INSTALLATION MANUAL

DF-165
With New Quick Connect Components!

1999 – 2003
FORD POWERSTROKE
7.3L DIESEL ENGINE

High Performance Fuel System

PLEASE READ THESE INSTRUCTIONS THOROUGHLY BEFORE BEGINNING INSTALLATION!

PureFlow AirDog

705 MAUSOLEUM ROAD
SHELBYVILLE, IN 46176

1-877-421-3187

www.pureflowairdog.com
Approved for Sale and Use in California by CARB!

DEMAND FLOW SERIES

FLOWS ONLY THE AMOUNT OF FUEL THE ENGINE REQUIRES

SMALL and COMPACT

7” Long X 3.2” Wide X 10” Tall

(Shown With Optional Indicator Light Pressure Switch)
OVERVIEW

Welcome to PureFlow AirDog’s AirDog® II Fuel Air Separation, Filtration and Delivery System for the Diesel Engine

The AirDog® II Fuel Preparator®, the Original Fuel Air Separation System, is a premium substitute High Pressure Fuel Pump and complete filtration system for the 7.3L Ford PowerStroke Diesel. The system removes water, particulates and entrained air from the fuel. The entrained air that is separated from the fuel is returned to the tank through a small return line. The fuel is delivered to the engine at the correct pressure flow to meet the demands of the engine under all operating conditions.

The AirDog® II DF-165 features an Adjustable Pressure Regulator. All AirDog®II systems include a complete installation kit.

*PureFlow AirDog products are manufactured with a personal touch, unsurpassed attention to detail and the most stringent Quality Assurance!*

**TYPICAL INSTALLATION LAYOUT**

The AirDog® II draws fuel from the fuel tank at constant flow, removing water, particulates, and air/vapor. A regulated pressurized flow is maintained to meet the engine’s varying fuel demands. The AirDog® II returns the separated air/vapor to the fuel tank.
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. You may also use a small flat head screw driver or pick tool to remove retaining clip should you not have the disconnect tool.

**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.
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AirDog® II
MODEL DF-165

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.

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.

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

<table>
<thead>
<tr>
<th>QTY</th>
<th>DESCRIPTION</th>
<th>Part Number</th>
<th>IMAGE</th>
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<td>Installation Manual</td>
<td>201-1-0321</td>
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<td>DF-165</td>
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<td>3/8” Female Jiffy Tite Quick Connect x 1/8” NPT</td>
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</table>
CAUTION

TO ALLOW FOR PROPER INSTALLATION OF THE OUTPUT AND RETURN FITTINGS, FOLLOW THIS PROCEDURE.

1. INSTALL THE LARGER OUTPUT FITTING (PART# 95182) FIRST. THE FINAL ORIENTATION OF THE HEX MUST BE AS SHOWN THE PHOTOS TO ALLOW CLEARANCE FOR THE SMALLER RETURN FITTING (PART# 85035). MAKE SURE TO THREAD RETURN FITTING IN STRAIGHT, WHEN INSTALLED CORRECTLY IT SHOULD TURN FREELY WITHOUT ANY RESISTANCE OR CONTACT WITH OTHER LARGER FITTING.

2. **DO NOT** OVER TIGHTEN THE FITTINGS! THIS WILL CAUSE THE FITTING TO BREAK OR STRIP THE THREADS IN THE BASE. **DO NOT** TRY TO TIGHTEN THE FITTINGS FLUSH TO THE BASE. FINAL INSTALLATION OF THE FITTINGS SHOULD LOOK SIMILAR TO THOSE IN THE PHOTOS.

3. PUREFLOW AIRDOG IS NOT RESPONSIBLE FOR REPAIR OR REPLACEMENT OF BROKEN FITTINGS AND DAMAGED THREADS.

![Fig A](image1.png)  ![Fig B](image2.png)
Installing the AirDog® & Mounting Brackets on the Truck’s Frame!

4-1. Assemble the AirDog® mounting bracket to the frame bracket. Use the aluminum spacer block to adjust the AirDog® to clear lines and wiring harnesses on the frame. Also adjust the assembly up or down on the frame bracket as needed for clearance.

4-3. Install a 3/8” NPT x ½” Jiffy Tite female quick connect (95182) into the “ENGINE” and “FUEL IN” ports in the AirDogII®.

4-4. Install the 1/8” NPT X 3/8” Jiffy Tite Female quick connect (85035) into the “TANK” port of the AirDogII.

NOTE: The AirDog® can be mounted on either the outside of the frame or the inside, as space or personal choice dictates.
Installing the AirDog® & Mounting Brackets on the Truck’s Frame, cont’d!

NOTE: You may attach the AirDog® to the bracket either before or after attaching the assembly to the frame, whichever is easier for you.

4-3. Loose assemble the AirDog® and brackets to the vehicle by clamping the frame between the mounting plate and back plate with bolts, lock washers, and nuts.

4-4. Position the AirDog® on the frame as necessary, for clearance. Properly torque the fasteners!
AirDog® II High Pressure Fuel Line to the Engine!

5A-1. Disconnect the high pressure fuel supply line to the engine from the OE fuel pump. This pump is located on the driver’s side inside frame rail.

High Pressure Fuel Pump with 5/16” Quick Connect Fitting

5A-2. Insert the Jiffy Tite male quick connect end (see figure 15) 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.

5A-3. Connect the other end of the “Pressure Hose Assembly” (Figure 16) to The original factory engine supply line shown in figures 11 & 12. 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.

NOTE: The OE fuel pump and fuel line from the fuel tank may be removed from the vehicle at this time, if desired!
Installing the AirDog®II Air/Vapor Return Line!

5B-1. Cut filler tube as illustrated, removing 1½ inches. Loose assemble clamps on each end of filler tube.

5B-2. Insert “Return Fuel Filler Tube” assembly in filler tube. INSTALL THE FILLER TUBE WITH ARROWS POINTING TOWARD THE TANK!! SEE FIG 22 Properly tighten clamps.

5B-3. Insert the Jiffy Tite male quick connect end (see Figure 23) of the “Return Hose Assembly” into the previously installed female Jiffy Tite fitting in the port marked “Tank”. The fitting will “click” when properly installed.

5B-4 Attach the other end of the “Return Hose Assembly” onto the male end form of the “Return Fuel Filler Tube” installed in step 5B-2. A “click” will be heard when the fitting is properly connected.

5B-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.
Fuel Suction Line for AirDog II®

5C-1. Insert the male Jiffy Tite quick connect end (see figure 24) of the “Suction Hose Assembly” to the female Jiffy Tite fitting install in the “Fuel In” port during step 4-3 of this manual. A “click” will be heard when the fitting is properly connected.

5C-2. Remove the original fuel suction line Quick Connect fitting from fuel tank by squeezing the tabs on the end of the connector together. Do Not mistake the return line with the suction line. Consult your factory manual if unsure of these procedures.

In More Detail
To release the quick-connect fitting from the fuel tank suction tube, push the fitting toward the suction tube. With the plastic tabs firmly depressed, pull the fitting assembly from the suction tube. Hold the Quick Connect Fitting square to the suction tube. It may be difficult to disconnect the fitting it is cocked or becomes cocked during removal.

5C-3. Attach the other end of the “Suction Hose Assembly” to the male quick connect on the top of the fuel module where the factory suction line was once located. A “click” will be heard when the assembly is properly connected. (Figure 27)

5C-4. 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.

VERY IMPORTANT
If the OE High Pressure fuel pump was not removed from the vehicle, disconnect the power supply lead to the OE High Pressure Fuel Pump.
The AirDog® II is equipped with a relay controlled wiring harness.

WIRING DIAGRAM (In Red)

Figure 45

The AirDog® II wiring harness!

AirDog® II Pump Motor Lead
*Pressure Sensor/Switch Lead
Indicator Light Lead
Battery Positive Lead
Battery Negative Lead
Mini Fuse Tap Relay Lead

Figure 46

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 the kit.

Securing the Relay and Fuse Holder to the Vehicle

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

Figure 47
Connecting the AirDog®II Relay Control Lead

6-2. Route to Relay Lead to the fuse panel. Insert the mini fuse tap into a spare fuse holder on the panel that is “hot” when the starter key is turned to the on position.

6-3. OR Route the AirDog®II 'Relay activation lead', the Red (+) wire with the mini fuse tap attached, to the OE fuel pump. Remove the mini fuse tap and splice the relay lead to the OE fuel pump lead.

**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.

6-4. Route the power supply leads to the alternator. Connect the Black (-) lead to the alternator Ground connection.

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

OR

6-5. 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.

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

Before starting the engine, be sure the power supply to the OE High Pressure Fuel Pump, located on the driver’s side frame rail, has been disconnected!

INITIAL START PROCEDURE

The AirDog® II 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 water separator with diesel fuel.

7-2. Turn the starter key to the on/run position.

7-3. While the AirDog® II 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® II 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® II 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® 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 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.
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.

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 to protect OUR environment!
Cleaning 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-rings, you will need to re-use it.

**Step 3**
Remove and clean the gerotor. Be very careful not to damage the gerotor.

**Step 4**
Remove the O-rings and clean the inside of the gerotor pocket.

**Step 5**
Replace 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**
Loose assemble the cap screws. Torque the cap screws in an opposing pattern.
AirDog®II DF-165 with Adjustable Pressure Regulator!

The AirDog®II rises to a new level of excellence with an Adjustable Regulator machined from stainless steel with a double O-ring seal system and soft seat piston.

Pressure Adjustment for the Ford PowerStroke

Loosen the Jam Nut
Re-Torque After Adjusting

Use a Screwdriver to Adjust the Pressure Regulator

Turn the adjustor 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.

Changing the Regulator Spring

Step 1. Remove the regulator by turning the “Base Nut/Adjustor Body” counter clockwise.

Step 2. After removing the regulator assembly, remove the spring and the conical plunger. Verify the o-ring is intact.

Step 3. Reset the conical plunger and place the spring inside the conical plunger.

Step 4. Replace the assembly in the base. Tighten the Base Nut to proper torque.

Stainless Steel components with a Double O-ring Seal System and Soft Seat Piston.

New o-rings are included in the Customer Service O-ring Kit if replacements are required.
Parts of an AirDog

Motor Tower
Gerotor Cap
Base
Output Side
Suction Side
Fuel Flow Dividers
Water Separator Nipple
Fuel filter Suction Tube and Nipple
Gerotor Cap
Gerotor Assembly
Gerotor Cap O-Rings
Pressure Regulator
More psi
Less psi

More psi
Less psi
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 consequent damages of any kind or nature, whether or not the BUYER of the PRODUCT was advised of the possibility of damage or harm, arising or resulting from the use or performance of the PRODUCT and BUYER hereby waives the right to any and all such claims.

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

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

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

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

Warranty Procedure

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

1. The customer discussed the symptoms of the problem with a PureFlow AirDog Technician. The customer is to have the system Serial Number and Model Number available for the Technician when the call is made. This will expedite all steps of the process.

2. The customer performs any and all tests requested by the PureFlow AirDog Technician. This is done to isolate the potential problem while eliminating potential installation or maintenance related issues.

3. If the PureFlow AirDog Technician determines based on the customer feedback concerning the requested testing that system may be at fault, the customer is advised that all returned pumps are tested upon arrival and should this returned pump perform at design criteria upon arrival, the customer will be charged a $50.00 fee.

4. The PureFlow AirDog Technician will first request the customer’s phone number in the event the phone call is accidentally disconnected and then transfer the customer to a PureFlow AirDog Customer Service Representative. Should a Customer Service Representative not be available, the Technician will offer the Customer the option to hold, call back, or receive a return call.

5. The PureFlow AirDog Customer Service Representative will check to determine if the customer’s Warranty Registration Card is on file.
   a. If no Warranty Registration is found, the customer will be required to supply the original purchase receipt showing the purchase date.
   b. If no Warranty Registration is found, the customer will be advised of the options should the system in question is out of the default warranty period (1 year).

6. The PureFlow AirDog Customer Service Representative will request the customer information, including: Name, Address, Phone Number, Model Number, Serial Number, Year / Make / Model of vehicle, Name of Dealer purchased from, Purchase Date, Description of Problem, Customers’ understanding of the resolution, and customer credit card information.

7. PureFlow AirDog will cover Ground Shipping charges to ship the replacement unit and will include a prepaid shipping label for the return of the defective unit. Any additional items ordered at the time of the replacement shipment will include their portion of the shipping cost.

8. A period of 15 Calendar Days from the time of shipment is provided for the receipt of the defective unit at the PureFlow AirDog facility. Failure to return ship the defective unit to arrive within the defined time period will result in a charge of $250.00 against the customer’s credit card as the purchase cost of the defective unit.

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