

**advanced FLOW engineering** Quantum Cold Air Intake System

**Instruction Manual** P/N: 53-10017D / 53-10017R

Make: **Jeep** Model: **Wrangler (JL)** Year: **2018-2019** Engine: **V6-3.6L**  
Make: **Jeep** Model: **Gladiator (JT)** Year: **2020** 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.

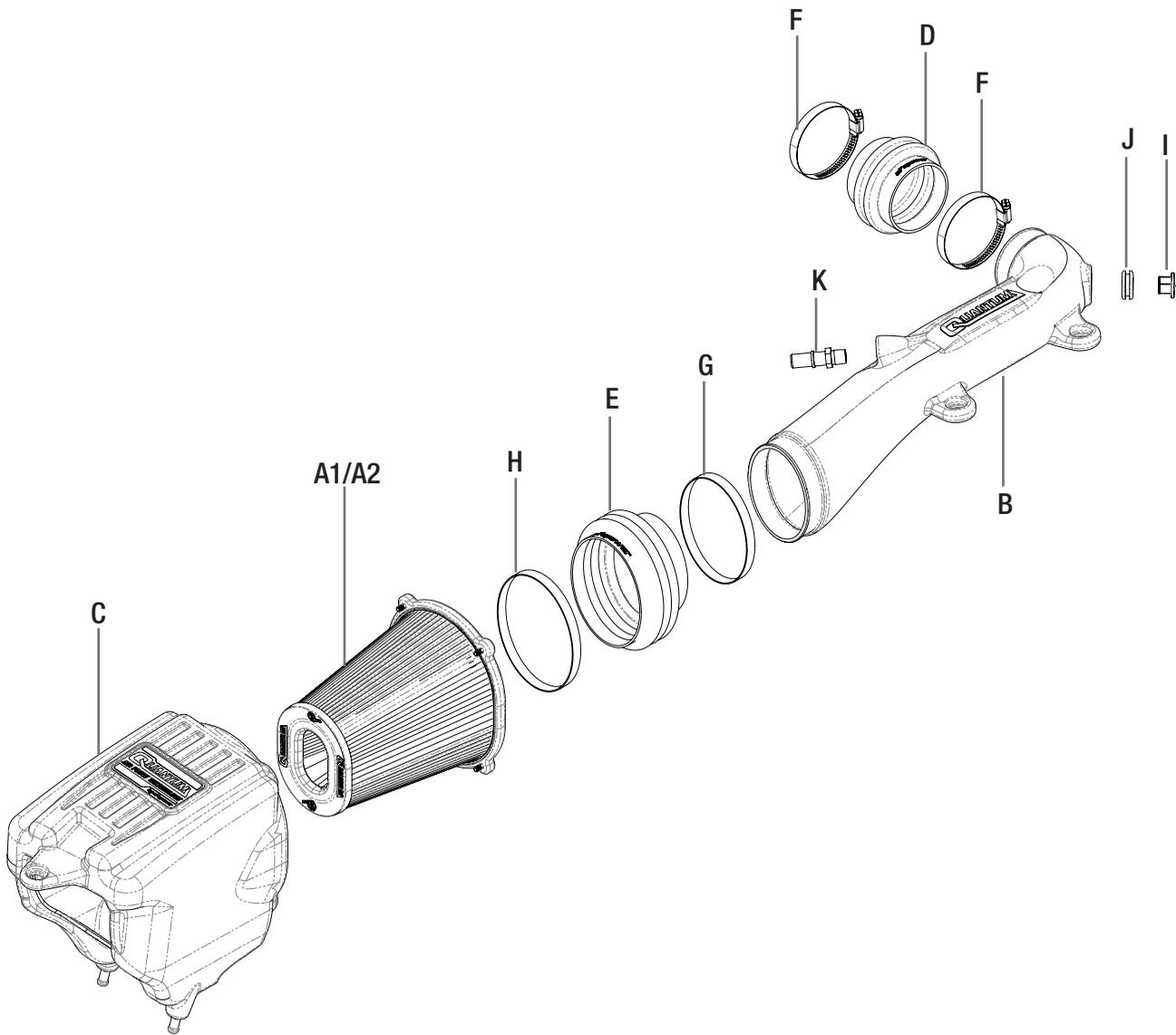
## Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Air Filter (Pro DRY S)	21-90105
A2	1	Air Filter (Pro 5R)	23-91133
B	1	Tube	05-5310017B1
C	1	Housing	05-5310017B2
D	1	Coupling, Silicone Bellow: 3"L	05-01480
E	1	Coupling, Silicone Bellow	05-01457
F	2	Clamp, #048	03-50007
G	1	Clamp, #072	03-50010
H	1	Clamp, #080	03-50011
I	1	CCV Fitting, Large	05-01339
J	1	Grommet, Rubber	03-50167
K	1	Fitting, Air Temp Sensor	05-01454

### Installation will require the following tool(s):

8mm nut driver or flat-head screwdriver, 10mm socket and driver, #3 Phillips-head screwdriver, panel popper tool, 20mm wrench or adjustable wrench, and needle nose pliers.

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 1-2**

Step 1: Using a 10mm socket and driver, remove the (3) screws (1) securing the factory intake to the vehicle.

Step 2: Using an 8mm nut driver, loosen the two clamps (2) on the intake tube.

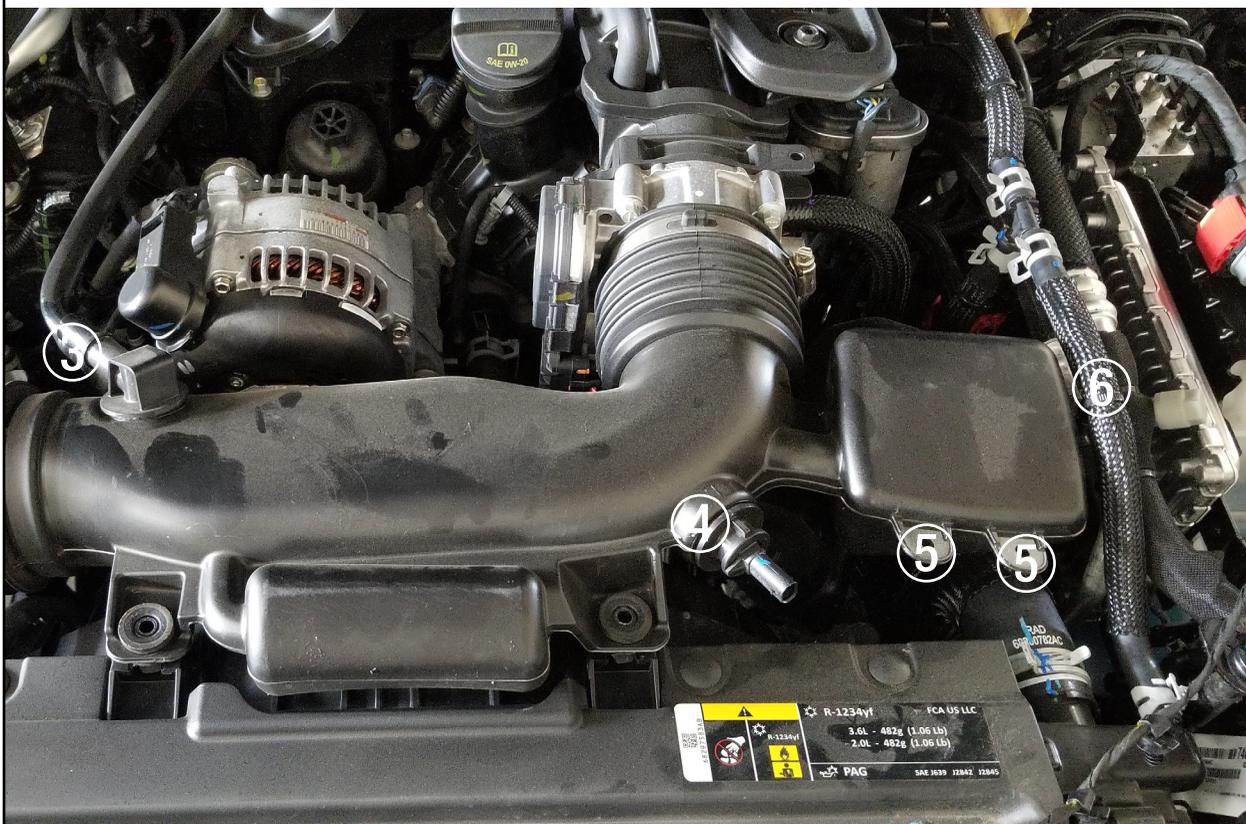


Figure B

### Refer to Figure B for Steps 3-5

Step 3: Disconnect the Crank Case Vent (CCV) (3) by pushing on the grey clip and sliding the tube off the fitting.

Step 4: Disconnect the Intake Air Temperature (IAT) sensor (4).

Step 5: Remove the two (2) attaching clips for the IAT sensor harness (5) and the one (1) clip (6) holding the coolant line from the right side of the intake tube.



Figure C

**Refer to Figure C for Steps 6-8**

Step 6: Remove the factory intake tube from the vehicle.

Step 7: Remove the factory housing from the vehicle by lifting straight upward. If the rubber grommets pop off with the housing, then remove them from the housing and place them back into the holes in the mounting bracket.

Step 8: If the attaching clips on the IAT sensor harness and the coolant line are bent out of shape, then repair them so that they look like the clip shown.



Figure D

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

Step 9: Remove the metal sleeves and rubber grommets (7) from the factory intake tube and reinstall them into the aFe POWER intake tube.

Step 10: Using a 20mm wrench or adjustable wrench, install the supplied aluminum vent fitting (8) into the aFe POWER intake tube.



Figure E

### **Refer to Figure E for Steps 11-13**

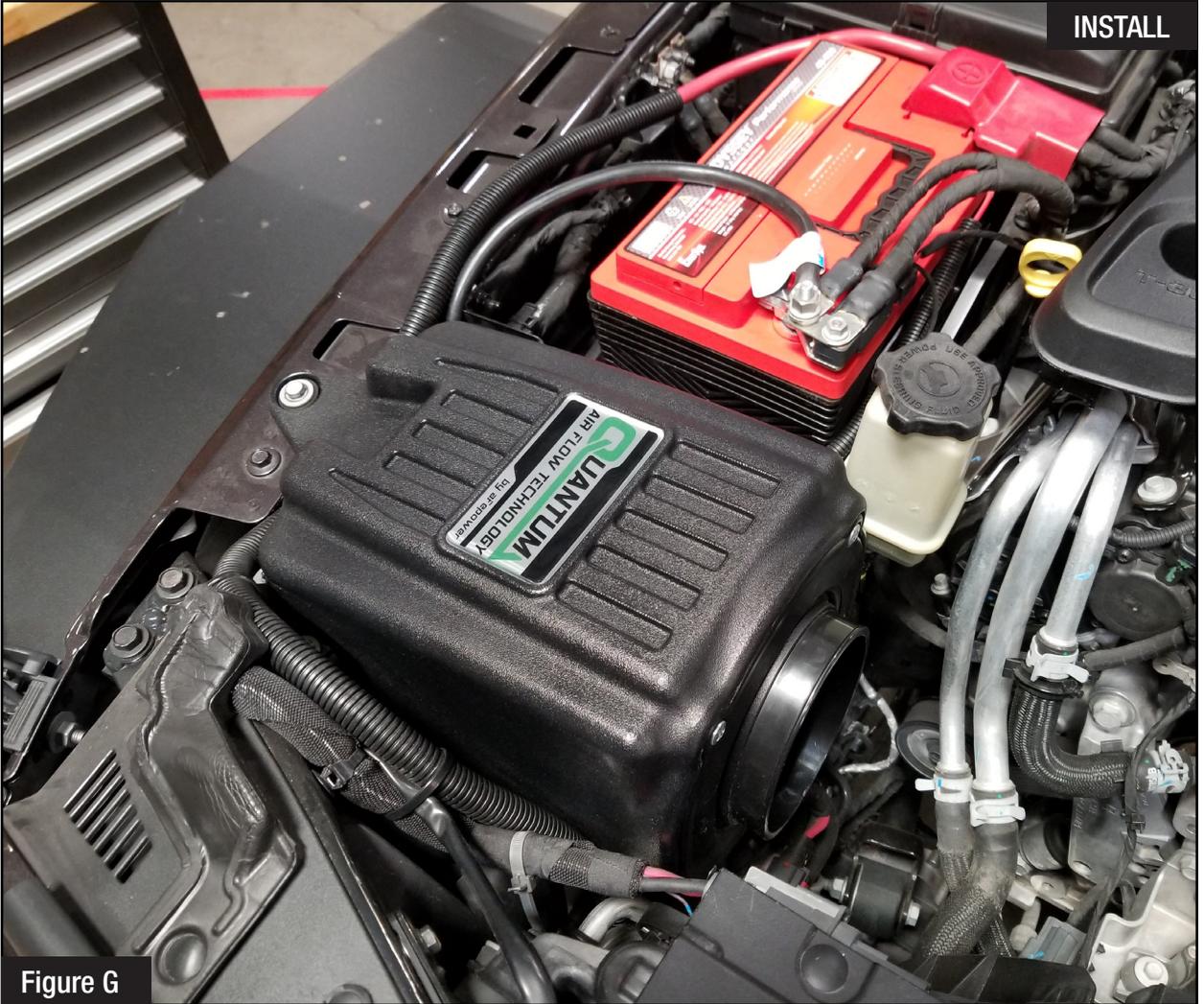
- Step 11: Install the grommet and temp sensor adaptor (9) into the hole on the front of the intake tube. Make sure that the bead on the adaptor is positioned correctly in the grommet so that it cannot pop out during use.
- Step 12: Carefully remove the IAT sensor (10) from the factory intake tube by lifting it up slightly on the plastic tab and rotating the sensor 1/4 turn counterclockwise.
- Step 13: Reinstall the IAT sensor into the temp sensor adaptor on the aFe POWER intake tube and make sure to lock it into position by rotating it clockwise until the small tab clicks into place.



Figure F

**Refer to Figure F for Step 14**

Step 14: Remove the metal sleeve and rubber grommet (11) from the factory housing and reinstall them into the aFe POWER housing as shown.

**Figure G****Refer to Figure G for Steps 15-16**

- Step 15: Slide the aFe POWER filter into the aFe POWER housing. Install the filter using a #3 Phillips screwdriver. Tighten all four (4) screws.
- Step 16: Install the aFe POWER housing and filter assembly into the vehicle by lining up the pegs into the grommets and then pressing down firmly to lock them into place. Use one of the screws removed in Step 1 to secure the housing to the fender.

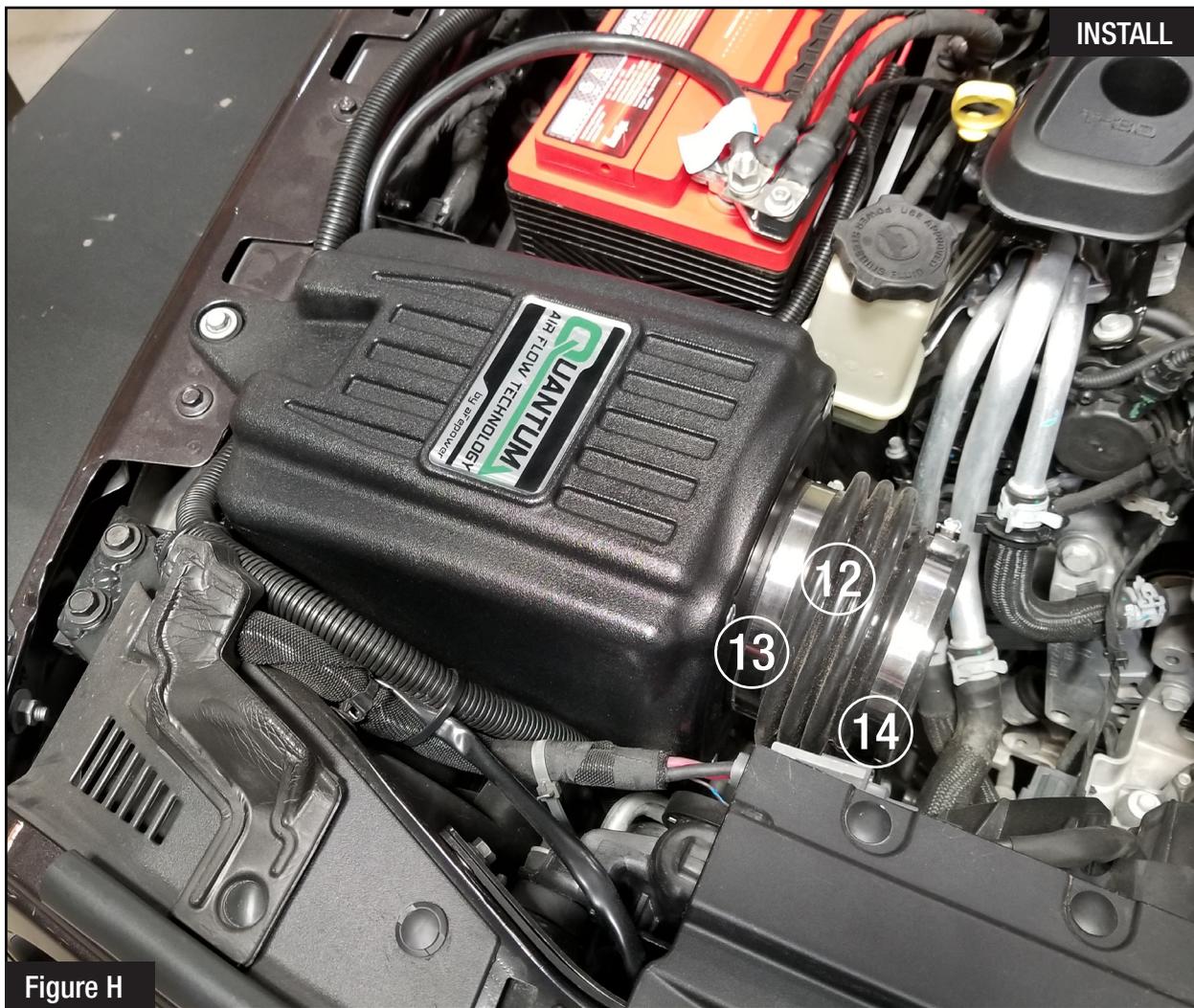


Figure H

**Refer to Figure H for Steps 17-18**

Step 17: Install the supplied large bellows coupler (12) onto the air filter using the supplied #80 clamp (13). Tighten this clamp.

Step 18: Place the #72 clamp (14) onto the filter coupler. Do NOT tighten this clamp.

**Figure I****Refer to Figure I for Step 19**

Step 19: Place the two #48 clamps (15) loosely over each end of the smaller coupler (16) and then install the coupler and clamps onto the end of the intake tube.

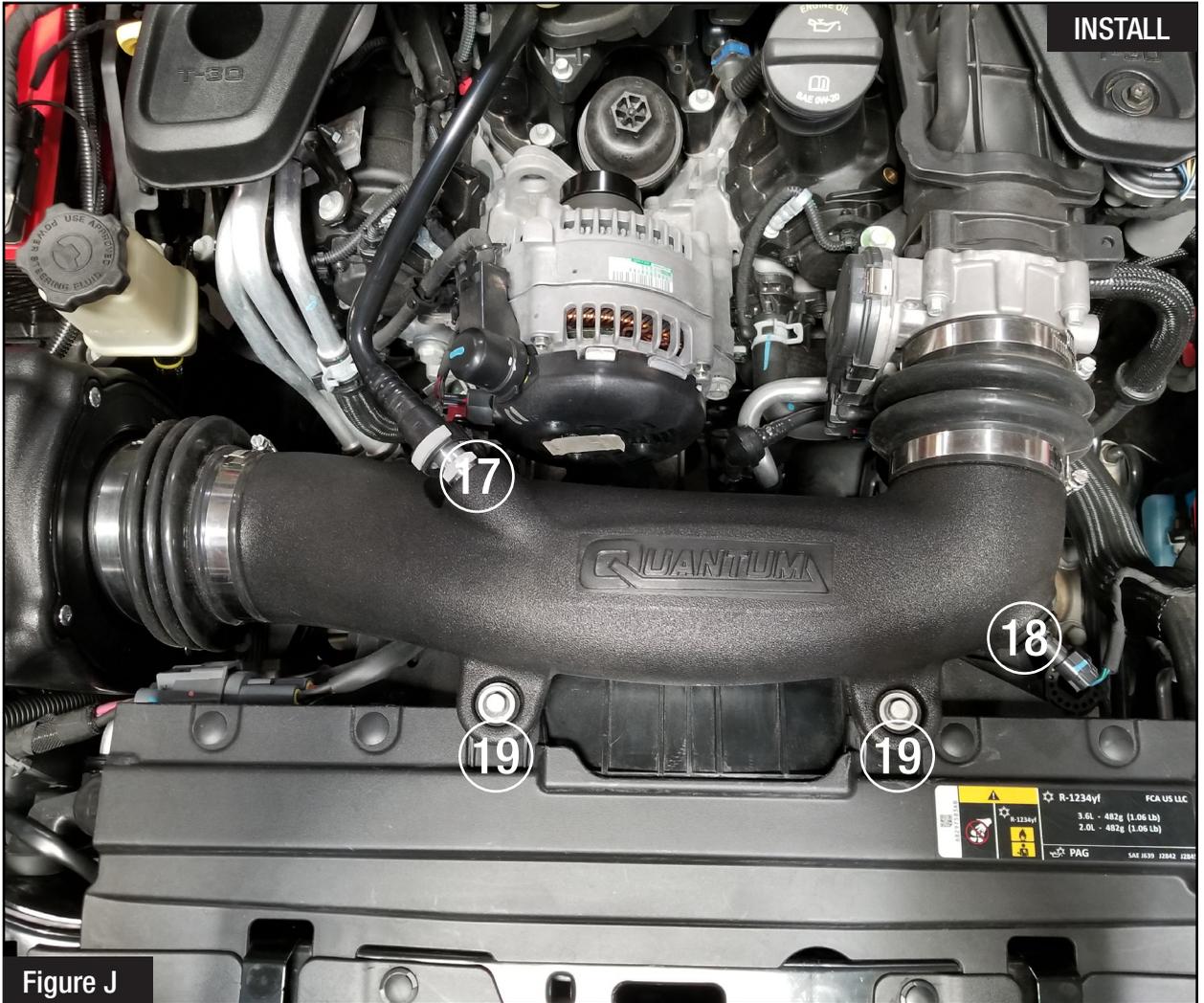


Figure J

**Refer to Figure J for Steps 20-22**

- Step 20: Insert the large end of the tube into the filter coupler and then rotate the other end of the tube so that the coupler slides onto the throttle body.
- Step 21: Connect the CCV to the aluminum fitting (17) on the intake tube and plug in the IAT sensor (18).
- Step 22: Using the remaining two (2) screws (19) removed in Step 1, secure the intake tube to the core support.



Figure K

**Refer to Figure K for Steps 24-26**

Step 24: Tighten all four (4) clamps using an 8mm nut driver or a flat-head screwdriver. Do not over tighten the clamps.

Step 25: Verify that all connectors are secure and the three (3) screws are tightened properly.

Step 26: Your installation is now complete. Thank you for choosing aFe POWER.

**NOTE: Check all bolts, clamps, and connectors after 100-200 miles.**

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PRO DRY S Air Filter



P/N: 21-90105

PRO 5R Air Filter



P/N: 23-91133

PRO DRY S Restore Kit



P/N: 90-50001

Blue Squeeze Restore Kit



P/N: 90-50501

Loop Relocation Pipe



P/N: 48-48027

Axle-Back Exhaust



P/N: 49-48080

Cat-Back Exhaust



P/N: 49-48076-B (Blk. Tips)  
49-48076-P (Pol. Tips)

Cat-Back "Hi-Tuck"  
Exhaust



P/N: 49-48075-B (Blk. Tip)  
49-48075-P (Pol. Tip)  
49-48065 (No Tip)

Rear Differential Cover



P/N: 46-71000B (Black)  
46-71030R (Red)

Throttle Body Spacer



P/N: 46-35008

Sprint Booster V3



P/N: 77-16205

SCORCHER GT Module



P/N: 77-46205

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 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](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, 23, 24, 72,TF	2 years
Air Intake Systems	50, 51, 53, 54, 55, 56, 75,TR,TA,TL	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
Turbochargers	46-6	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.

\*See turbocharger warranty for more info



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