

#18



DF-100-5G

DF-165-5G

PATENT PROTECTED:

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

1992-2000 DIESEL INSTALLATION INSTRUCTIONS

**PLEASE READ AND CHECK CONTENTS
BEFORE INSTALLATION**



**PUREFLOW AIRDOG
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TABLE OF CONTENTS

TITLE	PAGE
INTRODUCTION	2
SAFETY GUIDELINES	3
PRE-INSTALLATION CHECKS	4
PARTS LIST	5
QUICK CONNECT FITTING OVERVIEW	6
QUICK CONNECT FITTING ILLUSTRATION	7
PUMP TO FRAME INSTALLATION	8
PUMP CRADLE BRACKET INSTALLATION	9
PUMP TO FRAME INSTALLATION	10
FUEL LINE ASSEMBLY OVERVIEW	12
ENGINE LINE INSTALLATION	13
RETURN LINE INSTALLATION	15
INLET LINE INSTALLATION	16
WIRING INSTALLATION	17
INITIAL STARTING PROCEDURE	20
FILTER SERVICE	21
SERVICING THE PUMP GEROTOR	22
ADJUSTING FUEL PRESSURE	23
WARRANTY	24

INTRODUCTION

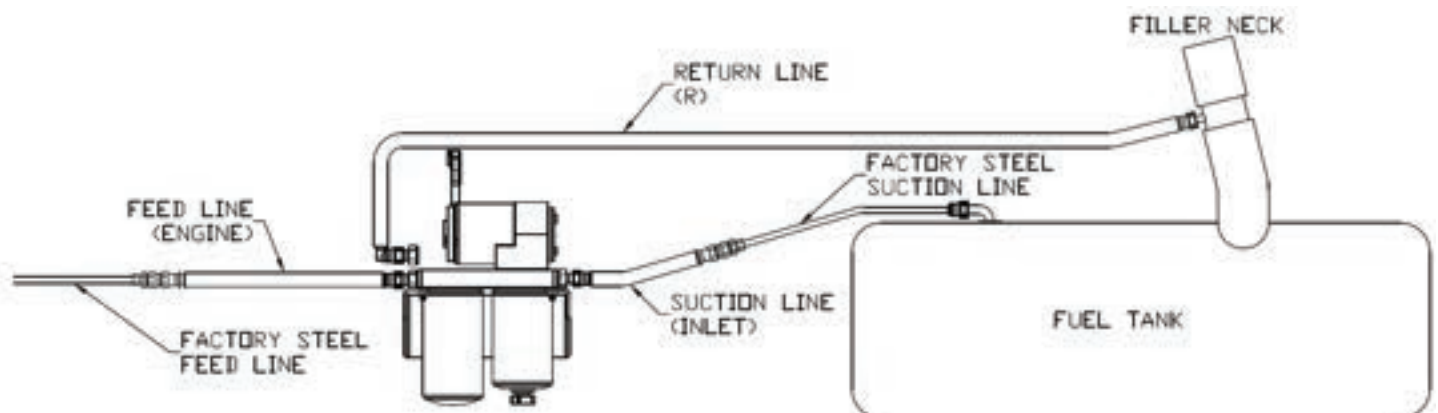
Thank you for choosing AirDog® for your truck fueling needs!

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 8-10psi. If a different pressure is desired, go to page 23 for instructions on how to adjust the pressure. **WARNING: RUNNING THE PUMP ABOVE 75PSI FOR THE DF-100 AND DF-165 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® draws fuel from the tank from the factory suction line on the frame rail. 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 filler neck return tee.



SAFETY GUIDELINES

IMPORTANT!

PLEASE READ THIS INSTALLATION MANUAL CAREFULLY

It contains important information, instructions, and necessary operating procedures. The continual observance of the operating procedures will help extend the life of the fuel system.



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.



PRE-INSTALLATION CHECKS



WARNING: SUFFOCATION HAZARD! Immediately discard any plastic bags and packing materials to eliminate **CHOKING HAZARDS TO CHILDREN AND ANIMALS.**

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!



WARNING

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



WARNING

Please use proper supports when working beneath an elevated vehicle



CAUTION

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



WARNING

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



CAUTION

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



CAUTION

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.



CAUTION

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.

PARTS LIST

QTY	DESCRIPTION	PART NUMBER	IMAGE
1	AirDog® II-5G	DF-100 OR DF-165	
1	AirDog® Cradle Bracket	001-3C-0004	
1	Frame Bracket Set	010-3C-0001 010-3C-0002	
1	Mounting Bracket Hardware	901-61-0102-PM-C	
1	Spacer Block	010-3C-0003-A-P	
1	Wiring Harness	5E-2-010-HD	
1	2" Filler Neck Tee with Clamps	001-4A-1-0200	
1	14ft of Fuel Line	HS14	
3	1/2" Straight Hose Quick Connect Fitting	FQC12S	
1	3/8" 90deg Hose Quick Connect Fitting	FQC3890	
2	1/2" Male Quick Connect x 3/4-16 UNF ORB	08J2044-3/4UNF	
1	3/8" Male SAE J2044 Quick Connect x 7/16 ORB	06J2044716UNF	
2	-8 Swivel to 1/2" Push Lock	4A-1-09-08-08-B	
2	3/8" Compression x 3/8" NPT Male	4A-1-07-06-06-B	
2	3/8 NPT Female x -8 JIC	4A-2-02-06-08-B	
1	Zip/Cable Tie Bundle	5H-2-1-B	
1	Customer Service O-ring Kit	901-05-0500	

WHY WE USE QUICK CONNECT FITTINGS

Almost every modern vehicle on the road uses what are called quick connect fittings for their fuel system. These are standardized using J2044 SAE specifications. We use these fittings to make the installation of our fuel systems as simple and as least invasive as possible. This allows for a simple/clean installation of our products.

HOW THE CONNECTIONS WORK

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.



ILLUSTRATION OF QUICK CONNECT COMPONENTS

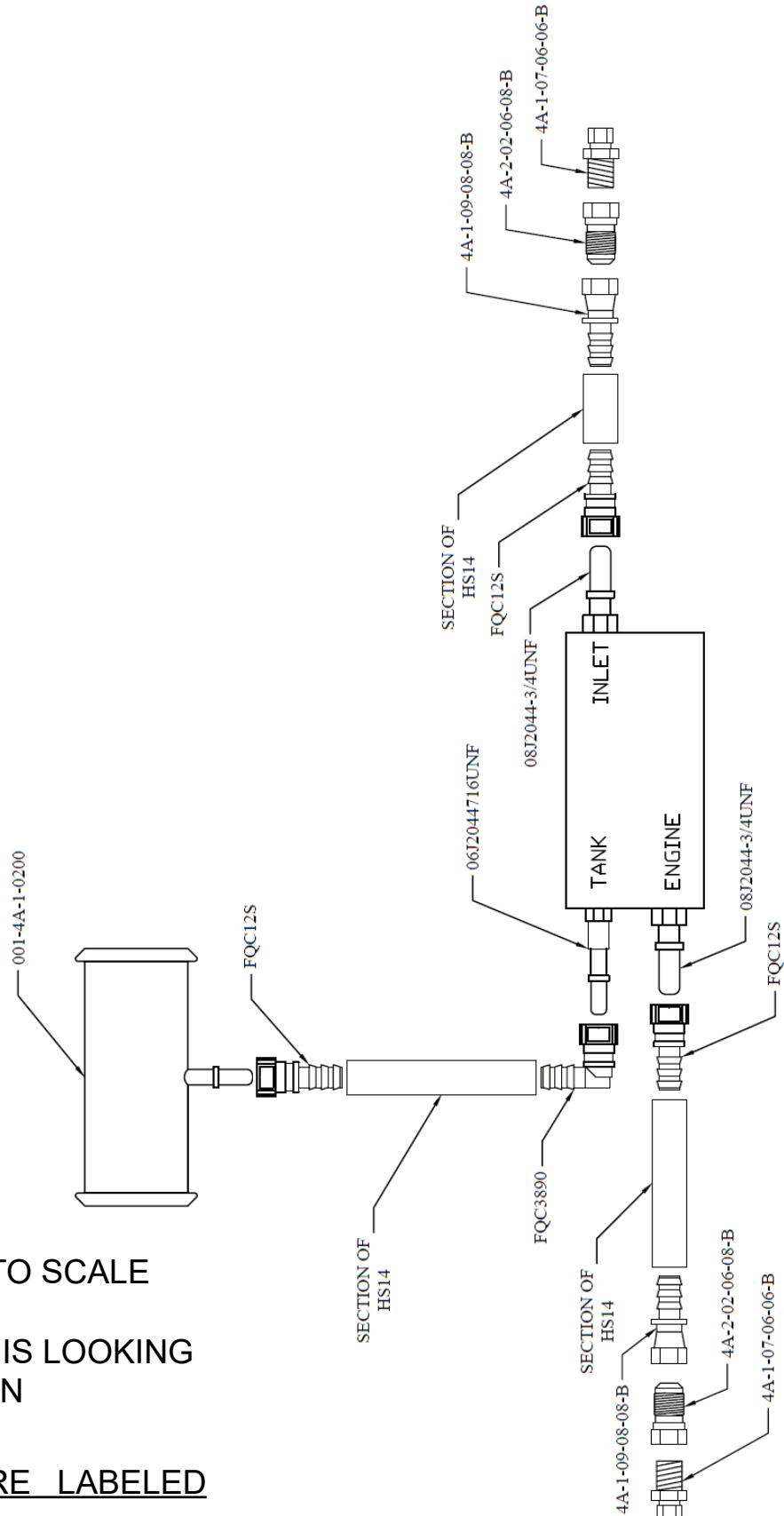


IMAGE NOT TO SCALE

VIEW OF PUMP IS LOOKING DOWN

THE PORTS ARE LABELED

INSTALLING THE PUMP FITTINGS

TOOLS NEEDED:

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

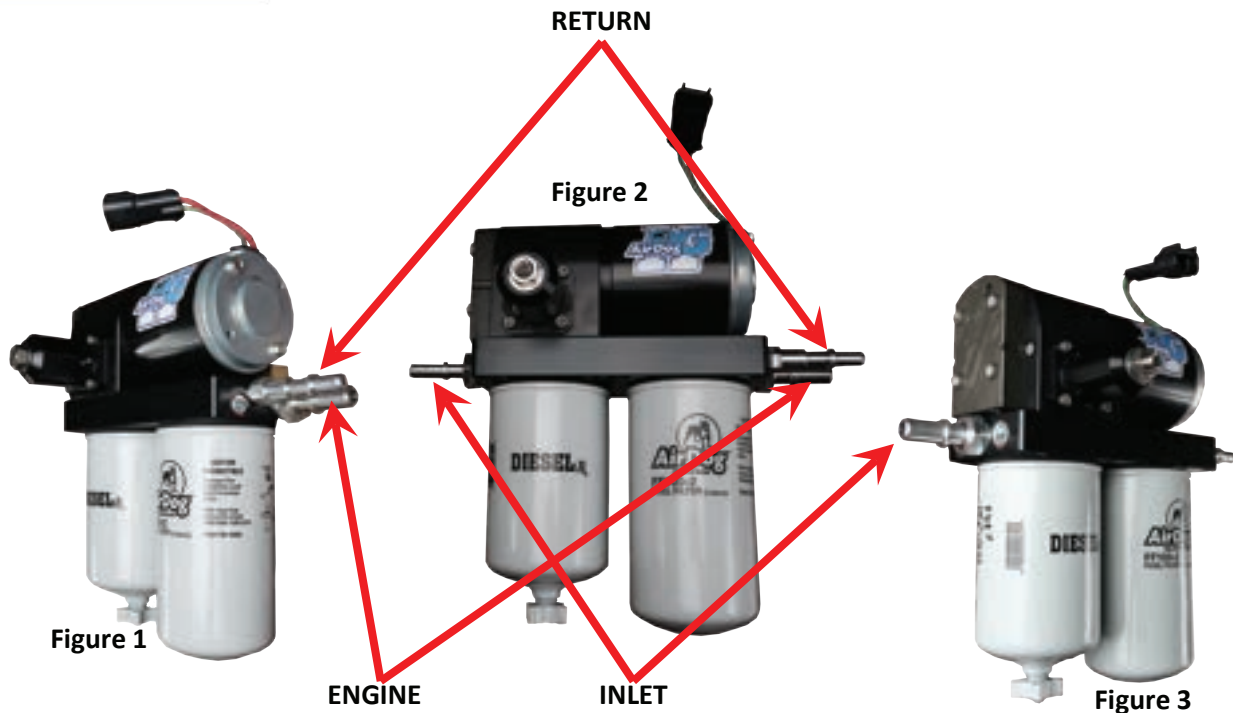
PARTS NEEDED:

- (2) 08J2044-3/4UNF Fittings
- (1) 06J2044716UNF Fitting

- 1-1. 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.
- 1-2. 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!



INSTALLING THE PUMP ON THE BRACKET

TOOLS NEEDED:

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

PARTS NEEDED:

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

- 2-1. 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 do recommend mounting the system on the inside of the frame if possible.

- 2-2. Using the above listed hardware, mount the AirDog to the cradle bracket in the desired orientation using a 7/16 socket and 3/16 Allen wrench.

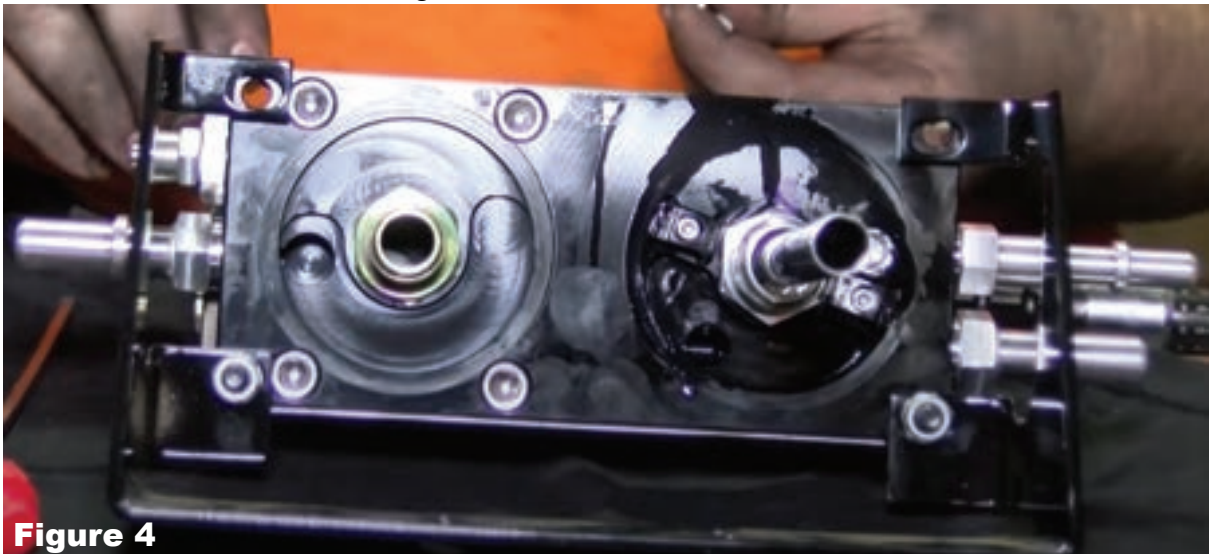


Figure 4



Figure 5

INSTALLING THE PUMP ON THE FRAME

TOOLS NEEDED:

- 3/16 Allen
- 1/2 Socket or Wrench
- 9/16 Socket or Wrench x2

PARTS NEEDED:

- (4) 5/16-18 x 3.0" Flat Socket Head Cap Screws
 - (4) 5/16" Lock Washers
 - (4) 5/16-18 Nuts
 - (3) 3/8-16 x 4" Hex Head Cap Screw
 - (3) 3/8 Lock Washers
 - (3) 3/8-16 Nuts
 - (1) 010-3C-0001 Front Frame Sandwich Plate (Multiple Holes)
 - (1) 010-3C-0002 Back Frame Sandwich Plate
 - (1) 010-3C-0003-A-P Spacer Block
- 3-1. Mock up the Front Frame Sandwich Plate (Multiple Holes) (010-3C-0001) on the frame and hold the pump assembly up to it. 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.



Figure 6

THE PUMP IN THE PHOTO IS A 5G, BUT THE CONCEPT IS THE SAME

INSTALLING THE PUMP ON THE FRAME CONTINUED

- 3-2. 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 3 using the four 5/16 bolts, lock washers, and nuts included in the mounting bracket hardware kit (figure 7). Using a 3/16" Allen and a 1/2" wrench, properly torque all fasteners!

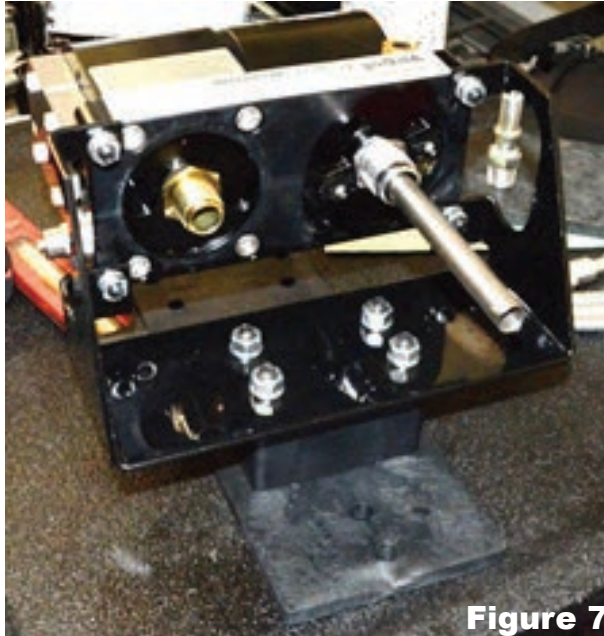


Figure 7

- 3-3. Clamp the frame between the AirDog® bracket assembly and the backing plate using the 3/8" x 4" bolts, lock washers, and nuts included in the kit. Use two 9/16" wrenches to tighten.

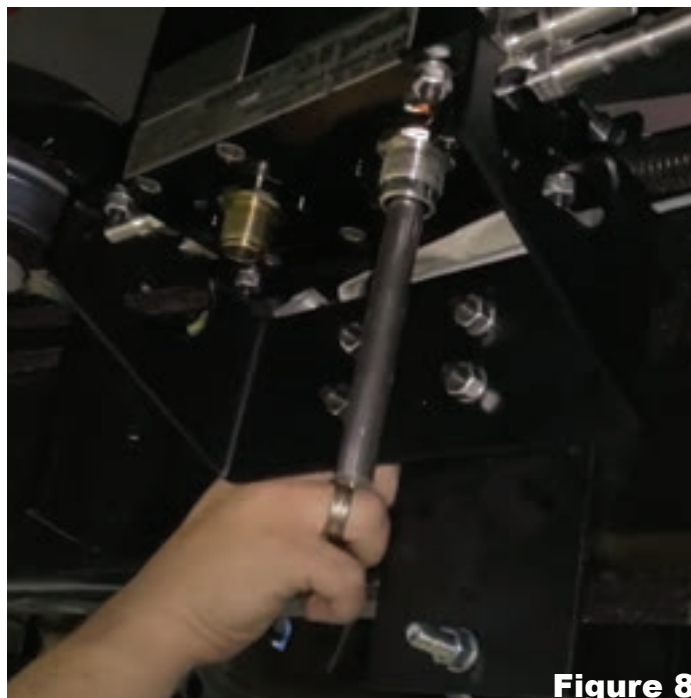


Figure 8

FUEL LINE ASSEMBLY OVERVIEW

This kit includes a length of fuel line and separate fuel line fittings to allow for a much cleaner looking installation. Assemble the fuel lines as you install them.

NOTICE

Do not pre-assemble the fuel lines, or the lengths will not be correct.

- 4-1. Take the fuel line end and lubricate the barbed end with clean motor oil (Figure 9) and press it into the fuel line (HS14) until all of the barbs are covered and the fuel line is against the shoulder (Figures 10 and 11). The fuel line end should look like Figure 9.



Figure 9



Figure 10



Figure 11

- 4-2. Now plug that fuel line with that fitting into the connection on either the AirDog® or the truck where the manual calls it out.
- 4-3. Run the fuel line along the frame away from any hot or moving parts such as exhaust or the driveshaft (Figure 12). 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 4-1.

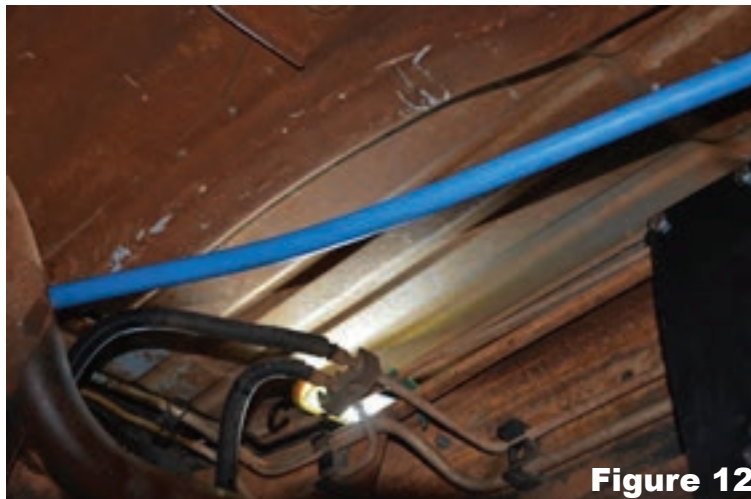


Figure 12

NOTICE

Hose clamps are not needed for these push-lock connectors. They may cause damage to the hose and cause fuel leaks.

ENGINE LINE INSTALLATION

TOOLS NEEDED:

- 7/8" Wrench
- 11/16" Wrench
- 5/8" Wrench
- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line

PARTS NEEDED:

- (1) 4A-1-09-08-08-B -8 Swivel to 1/2" Push Lock Fitting
- (1) 4A-1-07-06-06-B 3/8" Compression x 3/8" NPT Male
- (1) 4A-2-02-06-08-B 3/8 NPT Female x -8 JIC
- (1) FQC12S 1/2" Straight Quick Connect Fitting
- (1) HS14 14ft Fuel Line

5-1. Remove the factory electric fuel pump (Figure 13) mounted on the driver side frame rail.

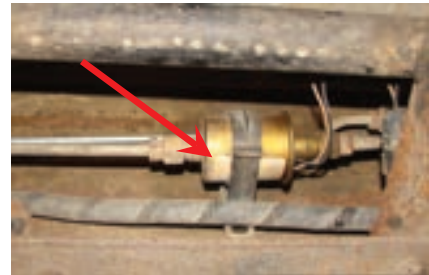


Figure 13

5-2. Assemble the compression fitting (P/N 4A-1-07-06-06-B) to the -8 JIC flare fitting (P/N 4A-2-02-06-08-B). Thread sealant is recommended. Refer to figure 14.



5-3. Install the straight -8 swivel to 1/2" Push Lock fitting (P/N 4A-1-09-08-08-B) on one end of the fuel line (HS14). To do so, lubricate the barbed end of the swivel fitting with clean motor oil and press it into an open end of the 14ft fuel line (HS14). Refer to figures 15 and 16. This process is similar to section 4.



Figure 15



Figure 14



Figure 16

5-4. Thread the swivel end that is now pressed into the fuel line on the fitting installed in step 5-3. Tighten the fitting till snug with a 7/8" wrench. Do not overtighten!



Figure 17



ENGINE LINE INSTALLATION CONTINUED

- 5-5. Run the fuel line along the frame as mentioned in step 4-3 to the “Engine” port in the AirDog®. Cut the fuel line to length and insert fuel line end FQC12S per step 4-1. Once the connector is installed, connect it to the male J2044 fitting in the “Engine” port in the AirDog®. A “click” will be heard once properly connected. The finished Fuel Supply Line should look similar to figure 19.



Figure 18



Figure 19

RETURN LINE INSTALLATION

TOOLS NEEDED:

- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line and the Filler Neck

PARTS NEEDED:

- (1) 001-4A-1-0200 2" Filler Neck Return Tee with Clamps
- (1) FQC3890 3/8" 90deg Quick Connect Fitting
- (1) FQC12S 1/2" Straight Quick Connect Fitting
- (1) HS14 14ft Fuel Line

- 6-1. Cut the filler tube as illustrated in figure 20. Loosely assemble clamps on each end of filler tube before the return tee (001-4A-1-0200) is pushed in. Install the filler return tee with the arrows pointing towards the fuel tank (figure 21). Failure to do so will cause fuel to spray up the filler tube and not down it. The finished product should look like figure 22.

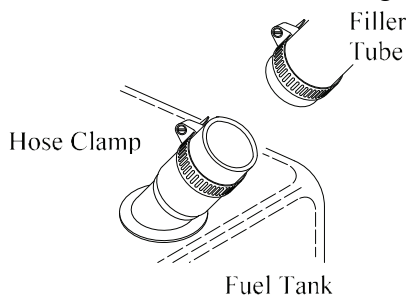


Figure 20



Figure 21



Figure 22

- 6-2. Assemble one end of the hose (Reference section 4) using Fuel line end FQC3890 and plug it into the "Return" J2044 fitting installed in the AirDog® (Figure 23). A "click" will be heard once the fitting is properly connected.

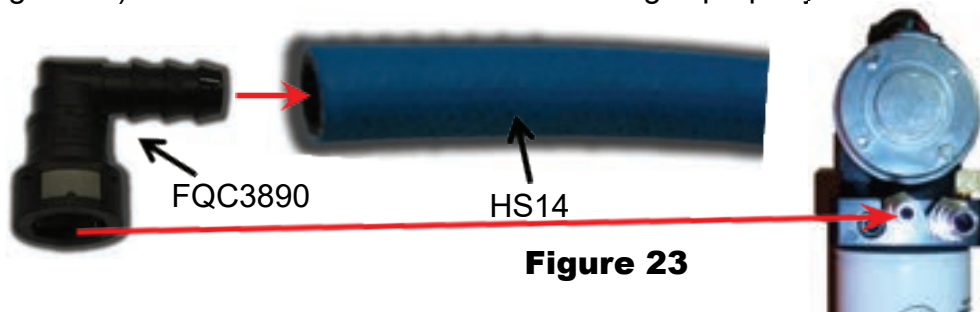


Figure 23

- 6-3. Run the fuel line along the frame as mentioned in step 4-3 to the filler neck tee. Cut the fuel line to length and insert fuel line end FQC12S per step 4-1. Once the connector is installed, connect it to the male J2044 fitting in the filler neck tee (001-4A-1-0200). A "click" will be heard once properly connected.



Figure 24

INLET LINE INSTALLATION

TOOLS NEEDED:

- 7/8" Wrench
- 11/16" Wrench
- 5/8" Wrench
- Clean Motor Oil or ATF
- Hose Cutters or a way to cut Fuel Line and the Filler Neck

PARTS NEEDED:

- (1) 4A-1-09-08-08-B -8 Swivel to 1/2" Push Lock Fitting
- (1) 4A-1-07-06-06-B 3/8" Compression x 3/8" NPT Male
- (1) 4A-2-02-06-08-B 3/8 NPT Female x -8 JIC
- (1) FQC12S 1/2" Straight Quick Connect Fitting
- (1) HS14 14ft Fuel Line

- 7-1. Cut the steel fuel line that comes from the tank. Assemble a 3/8" compression fitting to the 3/8" NPT female to male -8 JIC (same as step 5-2). Install the compression end of that fitting assembly to the fuel line.



Figure 25

- 7-2. Repeat steps 5-4 and 5-5 to install the swivel end on the fitting assembly previously installed in step 7-1. Again, do not overtighten the fitting!

- 7-3 Run the fuel line along the frame as mentioned in step 4-3 to the AirDog® "Inlet" port. Cut the fuel line to length and insert fuel line end FQC12S per step 4-1. Once the fuel line end is pressed in, connect it to the male J2044 fitting in the AirDog® "Inlet" port. A "click" will be heard once properly connected.

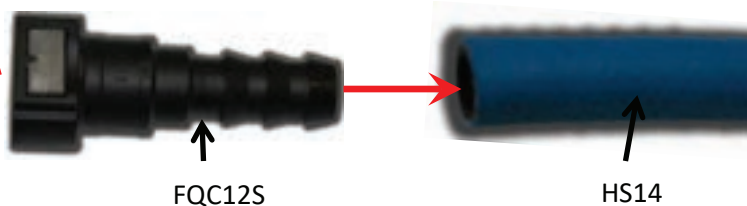


Figure 26

WIRING INSTALLATION

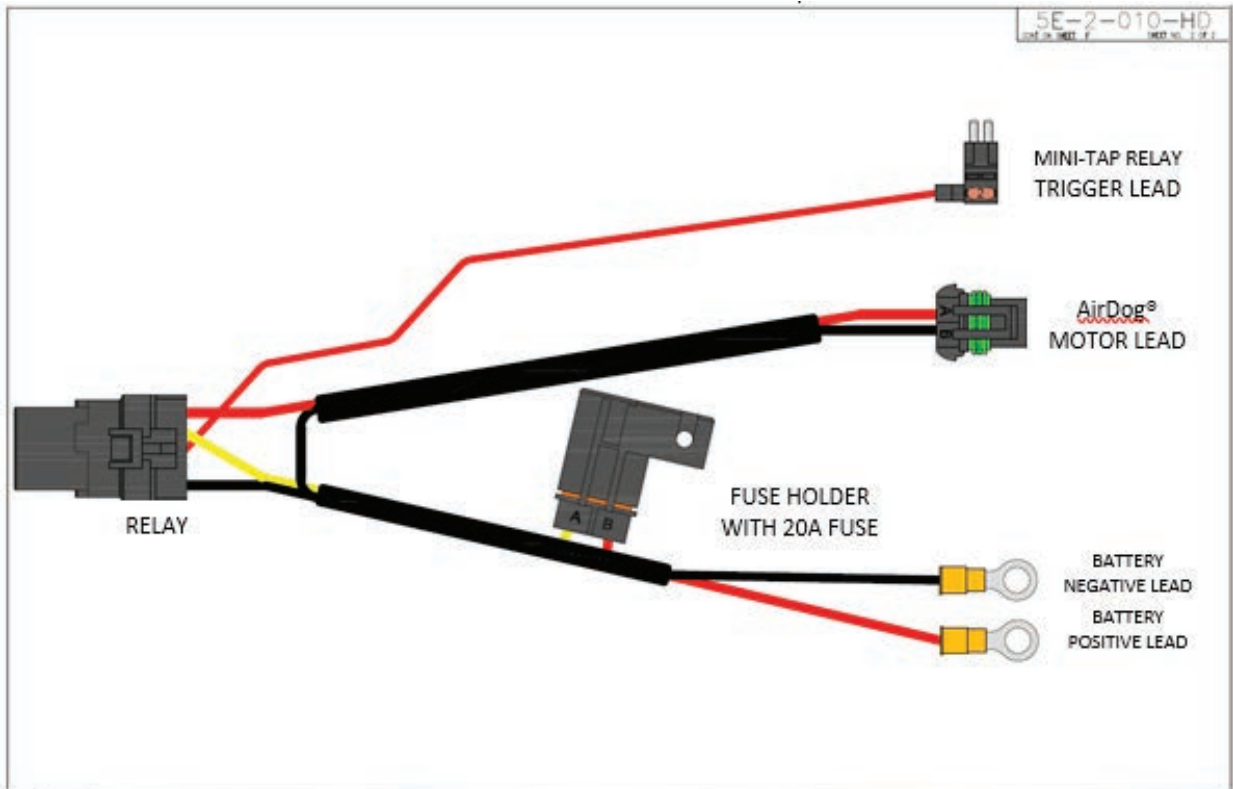


Figure 27

- 8-1. 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 28. The fuse holder mounting is the same concept.



Figure 28

WIRING INSTALLATION CONTINUED

- 8-2. Remove the plastic housing covering the fuse box. On some models it may be necessary to remove the fender/cowl brace to allow access to the fuse box.
- 8-3. 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/run position. Install the fuse that was removed to install the fuse tap into the open slot in the fuse tap before it is installed. Connect the Red Relay Trigger wire with the mini fuse tap to that terminal.



Figure 29



Figure 30

NOTICE

Connecting the power supply leads to the alternator instead of the battery will create a corrosion resistant connection.

- 8-4. Route the Red and 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.

Black (-)

Red (+)



Figure 31

WIRING INSTALLATION CONTINUED

- 8-4. 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.

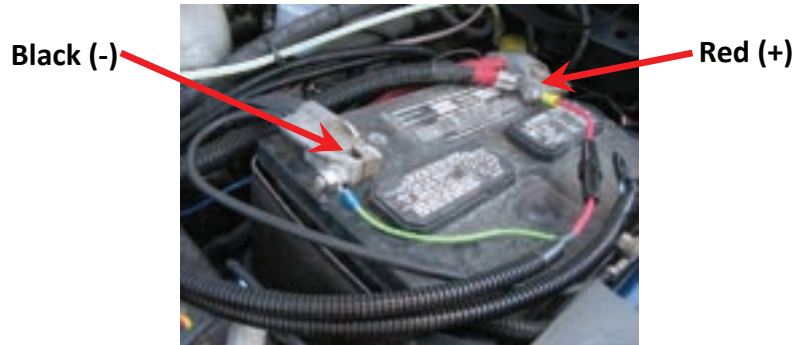


Figure 32

- 8-5. Route the wiring harness to the AirDog® and connect the 2 pin Metri-Pack connector to the corresponding connector on the AirDog®.

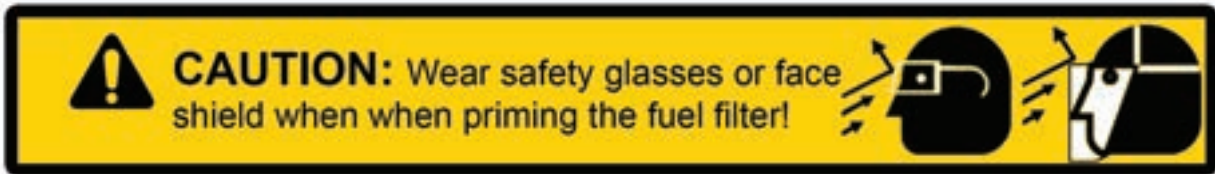


Figure 33

INITIAL STARTING PROCEDURE

The AirDog® is a self-priming system, however, to prevent potential damage to the system, it is recommended to fill the pre-filter with diesel fuel before initial startup.

- 9-1. Fill the water separator with clean diesel fuel.
- 9-2. Turn the starter key to the on/run position.
- 9-3. While the AirDog® is operating, bleed the air from the fuel line to the engine 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.

- 9-4. Start the 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 Pump Noise!

NOTE: Each AirDog® has been manufactured in a Quality Controlled process and fully tested for operation and performance before shipment. This is a smooth running system. However, if any fuel fitting on the vacuum side, between the fuel tank and the AirDog® or the pre-filter, has been left loose during the installation process, the system may suck air at an excessive rate and will be very noisy. To check for this problem, unscrew the pre-filter 3 or 4 full turns and activate the AirDog® by turning the ignition switch to on. If the AirDog® runs quietly, then excessive air from a loose fitting or leaking pre-filter seal is most likely the reason for the excessive noise. Correct as necessary.

- A. The seal groove in the pre-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 the 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.

NOTE: 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

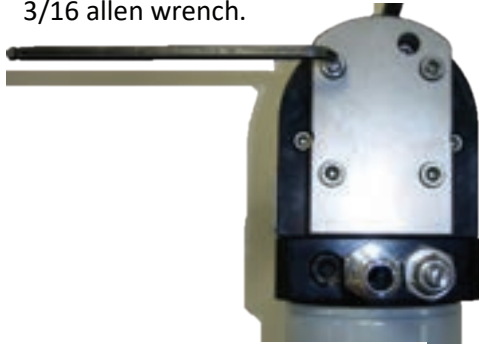
Remove the fuel filter by turning it counter clockwise. Do not pre-fill the fuel filter with fuel. The AirDog® will fill the filter and prime the system automatically. Follow the instructions on the filter for proper tightening procedures.

NOTE: Dispose of waste fuel and used filters properly to protect OUR environment!

SERVICING THE PUMP GEROTOR

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

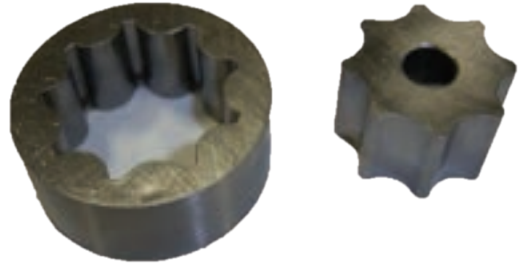
STEP 1: Remove the four (4) socket head cap screws that secure the Gerotor cap using a 3/16 allen wrench.



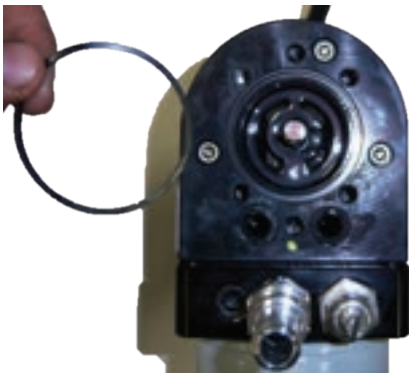
STEP 2: Carefully remove the O-rings you will need to reuse them.



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.



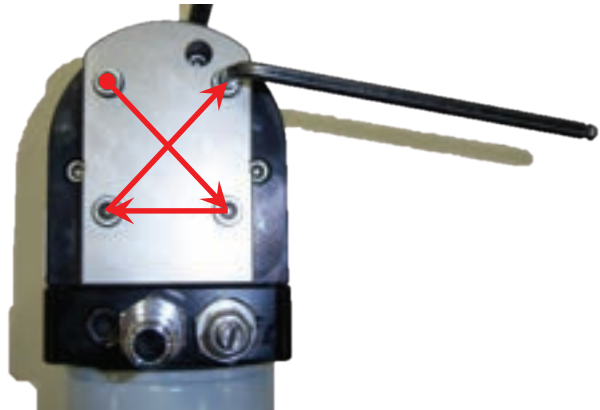
STEP 6: Align and install the outer gear and O-rings.



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.

ADJUSTING FUEL PRESSURE

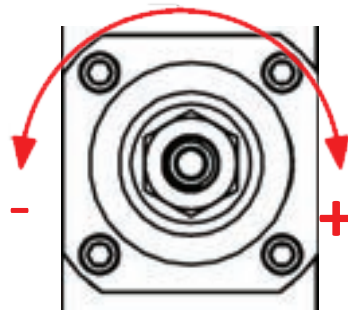
AirDog®II-5G ADJUSTABLE FUEL PRESSURE REGULATOR

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 6.5L



PRESSURE
ADJUSTMENT



PRE-SET AT 8-10 PSI
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.



WARRANTY

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 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.

WARRANTY CONTINUED

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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