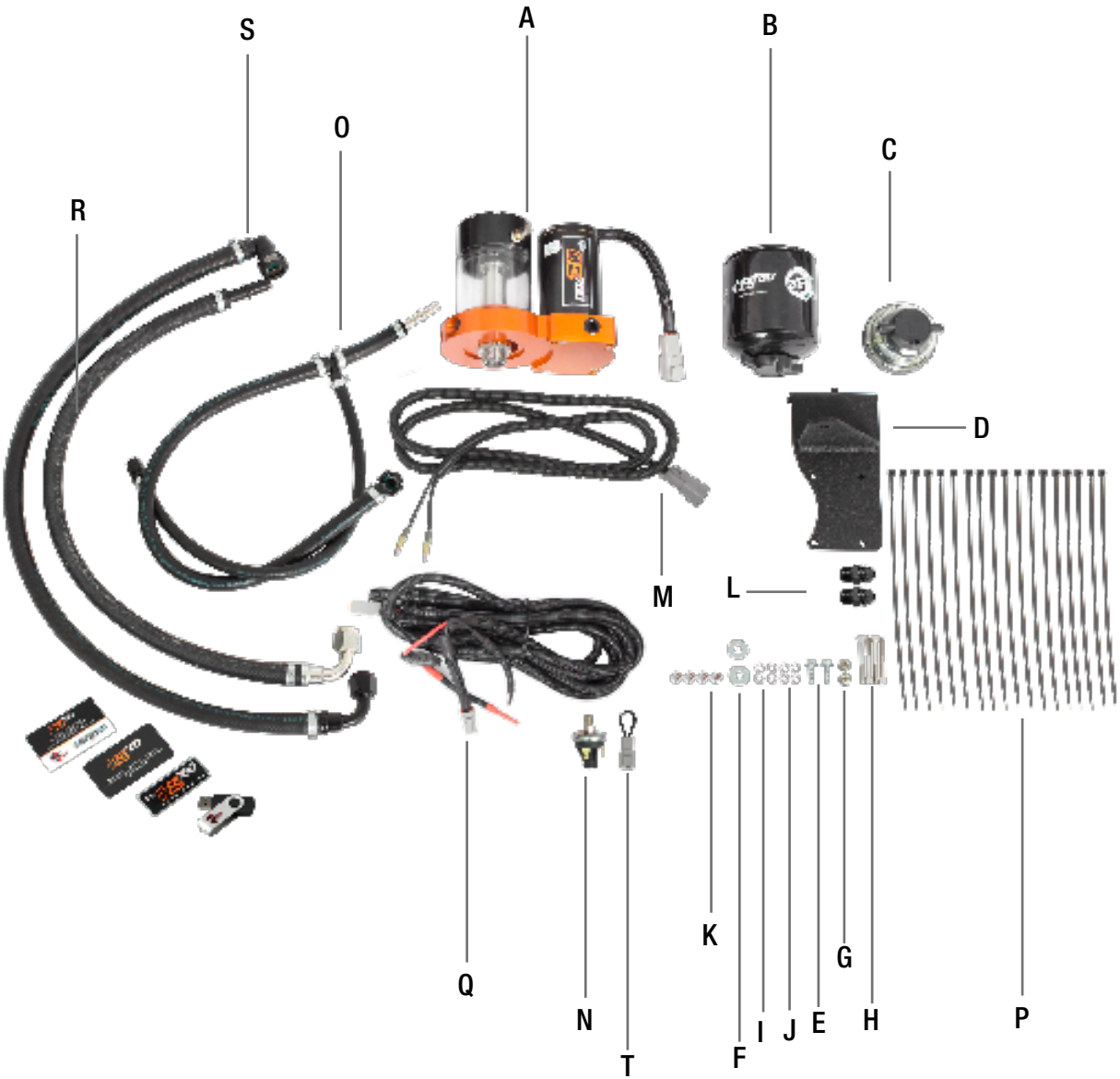
advanced FLOW engineering DFS 780

Instruction Manual P/N: 42-14022

Make: **GM** Model: **2500/3500** Year: **2011-2016** Engine: **V8-6.6L (td)**
Fuel Pressure: **8-10 psi (boost operated)**

- 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
A	1	Fuel Manifold Assembly	05-60748
B	1	Filter, Fuel	44-FF019
C	1	Bowl, Water Separator	05-60487
D	1	Bracket, Frame; Carbon Steel	05-60554
E	2	Bolt, M8 x 1.25 x 25mm	03-50442
F	2	Washer, M8	03-50065
G	2	Locknut, M8	03-50244
H	4	Bolt, M6 x 1.0 x 50mm	03-50443
I	4	Washer, M6 (Fiber)	03-50457
J	4	Washer, M6	03-50444
K	4	Locknut, Flanged; M6	03-50445
L	2	Fitting; 3/8" NPT to AN -8 (Black, Straight)	05-60685
M	1	Harness, Pressure Switch	05-60701
N	1	Switch, Pressure	05-60542
O	1	Hose, Fuel Return	05-60689
P	12	Ties, Nylon Cable, 12"	05-60167
Q	1	Harness, Power	05-60523
R	1	Hose, Fuel Inlet	05-60673
S	1	Hose, Fuel Outlet	05-60681
T	1	Jumper, Priming	05-70004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- Looking at the driver's side of the truck, on the inside of the frame rail, you will see a bracket in front of the fuel tank.

- The two (x2) marked holes represent where the supplied carbon steel frame bracket will mount.

- Mount the carbon steel frame bracket to the frame with the supplied hardware and tighten.

Hardware
(x2) M8 x 1.25 x 25mm bolts
(x2) M8 washers
(x2) M8 locknuts

NOTE: Make sure the pin in the bracket goes through the bracket on the frame (shown above).

- Mount the supplied fuel manifold assembly to the carbon steel frame bracket using the supplied hardware and tighten.

Hardware

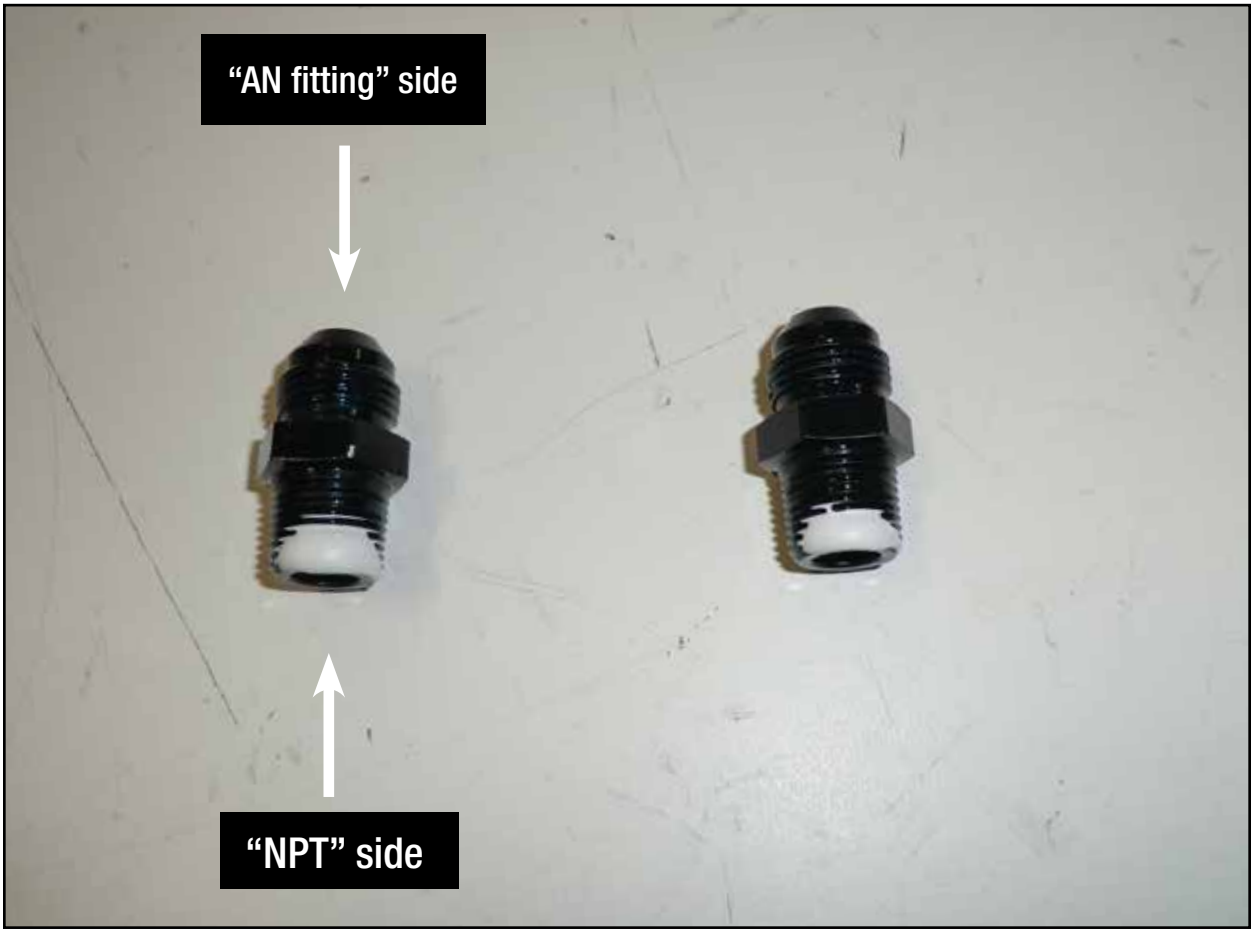
(x4) M6x1.0 x 50mm bolts
(x4) M6 washers
(x4) M6 flanged locknuts
(x4) M6 fiber washers

Note: The fiber washers go between the fuel manifold assembly and the carbon steel bracket.

- Turn the sight glass to the desired angle and using a 1-1/4" wrench, tighten the center nut under the fuel manifold assembly.

Note: The pump should look like the picture above.

- Using a light oil, lube the gasket on the supplied fuel filter and install on the fuel manifold assembly. Thread the supplied water separator bowl onto the fuel filter.



- Apply Teflon tape with PTFE or Teflon paste with PTFE to the 2 x 3/8" NPT to -8 AN fittings.

Note: Only apply Teflon to the NPT side of the fitting.

• Install the 2 x 3/8" NPT to -8 AN fittings into the fuel manifold assembly (as shown above).

Note: 2011 model shown in the pictures

- Clean the area around the fuel lines (located in front of the fuel tank) to prevent dirt and debris from going into the lines.
- Remove the red quick connection locks (show above).

Note: 2011 model shown in the pictures

- Disconnect the factory fuel lines.

Note: 2011 model shown in the pictures

- Install the straight male quick disconnect fitting on the supplied fuel inlet hose (silver 90° -8 AN fitting - shown below) into the female side of the stock fuel feed line.
- Reinstall the red quick connection lock.

Note: 2011 model shown in the pictures

- Install the 90° female quick disconnect fitting on the supplied fuel outlet hose (black 90° -8 AN fitting - shown below) onto the male side of the stock fuel feed line.

Center of Truck

Note: 2011 model shown in the pictures

- Install the straight male quick disconnect fitting on the supplied fuel return hose into the female side of the stock fuel return line.
- Reinstall the red quick connection lock.

Note: 2011 model shown in the pictures

- Install the 90° female quick disconnect fitting on the fuel return hose onto the male side of the stock fuel return line.

- Install the fuel inlet hose (silver 90° -8 AN fitting) onto the male -8 AN fitting on the fuel inlet port of the fuel manifold assembly.

- Install the fuel outlet hose (black 90° -8 AN fitting) onto the male -8 AN fitting on the fuel outlet port of the fuel manifold assembly.

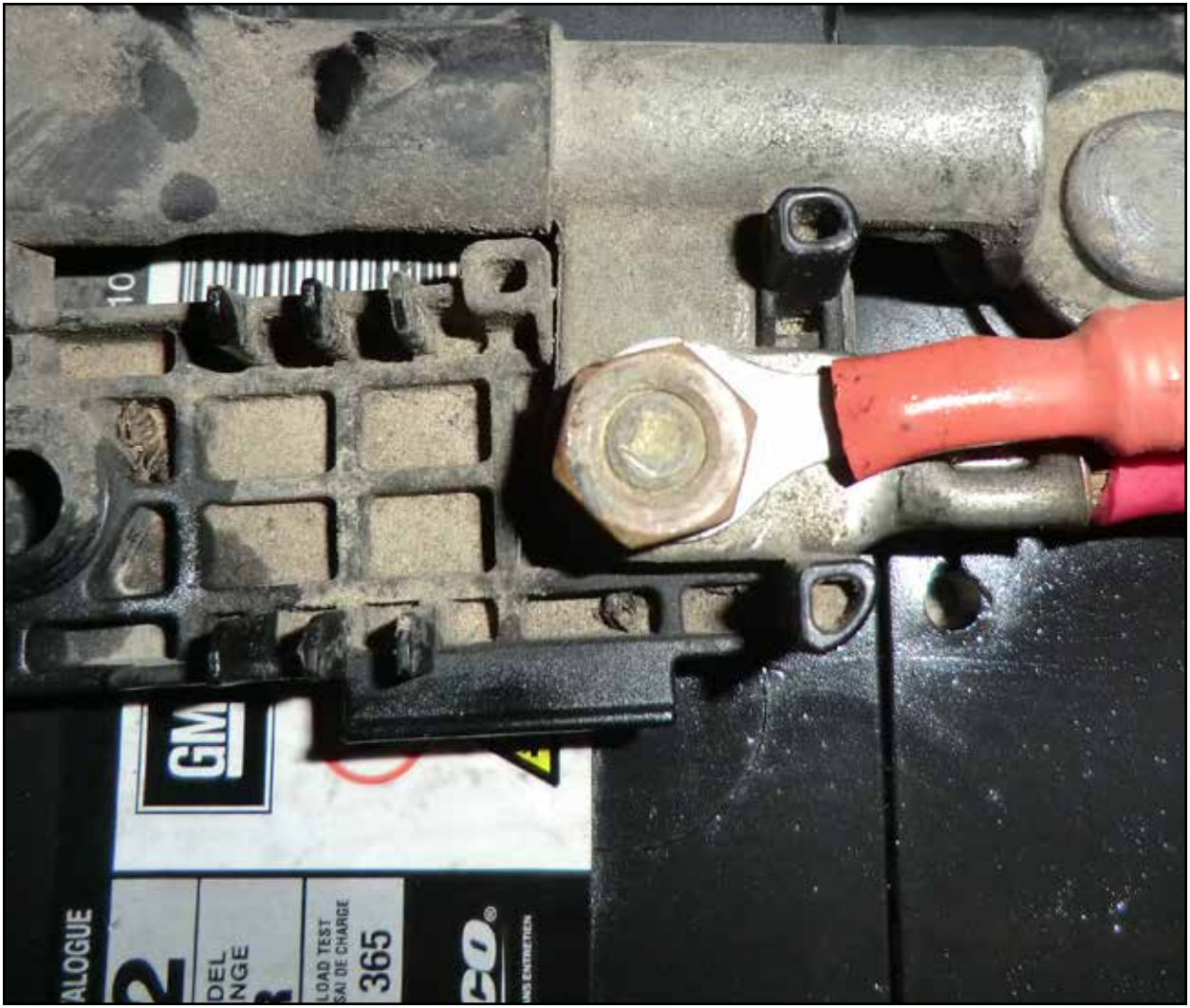
• Install the fuel return hose (-4 AN fitting) onto male -4 AN fitting on the top of the sight glass cover.

Note: 2011 model shown in the pictures

- Using the supplied nylon cable ties, secure the new hoses (as shown above).

- From the inside of the frame, plug the Deutsch connector on the supplied power harness into the mating connector on the fuel pump motor.
- Route the power harness along the frame towards the front of the vehicle.
- Organize the power harness and secure with the supplied nylon cable ties.

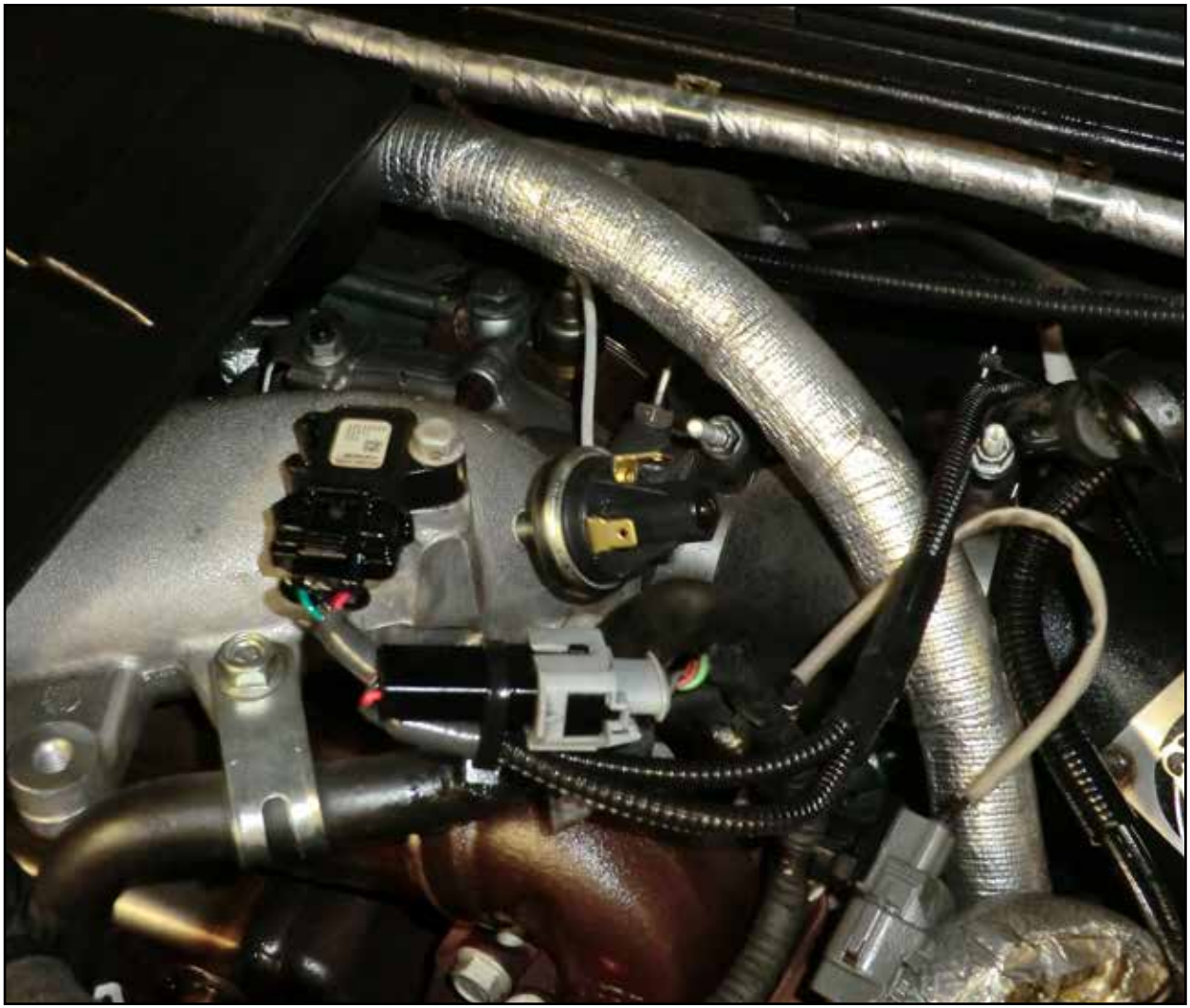
• Run the other end of the power harness along the frame into the engine compartment.



- Connect the red wire ring terminal on the power harness to the positive side of the battery.

Note: Check the fuse to make sure it is already installed in the connector.

• Connect the black wire ring terminal on the power harness to the negative side of the battery.



- Install the supplied pressure switch into the intake manifold (1/8" NPT).

Note: This step may require you to drill and tap a 1/8" NPT hole.

Use Caution DO NOT! allow any metal chips to enter the engine.

Note: 2011 model shown in the pictures

- Connect the supplied pressure switch harness to the pressure switch (either wire can be attached to either terminal).

- Make sure that all fittings are tight. Install the priming jumper onto the Deutsch connector on the power harness. The fuel pump motor will turn on. Watch to see if the sight glass fills with fuel. If the sight glass does not fill with fuel, use the tank valve (on the top of the sight glass cover) to release any trapped air. If the sight glass still does not fill, try starting the engine. Check for any leaks.

- Once the system is primed, and the truck is running, remove the priming jumper from the power harness and shut the truck off.

Note: Failure to remove the priming jumper will result in the fuel pump motor continuing to run, even with the vehicle shut off. This could result in a dead battery.

• Plug the pressure switch harness onto the Deutsch connector on the power harness.

• Organize any of the loose wire harnesses and secure with the remaining nylon cable ties.

- Start the truck and let idle while checking for any leaks.
- Installation is now complete. Make sure that all fittings are tight and that fuel is not leaking from any of the connections made while installing.

NOTE: Place enclosed CARB EO sticker on or near the device on a smooth/clean surface. EO identification label is required to pass the smog test inspection.

Scorcher

P/N: 77-44008

Magnum Force Stage-2 Intake

P/N: 54-12322-1

BladeRunner Exhaust Manifold

P/N: 46-40024

OE Replacement Filter

P/N: 30-10209

Intercooler Tubes

P/N: 46-20114-B

Sprint Booster

P/N: 77-14003

Oil Cap

P/N: 79-12002

LARGE Bore HD 4" Dual Exhaust

P/N: 49-44044-B

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

DFS FUEL SYSTEM
“WORRY FREE” WARRANTY POLICY

Please read this warranty policy before proceeding with the installation of this advanced FLOW engineering, Inc. (aFe) product.

aFe’s obligation under the “Worry Free” Warranty is covered for two years from date of purchase. The “Worry Free” Warranty is limited to replacement of the defective or worn-out product with the same (or comparable) product in accordance with this warranty. Under no circumstances will the obligation or liability of aFe exceed the purchase price of the product as indicated on the original bill of sale. Warranties are non-transferable, contain no cash value and are only extended to the owner of the vehicle provided that the ownership has not changed since the installation of the product. This warranty does not apply to products which have been altered, modified, damaged from neglect, abuse or from an accident, misused, improperly installed, contaminated with dirt or other contaminants, or used in applications other than recommended in our printed or digital media. aFe does not provide reimbursements for delay, shipping fees, labor, mileage, or any other costs involved in installation or re-installation of the products in question.

Registration Process:

Simply register your DFS Fuel System product online at http://www.aFepower.com/reg

Claim Process:

To file a warranty claim, customers are required to submit their information using the warranty claim form online at http://afepower.com/inquiries/tech-warranty.php

All Warranty Claims require: 1) Online registration of the product. 2) If item has not been registered online, then a copy of your original purchase receipt is required. 3) An image of the warrantied part. 4) An image showing the serial number on the warranty card or the barcode label on the box. You may be required to return the part for inspection and you may be required to purchase a new replacement part while the warranty claim is being processed. Once the warranty claim has been reviewed and approved, aFe will provide you with a refund of the replacement purchase price. aFe’s obligation under the “Worry Free” Warranty is limited to replacement of the defective or worn-out product (excluding finish) with the same (or comparable) product in accordance with this warranty. In addition this warranty does not cover fuel filters, which need to be replaced when worn. Warranty is valid provided aFe instructions for installation were properly followed.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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