



FP-100 & FP-150
INSTALLATION MANUAL

**CUMMINS POWERED
DODGE TRUCKS**

Model Year 2005 TO PRESENT

*High Performance Fuel System
For the 5.9L & 6.7L Engine*

With New Quick Connect Components!

PLEASE READ THE INSTRUCTIONS THOROUGHLY
BEFORE BEGINNING INSTALLATION

PureFlow AirDog



705 MAUSOLEUM ROAD
SHELBYVILLE, IN 46176

1-877-421-3187

www.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!

Approved for Sale and Use in California!



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® Fuel Air Separation system is a Premium lift pump and filtration system for the Dodge Cummins diesel engine. A complete installation kit is included.

The AirDog® delivers clean fuel to the engine free of virtually all air/vapor and at a positive flow. Thus, allowing the engine “test cell” performance and efficiency, while in “real world” use.

The AirDog® FP-100 is recommended for stock and slightly modified 5.9 L & 6.7L Cummins Diesels.

The AirDog® FP-150 is recommended for highly modified 5.9L & 6.7L Cummins Diesels.

PureFlow products are manufactured with a personal touch,
unsurpassed attention to detail and
the most stringent quality control!

TYPICAL INSTALLATION LAYOUT

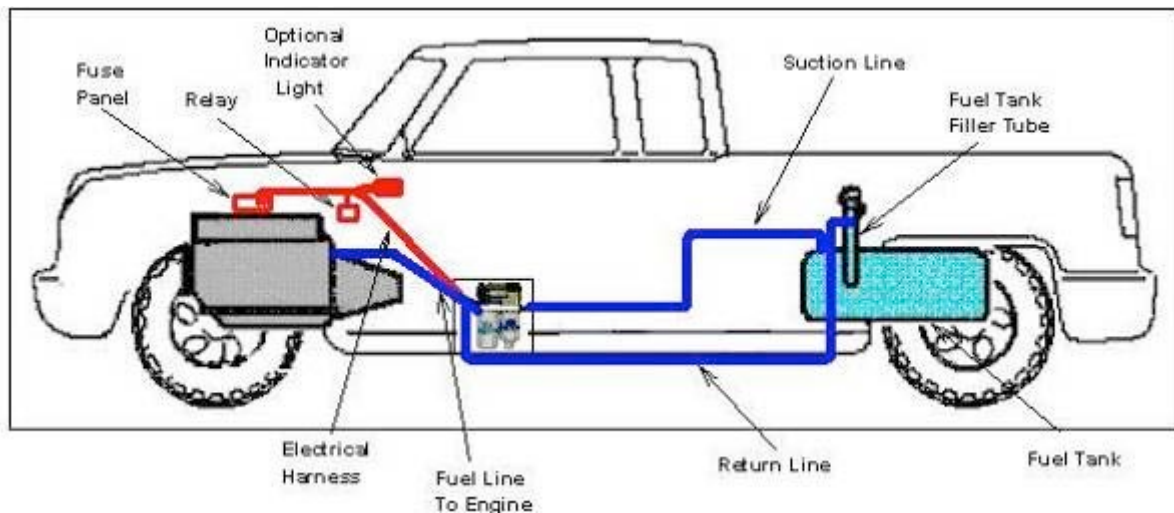


Figure 1

The AirDog® draws fuel from the fuel tank at a constant flow, 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 by the AirDog® 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 are two different OE style quick connection systems. These systems work together to allow for a quick, clean, and professional install.

Jiffy Tite Quick Connect System

Jiffy Tite's patented quick connect system is used for the connections at the AirDog®. The images below show the flared formation of the Jiffy Tite System. Simply insert the male end form into the fitting and push firmly until you hear it "click" into place. To disconnect the system, use a Jiffy Tite tool similar to the image below. This tool can be purchased at your local auto parts store. Insert the tool into the connection and turn it ¼ turn to open the retaining spring. While the retaining spring is open, firmly pull the connection apart.



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 blue tabs on the female connector while you firmly pull the assembly apart.



TABLE OF CONTENTS

Section 1.....Table of Contents

Section 2.....Installation & Safety Guidelines

Section 3.....Parts List

INSTALLATION PROCEDURES

Section 4.....AirDog® & Mounting Brackets

Fuel Lines

Section 5 A.....AirDog® To 5.9 CP-3

Section 5 B.....AirDog® To 6.7L CP-3

Section 5 C.....Fuel Return to Tank

Section 5 D.....In-Tank Pump Bypass Suction Tube

Section 5 E.....In-Tank Fuel Pump

Electrical Harness

Section 6.....Electrical Harness

Section 7.....Initial Startup Procedures

Maintenance

Section 8.....Filter Service Recommendations

Section 9.....Pressure Regulator Changes

Section 10.....Cleaning the Gerotor Assembly

Section 2**Installation & Safety Guidelines****AirDog®****MODEL FP-100 & FP-150**

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 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® 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® Parts List

QTY	DESCRIPTION	Part Number	IMAGE
1	Installation Manual	201-1-0105	
1	<i>AirDog®</i>	FP-100 Or FP-150	
1	AirDog® Mounting Bracket	001-3C-0004	
1	Mounting Hardware Kit,	901-61-0102-PM	
1	Frame Bracket	010-3C-0002PC 010-3C-0001PC	
1	Wiring Harness	5E-2-014	
1	Return Fuel Filler Tube (with 2 Clamps)	001-4A-0150	
1	Bundle of Plastic Ties	5H-2-1-06/12	
1	High Flow Suction Tube	WAP108	
1	Grommet	5J-1-1-04-0001	
1	Spacer	010-3C-0003-A-P	
1	Suction Hose Assembly	WAP110-8-8	
1	Return Hose Assembly	WAP107-8-8	
1	Pressure Hose Assembly	WAP110-8-8-90	
1	12mm X ½" male SAE J2044 Fitting	WAP102	
1	Seal Washer (Assembles on WAP 102)	1P-5-DS	
1	Customer Service Oring Replacement Kit	901-05-0101	
3	Push Lock Hose Splice	001-4A-1-0026	


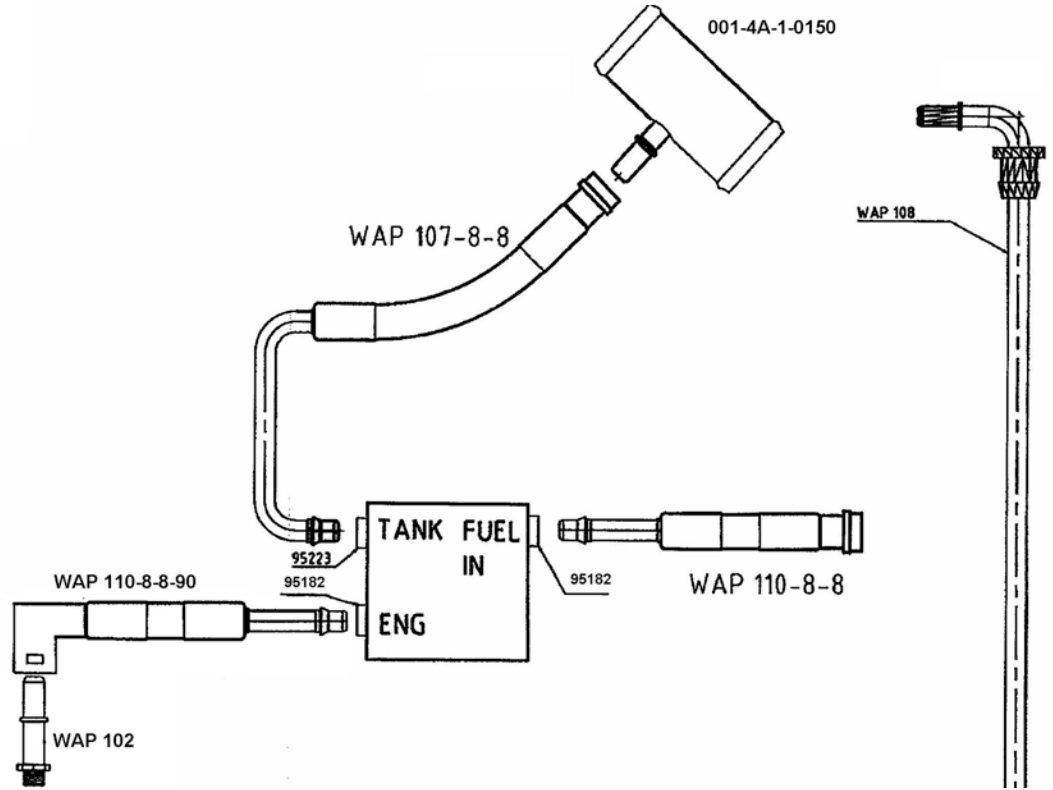
2	1/2" Female Jiffy Tite Quick Connect x 3/8" NPT	95182	
---	-------------------------------------------------	-------	-------------------------------------------------------------------------------------

ILLUSTRATION OF QUICK CONNECT COMPONENTS



Installing the AirDog® & Mounting Brackets on the Truck's Frame!



Figure 2



Figure 3

- 4-1. Assemble the AirDog® mounting bracket to the frame bracket.



Figure 4

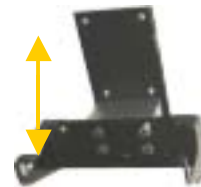


Figure 5

- 4-2. Use the spacer block as necessary to clear lines and wiring harnesses on the frame. Adjust the assembly up or down on the frame bracket as necessary for clearance.

- 4-3. Install a 3/8" NPT x 1/2" Jiffy Tite female quick connect (95182) into the "ENGINE" and "FUEL IN" ports in the AirDog®.



Figure 6

- 4-4. Attach the AirDog® to the frame bracket assembly.



Figure 7

Section 4

AirDog® & Mounting Brackets

Installing the AirDog® & Mounting Brackets on the Truck's Frame, cont'd!

NOTE: The AirDog® can be mounted on either the inside or the outside of the frame, as space or personal choice dictates.



Figure 8

**Mount
The AirDog®
Outside
The
Frame**



Figure 9

Or

**Inside
The
Frame**



Figure 10



Figure 11

For this installation, the AirDog® is mounted inside the frame!

- 4-5. Clamp the frame between the AirDog® bracket assembly and the backing plate using the bolts, lock washers, and nuts included in the kit.



Figure 12

- 4-6. Position the AirDog® on the frame as necessary for clearance.

NOTE: Be sure to mount the AirDog® so the 'FUEL IN' port is directed toward the rear of the vehicle.



Figure 13A

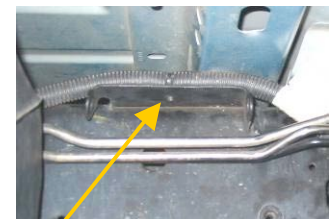


Figure 13B

NOTE: Some pickup model frame rails have a bracket that is used to support the frame during the manufacturing process. If this bracket is on your frame rail and obstructs the proper positioning of the AirDog® mounting bracket, you may remove part or all of it, as needed. Be very careful not to damage the frame flange!

Fuel Supply Line from the AirDog[®] to the CP-3 For the 5.9L Cummins Engine

The *AirDog*[®] fuel filter has a 2 micron media. When installing the AirDog[®] fuel system it is recommended to bypass the factory filter canister.

5A-1. Remove the “banjo bolt” and the original factory fuel supply line at the fuel inlet port of the CP-3 injector pump (Ref. Figure 14).

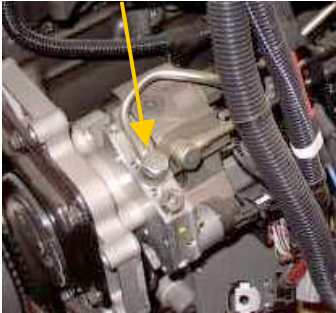


Figure 14

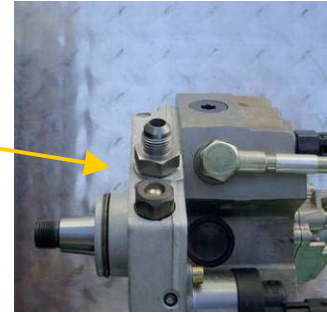


Figure 15

5A-2. Install the 12mm x 1/2” male SAE J2044 (WAP 102) fitting with the seal washer supplied into the inlet port of the CP-3 (Ref. Figure 15) vacated by the original banjo fitting. Do not over tighten the fitting. It may crack or break.

5A-3 Insert the Jiffy Tite male quick connect end (see figure 16) of the “pressure hose assembly” into the female quick connect fitting previously installed in the port marked “ENGINE”. You will hear a “click” when it connects.



Figure 16

5A-4. Connect the other end of the “pressure hose assembly” to the inlet fitting installed in step 5A-2. It will “click” when properly connected.

5A-5 Any excess fuel hose can be addressed by routing the hose in a fashion to take up the extra length, or a section of the hose can be removed. Push lock splices have been included if you choose to remove the excess hose.

Section 5-A**Fuel Lines**

- 5A-6. It is advised to remove the factory supply lines between the tank and the filter canister. Also remove the factory supply line between the filter canister and the injection pump. Then plug the ports on the filter canister. This will prevent fuel spillage.



Figure 17

NOTE: Be sure to keep the ORIGINAL ENGINE RETURN LINE connected as it is from the factory! In many cases the return runs thru the flange of the filter canister.

Section 5 B

**Fuel Supply Line from the AirDog[®] to the CP-3
For the 6.7L Cummins Engine**

The *AirDog[®]* fuel filter has a 2 micron media. When installing the AirDog[®] fuel system it is recommended to bypass the factory filter canister.

- 5B-1. Remove the Quick Connect fitting and the original factory fuel supply line at the fuel inlet port of the CP-3 high pressure pump.

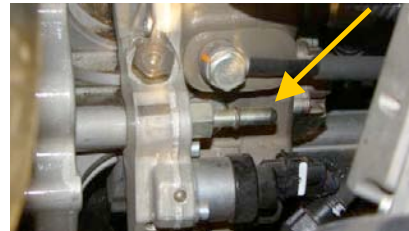


Figure 18

- 5B-2. Install the WAP 102 fitting with the Seal washer supplied into the inlet port of the CP-3 vacated by the original Quick Connect fitting. Firmly tighten the WAP 102 fitting.



Figure 19

Caution: Do not over torque the WAP 102 fitting, *IT COULD BREAK!*

- 5B-3. Insert the Jiffy Tite male quick connect end (see figure 20) of the “pressure hose assembly” into the female quick connect fitting previously installed in the port marked “ENGINE”. You will hear a “click” when properly connected.



Figure 20

- 5B-4. Connect the other end of the “pressure hose assembly” to the inlet fitting installed in step 5B-2. It too will “click” when properly connected

- 5A-5 Any excess fuel hose can be addressed by routing the hose in a fashion to take up the extra length, or a section of the hose can be removed. Push lock splices have been included if you choose to remove the excess hose.

- 5A-6. It is advised to remove the factory supply lines between the tank and the filter canister. Also remove the factory supply line between the filter canister and the injection pump. Then plug the ports on the filter canister. This will prevent fuel spillage.



Figure 21

NOTE: Be sure to keep the ORIGINAL ENGINE RETURN LINE connected as it is from the factory! In many cases the return runs thru the flange of the filter canister.

Fuel Return Line from the AirDog® to the Tank

Installing the fuel 'Return to Tank' assembly in Filler Tube

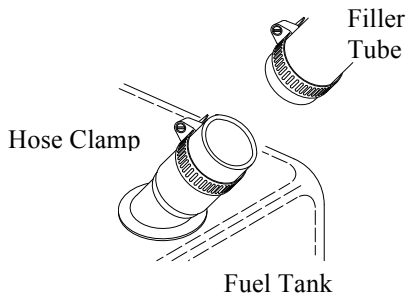


Figure 22

- 5C-1. Cut filler tube as illustrated, removing 1½ inches. Loosen and remove clamps on each end of filler tube.



Figure 23



Figure 24

- 5C-2. Insert “Return Fuel Filler Tube” assembly in filler tube. **INSTALL THE FILLER TUBE WITH ARROWS POINTING TOWARD THE TANK!! SEE FIG 23** Properly tighten clamps.
- 5C-3. Insert the Jiffy Tite male quick connect end(see Figure 24) of the “Return Hose Assembly” into the pre installed female Jiffy Tite fitting in the port marked “Tank”. The fitting will “click” when properly installed.
- 5C-4. Attach the other end of the “Return Hose Assembly” onto the male end form of the “Return Fuel Filler Tube” installed in step 5C-2. A “click” will be heard when the fitting is properly connected.
- 5C-5. Any excess fuel hose can be addressed by routing the hose in a fashion to take up the extra length, or a section of the hose can be removed. Push lock splices have been included if you choose to remove the excess hose.

INSTALLING THE IN-TANK FUEL PUMP BYPASS SUCTION TUBE!

NOTE: The AirDog® installation kit includes a Suction Tube to by pass the “in-tank fuel pump on the 2005 - Present Dodge.

To install the suction tube it is necessary to either drop the fuel tank or to lift the truck bed.

NOTE: Should you choose to drop the fuel tank, support the tank as it is when it is installed on the truck. If you let it rest flat on the floor, the tank may squash out and the suction tube will be too short after the tank is re-installed in the truck. The suction tube, being cut too short may suck air as the fuel drops below ¼ tank level.

NOTE: Should you choose to pull the pickup bed to access the tank. Be sure to disconnect the tail light wires, fuel tank filler tube, and any other accessories or components that may be secured to the frame and bed.

When Dropping the Tank, Always Remember Safety First!



Figure 25



Figure 27



Figure 36

If you choose to remove the bed, properly support the truck bed to prevent serious injury or death!



Figure 28



Figure 29

INSTALLING THE HIGH FLOW SUCTION TUBE, Cont'd

NOTE: The fuel tank used for the pictures is an example only and may not be exactly the same as your tank.

IMPORTANT: Select a location for the suction tube that has adequate clearance below the bed. Also consider that under hard acceleration, fuel will migrate toward the back of the fuel tank.

5D-1. Remove the collection basket.



Figure 30



Figure 31

5D-2. Drill a 1-1/8" hole at the selected location in the fuel tank for the suction tube. Hold a container below the drill point to catch debris.



Figure 32



Figure 33

5D-3. Remove all burrs from the edge of the hole.



Figure 34



Figure 35

5D-4. Install the grommet in the new suction tube access hole.

INSTALLING THE HIGH FLOW SUCTION TUBE, Cont'd

5D-5. Measure and cut the suction tube to a length that will allow approximately 1/8" clearance off the bottom of the tank. It is suggested to form the end of the tube similar to Figure 36.

Figure 36



5D-6. Lubricate the bulkhead fitting with motor oil. Pressing firmly, insert the suction tube assembly into the grommet. Be sure the bulkhead fitting is completely seated in the grommet.



Figure 37



Figure 38

5D-8. Re-install the Collection basket.
Re-install the factory return line to the proper Port of the Collection basket before the tank is fully re-installed.

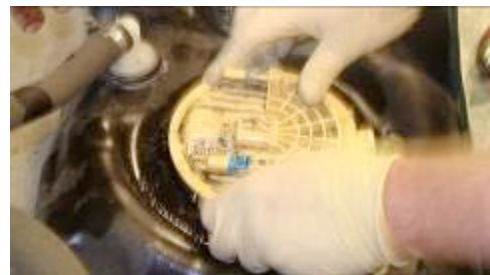


Figure 39

5D-9. Connect the end of the "Suction Hose Assembly" to the bulk head fitting while it is easily accessible. A "click" will be heard when it is properly installed.

5D-10. Insert the Jiffy Tite male quick connect end (see figure 40) of the "suction hose assembly" into the female quick connect fitting previously installed in the port marked "FUEL IN". You will hear a "click" when properly connected.

INSTALLING THE HIGH FLOW SUCTION TUBE, Cont'd



Figure 40

- 5D-11 Any excess fuel hose can be addressed by routing the hose in a fashion to take up the extra length, or a section of the hose can be removed. Push lock splices have been included if you choose to remove the excess hose
- 5D-12. If the fuel tank was dropped to install the suction tube, re-install the fuel tank.
If the truck bed was removed, reinstall the bed.

The *AirDog*® wiring harness features water proof Deutsch connectors, relay, and fuse holder. When properly installed, the *AirDog*® is controlled by the engine's ECM.

WIRING DIAGRAM (In Red)

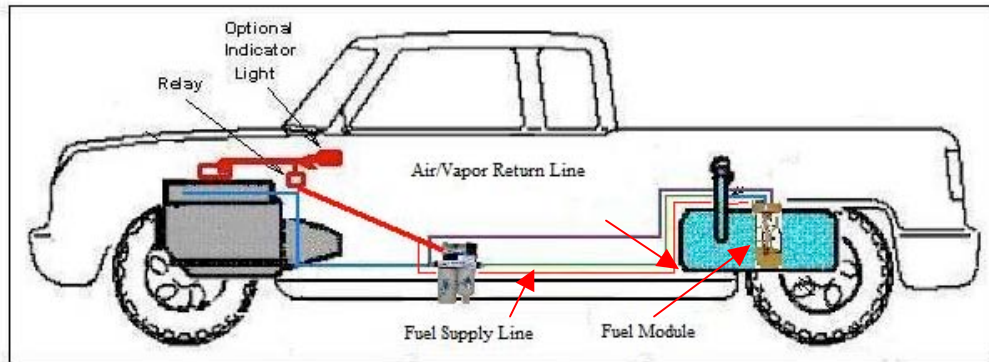


Figure 41

The *AirDog*® is activated by the ECM through a relay controlled wiring harness connecting directly to the original ECM Deutsch pump connector.

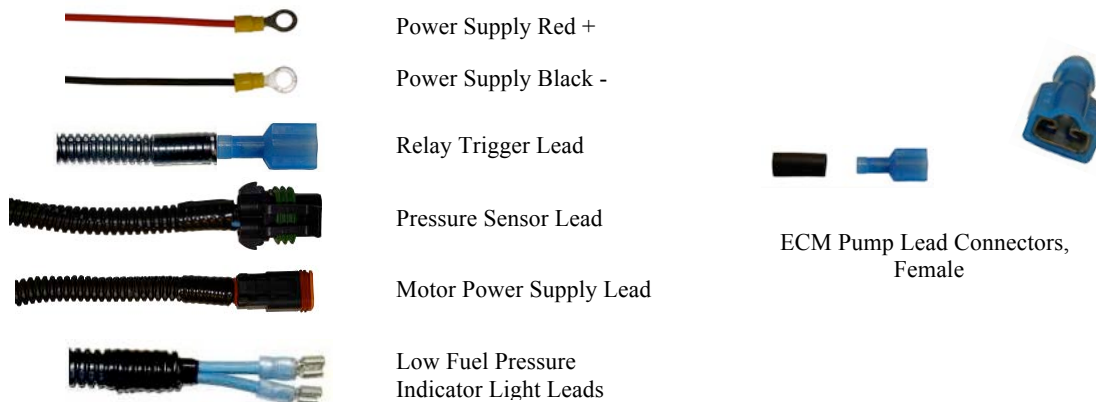


Figure 42

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

Securing the Relay and Fuse Holder to the Vehicle

6-1. Secure the relay and fuse holder to the vehicle.



Figure 43



Figure 44

Connecting the AirDog® Relay Control to the ECM

- 6-2. To connect the AirDog® relay trigger lead to the ECM fuel pump lead, locate the Orange w/Red Stripe (HOT) wire coming off of the Fuel Module (Fig. 45). The Orange w/Red Stripe wire will be the right hand wire coming out of the Fuel Module.



Figure 45

Figure 46
Orange w/Red Stripe ECM
fuel pump lead!



- 6-2. Cut the wire back far enough from the fuel module away from the fuel tank (Fig. 76) to make it easy to work with.

- 6-3. Crimp the female covered connector to the Original "In-Tank" fuel pump ECM lead



Figure 47

- 6-4. Route and connect the AirDog® relay lead (Male Connector) to the ECM pump lead.



Figure 48

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.

- 6-5A. 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.

Black (-) Red (+)

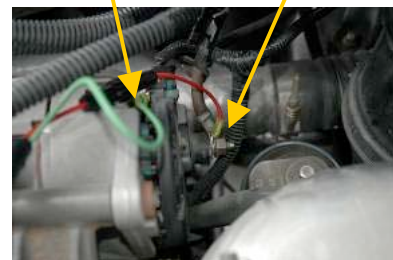


Figure 49

OR

- 6-5B. 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.

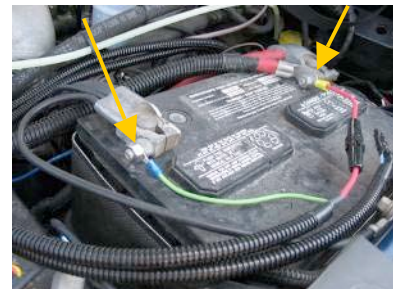


Figure 50

Connecting the Wiring Harness to the AirDog®

- 6-5. Route the wiring harness to the AirDog® and connect the 2 pin Deutsch connector to the corresponding connector on the AirDog®.



Figure 51

Section 7

Initial Startup Procedures

INITIAL START PROCEDURE

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

- 7-1. Fill the pre-filter with diesel fuel.
- 7-2. Turn the starter key to the on/run position.
Note: It may be necessary to momentarily engage the starter in order for the ECM to energize the *AirDog*®.
- 7-3. 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.
- 7-4. 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 very quiet and 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

Section 7**Initial Startup Procedures cont'd**

AirDog® runs quietly, then excessive air from a loose fitting or leaking water separator seal 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 connection at the tank.

Section 8**Fuel Filter & Pre-Filter****Filter Service Recommendations**

Plugging of either the fuel filter, the screen in the water separator nipple or the water separator itself will cause low fuel pressure and low flow to the engine. Should you experience low fuel pressure, first check the screen in the water separator nipple. If it is blocked by a film or debris, unscrew the nipple from the base, clean the screen, then re-install the nipple. If the screen is not restricted, check the water separator for plugging and restriction, then replace as necessary! If the low fuel pressure issue continues, replace the fuel filter.

**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 under-side of the AirDog® base. Follow the instructions printed on the water separator 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 to protect OUR environment!

Section 9

Pressure Regulator Upgrade

Changing the Regulator Spring

The AirDog® is shipped from the factory with the fuel pressure preset.

For the 2005-2009 Dodge Cummins the AirDog® fuel outlet pressure is preset at 15 PSI (± 2). However, for some applications, you may desire to increase the pressure output from your AirDog®. To do this, you will need to purchase and install a higher tension spring.

Regulator Spring Replacement Procedure



The regulator spring and ball assembly is located inside the Return to Tank fuel port.

Step-1. Disconnect the ‘Return to Tank’ fuel line.



Figure 9-1



Figure 9-2



Figure 9-3

Step-2. Remove the ‘Return to Tank’ fuel line fitting exposing the regulator spring.

Step-3. Remove the ball and spring.



Figure 9-4



Figure 9-5



Figure 9-6

Section 9

Pressure Regulator Upgrade

Step-4. Install the new regulator spring by reversing the steps shown in Figures 9-1 through 9-6. Be sure to place the regulator ball in the regulator seat before inserting the spring. Properly torque the return line fitting and swivel connection when finishing.

Section 10

Cleaning Foreign Debris from the Gerotor Assembly

Step 1

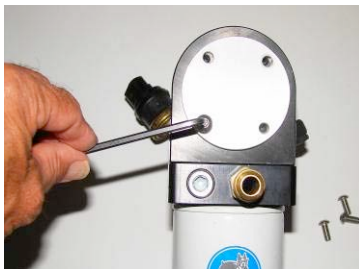
Remove the four (4) socket head cap crews that secure the Gerotor cap.

Step 2

Carefully remove the O-ring, you will need to re-use it.

Step 3

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



Step 4

Clean the inside of the Gerotor pocket.

Step 5

Replace the O-ring and center gear.

Step 6

Align the teeth and install the outer gear.

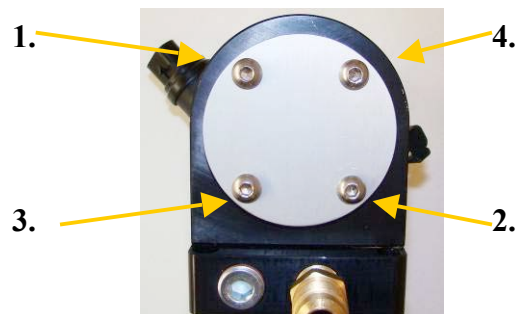
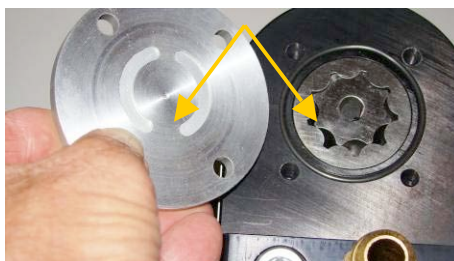


Step 7

Install the Gerotor cap. Be very careful to index the cap to position the wide space between the half moon cuts to the bottom.

Step 8

Replace the cap into position. Be very careful, do not pinch the O-ring. Torque the cap screws in an opposing pattern.



PUREFLOW AIRDOG
LIFETIME LIMITED EXPRESS WARRANTY

FOR
All 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.

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.