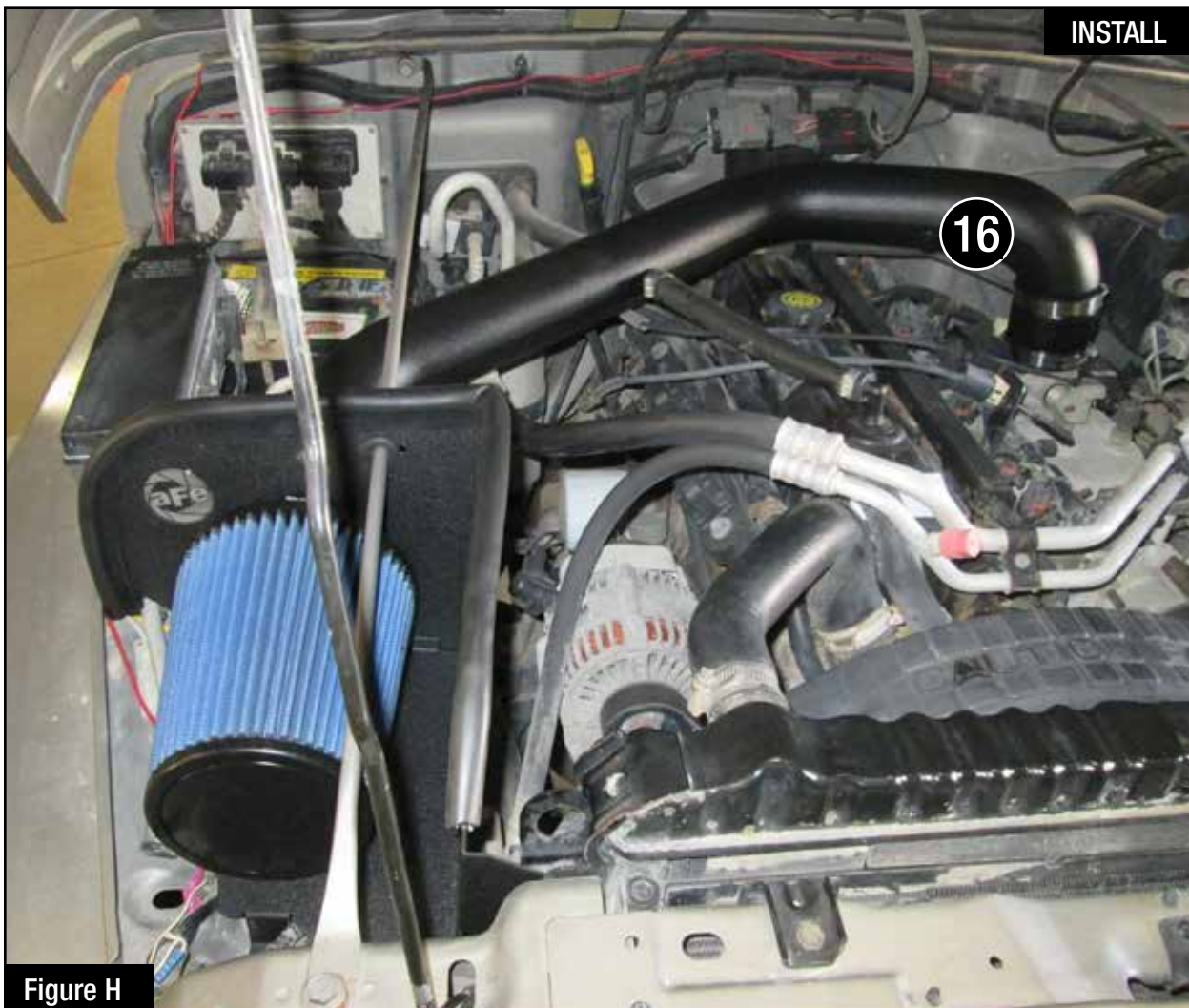


Figure H

**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.**



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