

## advanced FLOW engineering Stage-2 Air Intake

### Instruction Manual P/N: 51-12152-B /54-12152-B

Make: **Dodge**

Model: **Challenger**

Year: **2011-2019**

Engine: **V6-3.6L**

Make: **Dodge**

Model: **Charger**

Year: **2011-2019**

Engine: **V6-3.6L**

Make: **Chrysler**

Model: **300/300S**

Year: **2011-2014**

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	21-91071
A2	1	Pro 5R Air Filter	24-91071
B	1	Housing	05-12152B2
C	1	Intake Tube	05-12152B1
D	1	Seal, Trim (5.50 inches)	05-00072
E	1	Seal, Trim (25 inches)	05-00072
F	2	Clamp, 052	03-50008
G	1	Coupling, Hump	05-00564
H	2	Isolation Mount	03-50206
I	2	Washer, Flat M6	03-50070
J	1	Nut, Hex	03-50059
K	1	Hose 5/8" (8.50 inches)	05-00069
L	1	Grommet, Rubber	03-50050
M	1	Screw Hex	03-50032

**Installation will require the following tools:**

8mm Nut Driver, 10mm Nut Driver, 10mm Wrench, Flat Head Screw Driver, Pliers

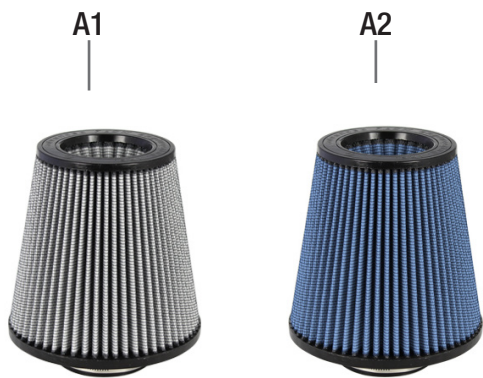




Figure A

**Refer to Figure A for steps 1-5**

Step 1. Remove the engine cover by lifting firmly up ①.

Step 2. Remove the temperature sensor by unclipping the harness ②.

Step 3. Loosen the throttle body clamp ③.

Step 4. Remove the stock housing mount screw. (Save screw it will be re-used with the aFe housing) ④.

Step 5. Disconnect the stock vent hose from the housing to the engine ⑤.



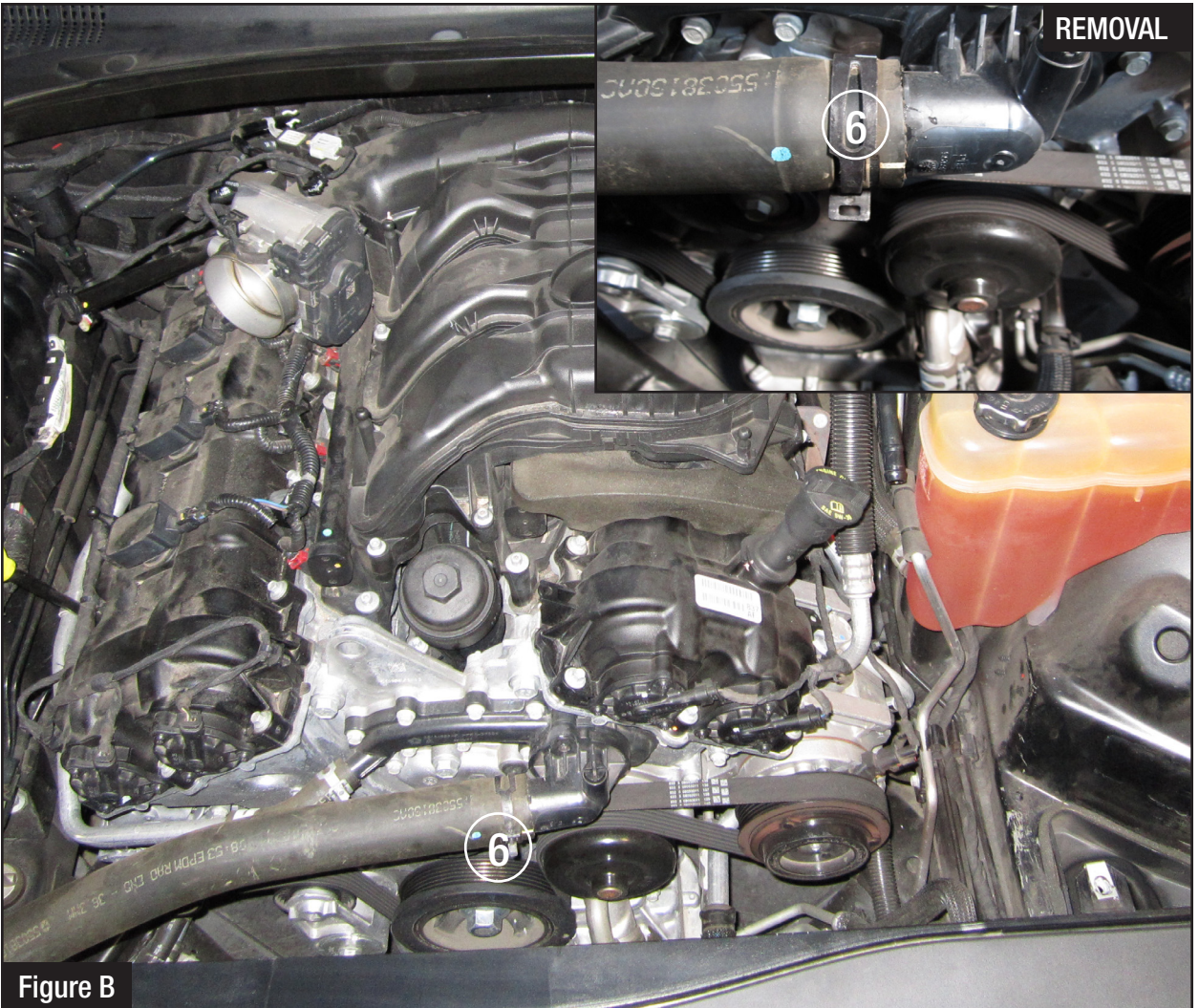


Figure B

**Refer to Figure B for steps 6-7**

Step 6. Remove stock Intake with housing by pulling on the throttle body side and then lift the housing upwards.

Step 7. Rotate the upper radiator clamp for extra tube clearance. Do not remove hose. (Make sure the engine is cold if the clamp needs to be rotated) ⑥.



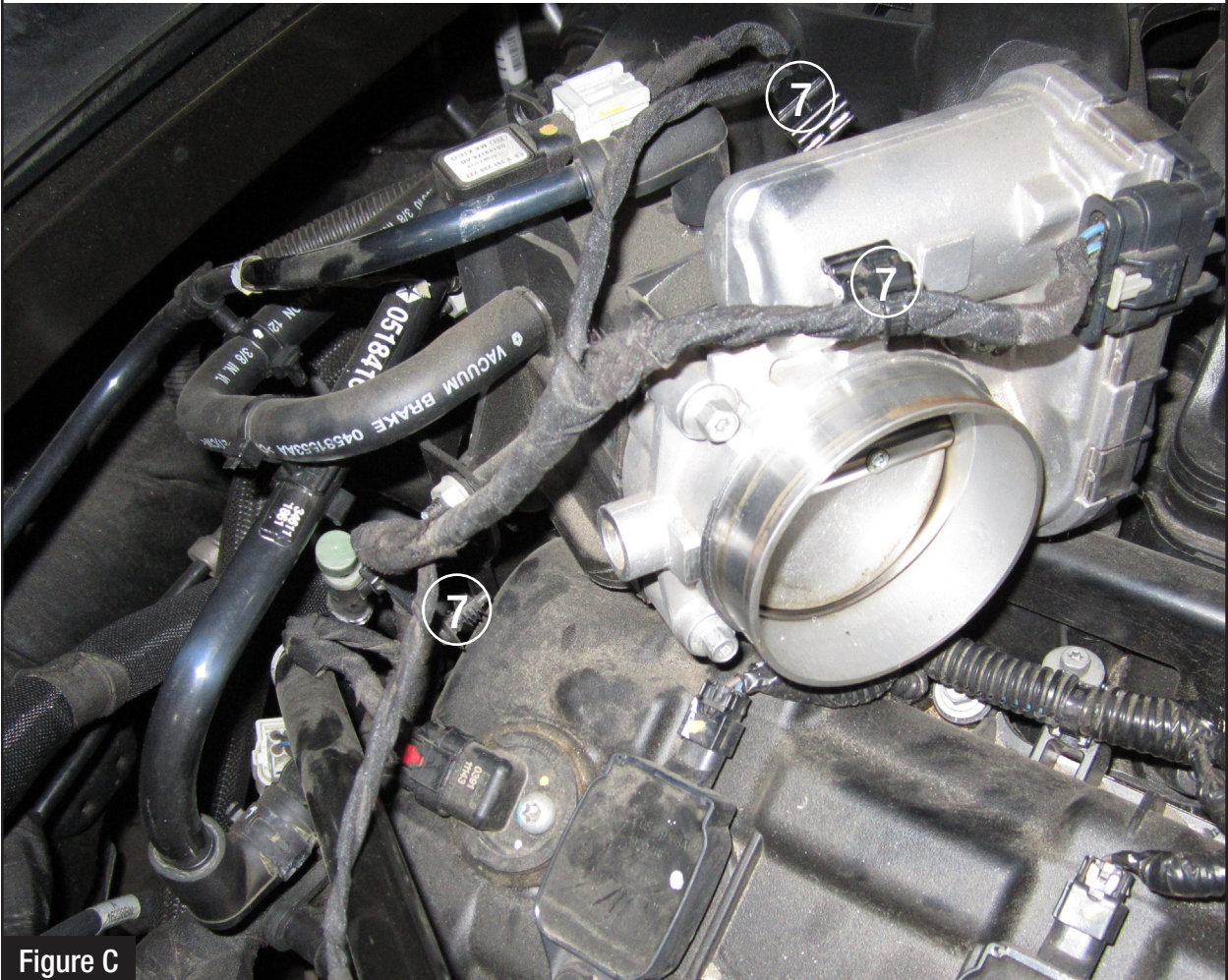


Figure C

**Refer to Figure C for step 8**

Step 8. Remove the temperature sensor secure clips from the throttle body to give you more slack in the harness (7).

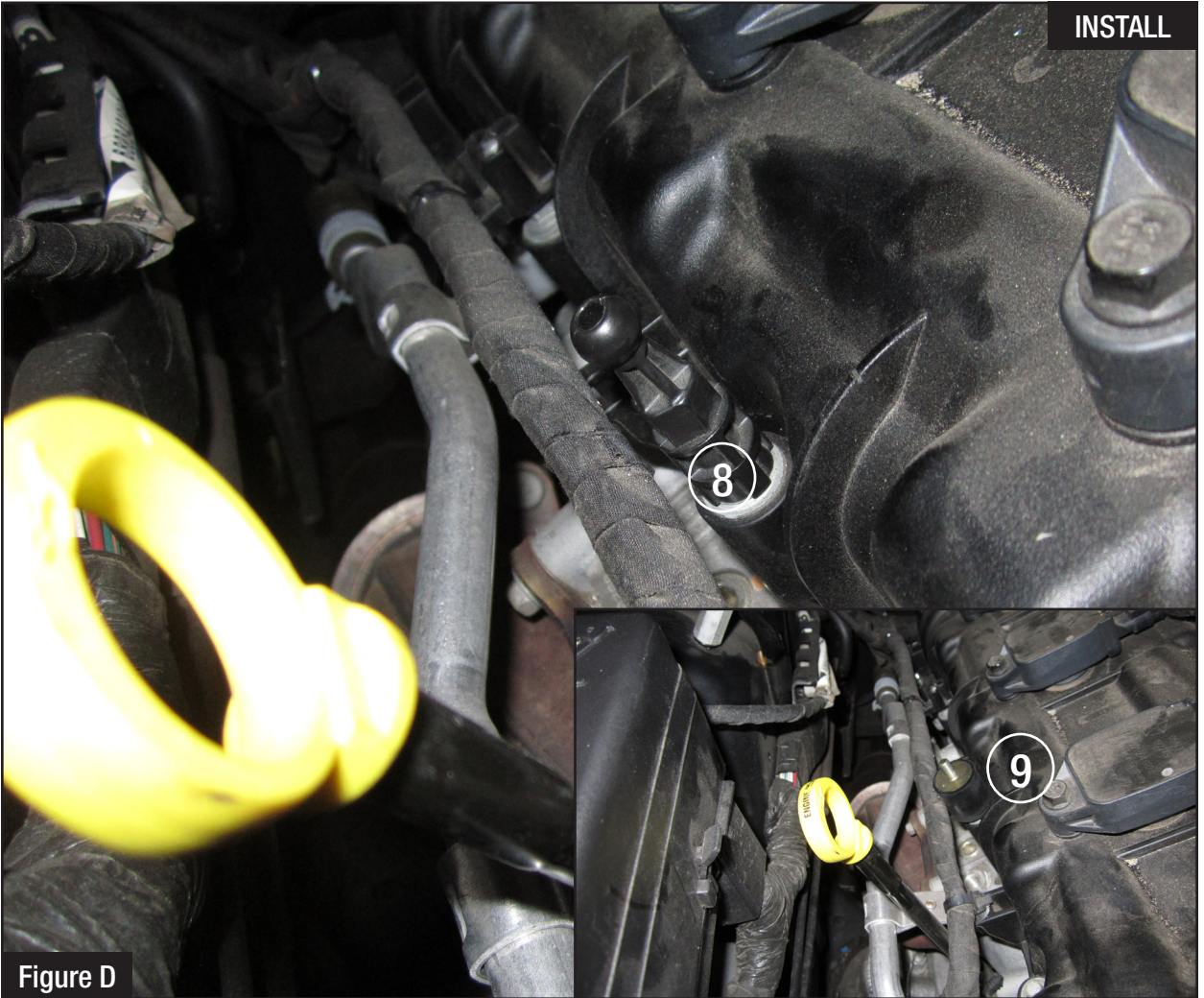


Figure D

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

Step 9. Remove the stock plastic intake plenum mount located on the passenger side of the valve cover (8).

Step 10. Screw the rubber isolation mount where the Plenum mount was located (9).



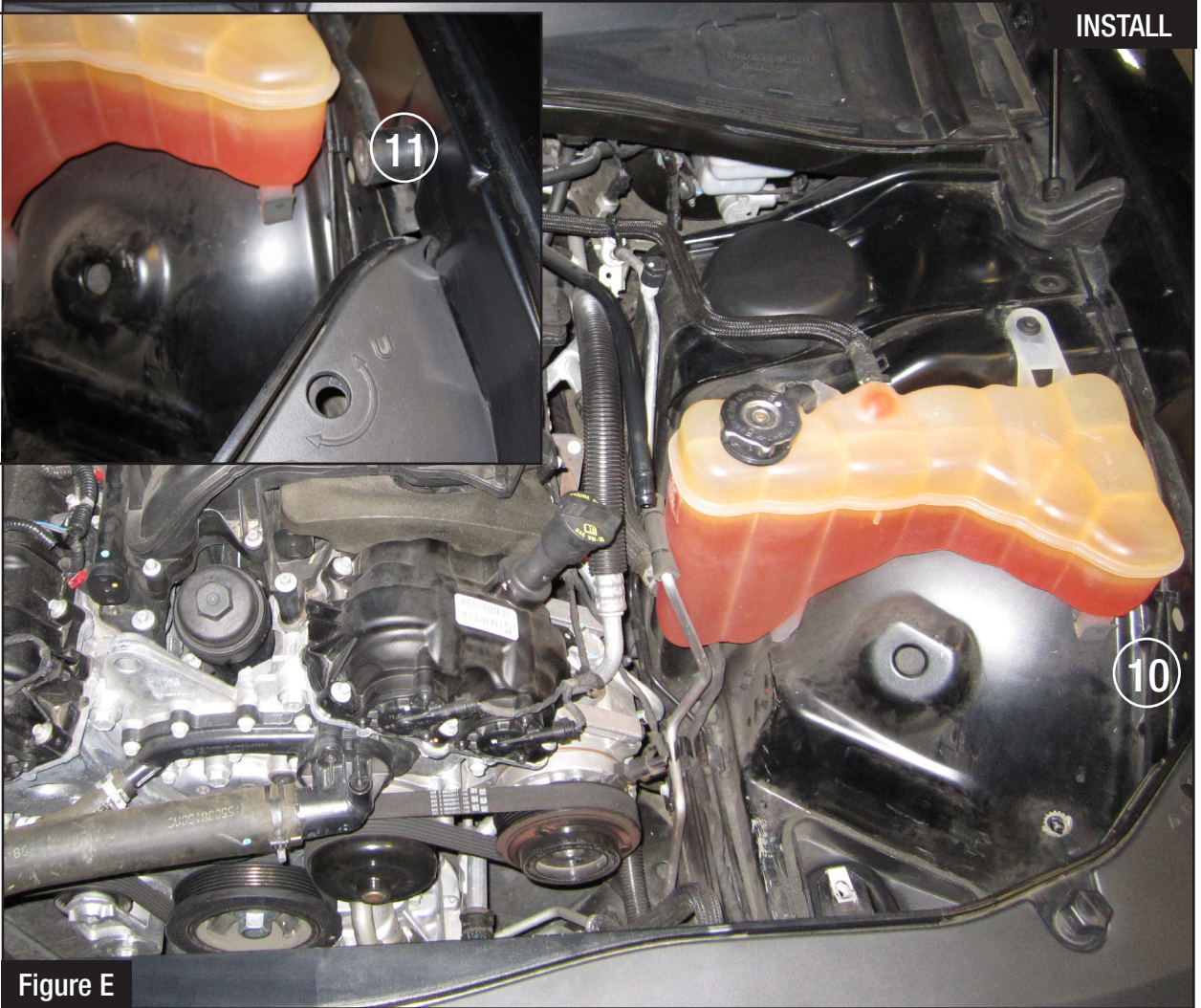


Figure E

**Refer to Figure E for steps 11-12**

Step 11. Remove 10mm fender screw ⑩.

Step 12. Install aFe Isolation mount male side. Tighten by hand ⑪.



INSTALL

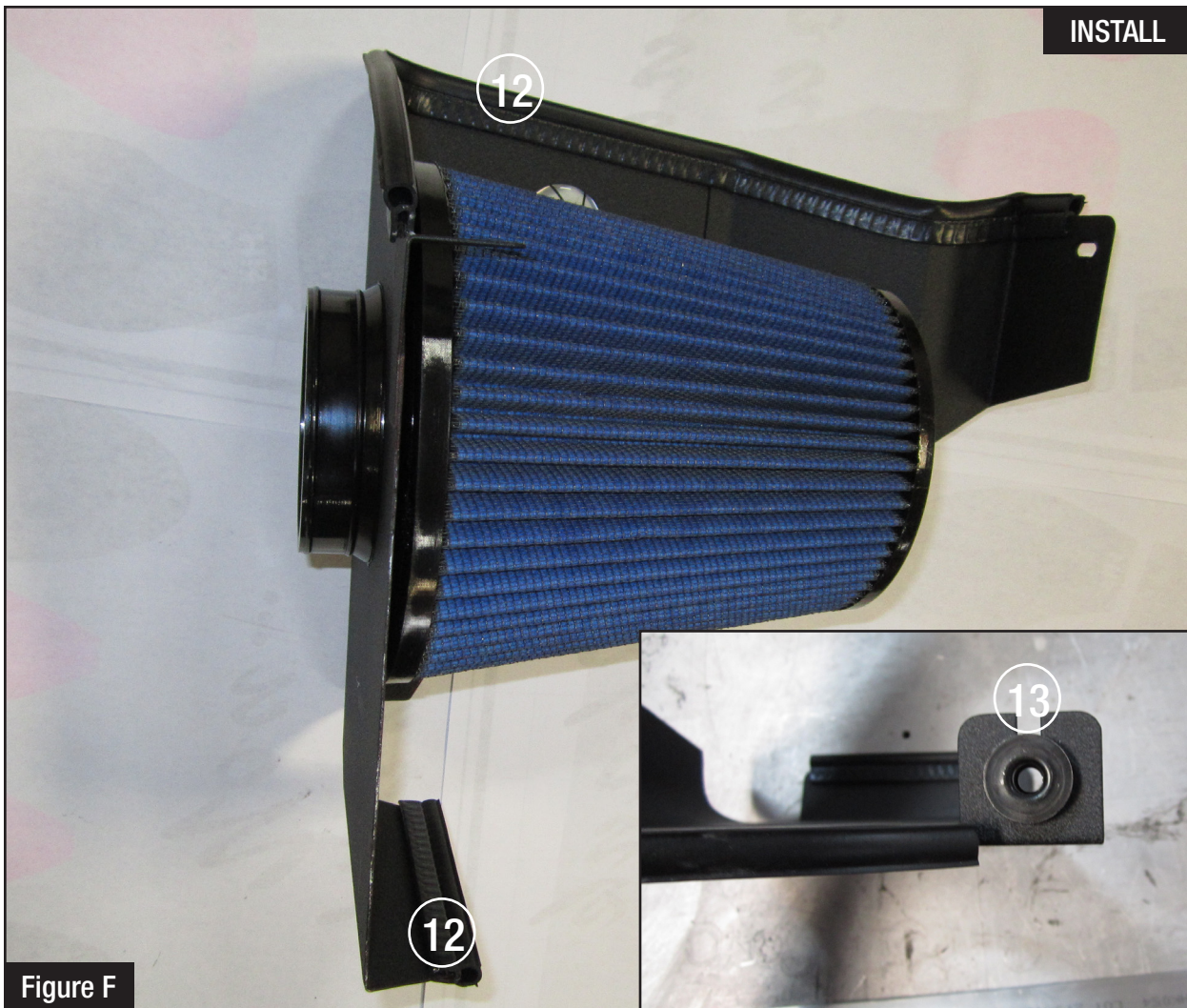


Figure F

**Refer to Figure F for steps 13-15**

Step 13. Assemble the aFe housing. Install the trim seal on both top and bottom portion of the housing  
As shown on figure ⑫.

Step 14. Install the aFe filter on housing by sliding one side thru filter hole. Gently sliding filter in the hole until its flat against the housing. The filter should be held in place by it's molded retention lip and groove ⑫.

Step 15. Transfer the Insolation grommet and sleeve from the stock housing to the new aFe housing ⑬.

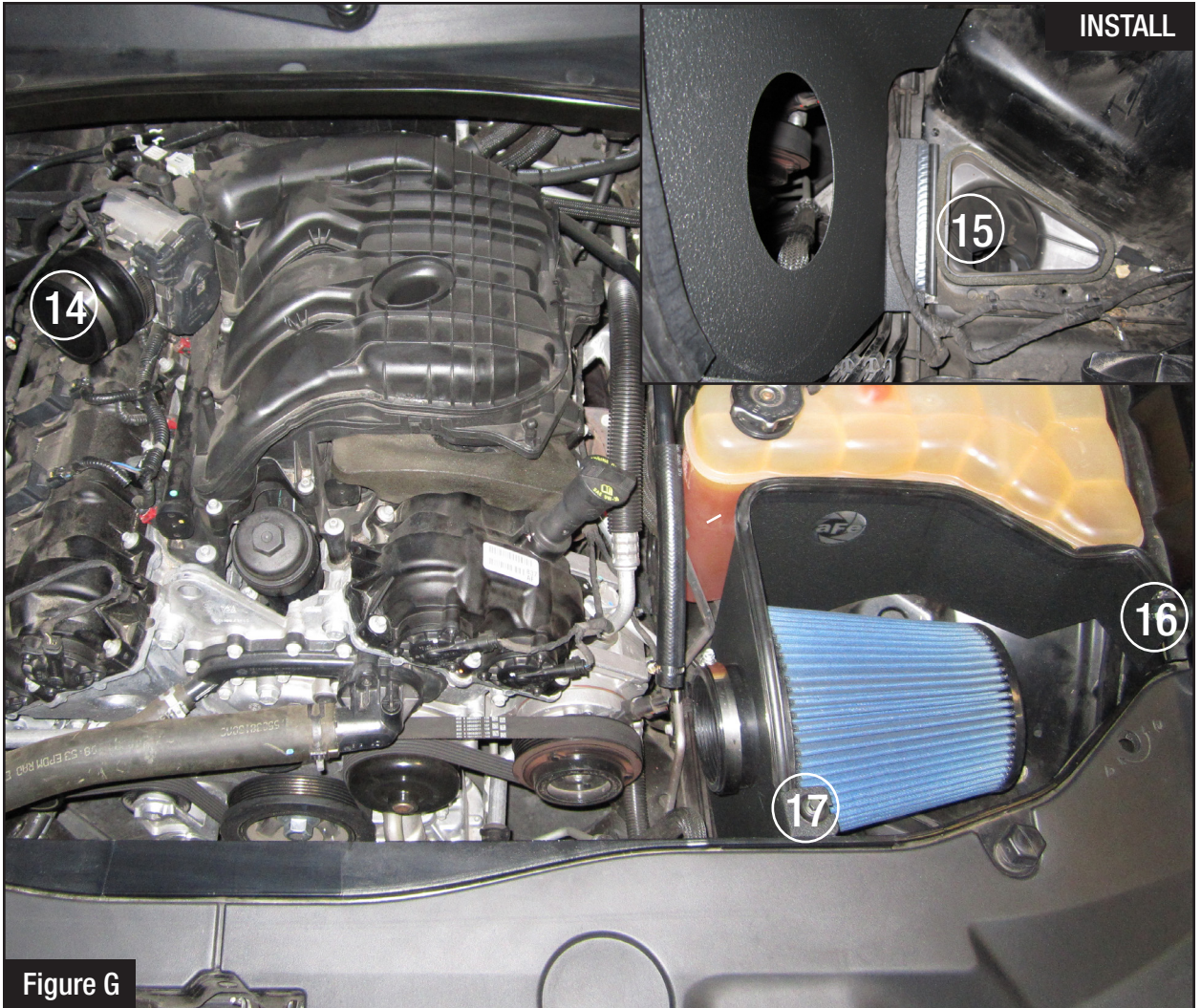


Figure G

**Refer to Figure G for steps 16-19**

Step 16. Install aFe coupler onto the throttle body, use provided hardware. Tighten throttle body side only (14).

Step 17. Install aFe assembled housing. (Make sure to place any wire harness on top of the lower portion of the housing to avoid chaffing) (15).

Step 18. Use provided hardware to secure the aFe housing to the Fender isolation mount (16).

Step 19. Re-use the stock housing screw to secure the aFe housing (17).





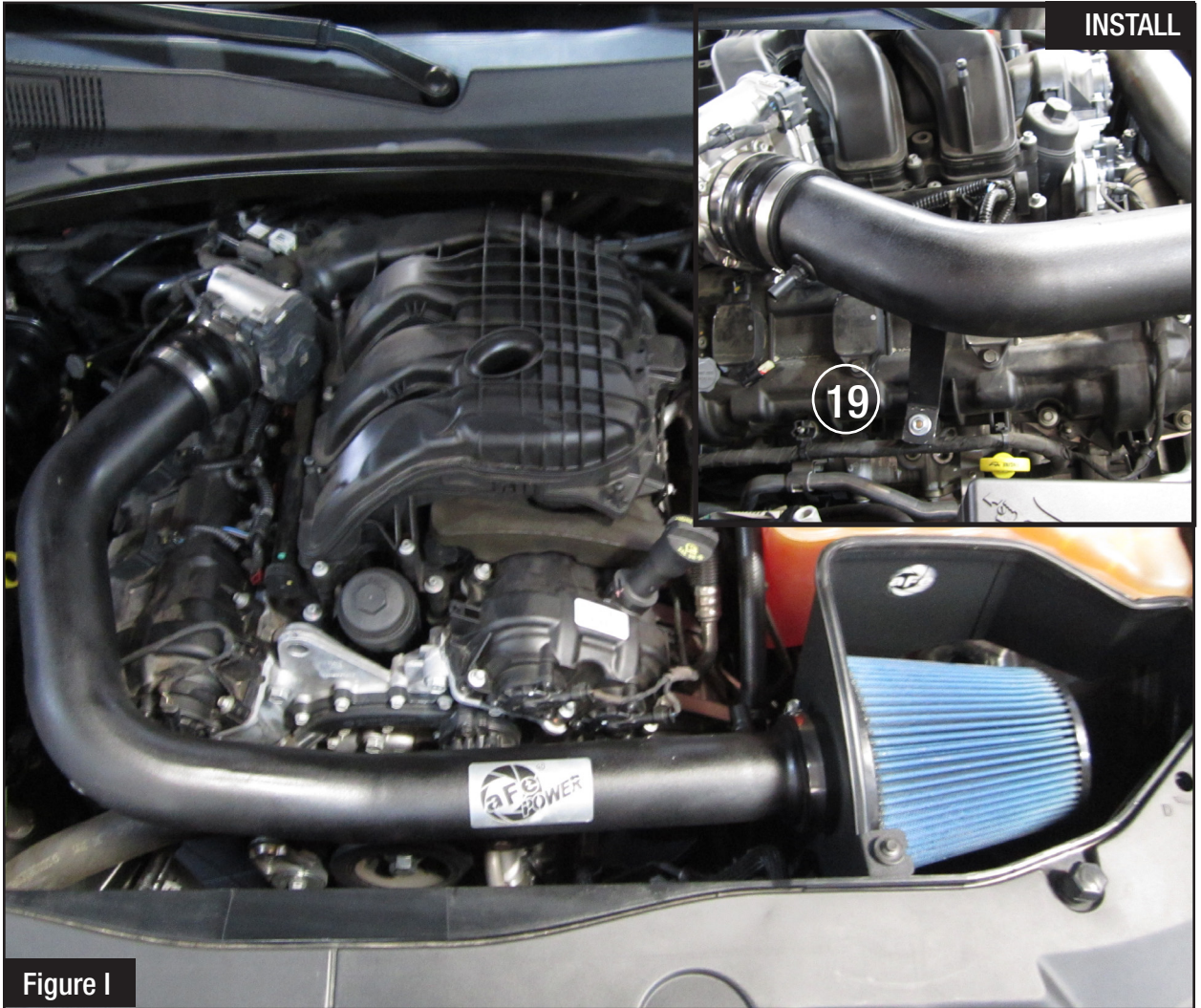
Figure H

**Refer to Figure H for steps 20-22**

Step 20. Remove Temp sensor from stock intake. (Remove green O-ring from Temp sensor).

Step 21. Install grommet on aFe intake tube (18).

Step 22. insert the Temp sensor that was removed from stock intake tube into the aFe intake tube (18).



**Refer to Figure I for steps 23-25**

Step 23. Install aFe intake tube filter side first. Do Not Tighten.

Step 24. Slide aFe intake tube onto throttle body.

Step 25. Use provided hardware to secure intake bracket in place.

Tighten all tube clamps (19).





Figure J

**Refer to Figure J for steps 26-29**

Step 26. Install aFe Vent tube hose. (Use provided clamp on intake tube side) ②0.

Step 27. Make sure all clamps are tightened.

Step 28. Re- Install Engine Cover.

Step 29. Installation is now complete.

**NOTE: Retighten all connections after approximately 100-200 miles.**

**Place enclosed 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: 21-91071

Pro 5R Air Filter



P/N: 24-91071

Pro DRY S Restore Kit



P/N: 90-59999

Blue Aerosol Restore Kit



P/N: 90-50001

Blue Squeeze Restore Kit



P/N: 90-50501

Oil Filter



P/N: 44-LF026

Sprint Booster V3



P/N: 77-12009

To purchase any of the items above, view airflow charts, dyno graphs, photos, and video; please go to [aFepower.com](http://aFepower.com).

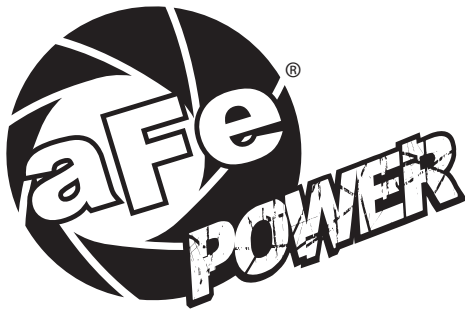
# Warranty

## 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, 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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