



Intake Manifold Spacer

advanced FLOW engineering

Instruction Manual P/N: 46-33024

Make: Ford Model: Super Duty F-250/F-350 Year: 2020 Engine: V-8 7.3L





- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- For technical support please call 951-493-7185.
- 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.

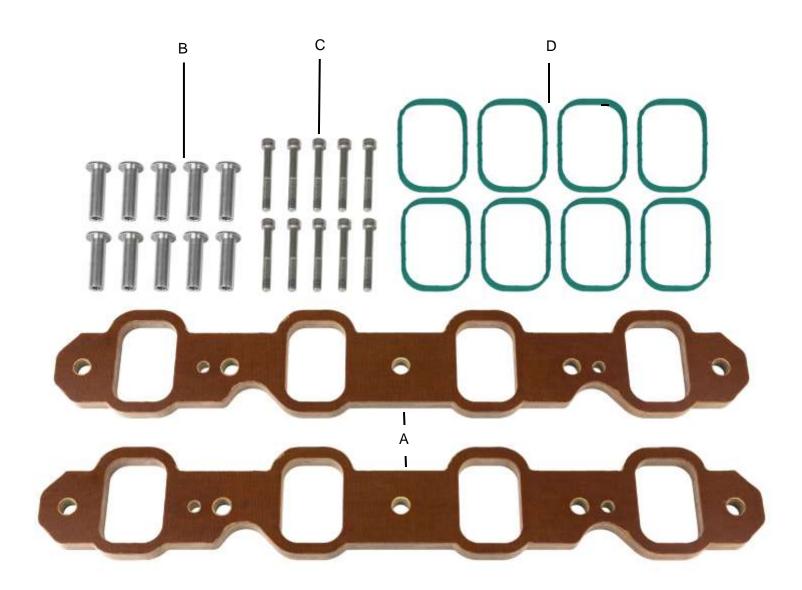
Label	Qty.	Description	Part Number
Α	2	Spacers, Intake Manifold	05-61111
В	10	Sleeves, Intake Manifold	05-61112
С	10	Screws, Socket Head Cap M6x1.0x55mm	03-50653
D	8	Seals, Intake Manifold	05-61110

Installation will require the following tools:

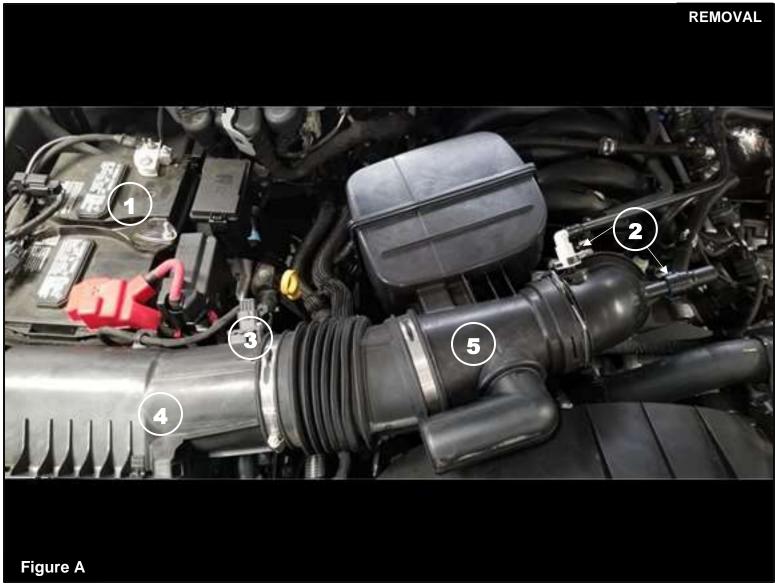
7mm nut driver, 8mm socket, 3" / 6" extension, rachet, 5/16 fuel disconnect tool, 3/8 fuel disconnect tool, clip lifter tool, T-45 Torx bit, drift punch, hammer, small pry bar

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.









Refer to Figure A for Steps 1-5

- Step 1: Disconnect the wires from the battery 1.
- Step 2: Disconnect the two (2) quick disconnect fittings (2) on the intake tube.
- Step 3: Disconnect the connector from the mass air flow (MAF) sensor on the air filter cover.
- Step 4: Unclip the air filter cover (4).
- Step 5: Using a 7mm nut driver, loosen the clamp from the throttle body. Remove the air intake system 5 from the vehicle. Save for reinstallation.

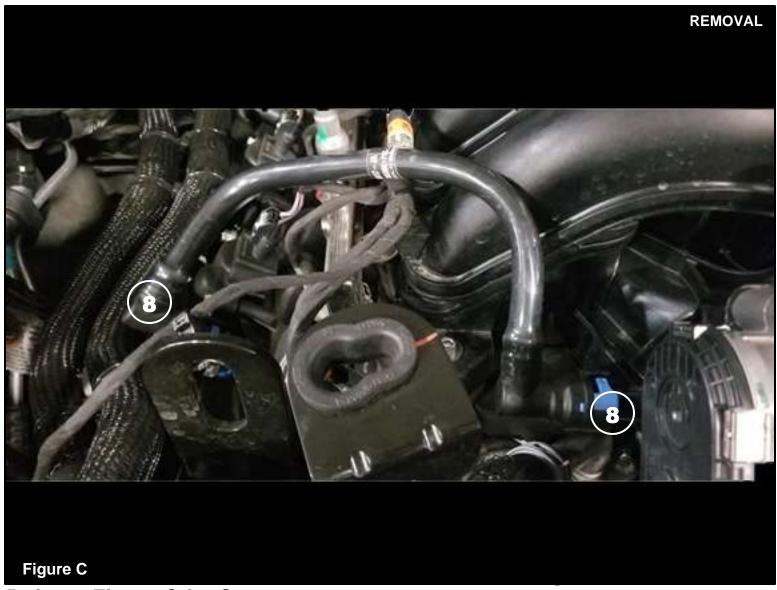




Refer to Figure B for Step 6

Step 6: Disconnect the two (2) quick disconnect fittings 6 7 from the intake manifold.





Refer to Figure C for Step 7

Step 7: Remove the CCV tube by disconnecting the quick disconnect fittings 8 from behind the throttle body and on the valve cover. Remove the line from the vehicle. Save for reinstallation.





Refer to Figure D for Steps 8-9

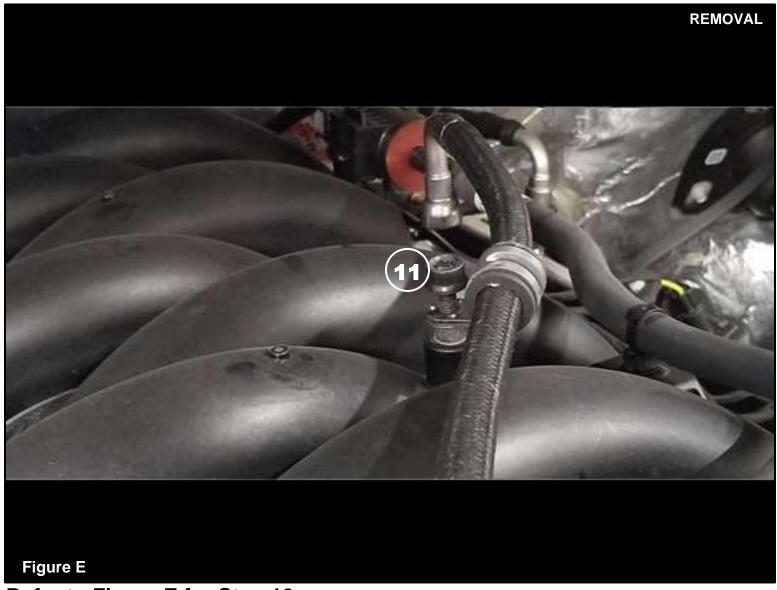
NOTE: Please use cation when preforming the next steps. May have residual pressure in the fuel line.

Step 8: Using a 3/8 fuel line disconnect tool, disconnect the fuel line 9 from the rail on the passenger's side.

There may be some residual pressure in the line so be careful when pulling apart.

Step 9: Using a 5/16 fuel line disconnect tool, disconnect the fuel line 10 from the rail on the driver's side.





Refer to Figure E for Step 10

Step 10: Using a T-45 Torx bit, remove the screw 11 on top of the intake manifold. Remove the fuel line from the vehicle and save for reinstallation.

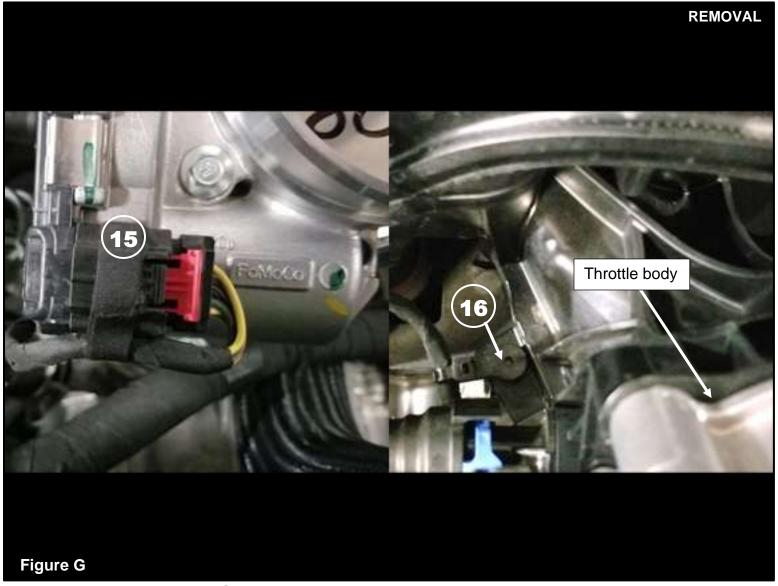




Refer to Figure F for Steps 11-14

- Step 11: Disconnect the electrical connector 12 from the fuel evaporative control solenoid.
- Step 12: Disconnect the quick disconnect fitting (13) from the fuel evaporative control solenoid.
- Step 13: Using the clip lifter tool, remove the push clip 4 which attaches the fuel evaporative control tube to the front of the intake manifold.
- Step 14: Using a small prybar and a light amount of lubricant, pry the fuel evaporative control solenoid off the intake manifold. Save for reinstallation.





Refer to Figure G for Steps 15-16

Step 15: Disconnect the electrical connector (15) from the throttle body.

Step 16: After disconnecting the throttle body, follow the wire to a push clip attaching the wire to the intake manifold. Using the clip lifter tool, remove the push clip 16 from the intake manifold.

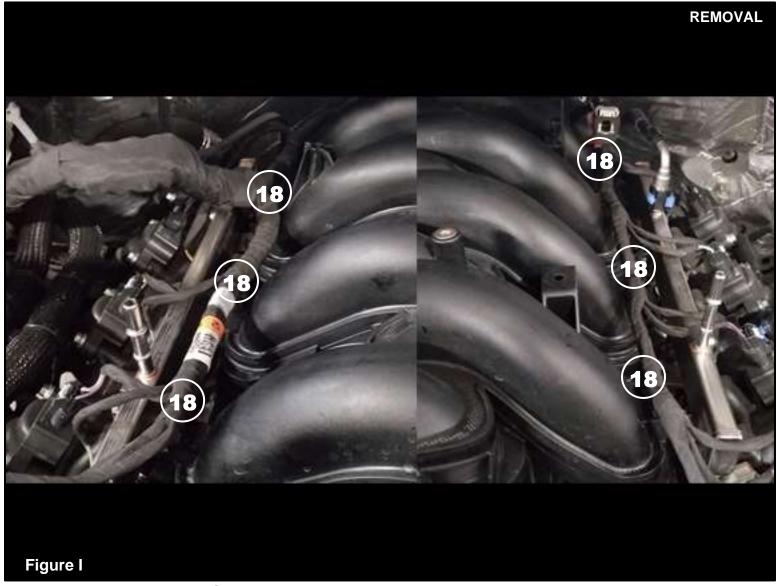




Refer to Figure H for Step 17

Step 17: Using the clip lifter tool, remove the push clip 17 from below the throttle body.



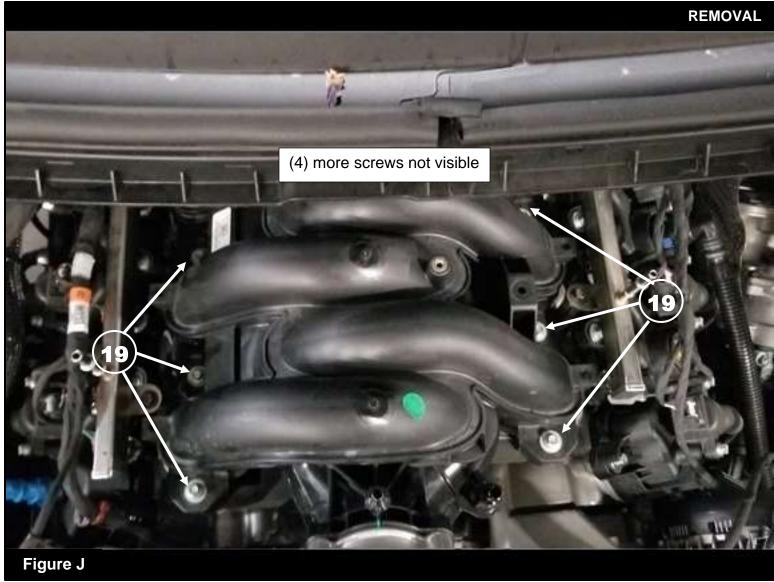


Refer to Figure I for Step 18

Step 18: Using the clip lifter tool, remove the six (6) push clips (8) which retain the wiring for the injectors and coil packs.

NOTE: Carefully pull the wire looms over the fuel rails to make clearance for the intake manifold to come out.



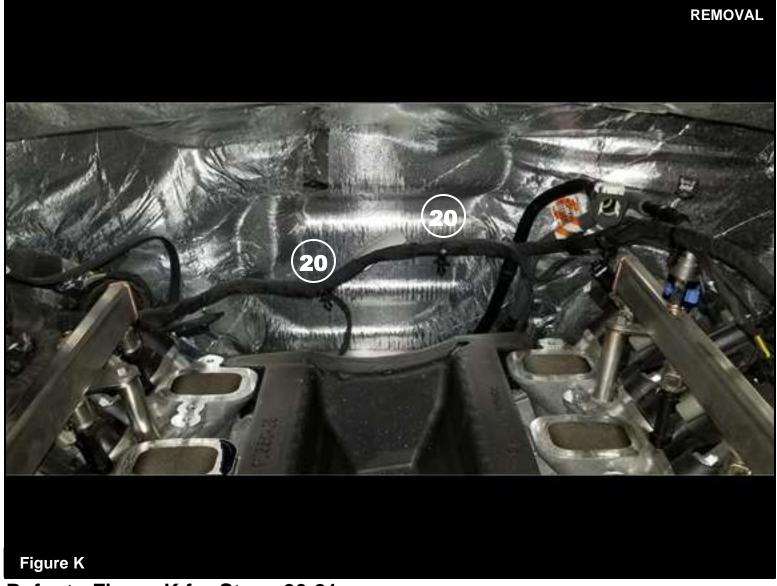


Refer to Figure J for Step 19

Note: Please read Step 18 prior to removing the intake manifold

Step 19: Using the 8mm socket and rachet with extentions, remove the ten (10) screws (19) that retain the intake manifold. Do not remove the intake manifold at this time.





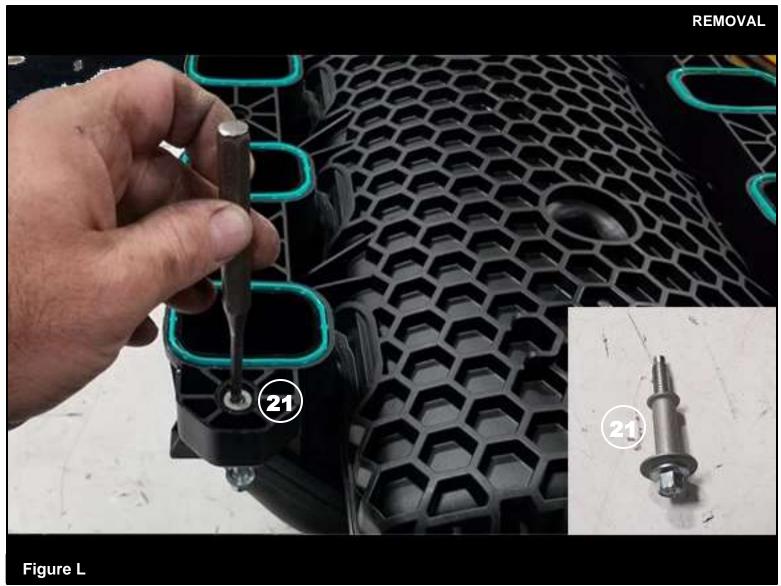
Refer to Figure K for Steps 20-21

Step 20: Before removing the intake manifold, there are two wire push clips 20 attached to the back. Using the clip lifter tool, remove them from the intake manifold.

Step 21: Remove the intake manifold.

NOTE: Be careful not to drop anything down the holes in the engine. Place something over the holes on the engine to protect yourself. Failure to do this could result in a damaged engine.





Refer to Figure L for Steps 22-23

Step 22: Flip the intake manifold over so that you are looking at the seals.

Step 23: Using a drift punch and a hammer, hit the ten (10) factory screws and spacers 21 out of the intake manifold.





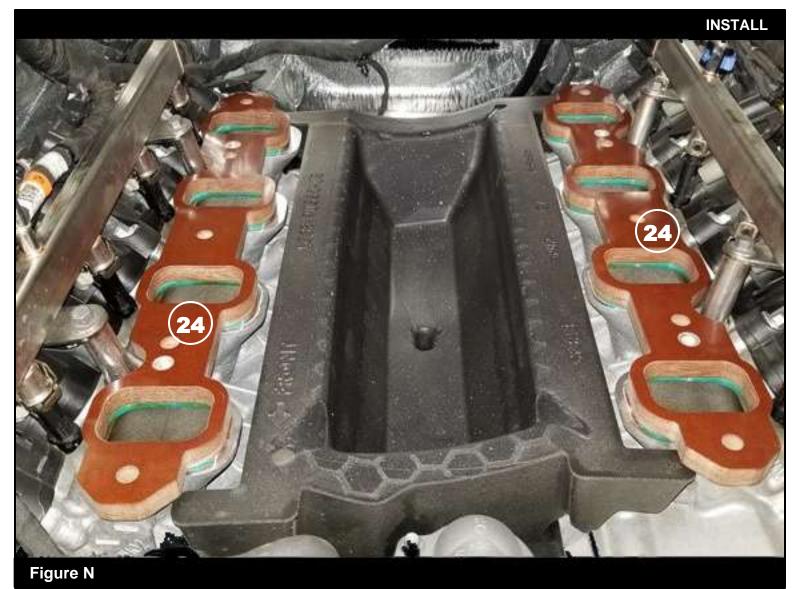
Refer to Figure M for Steps 24-25

Step 24: Place the two (2) supplied aFe Intake Manifold Spacers 22 on a work surface.

Step 25: Install the eight (8) supplied intake manifold seals 23 into the aFe Intake Manifold Spacers.

NOTE: Using a lubricant will help install the intake manifold seals into the aFe Intake Manifold Spacers.





Refer to Figure N for Step 26

NOTE: Using a lubricant will help install the aFe Intake Manifold Spacers onto the engine.

NOTE: If applicable, remove the coverings used to protect the engine. Be careful \underline{not} to drop anything in the exposed holes on the engine.

Step 26: Install the aFe Intake Manifold Spacers 24 onto the engine.





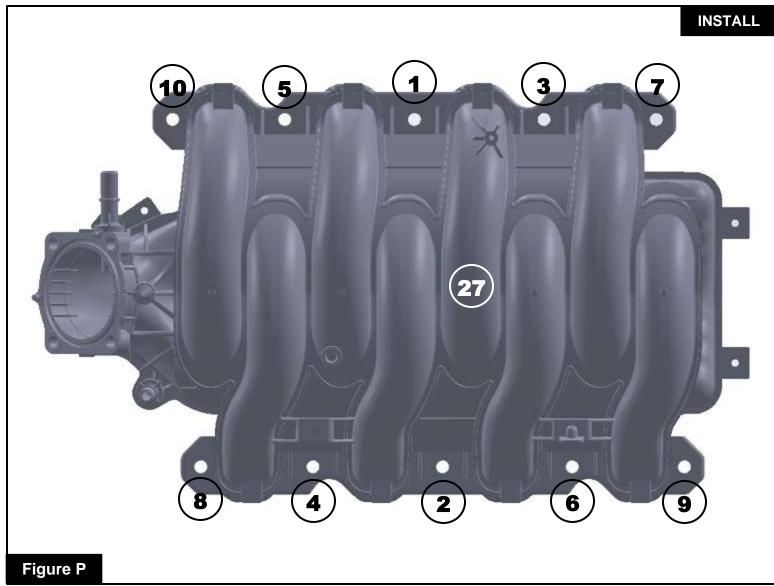
Refer to Figure O for Steps 27-29

Step 27: Install the factory intake manifold 25 onto the aFe Intake Manifold Spacers.

Step 28: Install the ten (10) supplied aFe Intake Manifold Spacer sleeves 26. This will align the intake manifold to the aFe Intake Manifold Spacers.

Step 29: Install the ten (10) supplied M6 x 1.0 x 55mm socket head cap screws into the intake manifold. Leave loose at this time.

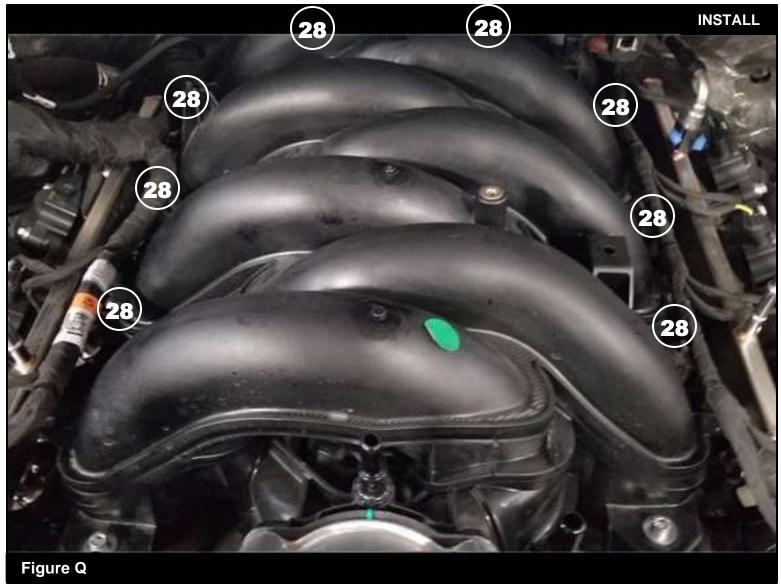




Refer to Figure P for Step 30

Step 30: Tighten the intake manifold 27 down using the number sequence (1-10) shown above. Torque to 106 in. lbs. Go around again and torque the bolts to 120 in. lbs.

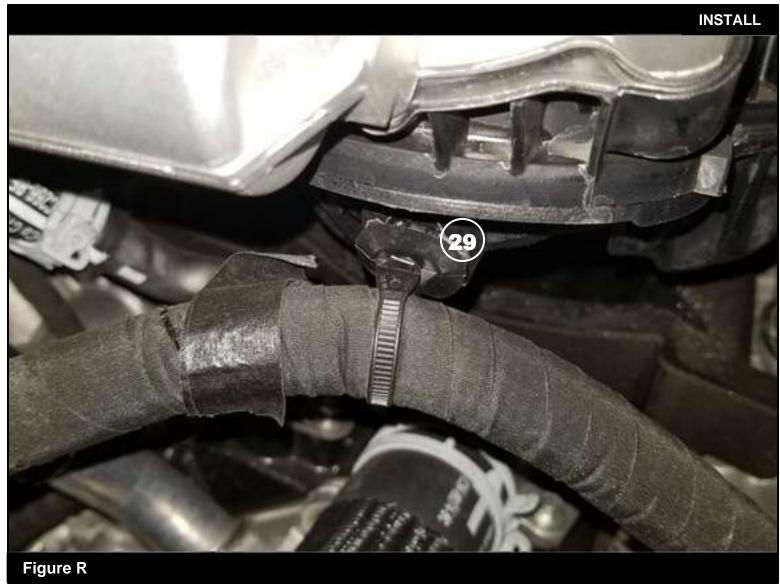




Refer to Figure Q for Step 31

Step 31: Carefully move the wiring loom for the coil packs and the fuel injectors back onto the intake manifold. Install the eight (8) push clips (28) in the holes they were removed from in Step 18 and Step 20.

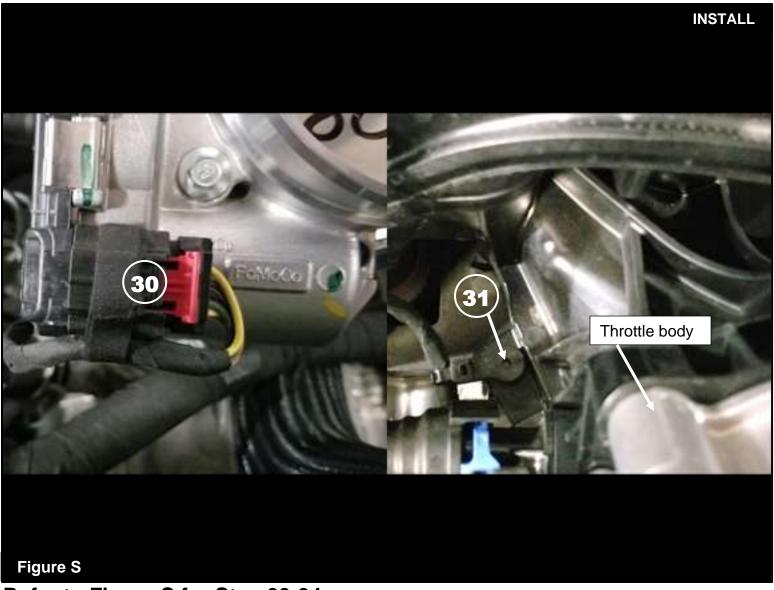




Refer to Figure R for Step 32

Step 32: Reinstall the push clip 29 below the throttle body remove in Step 17.





Refer to Figure S for Step 33-34

Step 33: Reconnect the electrical connector 30 to the throttle body.

Step 34: Push the retaining clip 31 back into the intake manifold.

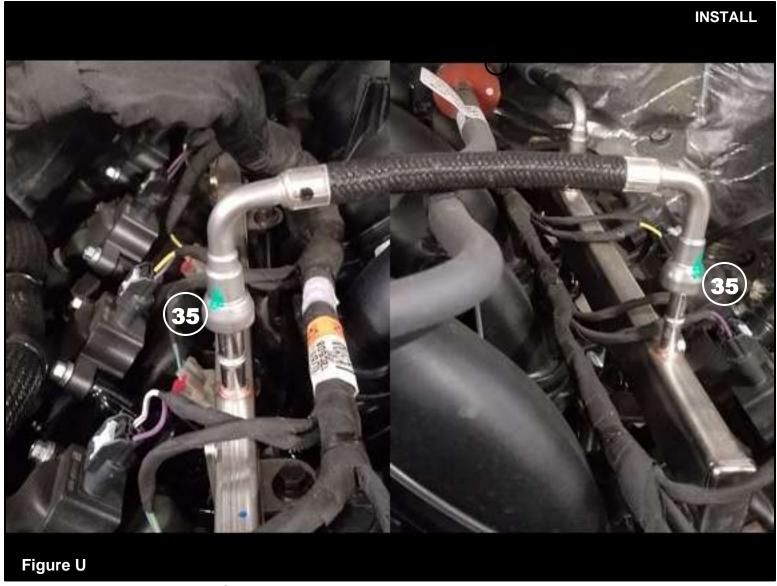




Refer to Figure T for Steps 35-38

- Step 35: Reinstall the fuel evaprotive control solenoid back onto the intake manifold using some lubricant.
- Step 36: Reconnect the electrical connector 32 to the fuel evaporative control solenoid.
- Step 37: Reconnect the quick disconnect fitting 33 to the fuel evaprative control solenoid.
- Step 38: Reinstall the push clip 34 which attaches the fuel evaporative control tube to the front of the intake manifold.



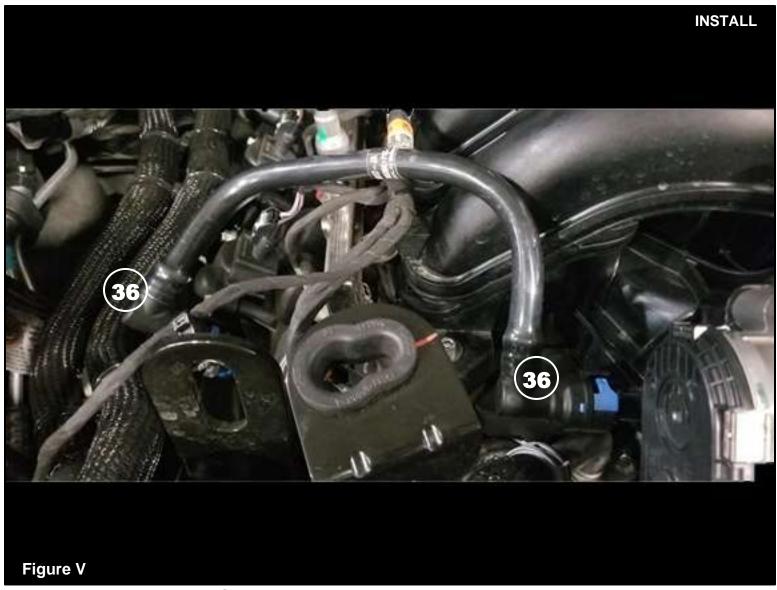


Refer to Figure U for Steps 39-40

Step 39: Install the factory fuel line onto the quick disconnect fittings 35.

Step 40: Using a T-45 Torx bit, install the bolt removed in Step 10 that retains the fuel line to the top of the intake manifold.





Refer to Figure V for Step 41

Step 41: Reinstall the CCV tube by pushing the quick disconnect fittings 6 onto the male quick disconnect fittings behind the throttle body and on the valve cover.

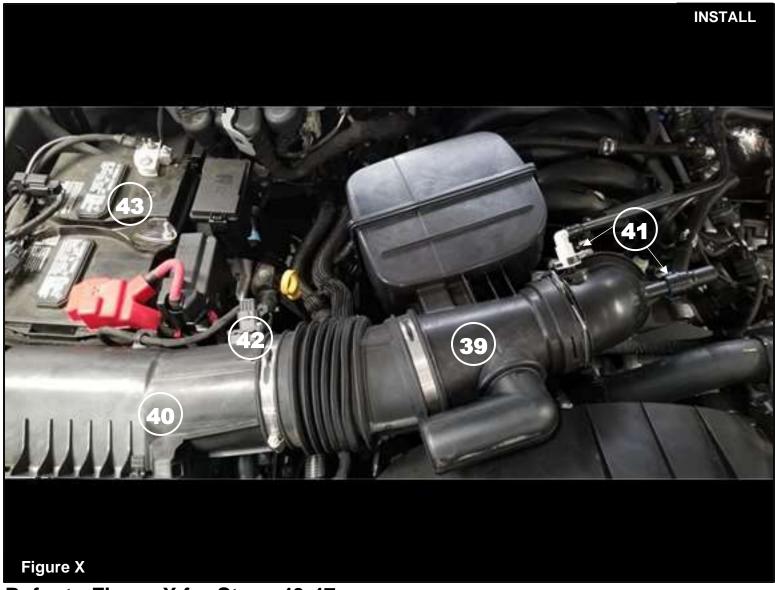




Refer to Figure W for Step 42

Step 42: Reconnect the two (2) quick disconnect fittings 37 38 to the male quick disconnect fittings on the intake manifold removed in Step 6.





Refer to Figure X for Steps 43-47

- Step 43: Reinstall the air filter system 39 back into the vehicle. Use a 7mm nut driver to tighten the clamp onto the throttle body. Reclip the air filter housing 40.
- Step 44: Reconnect the two (2) quick disconnect fittings 41 back onto the intake tube that were removed in Step 2.
- Step 45: Reconnect the mass air flow (MAF) sensor connector 42.
- Step 46: Reconnect the battery wires (43).
- Step 47: Installation is now complete.

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



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Momentum GT Intake



P/N: 50-70058D/R

Throttle Body Spacer



P/N: 46-33020

Magnum Flow Air Filter



P/N: 30-10305

aFe Mechanics Gloves



P/N: 40-10194

Rear Differential Cover



P/N: 46-70022

Front Differential Cover



P/N: 46-71100B

aFe Mini BT Speaker



P/N: 40-10232

aFe Fender Cover



P/N: 40-10230

Flashlight LED



P/N: 40-10202

Sprint Booster



P/N: 77-13001

Apollo GT Series Exhaust



P/N: 49-43116-B

Rebel Series Exhaust



P/N: 49-43117-B



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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