

#37

# **AirDog II**

FUEL PREPARATOR

## **DF-100** **DF-165** **DF-200**

# **INSTALLATION MANUAL**

**FOR DURAMAX POWERED**

# **CHEVY & GMC TRUCKS**

**2011-2014**

**HIGH PERFORMANCE FUEL SYSTEM  
WITH QUICK CONNECT COMPONENTS**

**PLEASE READ THESE INSTRUCTIONS THOROUGHLY  
BEFORE BEGINNING THE INSTALLATION**



**PUREFLOW AIRDOG**  
**705 W MAUSOLEUM RD.**  
**SHELBYVILLE, IN 46176**

**877-421-3187**  
**PUREFLOWAIRDOG.COM**

CANADIAN PATENT  
2,108,391

PROTECTED BY  
US PATENTS  
5,355,860; 5,746,184; 6,729,310

AUSTRALIAN PATENT  
2005101054

NEW ZEALAND PATENT  
532356

Additional Foreign Patents Pending in Europe, South America, Mexico, Japan, and China!



**SMALL and COMPACT**  
**7" Long X 3.2" Wide X 10" Tall**

## OVERVIEW

Welcome to PureFlow® AirDog®

### Fuel Air Separation, Filtration and Delivery System for the Diesel Engine

The AirDog® II Fuel Preparator® is a premium fuel pump and complete filtration system for the Duramax Diesel Engine. The system removes water, particulates, and entrained air from the fuel. The entrained air separated from the fuel is returned to the tank through a small return line. The fuel is then delivered to the engine at the correct pressure to meet the demands of the engine under all operating conditions.

The AirDog®II-4G systems feature a built in adjustable pressure regulator. All AirDog®II and AirDog®II-4G systems include a complete installation kit.

The AirDog®II-4G for this particular application are preset at 8-10psi from factory for a stock application. The regulator is adjustable for fine tuning the system for performance upgrades. **WARNING: RUNNING THE PUMP ABOVE 75PSI FOR THE 100 AND 165 AND ABOVE 30PSI FOR THE 200 WILL DECREASE THE LIFE OF THE PUMP SIGNIFICANTLY AND MAY VOID THE WARRANTY.**

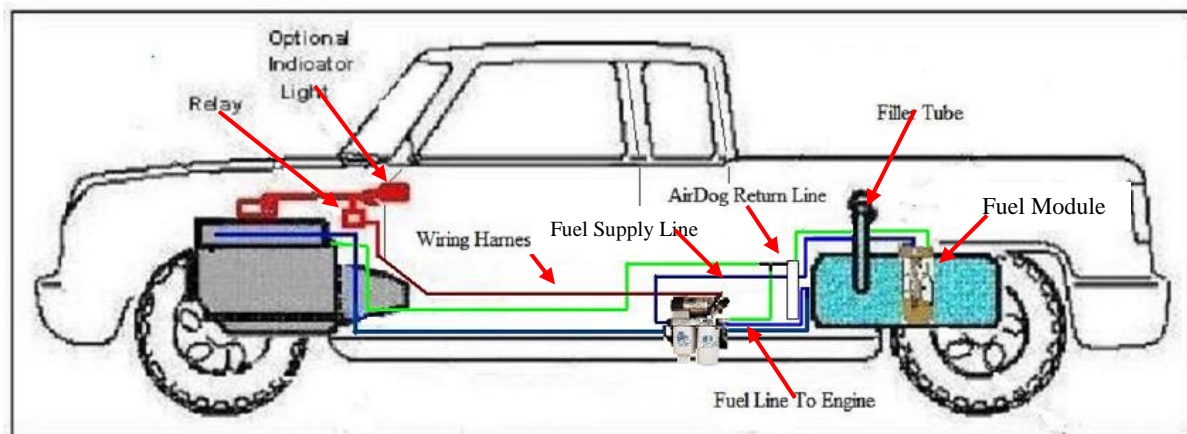
The AirDog® II **DF-100** is recommended for **stock and slightly modified** Duramax Diesels.

The AirDog® II **DF-165** is recommended for **highly modified** Duramax Diesels.

The AirDog® II **DF-200** is recommended for **Ultra High Performance** Duramax diesel engines.

PureFlow AirDog products are manufactured in Shelbyville Indiana by a team of skilled workers with unsurpassed attention to detail and using the most stringent quality assurance.

### TYPICAL INSTALLATION LAYOUT



The AirDog® II draws fuel from the fuel tank, removing water, particulates, and air/vapor. A regulated pressurized flow is maintained to meet the engine's varying fuel demands. The separated air/vapor is returned to the fuel tank.

**NOTE: The pictures used in this manual are for example only and may not be exactly the same as your truck.**

## QUICK CONNECT COMPONENT OVERVIEW

Provided in this kit is an OE style quick connection system. This system works to allow for a quick, clean, and professional install.

### SAE J2044 Quick Connect System

The SAE J2044 quick connect system is the most commonly used system in the automotive industry. The images below show the formation of SAE J2044 connection. To connect the assemblies, simply insert the male end form into the mating female connector. Push firmly until you hear it “click” into place. To disconnect the fittings, press down and hold the tabs on the female connector while you firmly pull the assembly apart.



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## AirDog® II

The installation of your **AirDog® II** 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 parts missing or damaged.
2. Read the installation manual completely. Understand how the system operates and installation recommendations before beginning 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!

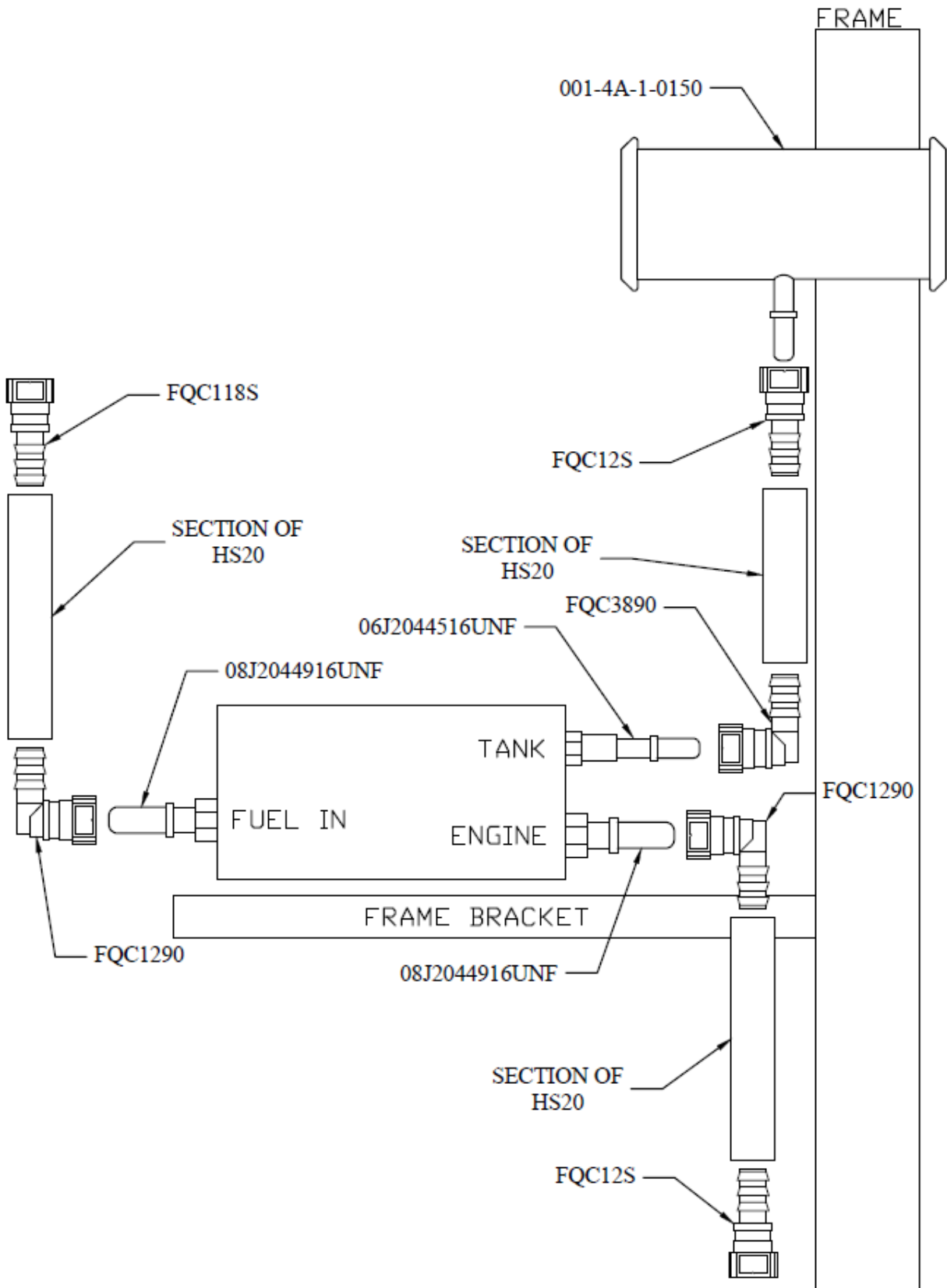
- CAUTION!** Please be sure to chock the vehicle's tires to prevent rolling.
- CAUTION!** Please use proper supports when working beneath an elevated vehicle.
- CAUTION!** Most diesel pickups have two (2) 12volt batteries. Disconnect the battery cables to both batteries before proceeding with the AirDog II installation.
- CAUTION!** Vehicle frame rails should not be drilled into or welded upon.
- CAUTION!** Wear safety glasses when operating power tools such as drills and grinders or when using a punch or chisel.
- CAUTION!** Use common sense when routing fuel lines and electrical harnesses. Keep them away from hot exhaust components and/or moving parts. Properly secure lines to prevent chaffing.

Use Good Judgment and Common Sense When Installing the AirDog® !

**AirDog® II Parts List**

QTY	DESCRIPTION	PART NUMBER	IMAGE
1	<b>AirDog® II</b>	DF-100 or DF-165	
1	<b>AirDog® II Mounting Bracket</b>	001-3C-0004	
1	<b>Mounting Hardware Kit,</b>	901-61-0102-PM-C-12	
1	<b>Wiring Harness</b>	5E-2-010	
1	<b>Bundle of Plastic Ties</b>	5H-2-1-06/12	
1	<b>20ft of Hose</b>	HS20	
2	<b>1/2" Straight Hose Quick Connect End</b>	FQC12S	
1	<b>11.8mm Straight Hose Quick Connect End</b>	FQC118S	
2	<b>1/2" 90° Hose Quick Connect End</b>	FQC1290	
1	<b>3/8" 90° Hose Quick Connect Fitting</b>	FQC3890	
3	<b>Customer Service Oring Replacement Kit</b>	901-05-0100	
2	<b>1/2" Male J2004 Quick Connect x 9/16" UNF</b>	08J2044916UNF	
1	<b>3/8" Male J2004 Quick Connect x 5/16" UNF</b>	06J2044516UNF	
1	<b>Return Fuel Filler Tube (with 2 Clamps)</b>	001-4A-1-0150	

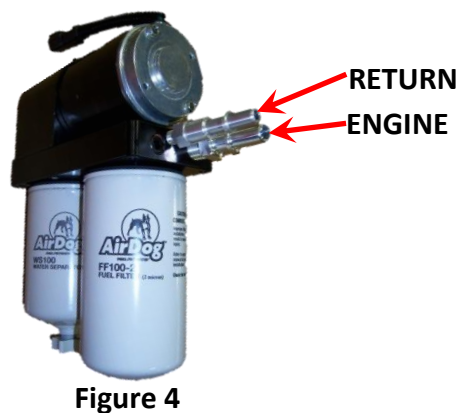
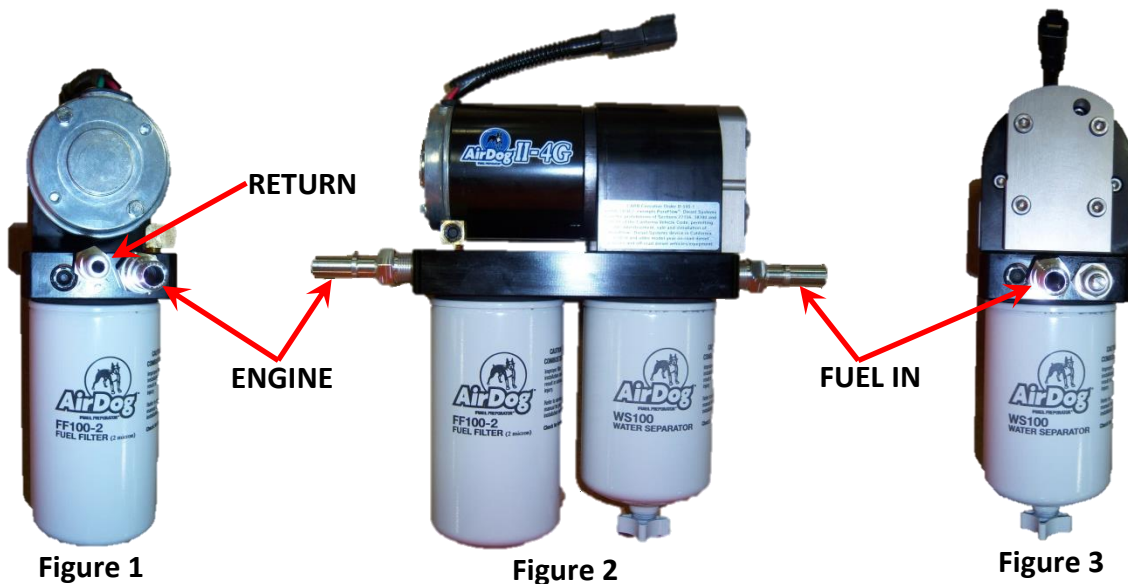
### ILLUSTRATION OF QUICK CONNECT COMPONENTS





## Installing the J2044 Quick Connect Fittings into the AirDog® II-4G Filter Base

- 4-1. Dip the threaded end of the 1/2" male J2044 quick connect X 9/16" UNF (08J2044916UNF) fittings into clean motor oil and hand-thread into the "ENGINE" and "FUEL IN" ports of the AirDog® II-4G filter base as illustrated in figures 1, 2, and 3. Using a 3/4" deep socket, torque the fittings to 120in-lb or 10ft-lb. **DO NOT overtighten the fittings or damage may occur!**
- 4-2. Dip the threaded end of the 3/8" male J2044 quick connect X 5/16" UNF (06J2044516UNF) fitting into clean motor oil and hand-thread into the return port of the the AirDog® II-4G filter base as illustrated in figures 1 and 4. Using a 5/8" deep socket, torque the fitting to 60in-lb or 5ft-lb. **DO NOT overtighten the fittings or damage may occur!**



4-3. Assemble the AirDog® to the formed mounting bracket (part # 001-3C-0004).

4-4. Mark mounting hole locations on frame jig bracket using the mounting bracket (001-3C-0004) as a template. Or create a paper template from the mounting bracket (001-3C-0004). Be sure to line the template up as described in order to get the proper clearance needed when pump is installed.



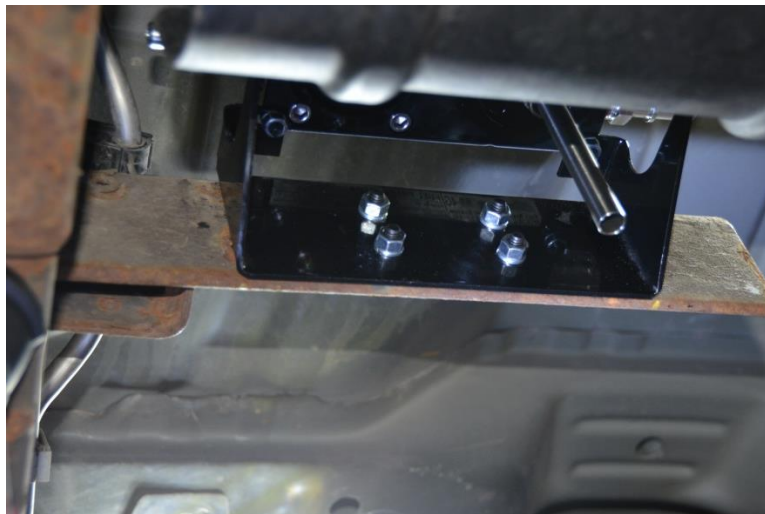
**Figure 5**



**Figure 6**

4-5. After holes are marked drill (4) 3/8" holes for the mounting bolts.

4-6. Attach the completely assembled Airdog to the frame jig bracket using the supplied bolts in the hardware kit (P/N 901-61-0102-PM-C-12). See figure 7.



**Figure 7**

## 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.**

- 5-1. Take the fuel line end and lubricate the barbed end with clean motor oil (Figure 8) and press it into the fuel line (HS20) until all three barbs are covered (Figures 9 and 10). The fuel line end should look like Figure 10.



**Figure 8**



**Figure 9**



**Figure 10**

- 5-2. Now plug that fuel line with that fitting into the connection on either the AirDog or the truck where the manual calls it out.

- 5-3. Run the fuel line along the frame away from any hot or moving parts such as exhaust or the driveshaft (Figure 11). 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 5-1.



**Figure 11**

**NOTE:** Hose clamps are not needed for these push-lock connectors.

**VERY IMPORTANT:** There are two types of straight fuel fittings in this kit. One is standard (1/2in) and the other is metric (11.8mm). The metric fitting is used to connect to the factory suction line from the tank and is identified by both a red dot and the marking of 11.8 (Figure 12).



**Figure 12**

## Installing the AirDog® II Fuel Supply Line to the Engine

To install the AirDog® II fuel supply line to the engine, you must first remove the (flexible) factory fuel line connecting the fuel tank to the frame mounted steel fuel line (Figure 15). It will be the larger of the two lines that are on the frame.

**NOTE:** The fuel tank connections are located behind the tank shield. It may be necessary to remove or bend the tank shield down to access the suction tube quick connect fitting.

- 6A-1. Remove the factory fuel supply line from the fuel tank suction tube. Place the 1/2" fuel line disconnect tool around the fuel line and press into the Quick Connect fitting to release the locks. Carefully pull the factory quick connect fitting and fuel line from the fuel tank suction fitting.



Figure 13

The DISCONNECT TOOL (as seen below) can be purchased from your local auto parts store. **This tool is NOT included in the kit.**



- 6A-2. Disconnect the other end of the fuel supply line from the steel line using the disconnect tool. It is the larger of the two lines on the frame. This connection is located between the frame bracket and the front of the fuel tank. You may now remove the 18" of factory flex line.

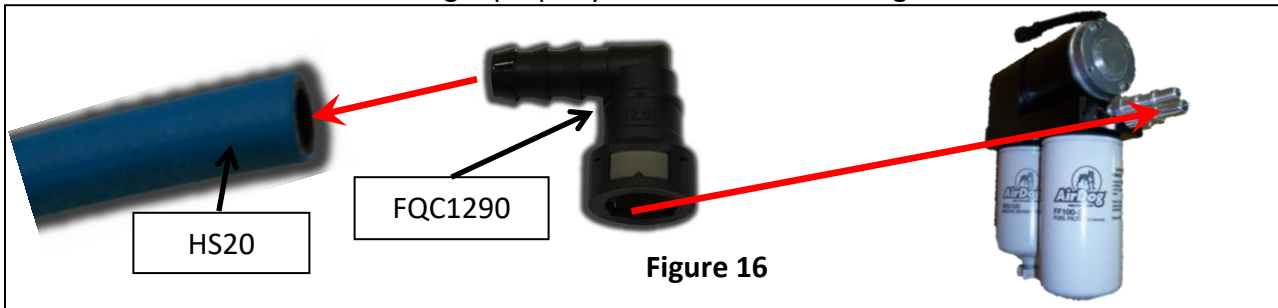


Figure 14



Figure 15

6A-3. Assemble one end of the hose (Reference section 5) 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 16.



6A-4. Using the fuel line disconnect tool, disconnect the larger of the two lines where they connect to the engine on the driver side under the brake booster. If you are having trouble finding the connection follow the lines up from under the truck to where they end as shown in figures 17 and 18.

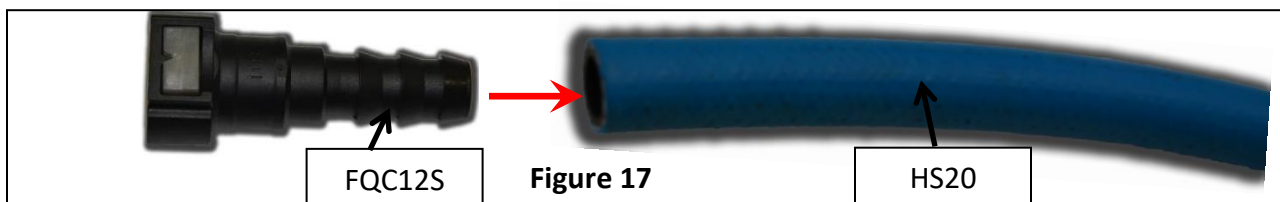


Figure 17



Figure 18

6A-6a. Once the stock line is disconnected, Run the other end of the fuel line from the AirDog® along the frame as mentioned in step 5-3. Cut the fuel line to length and insert fuel line end FQC12S per step 5-1. Once the connector is installed, connect it to the male J2044 fitting that was just disconnected under the brake booster. A “click” will be heard once properly connected.



6A-6b. If there is no connection under the brake booster, the other end of the pressure hose assembly can be hooked to the factory steel line on the frame where the short line was previously disconnected in step 6A-2 as shown in figure 18. Use the same FQC12S fitting as step 6A-6a (figure 17) and use the same concept for running the fuel line.

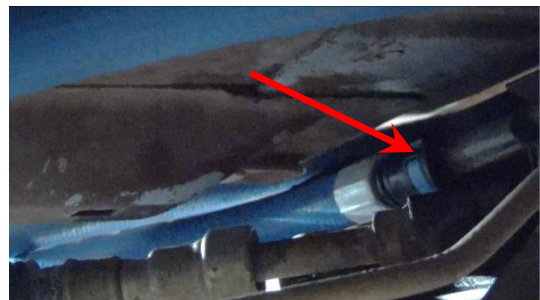
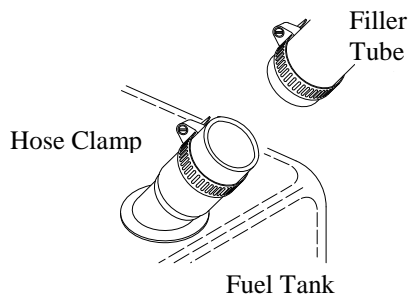


Figure 18

## AirDog® II Fuel Return Line Installing the Filler Neck Tee in the Filler Tube

- 6B-1. Cut filler tube as illustrated in figure 19, removing ½ inch of hose. Loose assemble clamps on each end of filler tube before the filler tube is pushed in.
- 6B-2. Insert the “Return Fuel Filler Tube” assembly (P/N 001-4A-1-0150) in the filler tube.  
**INSTALL THE FILLER TUBE WITH ARROWS, WHICH ARE STAMPED IN THE PART, POINTING TOWARD THE TANK!! SEE FIG 20.** Properly tighten clamps.



**Figure 19**

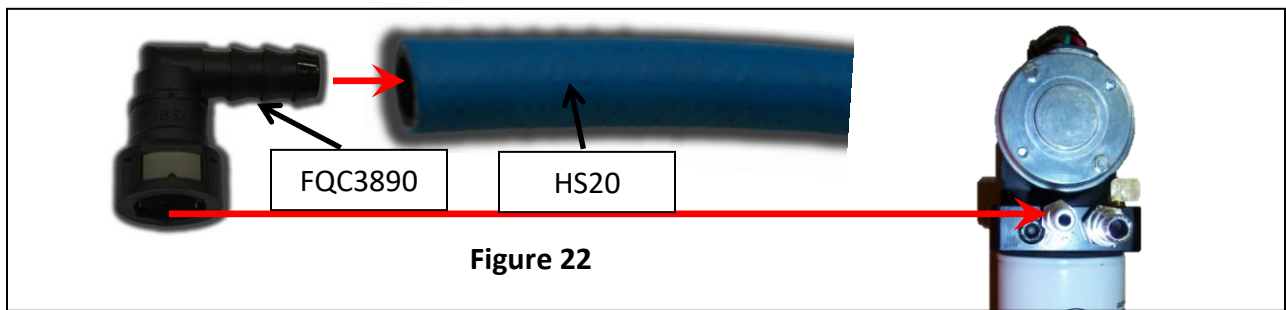


**Figure 20**



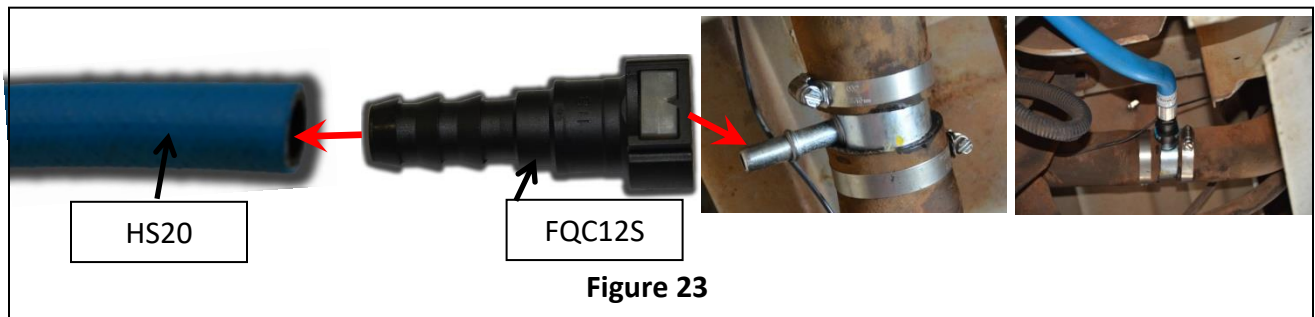
**Figure 21**

- 6B-3. Assemble one end of the hose (Reference section 5) using Fuel line end FQC3890 and plug it into the “Return” J2044 fitting installed in the AirDog® (Figure 22). A “click” will be heard once the fitting is properly connected.



**Figure 22**

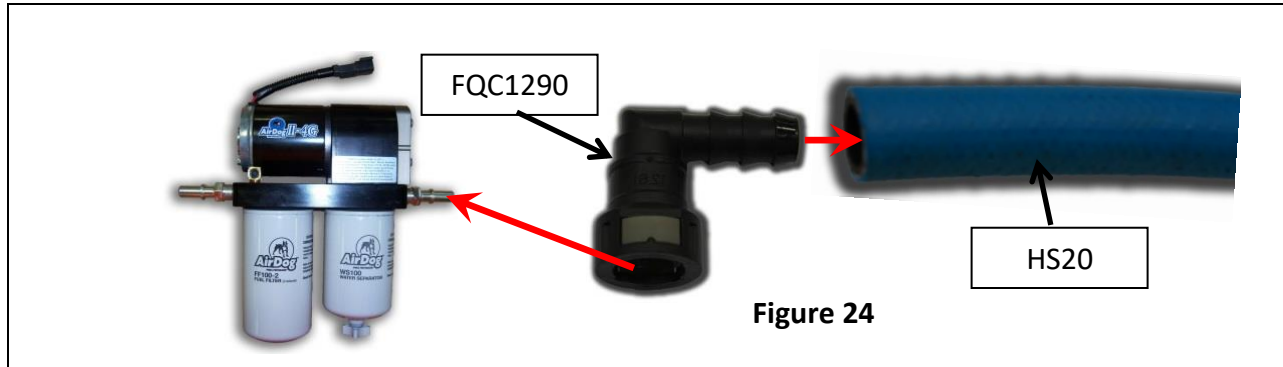
- 6B-4. Run the fuel line along the frame as mentioned in step 5-3 to the filler neck tee. Cut the fuel line to length and insert fuel line end FQC12S per step 5-1. Once the connector is installed, connect it to the male J2044 fitting in the filler neck tee (001-4A-1-0150). A “click” will be heard once properly connected.



**Figure 23**

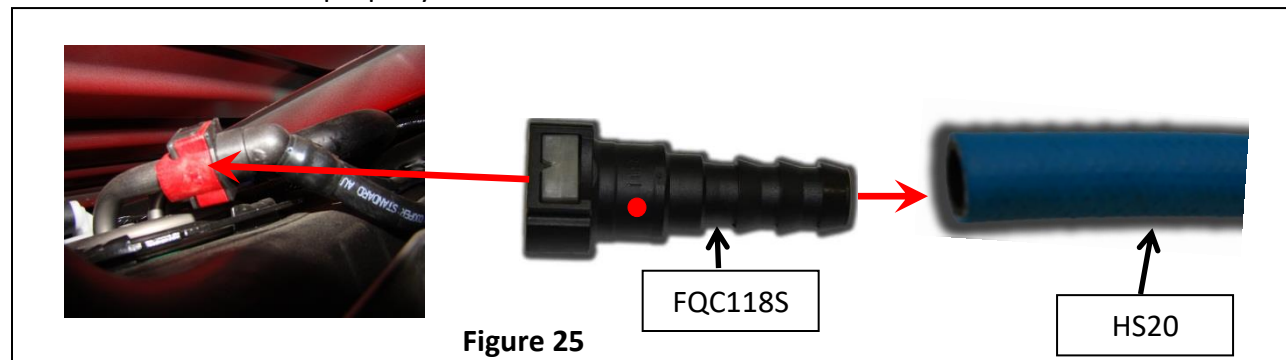
## Fuel Suction Line for AirDog® II

- 6C-1. Assemble one end of the hose (Reference section 5) using fuel line end FQC1290 and press it onto the male J2044 fitting in the AirDog® labeled “Fuel In.” A “click” will be heard once properly connected.



- 6C-2. Route the fuel line “Suction Hose Assembly” up along the frame back to the fuel tank making sure not to kink or route the hose in such a manner where it can be damaged as mentioned in step 5-3. Use the supplied tie straps to secure.

- 6C-3. Route the fuel line to the fuel module where the line was disconnected in step 6A-1. Cut the fuel line to length and press in hose end FQC118S as shown in figure 25. Once the fitting is pressed in, connect it to the factory fuel suction port on the tank. A “click” will be heard when properly connected.



**VERY IMPORTANT TO PREVENT FUEL LEAKS!** Be sure **NOT** to use one of the FQC12S fittings in place of the FQC118S! They are similar in size and shape. The one that needs to be used is 11.8mm and is identified by a red dot and is labeled 11.8 (Figure 26).



Figure 26

# AirDog® Wiring Harness Install

## WIRING DIAGRAM

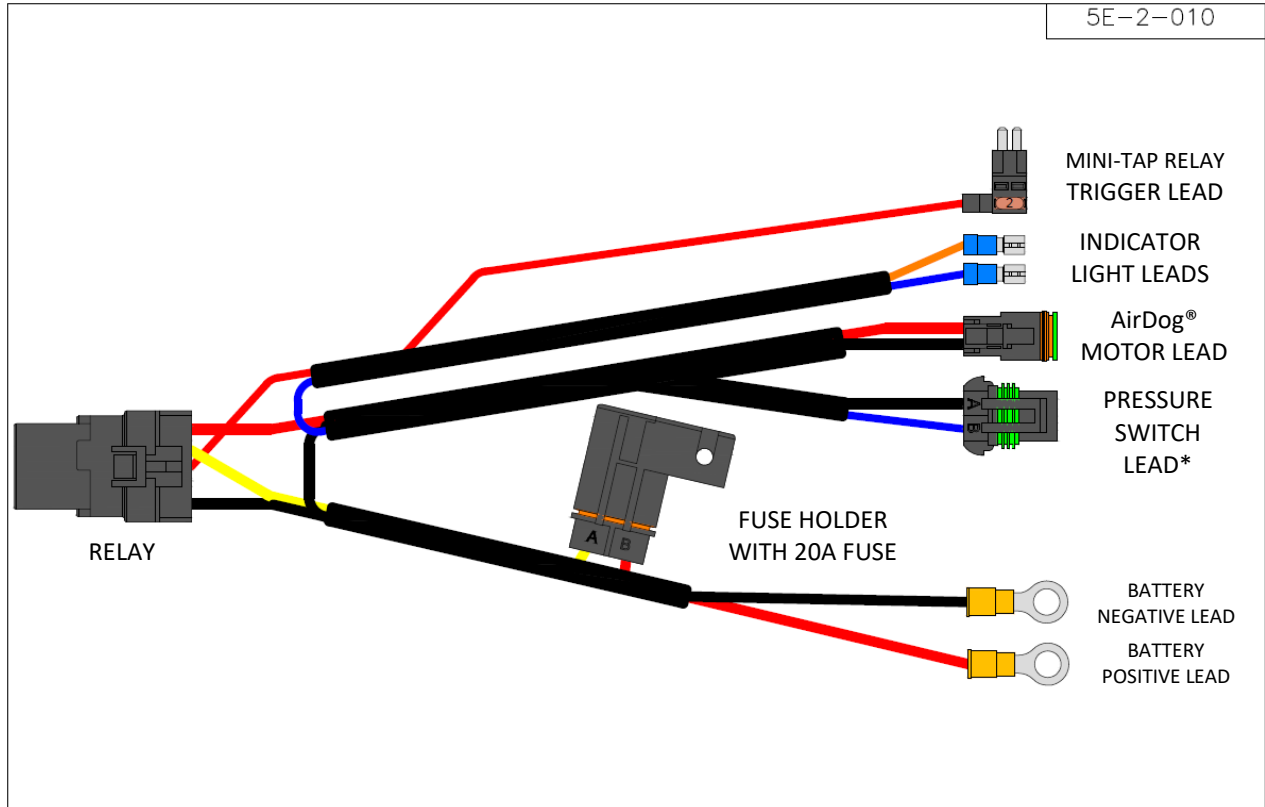


Figure 27

**CAUTION:** If the **OPTIONAL** Low Pressure Indicator Light is not used, be sure to insulate the two (2) #10 Indicator Light connectors and pressure sensor lead to prevent accidental contact.

**\*The light kit is sold separately and is not included in this kit.**

### Secure the Relay and Fuse Holder to the Vehicle

- 7-1. Secure the relay and fuse holder to the vehicle. Be sure to rout the wires away from any moving parts. The relay is illustrated below in figure 28. The fuse holder mounting is the same concept.



Figure 28



## Connecting the AirDog® Relay Control

- 7-2. Remove the plastic housing (skirt) around the fuse box. On some models it may be necessary to remove the fender/cowl brace to allow access to the fuse box.
- 7-3. After accessing the fuse panel, use a test light or voltmeter to find a fuse terminal that is **HOT** only when the ignition is in the on position. Connect the 'Red' Relay Trigger wire with the mini fuse tap to that terminal, fuse spot #47 is suggested. Be sure to install the fuse that is removed back into the fuse tap we supply, once installed into the fuse box the fuse tap should have both fuse spots filled. **TBC Batt, Ign 1 or 2, Acc and HVAC are also commonly used to supply power.**



Figure 29



Figure 30

## Connecting the power supply leads

**NOTE:** 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.

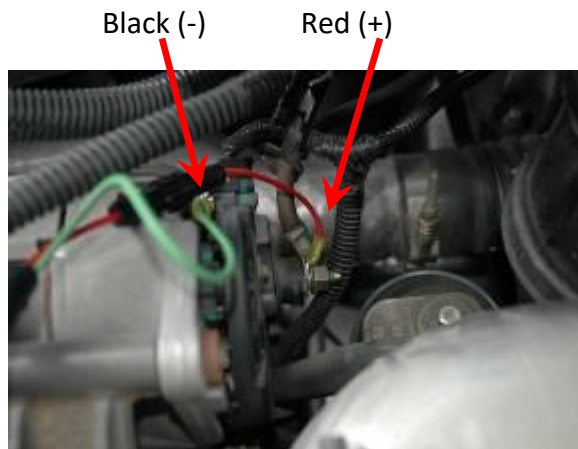


Figure 31



Figure 32

- 7-4A. Route the Red & Black power supply leads to the alternator. Connect the Black (-) lead to the alternator *Chassis Ground* connection. Connect the Red (+) lead to the alternator *Hot Lead* going to the battery.

## Connecting the power supply leads Continued

- 7-4B. 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.

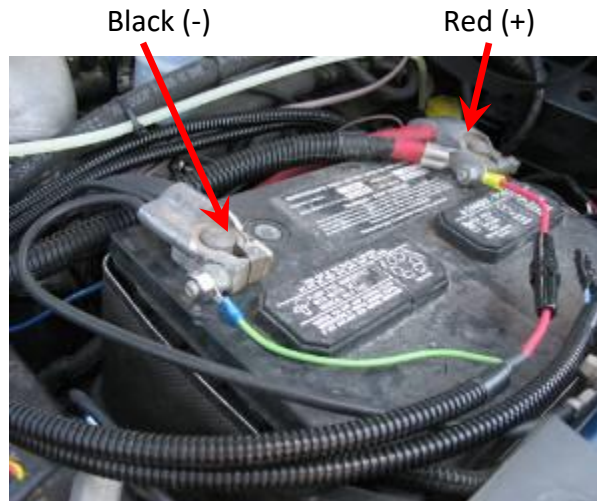


Figure 33

- 7-5. Route the wiring harness to the AirDog® and connect the 2 pin Deutsch connector to the corresponding connector on the AirDog®.



Figure 34

**NOTE:** If the Optional Indicator Light is not used, secure the pressure switch lead to the wiring harness with a plastic tie. Also, cover the pressure sensor lead to protect it, you may want to use it later.

## INITIAL START PROCEDURE

- 8-1. 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.
- 8-2. Rub diesel fuel or oil on the filter seals before installing to ensure a proper seal.
- 8-3. Turn the starter key to the on/run position.
- 8-4. 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. **NOTE: put a rag or shop towel over and around fitting to prevent splatter. Catch all spilled fuel and dispose of properly. Wear safety glasses.**
- 8-5. 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

**NOTE: 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.



### The Water Separator

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.

**CAUTION:** 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.

**CAUTION:** Dispose of waste fuel and used filters properly

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

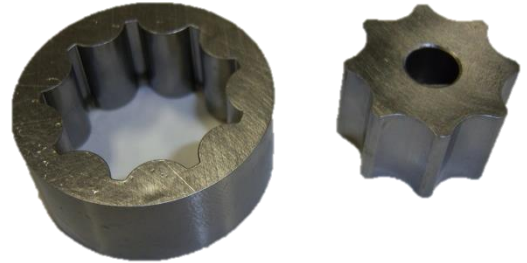
**STEP 1:** Remove the four (4) socket head cap screws that secure the Gerotor cap using a 3/16 allen wrench.



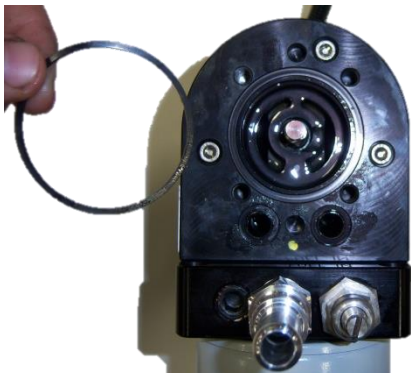
**STEP 2:** Carefully remove the O-rings you will need to reuse them.



**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.



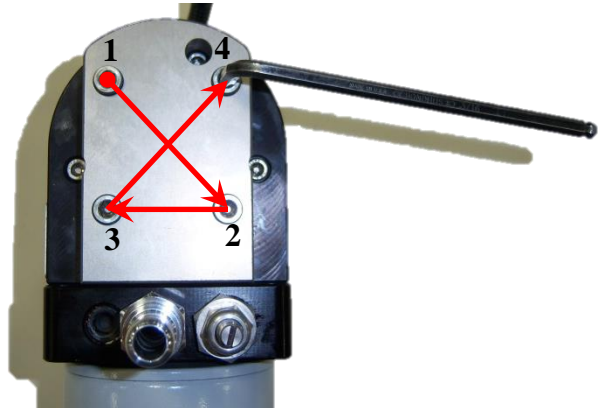
**STEP 6:** Align and install the outer gear and O-rings.



**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.

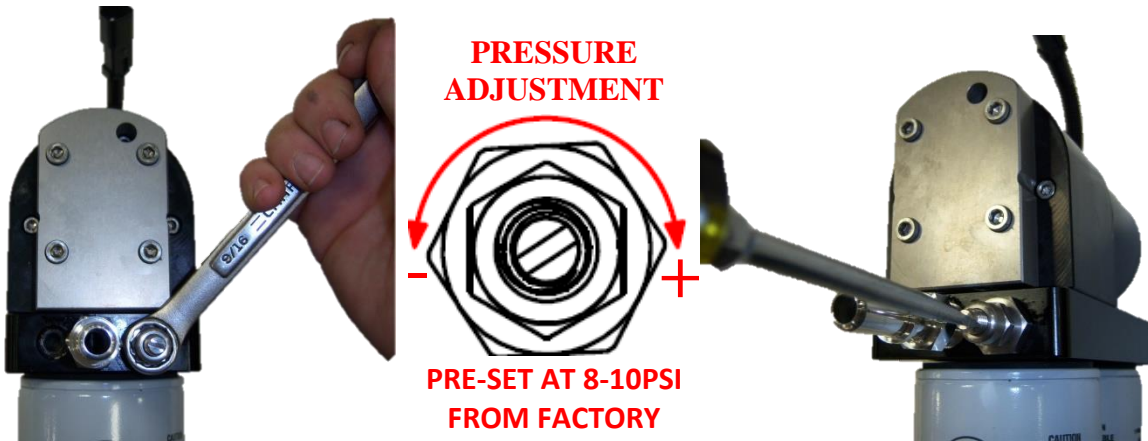
### AirDog®II-4G ADJUSTABLE FUEL PRESSURE REGULATOR

The AirDog®II and AirDog®II-4G rises to a new level of performance with an adjustable fuel pressure regulator machined from stainless steel with a double O-ring seal system and a soft seat piston.

#### PRESSURE ADJUSTMENT FOR THE DURAMAX DIESEL

Loosen the Jam Nut with a 9/16 wrench  
Re-torque after adjustment

Use a flathead screwdriver to adjust the  
pressure regulator



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!**

#### INSPECTING THE REGULATOR SEALS AND CHANGING THE REGULATOR SPRINGS



**Step 1.** Remove the regulator by turning the Adjustment Screw counter-clockwise using a 3/4 wrench.

**Step 2.** After removing the regulator assembly, remove the springs and conical plunger. Inspect the O-rings on the Valve Adjuster and Regulator plunger for any nicks or tears. Replace any damaged O-rings at this time. **New O-rings are included in the Customer Service O-ring Kit (901-05-0100) if replacements are required.**

**Step 3.** Re-install the Regulator Plunger and Regulator Springs the same order in which they were removed.

**Step 4.** Tighten the Adjustment Screw to proper torque. Use a pressure sensor to set the desired pressure per above.

### Installing a New Filter

1. Clean the area around the filter head and groove or seal area.  
**NOTE:** Lubricate the seal with oil. Do not use diesel fuel to lubricate the seal.
2. Install a new fuel filter on the filter head. Turn clock-wise until the filter contacts the seal. Tighten the filter one full turn or follow tightening instructions on filter after contact with the seal has been made.

**NOTE:** It is not necessary to pre-fill the fuel filter!

**CAUTION:** DO NOT OVER TIGHTEN, OVER TIGHTENING CAN DISTORT THREADS OR DAMAGE THE FILTER SEAL.

3. **To prime the filter**, turn the ignition switch to the on position. Start the engine.

### Water Separator

With the engine turned off, pinch off the suction line. Open valve on the bottom of the water separator. Drain into a suitable container until all water has been removed. Close valve. Remove the pinch in the suction.

**DRAINING:** The water separator should be serviced once a month or when severe water in fuel conditions require.

**NOTE:** Collect all spilled fuel and dispose of in accordance with federal, state and local regulations.

**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 PRODUCE 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 injury 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.