

AirDog® **DF-165-5G**

FUEL PREPARATOR®

PATENT PROTECTED:

<https://pureflowairdog.com/p-35853-patents.html>

2011-2016 6.7L POWERSTROKE INSTALLATION INSTRUCTIONS

**PLEASE READ AND CHECK CONTENTS
BEFORE INSTALLATION**



PUREFLOW AIRDOG®
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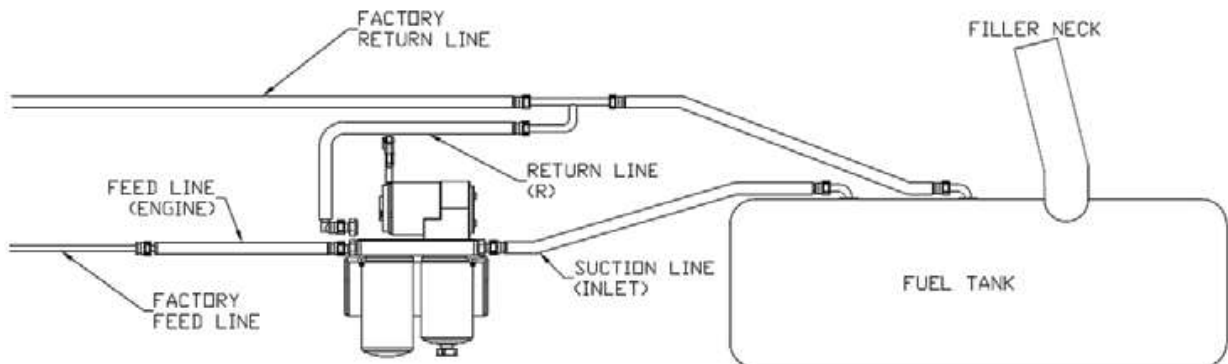
Thank you for choosing AirDog® for your truck fueling needs!

AirDog® recommends that a certified diesel shop technician install this product. Please note, if the end user performs the installation, it is recommended they have basic knowledge on how electric fuel systems operate and function. Failure to properly set up this fuel system may result in a voided warranty. **If properly set up per these instructions, the pump head carries a lifetime warranty to the original purchaser. THIS WARRANTY IS NON-TRANSFERRABLE!**

The AirDog® II-5G uses an adjustable diaphragm fuel pressure regulator to regulate the fuel pressure to the injection system. The pressure for this application is preset from the factory at 68 psi. If a different pressure is desired, go to page 29 for instructions on how to adjust the pressure. **WARNING: RUNNING THE PUMP ABOVE 75PSI WILL DECREASE THE LIFE OF THE PUMP SIGNIFICANTLY AND MAY VOID THE WARRANTY. MORE FUEL PRESSURE DOES NOT MEAN MORE FUEL FLOW AND TOO MUCH PRESSURE MAY DAMAGE YOUR INJECTION SYSTEM! MORE FUEL PRESSURE DOES NOT MEAN MORE FUEL FLOW!**

OVERVIEW ON HOW THE SYSTEM OPERATES

The AirDog® II-5G draws fuel from the tank from the factory suction line on the framerail. The fuel is then pulled through a water separator before being pressurized through the Gerotor pump. The pressurized fuel is sent through the 2 micron fuel filter before being sent to the engine. The pump maintains pressure through a diaphragm fuel pressure regulator that recirculates fuel back through the water separator. The separated air from the diesel fuel is returned through a return "Y" that tees into the factory return line.





SAFETY INSTRUCTIONS

LEARN TO RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol in this manual, **BE ALERT TO THE POTENTIAL FOR PERSONAL INJURY!**

Follow recommended precautions and safe operating practices.



UNDERSTANDING SIGNAL WORDS

A signal word-**DANGER**, **WARNING**, or **CAUTION** is used with the safety alert symbol.

DANGER indicates a hazardous situation which, if not avoided, **WILL** result in death or serious injury.



WARNING indicates a hazardous situation which if not avoided, **COULD** result in death or serious injury.



CAUTION indicates a hazardous situation which if not avoided, **COULD** result in minor or moderate injury



NOTICE indicates a preferred installation procedure





The installation of your AirDog® can be made relatively easy by following the steps outlined in this manual, and:

1. Inventory the package components completely. Notify PUREFLOW AIRDOG® immediately of any missing or damaged parts! 317-421-3180
2. Read the installation manual completely. Understand how the system operates and understand the installation recommendations before beginning the installation.
3. The installation recommendations contained herein are suggested installation guidelines only. Individual installations may vary.
4. If any installation procedure is uncertain, contact PUREFLOW® AIRDOG for technical assistance.
5. When installing the AirDog® fuel lines be sure to keep the **ORIGINAL ENGINE RETURN LINE** connected as it is from the factory!

SAFETY GUIDELINES!



Please be sure to chock the vehicle's tires to prevent rolling



Please use proper supports when working beneath an elevated vehicle



Most diesel pickups have two (2) 12 volt batteries. Disconnect the battery cables to both batteries before proceeding with the AirDog® installation



Vehicle main framrails should not be drilled into or welded upon.



Wear safety glasses or shield when using tools such as drills and grinders or when using a punch or chisel



Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear suitable hearing protective devices such as ear muffs or ear plugs to protect against loud noises.



Use common sense when routing fuel lines and electrical wiring. Keep them away from hot exhaust components and/or moving parts. Properly secure lines to prevent chaffing.

PowerStroke Parts List

QTY	DESCRIPTION	PART NUMBER	IMAGE
1	AirDog® II-5G	DF-165-5G	
1	AirDog® II-5G Mounting Bracket	001-3C-0004	
1	Mounting Hardware Kit,	901-61-0102-PM-F11	
1	Frame Bracket Front	010-3C-0001	
1	Frame Bracket Back	010-3C-0002	
1	Wiring Harness	5E-2-010-HD	
1	Bundle of Plastic Ties	5H-2-1-B	
1	Spacer	010-3C-0003-A-P	
1	14ft of Fuel Line	HS14	
3	1/2" Straight Hose Quick Connect Fitting	FQC12S	
1	1/2" 90° Hose Quick Connect Fitting	FQC1290	
1	3/8" 90° Hose Quick Connect Fitting	FQC3890	
1	3/8" Straight Hose Quick Connect Fitting	FQC38S	
1	Customer Service O-ring Replacement Kit	901-05-0500	
2	1/2" Male J2004 Quick Connect x 3/4-16" UNF	08J2044-3/4UNF	
1	3/8" Male J2004 Quick Connect x 7/16" UNF	06J2044716UNF	
1	12mm to 12mm to 3/8in Return Tee	001-4B-1-0067	

901-61-0102-PM-F11 Bolt Kit Parts List










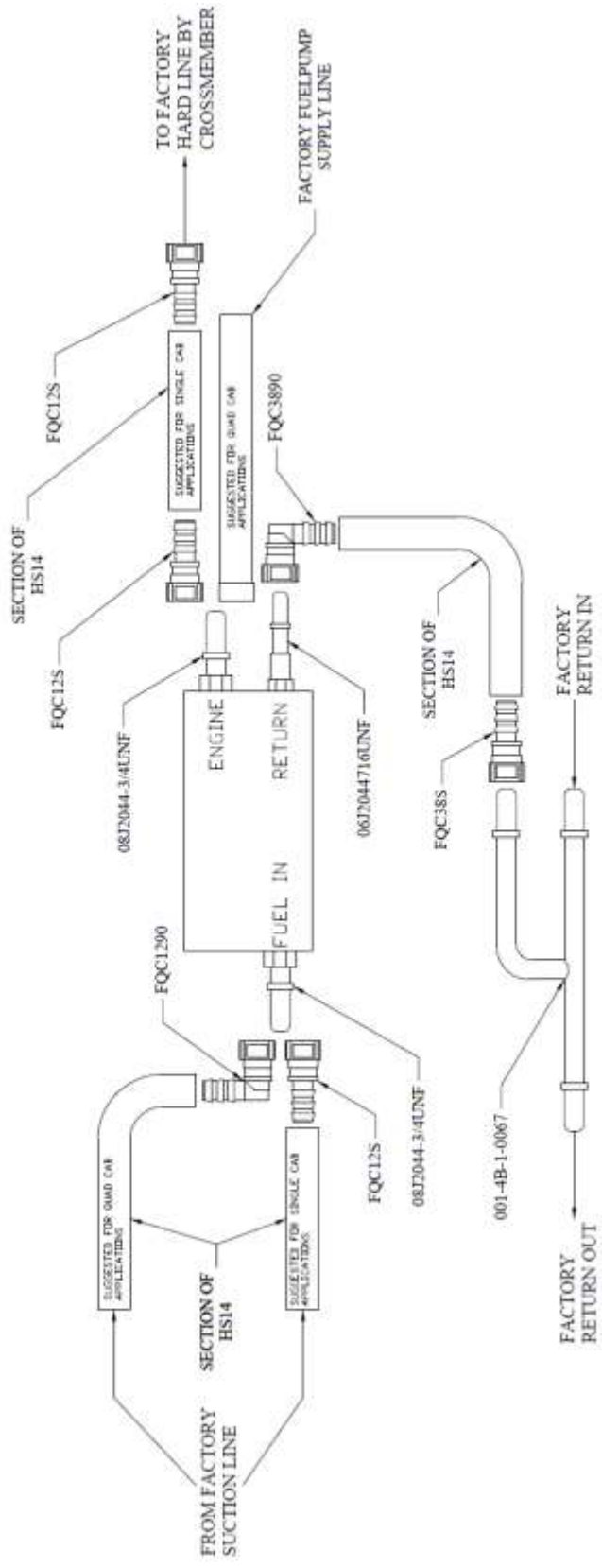
QTY	DESCRIPTION	IMAGE
4	1/4-20 X 1.25" SOCKET HEAD CAP SCREW	
4	1/4-20 NUT	
4	1/4" SPLIT-LOCK WASHER	
3	3/8-16 X 4.5" HEX HEAD CAP SCREW	
3	3/8-16 NUT	
3	3/8" SPLIT-LOCK WASHER	
4	5/16-18 X 3" FLAT SOCKET HEAD CAP SCREW	
4	5/16-18 NUT	
4	5/16" SPLIT-LOCK WASHER	

ILLUSTRATION OF COMPONENTS



Installing the Supplied Fittings Into the AirDog II-5G Base

TOOLS NEEDED:

- Torque Wrench
- 7/8" Deep Socket
- 9/16" Deep Socket

PARTS NEEDED:

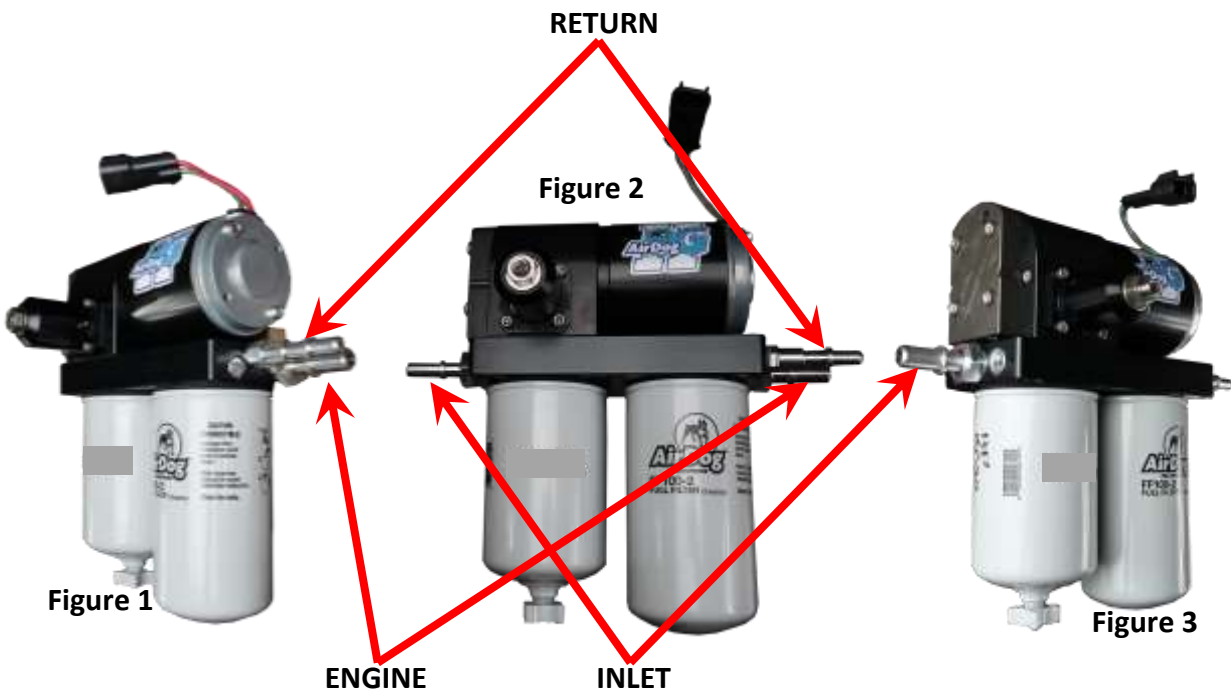
- 2x 08J2044-3/4UNF Fittings
- 06J2044716UNF Fitting

8-1. Dip the threaded end of the 08J2044-3/4UNF fitting into clean motor oil and hand-thread into the "ENGINE" and "INLET" ports of the AirDog®II-5G filter base as illustrated in figures 1, 2, and 3. Using a 7/8" deep socket, torque the fittings to 180in-lb or 15ft-lb.

8-2 Dip the threaded end of the 06J2044716UNF fitting into clean motor oil and hand-thread into the "RETURN" port of the the AirDog®II-5G filter base as illustrated in figures 1 and 2. Using a 9/16" deep socket, torque the fitting to 84in-lb or 7ft-lb.

NOTICE

DO NOT overtighten the fittings or damage may occur!



TOOLS NEEDED:

- 3/16 Allen
- 7/16 Socket or Wrench

PARTS NEEDED:

- 4x 1/4-20 x 1.25 Socket Head Cap Screws
- 4x 1/4" Lock Washers
- 4x 1/4-20 Nuts
- 001-3C-0004 Cradle Bracket

INSTALL THE AirDog® ON THE CRADLE BRACKET

- 9-1. First, take a look under the truck and pick a location where the pump and brackets will fit. Once the location is known, orient the pump in the cradle bracket with the suction line "FUEL IN" pointed towards the fuel tank.

NOTICE

We recommend mounting the system on the inside of the frame if possible.

- 9-2. Using the above listed hardware, mount the AirDog® to the cradle bracket (001-3C-0004) in the desired orientation (inlet fitting facing the rear of the vehicle) using a 7/16 socket and 3/16 allen wrench.



Figure 4



Figure 5

TOOLS NEEDED:

- 3/16 Allen
- 1/2 Socket or Wrench

PARTS NEEDED:

- 4x 5/16-18 x 3.0" Flat Socket Head Cap Screws
- 4x 5/16" Lock Washers
- 4x 5/16-18 Nuts
- 010-3C-0001 Front Frame Sandwich Plate (Multiple Holes)
- 010-3C-0003-A-P Spacer Block

INSTALL THE AirDog® ON THE BRACKET SYSTEM

- 9-3. Mock the Front Frame Sandwich Plate (Multiple Holes) (010-3C-0001) on the frame and hold the pump assembly up to it. Be sure to choose a set of holes that tucks the pump up as far as possible without touching the bottom of the cab and use those holes to mount the pump in the next step. Point the "Fuel In" port towards the Fuel Tank. In other words, point the "Fuel In" port towards the rear of the truck.

NOTICE

**Make sure the pump wires do not contact the bottom of the cab!
Pump Failure due to rubbed through/shorted wiring from improper installation is not covered under warranty!**



**BRACKET
TOP**



**BRACKET
BOTTOM**

Figure 6

- 9-4. Assemble the AirDog mounting bracket (001-3C-0004) to the frame bracket (010-3C-0001) using the spacer (010-3C-0003-A-P) as shown in figure 7 using the four bolts, lock washers, and nuts included in the mounting bracket hardware kit (figure 8). Properly torque all fasteners! The bracket assembly should look like figure 9. You will need a 3/16" Allen and a 1/2" Wrench. The finished assembly should look like figure 10.



Figure 7



Figure 8



Figure 9



Figure 10

Tools Needed:

- 2x 9/16" wrenches or socket wrenches
- Razor Knife

Parts Needed:

- 3x 3/8-16 x 4.5" Hex Head Cap Screw
- 3x 3/8 Lock Washers
- 3x 3/8-16 Nuts
- 010-3C-0002 Back Frame Sandwich Plate

Frame Rail Mounting

10-1. Start by disconnecting all four of the fuel lines from the factory fuel pump.

NOTICE

The supply lines are Yellow and the return lines are Blue.



Figure 11

10-2. Remove the factory quick connects by, first, lifting the lock (1) to the unlock position, then, by pressing down on the tab (2) while pulling the fitting away. Have a container or rag handy as some fuel will drain out. **The blue tab is for illustration purposes only.** The factory suction line uses yellow tabs.

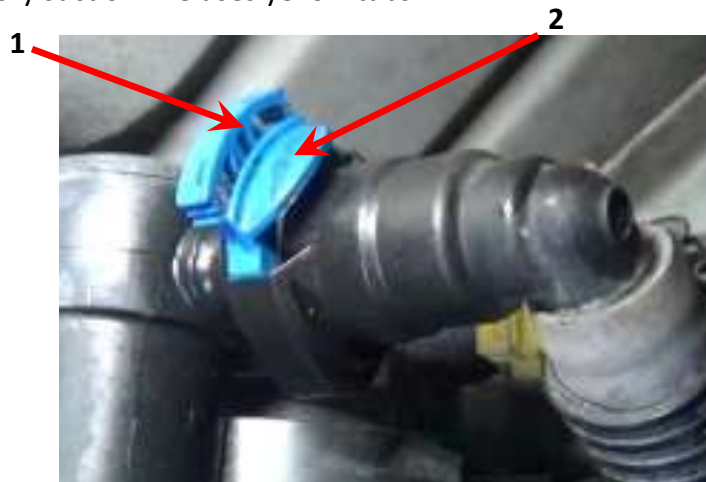


Figure 12

- 10-3. Next, remove the four nuts on the frame rail that secure the factory fuel pump and remove the factory pump.



Figure 13



Figure 14

- 10-4. While there is clear access to the factory suction line, cut the rubber line off of the hard line. This is the yellow line closest to the fuel tank. This line will later be replaced by AirDog fuel line.

NOTICE

Be sure to not score the metal line while cutting the rubber line off or a suction leak may occur!



Figure 15



Figure 16

- 10-5. Clamp the frame between the AirDog® bracket assembly and the back frame sandwich plate (010-3C-0002) using the 3/8" x 4.5" bolts, lock washers, and nuts included in the kit. Install the AirDog® where the factory pump was removed. Use two 9/16" wrenches to tighten. The two bolts go on top (Figure 17) and the single bolt goes on the bottom (Figure 18).

NOTICE

DO NOT overtighten the bolts or you may bend the brackets and chip the powdercoat! Only tighten until the lock washers are flat.

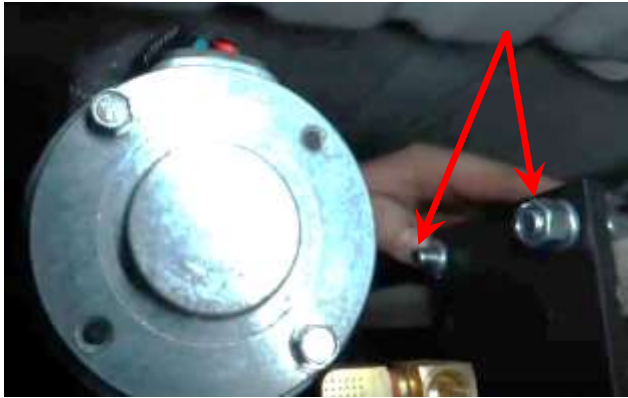


Figure 17



Figure 18



Figure 19



Figure 20

Assembling the Fuel Lines

This kit includes a length of fuel line and separate fuel line ends to allow for much cleaner looking installations! Assemble the fuel lines as you install them. You won't want to pre-assemble the hoses or your lengths may be off.

- 11-1. Take the fuel line end and lubricate the barbed end with clean motor oil (Figure 21) and press it into the fuel line (HS14) until all of the barbs are covered (Figures 22 and 23). The fuel line end should look like Figure 23.



Figure 21



Figure 22



Figure 23

- 11-2. Now plug that fuel line with that fitting into the connection on the either the AirDog or the truck where the manual calls it out.
- 11-3. Run the fuel line along the frame away from any hot or moving parts such as exhaust or the driveshaft (Figure 24). Cut the hose to length and insert the other fuel line end that the manual calls out into the fuel line as outlined in step 11-1.



Figure 24

NOTICE

Hose clamps are not needed for these push-lock connectors. Hose clamps may cause damage to the hose!

Supply Line from the AirDog II-5G Outlet to the Factory Engine Supply Line for Crew Cab Applications

NOTICE

The installation between the Single Cab and Quad Cab applications will vary slightly. If your application is a single cab, continue to section 12B.

- 12A-1. The factory supply line (Yellow) that was disconnected from the factory fuel pump can be connected directly to the AirDog II-5G “Engine” port. Be sure the fuel line does not kink. If need be, loosen the sandwich plates to slide the pump and re-tighten.

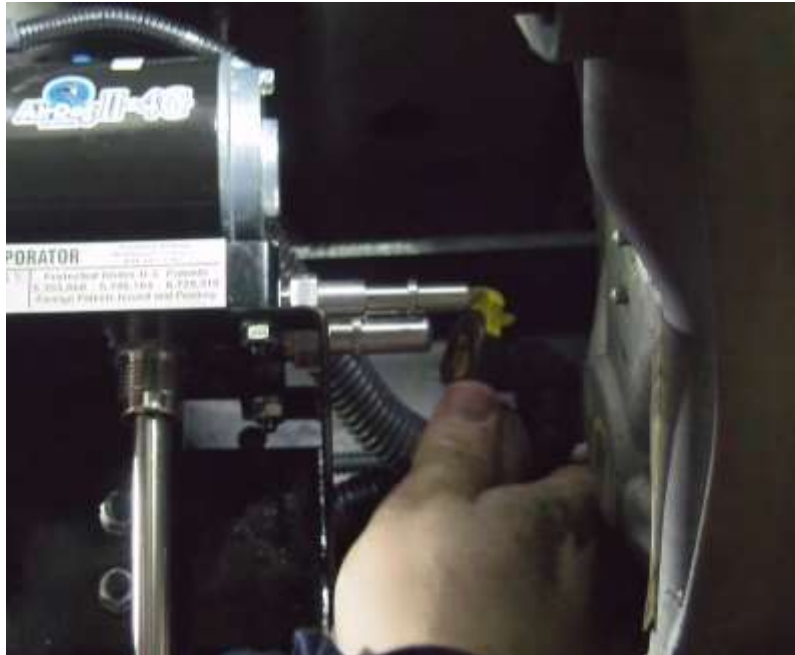


Figure 25



Figure 26

Tools Needed:

- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line
- 1/2" Fuel Line Disconnect Tool

Parts Needed:

- HS14, 14ft of Fuel Line
- 2x FQC12S Fuel Line Fittings

Supply Line from the AirDog II-5G Outlet to the Factory Engine Supply Line for Single Cab Applications

12B-1. Remove the other end of the factory fuel pump outlet line from the hard steel line that is located above the crossmember. Refer to Fig. 27. You may need to use a fuel line quick disconnect tool (Fig. 28). This tool can be picked up at any local auto parts store. Once removed, discard the factory line.



Figure 27



Figure 28

12B-2. Now, assemble one end of the fuel line (Reference section 11) using fuel line end FCQ12S and plug it into the J2044 male connection on the factory fuel line to where the factory supply line was just removed from above the crossmember in the previous step. A “click” will be heard once properly connected.

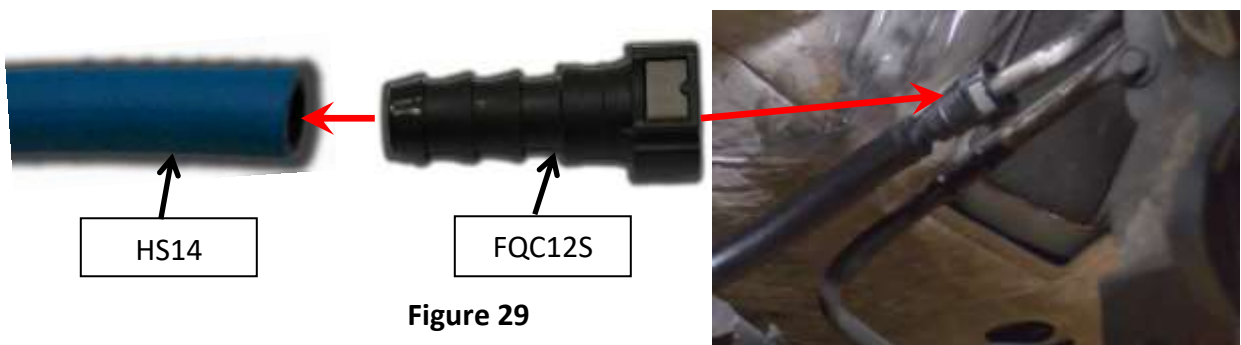


Figure 29

12B-3. Run the fuel line along the frame as mentioned in step 11-3 to the “Engine” port in the AirDog®. Cut the fuel line to length and insert fuel line end FQC12S per step 11-1. Once the fitting is installed, connect it to the male J2044 fitting in the “Engine” port in the AirDog®. A “click” will be heard once properly connected.



Tools Needed:

- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line

Parts Needed:

- HS14, 14ft of Fuel Line
- FQC12S Fuel Line Fitting for Single Cab
- FQC1290 Fuel Line Fitting for Crew Cab

Suction Line from the Factory Suction Line to the AirDog II-5G Inlet

13-1. First, lubricate the inside of one end of the HS14 fuel line with clean motor oil and slide it over the suction line to where the factory piece was cut off in step 10-4. Refer to Figure 32 for proper installation

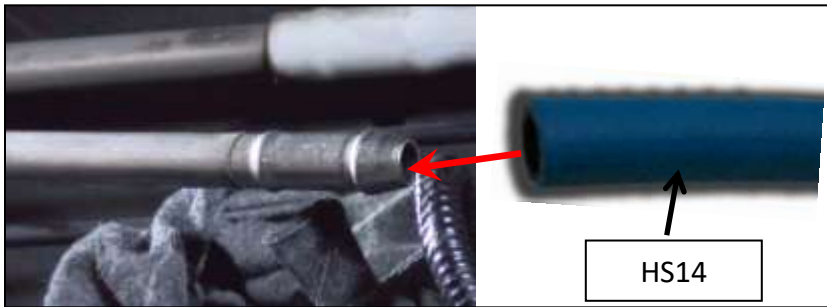


Figure 31



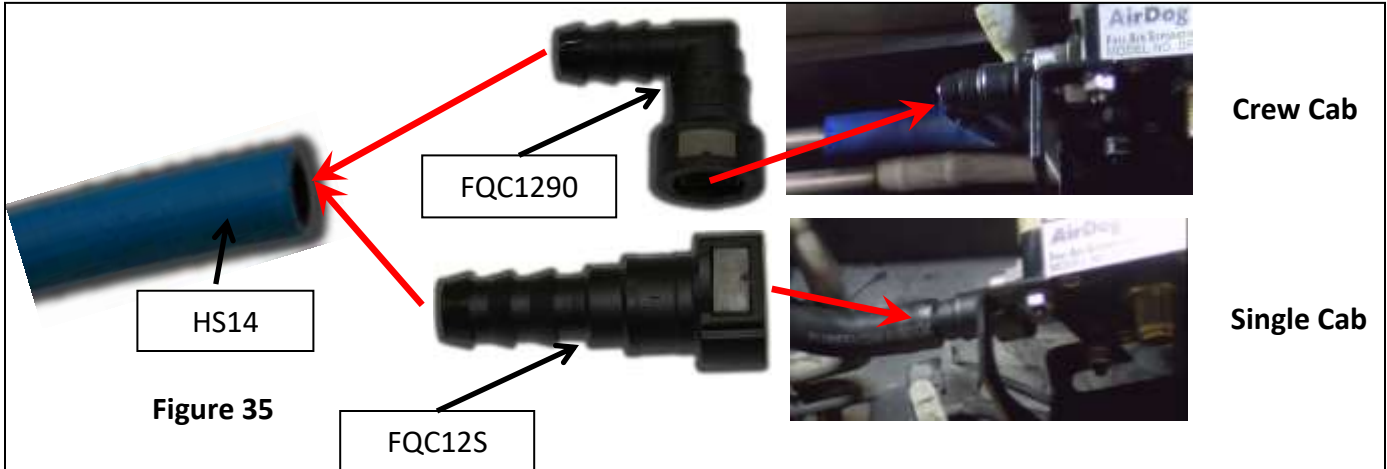
Figure 32

NOTICE

The Crew Cab and Single Cab trucks will need to use different fittings from one another for the next step. Crew Cab trucks will need to use an FQC1290 fitting and the Single Cab trucks will need to use the FQC12S fitting.



- 13-2. For Crew Cab applications, assemble the other end of the fuel line (Reference section 11) using fuel line end FQC1290 and plug it into the male J2044 fitting installed in the AirDog® labeled "Engine." A "click" will be heard once the fitting is properly connected. Refer to figure 30. For Single Cab applications do the same, but with an FQC12S Fitting.



Tools Needed:

- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line

Parts Needed:

- HS14, 14ft of Fuel Line
- 001-4B-1-0067
- FQC38S Fuel Line Fitting
- FQC3890 Fuel Line Fitting

Retrun Line from the AirDog II-5G to the Factory Engine Return

- 14-1. Take the 001-4B-1-0067 return “Y,” included in the kit, and plug it into the two blue factory lines. Be sure to lock the connectors and to have the outlet of the “Y” facing toward the AirDog Return port.



Figure 36



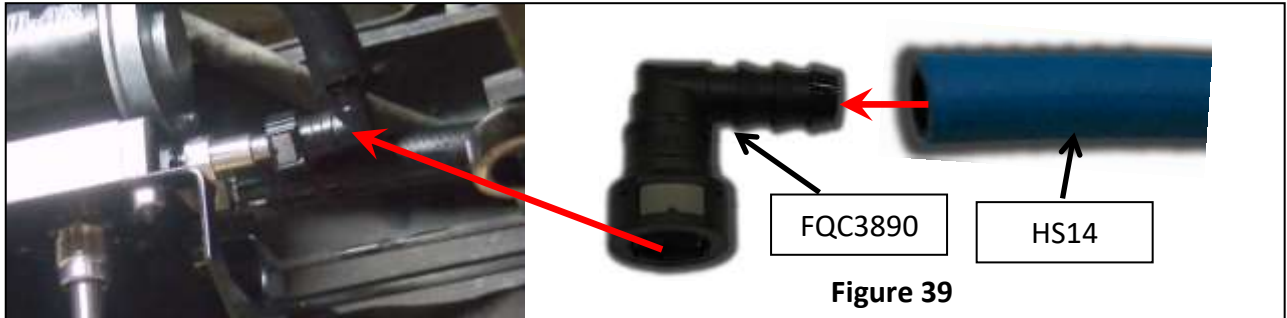
Figure 37

- 14-2. Next, assemble one end of the fuel line (Reference section 11) using fuel line end FCQ38S and plug it into the J2044 male connection on the return “Y.” A “click” will be heard once the fitting is properly connected.



Figure 38

- 14-3. Run the fuel line along the frame as mentioned in step 11-3 to the “Return” port in the AirDog®. Cut the fuel line to length and insert fuel line end FQC3890 per step 11-1. Once the fitting is pressed in, connect it to the male J2044 fitting in the “Return” port in the AirDog®. A “click” will be heard once properly connected. Refer to Figure 39.



AirDog® Wiring Harness Install

WIRING DIAGRAM

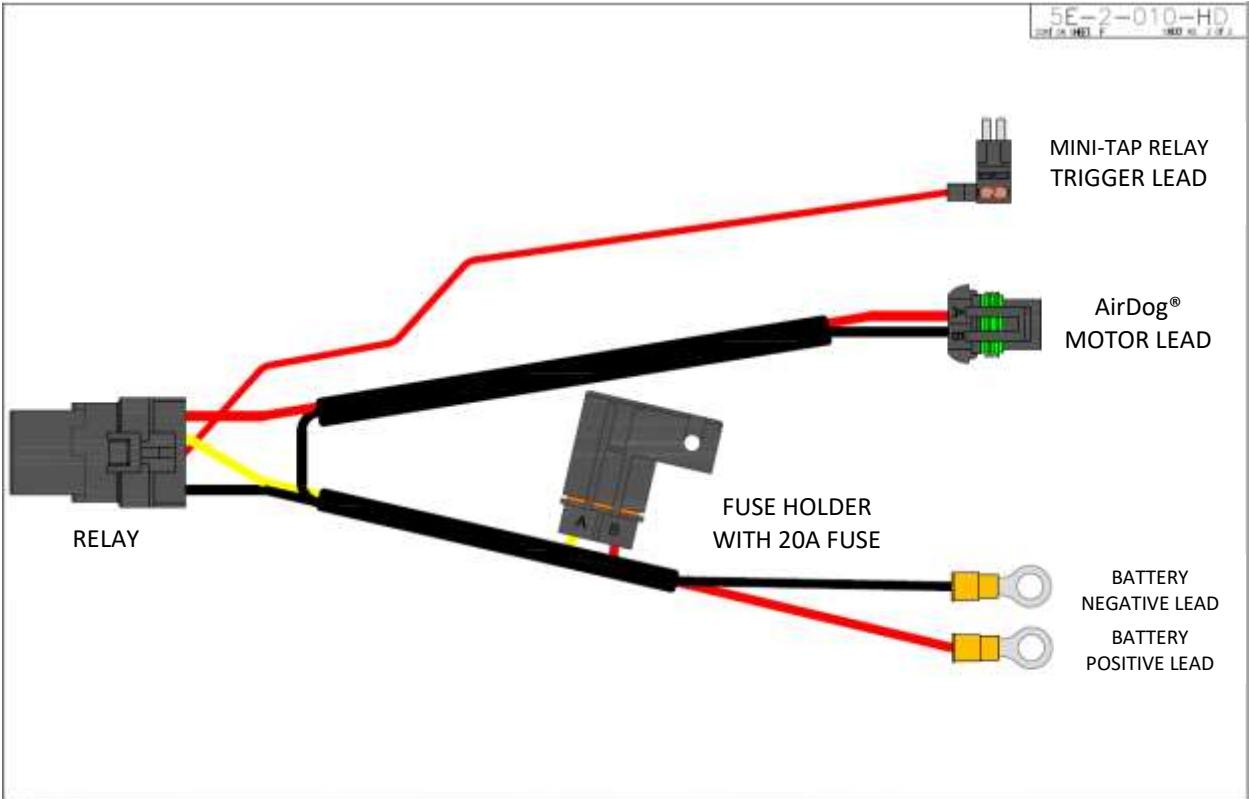


Figure 40

Secure the Relay and Fuse Holder to the Vehicle

- 15-1. Secure the relay and fuse holder to the vehicle. Be sure to route the wires away from any moving parts. The relay is illustrated below in figure 41. The fuse holder mounting is the same concept.



Figure 41

Connecting the AirDog® II Relay Control Lead



- 15-2. Route the **AirDog® II** 'Relay activation lead', the Red (+) wire with the mini fuse tap attached, to the under hood fuse panel located on the driver side fire wall. Connect the fuse tap to a run/start/key on hot circuit. We used fuse #56. **Be sure to reinstall the fuse you remove back into our fuse tap so both fuse tap positions are occupied.**

NOTICE

The power supply leads can be connected to the battery or the alternator. Connecting the power supply leads to the alternator instead of the battery will create a corrosion free connection.

- 15-3. Route the power supply leads to the alternator. Connect the Black (-) lead to the alternator *Ground* connection.

Connect the Red (+) lead to the alternator *Hot Lead* going to the battery.

Black (-) Red (+)



Figure 42

OR

- 15-4. Should you choose to connect the power supply leads directly to the battery, connect the RED (+) lead to the POSITIVE (+) post of the driver's side battery. Connect the BLACK (-) lead to the NEGATIVE (-) post of the same battery.



Figure 43

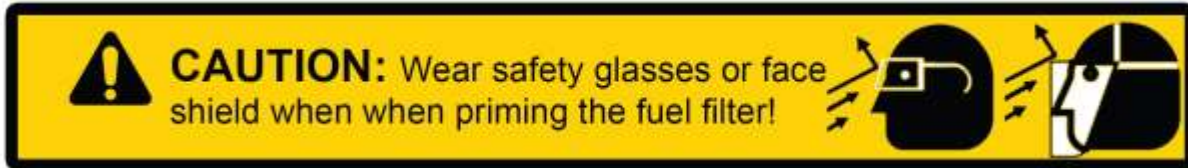
- 15-5. Route the wiring harness to the **AirDog®** and connect the 2 pin connector to the corresponding connector on the **AirDog®**.



Figure 44

INITIAL START PROCEDURE

- 16-1. The AirDog®II is a self-priming system, however, to prevent possible damage to the system, it is recommended to fill the water separator with diesel fuel before initial startup.
- 16-2. Rub diesel fuel or oil on the filter seals before installing to ensure a proper seal.
- 16-3. Turn the starter key to the on/run position.



- 16-4. While the AirDog®II is operating, bleed the fuel line to the engine of air by loosening the fuel line connection at the engine fitting. As soon as the line is purged of air and pure fuel is observed, properly tighten the fuel fitting.

NOTICE

put a rag or shop towel over and around fitting to prevent splatter. Catch all spilled fuel and dispose of properly. Wear safety glasses.

- 16-5. Start engine.

RECHECK ALL FUEL FITTINGS FOR LEAKAGE AND PROPERLY TORQUE. BE SURE ALL FUEL LINES ARE PROPERLY ROUTED TO PROTECT FROM EXCESSIVE HEAT AND SECURED TO PROTECT FROM CHAFFING AND ABRASION. RECHECK ALL ELECTRICAL LINES, SECURE AS NECESSARY.

CHECKING FOR EXCESSIVE PUMP NOISE

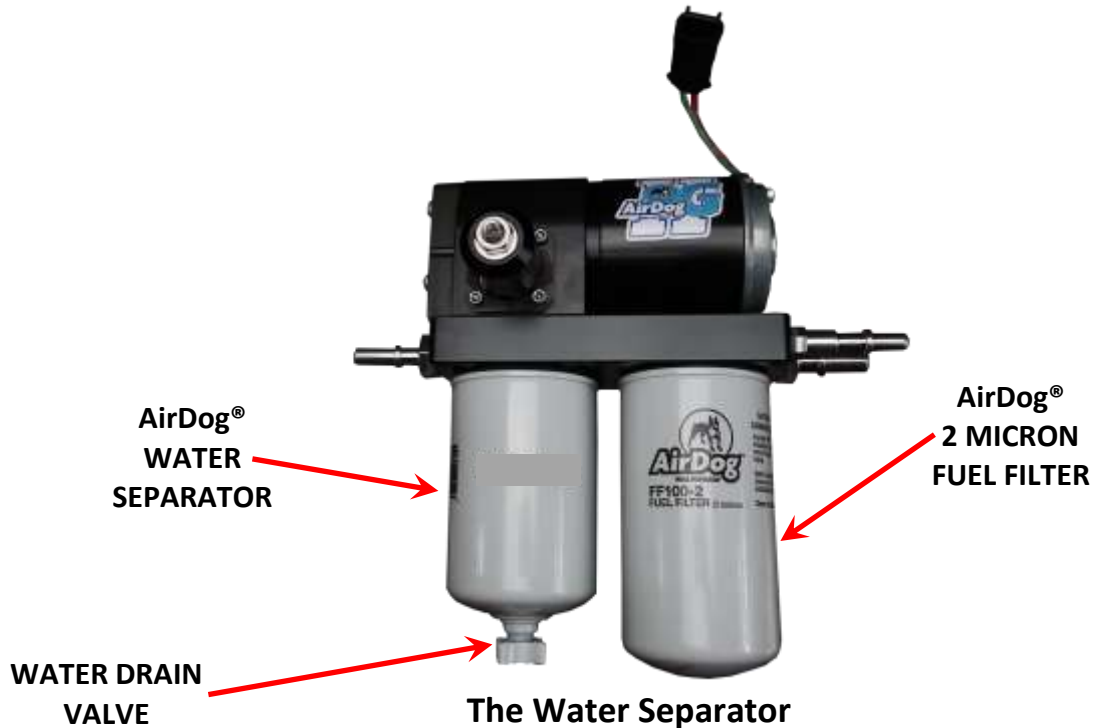
NOTICE

Each AirDog®II has been manufactured in a Quality Controlled process and wet tested for operation and performance before shipment. This is a smooth running system. With fuel or air alone, the AirDog®II fuel pump will run quietly. However, if any fuel fitting on the vacuum side, between the fuel tank and the AirDog®II or the pre-filter has been left loose during the installation process, the system may be sucking air at an excessive rate and will be very noisy. Excessive restriction in the suction line from the fuel tank can cause vapor and noise, as well. To check for these problems, unscrew the pre-filter 3 or 4 full turns and activate the AirDog®II by turning the ignition switch to on. If the AirDog®II runs quietly, then excessive air from a loose fitting or leaking pre-filter seal or vapor from fuel flow restriction is most likely the reason for the excessive noise. Correct as necessary.

- A. The seal groove in the 3" filter is a snug fit and on occasion the seal has been found to not be fully seated. Remove the pre-filter, remove the seal from the top of the nut plate. Clean and lubricate the seal groove. Carefully replace the seal in the groove. Be sure to fully seat the seal.
- B. Check all fittings, especially the quick connect at the tank.

FILTER SERVICE RECOMMENDATIONS

Plugging of either the fuel filter or the water separator itself will cause low fuel pressure and low flow to the engine. If a low fuel pressure issue exists, replace the fuel filter. Typical fuel filter life is 15-20k miles depending on fuel quality.



Replace the water separator every other time you change the Fuel Filter or if it becomes damaged or plugged. It is suggested to check/drain the water separator every three months or as needed should you experience excessive 'water in fuel' conditions. When installing the water separator, be sure to clean the underside of the AirDog® base. Follow the instructions printed on the pre-filter for proper tightening procedures.

NOTICE

Be extremely careful to prevent any contaminants or debris from entering the pre-filter when removing it for cleaning! Large debris will jam the Gerotor and cause the fuse to blow. This is not a warranty item. Should this happen, you can easily put the system back into working order. See the instructions on "How to clean the Gerotor" for proper procedures.

The Fuel Filter

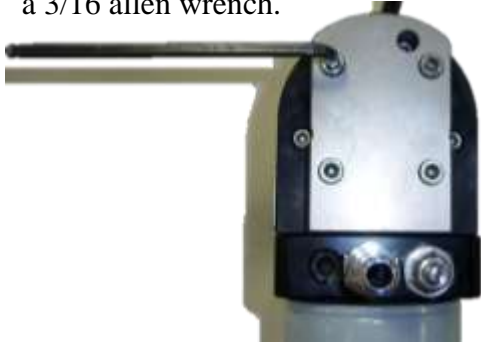
Remove the fuel filter by turning it counter clockwise. **DO NOT** pre-fill the fuel filter with fuel. The AirDog® will fill the filter and prime the system automatically. Follow the instructions on the filter for proper tightening procedures.

NOTICE

Dispose of waste fuel and used filters properly

CLEANING DEBRIS/CHECKING FOR DAMAGE IN/TO THE GEROTOR ASSEMBLY

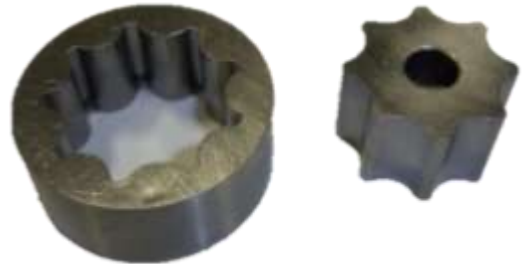
STEP 1: Remove the four (4) socket head cap screws that secure the Gerotor cap using a 3/16 allen wrench.



STEP 2: Carefully remove the O-rings you will need to reuse them.



STEP 3: Remove and clean the Gerotor. Be very careful to not damage the Gerotor.



STEP 4: Remove the O-rings and clean/inspect the inside of the Gerotor pocket.



STEP 5: Reinstall the center gear.



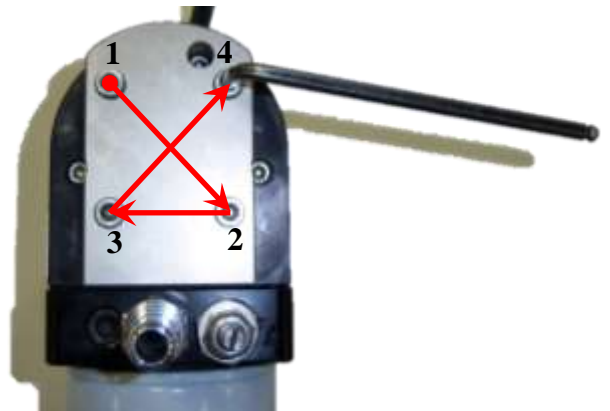
STEP 6: Align and install the outer gear and O-rings.



STEP 7: Install the Gerotor Cap. Be very careful not to dislodge or pinch the O-rings.



STEP 8: Loosen the cap screws. Torque the cap screws in an opposing pattern.



If there is damaged found to either the Gerotor, Gerotor pocket, or O-rings, call into AirDog® Tech Support for further assistance.

AirDog®II-5G ADJUSTABLE FUEL PRESSURE REGULATOR

The AirDog®II-5G rises to a new level of performance with an adjustable diaphragm fuel pressure regulator. This regulator offers more consistent fuel pressure and allows for higher flow rates at pressure. This regulator can also be boost compensated to battle any pressure drops under wide open throttle. The boost compensation kit is sold separately.

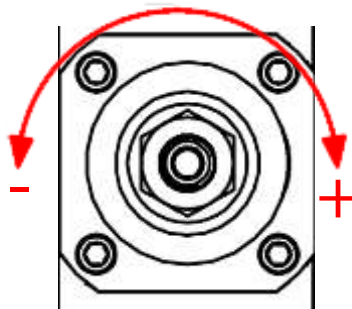
PRESSURE ADJUSTMENT FOR THE 6.7L POWERSTROKE

Loosen the Jam Nut with a 5/8 wrench
Re-torque after adjustment

Use a 3/16 allen to adjust the pressure
regulator



PRESSURE ADJUSTMENT



PRE-SET AT 68PSI
FROM FACTORY



Turn the adjuster screw counter-clockwise to reduce the output pressure or clockwise to increase the pressure. Be sure to re-torque the jam nut after adjusting the regulator. **IT IS STRONGLY RECOMMENDED TO ADJUST THE PRESSURE WHILE USING A FUEL PRESSURE GAUGE. TOO MUCH OR TOO LITTLE PRESSURE MAY CAUSE DAMAGE TO THE INJECTION SYSTEM!**

Every AirDog II-5G has a 90-degree brass fitting in the pump to where you can add a fuel pressure gauge or fuel pressure sending unit for an electric gauge.



PUREFLOW AIRDOG
LIFETIME LIMITED EXPRESS WARRANTY

FOR
 Covered PureFlow AirDog I, II and Raptor Systems

IMPORTANT NOTICE

TO ACTIVATE YOUR PUREFLOW AIRDOG WARRANTY, YOU MUST COMPLETE AND MAIL YOUR WARRANTY CARD TO PUREFLOW AIRDOG WITH A COPY OF YOUR ORIGINAL SALES RECEIPT WITHIN 30 DAYS OF PURCHASE. FAILURE TO COMPLETE AND SUBMIT YOUR WARRANTY CARD WILL RESULT IN A WARRANTY PERIOD OF THE COVERED PRODUCT TO ONE (1) YEAR FROM THE DATE OF PURCHASE.

PureFlow AirDog (hereafter collectively, "SELLER") warrants and guarantees only to the Original Purchaser (hereafter collectively, BUYER) that All PureFlow AirDog Systems (hereafter collectively, PRODUCT) shall be free from defects of materials and workmanship in the manufacturing process for as long as the BUYER owns the PRODUCT.

The Lifetime Limited Express Warranty is limited to the PRODUCT purchased by the original BUYER of the PRODUCT and limited solely to the parts contained within the PRODUCT and EXCLUDES ALL ELSE INCLUDING FILTERS AND WATER SEPARATORS. Any PRODUCT that is in question of Warranty must be returned, shipped prepaid, to PureFlow AirDog. All Warranty claims are subject to the approval of PureFlow AirDog. If it is determined that a Warranty claim exists, PureFlow AirDog will, at its sole discretion, replace the defective PRODUCT with a comparable PRODUCT, repair the defective PRODUCT, or refund the BUYER'S purchase price in exchange for the PRODUCT. Repairs or replacements are warranted for only the remainder of the original warranty period and only to the original BUYER.

Under no circumstances shall the SELLER be liable for any labor charged or travel time incurred in the diagnosis for defects, removal, or reinstallation of the PRODUCT, or any contingent expense.

Under no circumstances will the SELLER be liable for any damage or expense incurred by reason of the use or sale of the PRODUCT.

Other than expressly set forth herein, the SELLER shall in no way be responsible for the proper or improper use and service of the PRODUCT. In no event shall the SELLER be liable for any special, incidental, indirect or consequential damages of any kind or nature, whether or not the BUYER of the PRODUCT was advised of the possibility of damage or harm, arising or resulting from the use or performance of the PRODUCT and BUYER hereby waives the right to any and all such claims.

BUYER, acknowledges that he/she is not relying on SELLER'S skill or judgment to select or furnish goods suitable for any particular purpose and that SELLER has no liability that will extend beyond the scope of the LIMITED EXPRESS WARRANTY contained herein, and BUYER hereby waives all remedies or liabilities, expressed or implied, arising by operation of law or otherwise, (including, without limitation, any obligation of SELLER with respect to fitness for any particular purpose; merchantability; and special, incidental, indirect or consequential damages) or whether or not occasioned by SELLER'S negligence.

SELLER disclaims any warranty and expressly disclaims any liability for personal inquiry or damages related to BUYER'S use of the PRODUCT. BUYER acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and BUYER agrees to indemnify SELLER and hold SELLER harmless from any claim related to the PRODUCT and its use or performance. Under no circumstances will SELLER be liable for any damages, liabilities, costs or expenses incurred as a result of or by reason of use, performance or sale of the PRODUCT, including without limitation, any damages, liabilities, costs or expenses incurred by reason of BUYER'S negligence related to those uses of the PRODUCT.

The proper installation of the PRODUCT is the sole responsibility of the BUYER. The SELLER assumes no liability regarding improper installation or misapplication of the PRODUCT.

SELLER hereby provides the following limited warranty as to description, quality, merchantability, fitness for the PRODUCT'S purpose, productiveness, or any other matter of SELLER'S PRODUCT sold herewith. The SELLER shall be in no way responsible for the open use and service of the PRODUCT and the BUYER hereby waives all rights other than those expressly written herein. This Warranty shall not be extended or varied except by a written instrument signed by SELLER and BUYER.

IN THE EVENT THAT THE BUYER DOES NOT AGREE WITH THIS AGREEMENT, THE BUYER MAY PROMPTLY RETURN THE PRODUCT, IN A NEW AND UNUSED CONDITION, WITH A DATED PROOF OF PURCHASE, TO THE PLACE OF PURCHASE WITHIN THIRTY (30) DAYS FROM THE DATE OF PURCHASE FOR A FULL REFUND. THE BUYER AGREES THAT THE INSTALLATION OF THIS PRODUCT CONFIRMS THE BUYER HAS READ AND UNDERSTANDS THIS AGREEMENT AND ACCEPTS THE TERMS AND CONDITIONS OF THIS AGREEMENT.

Warranty Procedure

In the unlikely event a warranty appears as if it may be warranted, the following steps are taken:

- 1 The customer discussed the symptoms of the problem with a PureFlow AirDog Technician. The customer is to have the system Serial Number and Model Number available for the Technician when the call is made. This will expedite all steps of the process.
- 2 The customer performs any and all tests requested by the PureFlow AirDog Technician. This is done to isolate the potential problem while eliminating potential installation or maintenance related issues,
- 3 If the PureFlow AirDog Technician determines based on the customer feedback concerning the requested testing that system may be at fault, the customer is advised that all returned pumps are tested upon arrival and should this returned pump perform at design criteria upon arrival, the customer will be charged a \$50.00 fee.
- 4 The PureFlow AirDog Technician will first request the customer's phone number in the event the phone call is accidentally disconnected and then transfer the customer to a PureFlow AirDog Customer Service Representative. Should a Customer Service Representative not be available, the Technician will offer the Customer the option to hold, call back, or receive a return call.
- 5 The PureFlow AirDog Customer Service Representative will check to determine if the customer's Warranty Registration Card is on file.
 - a. If no Warranty Registration is found, the customer will be required to supply the original purchase receipt showing the purchase date.
 - b. If no Warranty Registration is found, the customer will be advised of the options should the system in question is out of the default warranty period (1 year).
- 6 The PureFlow AirDog Customer Service Representative will request the customer information, including: Name, Address, Phone Number, Model Number, Serial Number, Year / Make / Model of vehicle, Name of Dealer purchased from, Purchase Date, Description of Problem, Customers' understanding of the resolution, and customer credit card information.
- 7 PureFlow AirDog will cover Ground Shipping charges to ship the replacement unit and will include a prepaid shipping label for the return of the defective unit. Any additional items ordered at the time of the replacement shipment will include their portion of the shipping cost.
- 8 A period of 15 Calendar Days from the time of shipment is provided for the receipt of the defective unit at the PureFlow AirDog facility. Failure to return ship the defective unit to arrive within the defined time period will result in a charge of \$250.00 against the customer's credit card as the purchase cost of the defective unit.

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