

advanced FLOW engineering Rapid Induction Cold Air Intake System

Instruction Manual P/N: 52-10001D / 52-10001R

Make: Ford

Model: Ranger

Year: 2019-2021

Engine: L4-2.3L (t)



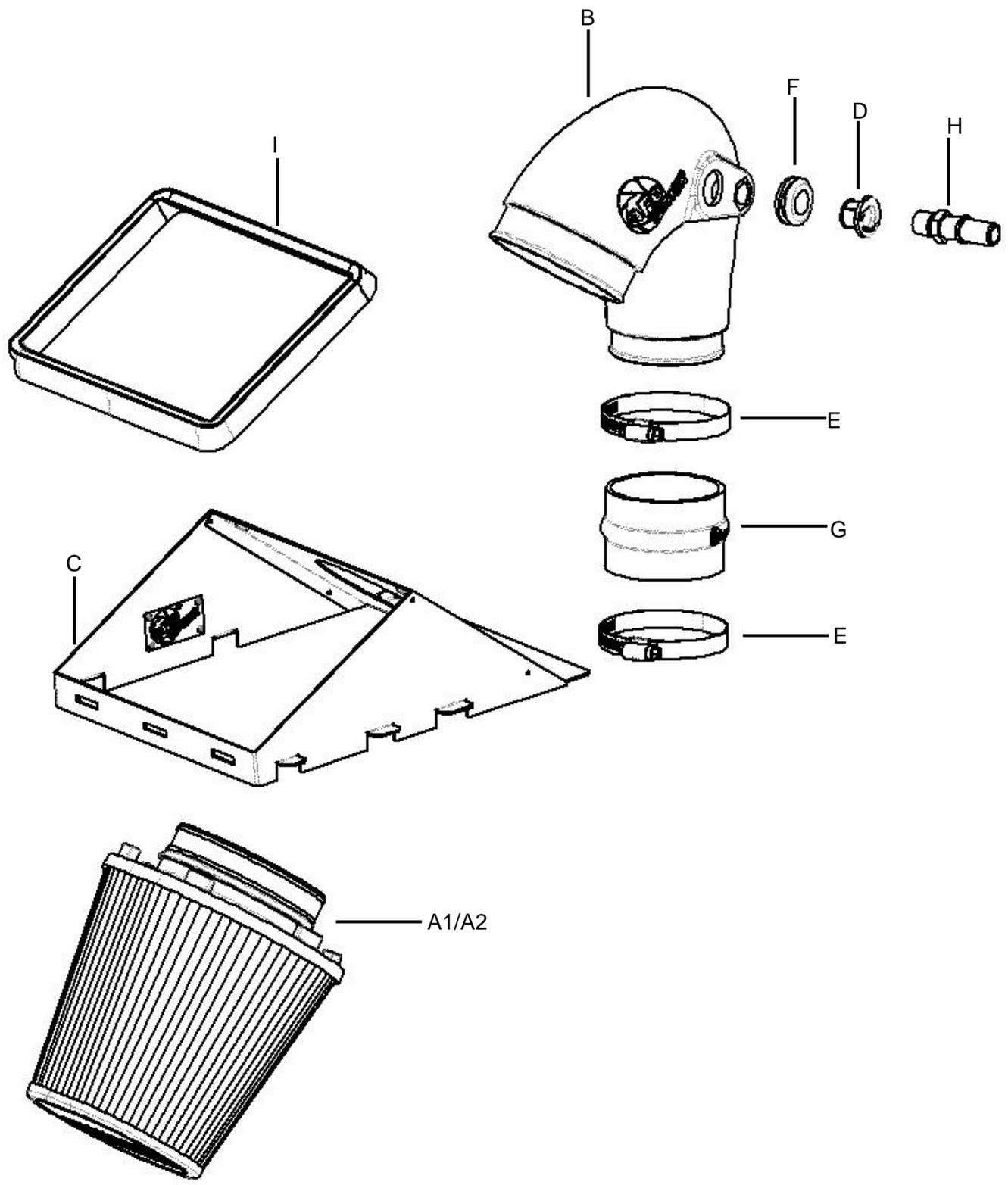
- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support at 951-493-7100.
- Ensure you have all necessary tools before proceeding.
- Do not attempt to work on your vehicle when the engine is hot.
- Retain factory parts for future use.

Label	Qty.	Description	Part Number
A1	1	Air Filter (Pro 5R)	24-90113
A2	1	Air Filter (Pro DRY S)	21-90113
B	1	Tube	05-5210001B1
C	1	Housing	05-5210001B2
D	1	Adaptor, Air Temp Sensor	05-01454
E	2	Clamp, 048 (2-9/16" - 3-1/2 ")	03-50007
F	1	Grommet, Rubber	03-50167
G	1	Coupling, Silicone Hump: 3"ID x 2-1/4"L	05-01245
H	1	Fitting, Large	05-01339
I	1	Seal Trim (length 32")	05-00072

Installation will require the following tools:

Panel clip remover or small flat-head screwdriver, 7mm & 8mm nut drivers.

Emissions Disclaimer: This product is not currently CARB exempt and is not available for purchase in California or for use on any vehicle registered with the California Department of Motor Vehicles.



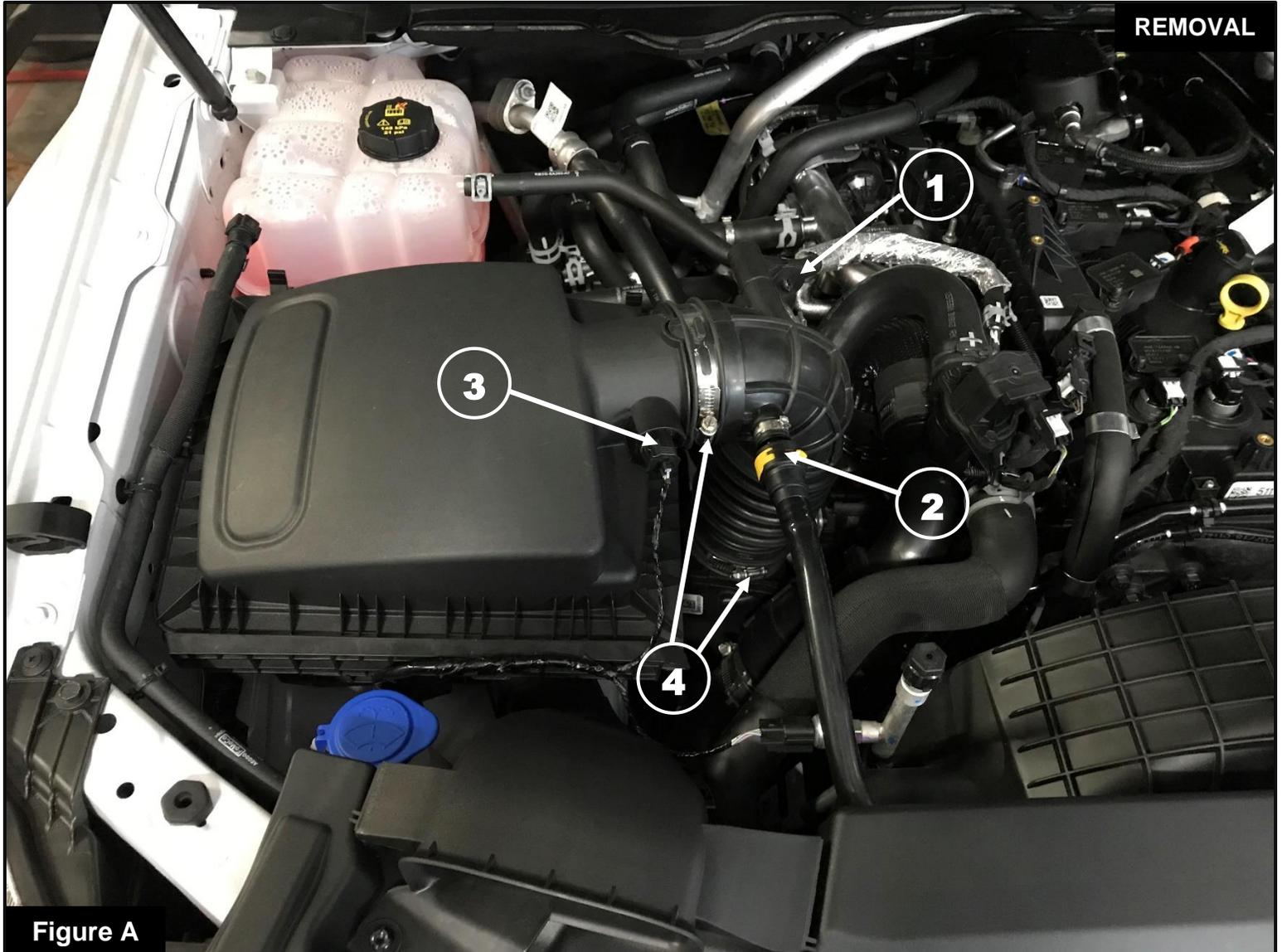


Figure A

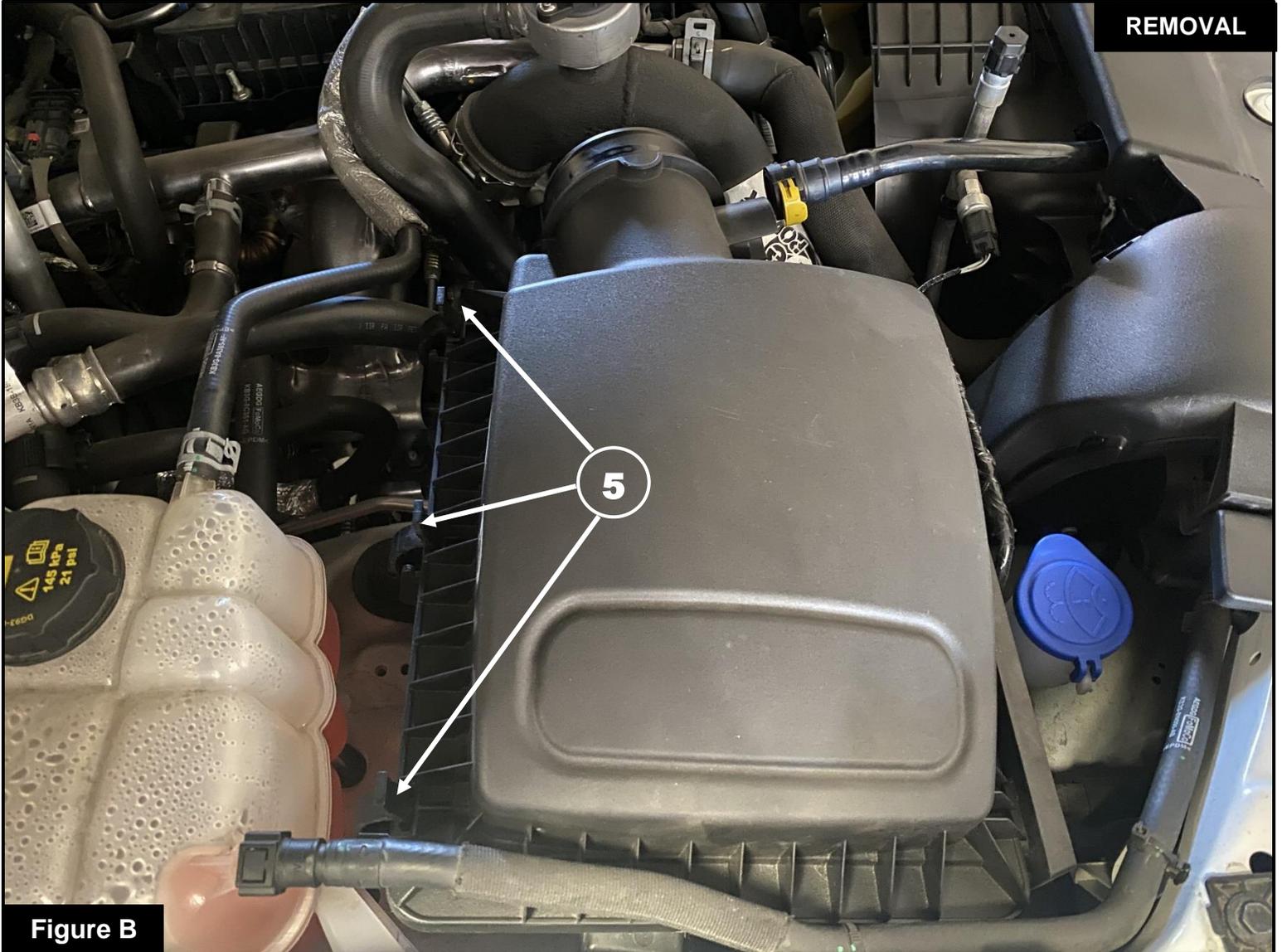
Refer to Figure A for Steps 1-4

Step 1: Using a panel clip remover or flat head screwdriver, remove the coolant line (1) attached to the factory intake tube.

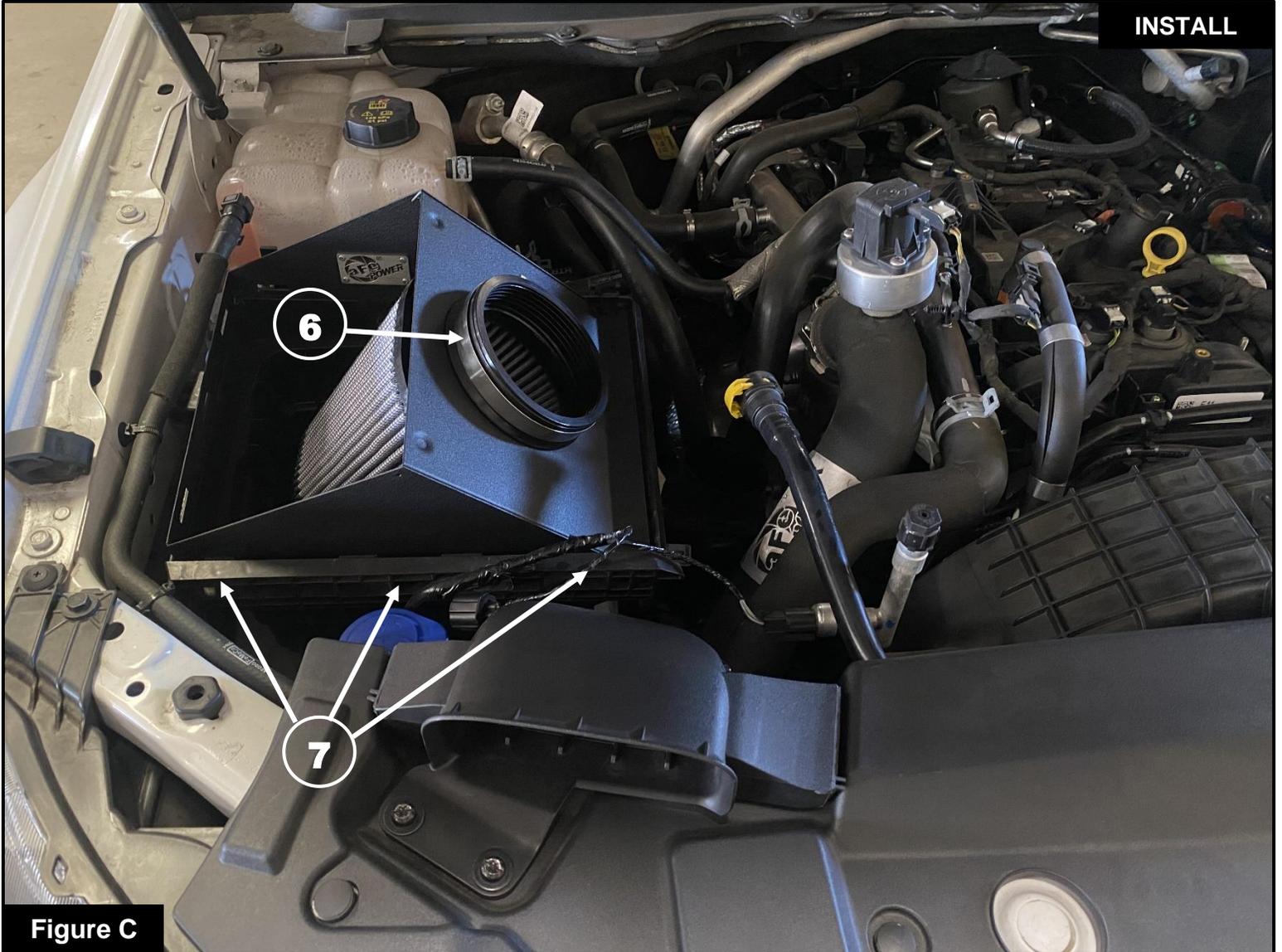
Step 2: Disconnect the vent hose (2) from the factory upper intake tube.

Step 3: Disconnect the air temperature sensor (3).

Step 4: Using a 7mm nut driver, loosen the clamps (4) attaching the factory upper intake tube. Remove the factory intake tube and set aside.

**Figure B****Refer to Figure B for Step 5**

Step 5: Release the 3 clamps (5) on the back of the factory housing and remove the factory upper housing along with the factory air filter.

**Figure C****Refer to Figure C for Steps 6-7**

- Step 6: Remove the filter clamp (6) from the aFe POWER air filter. Slip the aFe POWER Air Filter onto the aFe POWER housing, snapping the filter in place. Place the clamp back on the filter flange.
- Step 7: Install the assembled aFe POWER air filter and housing onto the lower portion of the factory housing by sliding in the 3 tabs (7) and securing the 3 spring clips from step 5.

**Figure D****Refer to Figure D for Steps 8-9**

Step 8: Install the rubber grommet and air temp sensor fitting (8) onto your aFe POWER intake tube as shown.

***NOTE:** Use a dab of oil or dish soap on the air temp sensor fitting to help install into rubber grommet.

Step 9: Install the supplied fitting (9) onto your aFe POWER intake tube using an adjustable wrench.

***NOTE:** Exposed threads shown are normal. This is an NPT thread.

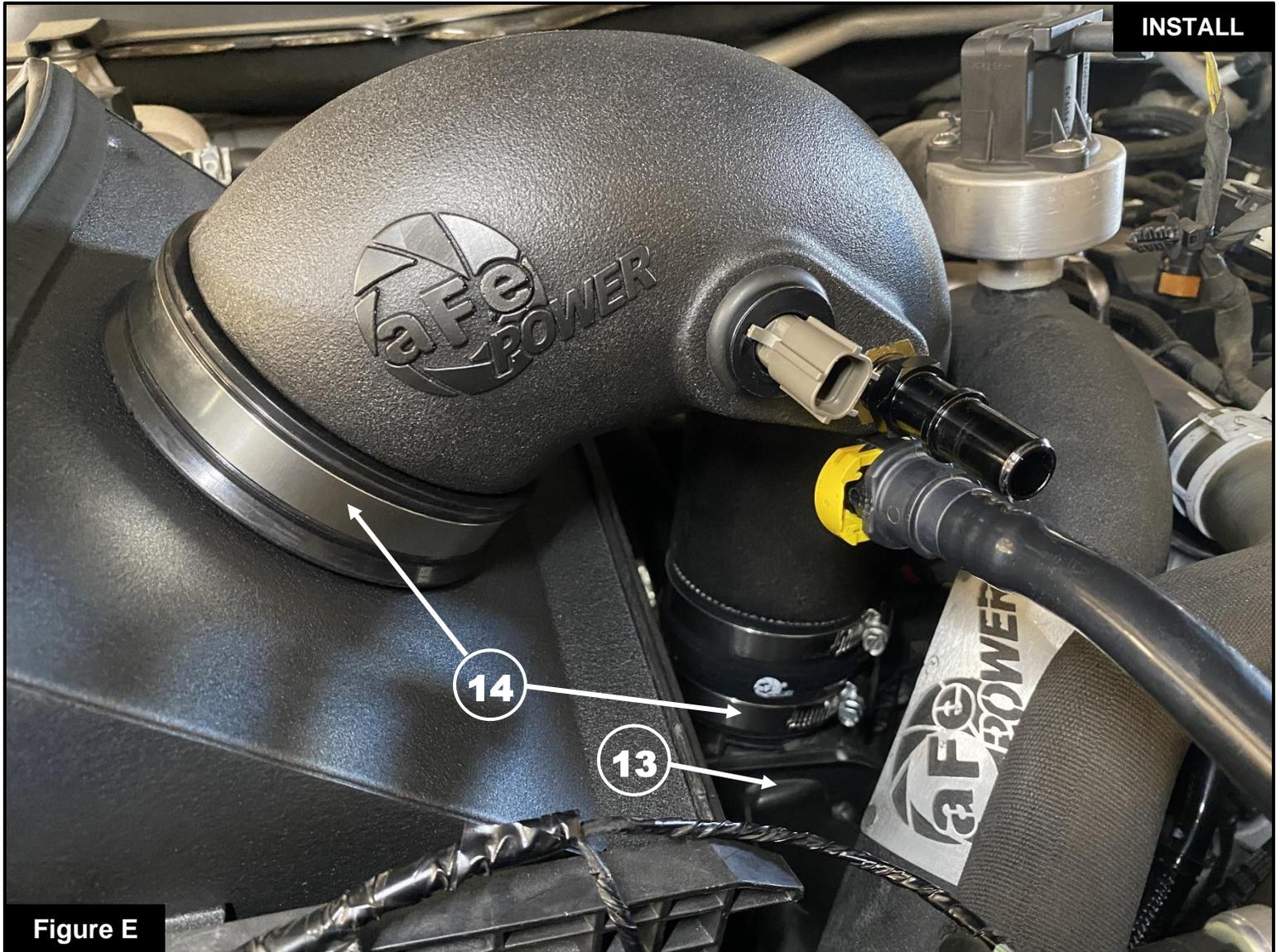
**Figure C****Refer to Figure C for Step 10**

Step 10: Remove the air intake temperature sensor ⑩ from your factory housing and set aside.

**Figure D****Refer to Figure D for Steps 11-12**

Step 11: Install the air intake temperature sensor (11) removed from step 10 onto the aFe POWER intake tube.

Step 12: Install the silicone wrapped coupling (12) onto your aFe POWER intake tube along with the supplied clamp (#048) and tighten.

**Figure E****Refer to Figure E for Steps 13-15**

Step 13: Install the aFe POWER intake tube assembly into the vehicle beginning at the air filter.

Step 14: Slip the aFe POWER intake tube onto the turbo inlet (13) along with the clamp (#048).

Step 15: Align the aFe POWER intake tube and coupler, then tighten the clamps (14) using an 8mm nut driver.

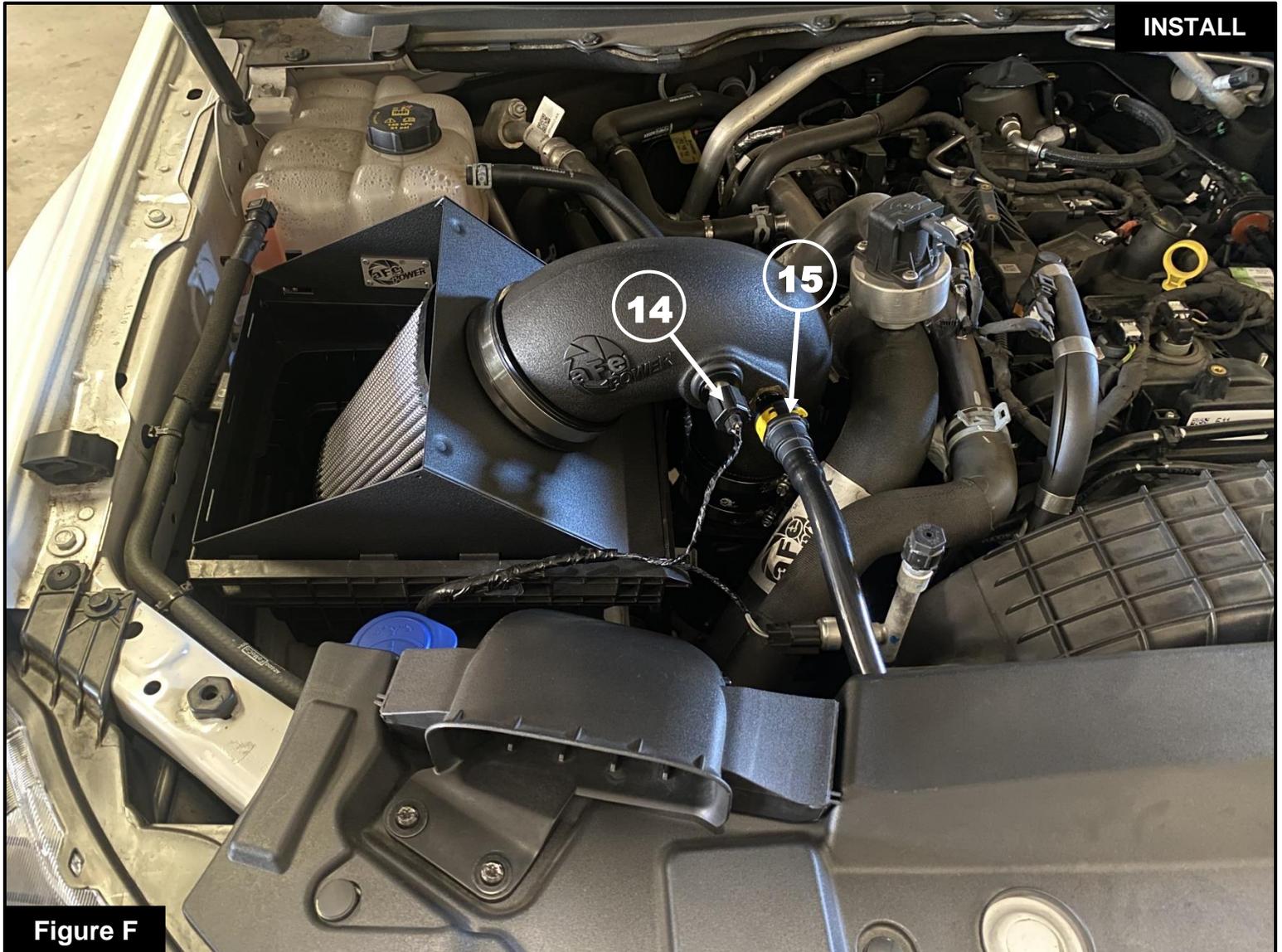


Figure F

Refer to Figure F for Steps 16-18

Step 16: Plug in the air temperature sensor (14).

Step 17: Re-connect the vent hose (15) from step 2. *(If difficult, re-connect before step 13.)

Step 18: Your installation is now complete.

NOTE: Check all screws, clamps, and connectors are secure after 100-200 miles.



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Pro DRY S Air Filter



P/N: 21-90113

Pro 5R Air Filter



P/N: 24-90113

Dynamic Air Scoop



P/N: 54-13056S (Blk)
54-13056SL (Blue)
54-13056SR (Red)

BladeRunner Intercooler Tubes



P/N: 46-20384-B

Pro DRY S Restore Kit



P/N: 90-59999

Blue Squeeze Restore Kit



P/N: 90-50501

Twisted Steel Down Pipe w/ Cat



P/N: 48-33028-HC

Spring Booster V3



P/N: 77-13001

SCORCHER PRO Tune



P/N: 77-340100

Differential Cover



P/N: 46-71170A (Raw)
46-71170B (Black)

Cat-Back Exhaust System



P/N: 49-33110-B (Blk. Tips)
49-33110-P (Pol. Tips)

Cat-Back Exhaust System



P/N: 49-33111-B (Blk. Tips)
49-33111-P (Pol. Tips)



To purchase any of the items above, view airflow charts, dyno graphs, photos, and video; please go to 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 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.

Product Category	P/N Prefix	Warranty duration
Direct OE Replacement Filters	10, 11, 30, 31, 71, 73	Life of the vehicle
Racing Filters	18	1 year
Universal	20, 21, 23, 24, 72, TF	2 years
Air Intake Systems	50, 51, 53, 54, 55, 56, 57, 58, 75, TR, TA, TL, TM	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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