

INSTALLATION MANUAL



Bypass Oil Filtration Systems

**MODELS
TF-12P through TF-240P**

Overview

Welcome to **puraDYN** Filter Technologies Incorporated. This installation manual is designed to assist you in the installation of your new **puraDYN**[®] Bypass Oil Filtration System.

This manual will go over all aspects of installing the **puraDYN**[®] system on a Class 4 thru Class 8 truck. However, the information in this manual will also assist you in installing your new **puraDYN** system for marine, heavy construction, off-road and other applications. At any time during the installation, if you have questions, our technical support team is only a phone call away.

How the puraDYN System Works

The **puraDYN**[®] Bypass Oil Filtration System has no moving parts and is designed for years of trouble-free operation. The oil enters the filter through a metering jet located on the bottom of the unit. The metering jet reduces the flow of oil going through the **puraDYN**[®] system down to approximately 6 gallons per hour. This slow flow rate allows the system to trap particles down to below one micron in particle size. As the oil travels through the filter element, it passes through our time-released additives. These time-released additives are designed to replenish depleted additives without upsetting the balance of the oil's original additive package. The filter with additives will keep the TBN (Total Base Number) and the TAN (Total Acid Number) within acceptable ranges and maintain viscosity.

After the oil exits the filter element, it enters our dry electrically-heated evaporation chamber at atmospheric pressure. The heated diffuser plate heats the oil to approximately 200 degrees Fahrenheit. This allows the unit to evaporate and vent water and other liquid contaminants out of your oil before they can re-condense. The oil exits the unit via a return line and returns back to the oil pan via gravity. The cycle continues and, as long as the engine is running, the unit will be filtering your oil continuously to keep it clean.

**NOTE: USE OF NON-puraDYN FILTER ELEMENT
VOIDS WARRANTY**

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Items Required for Installation

1. Drill and assorted drill bits
2. Teflon paste or equivalent thread sealant
3. Open-end wrench assortment (3/8", 7/16", 1/2", 9/16", 5/8" and 3/4")
4. 3/8" drive ratchet with socket assortment (3/8", 7/16", 1/2", 9/16", 5/8" and 3/4")
5. Large, adjustable crescent wrench
6. Cutting, crimping and wire-stripping pliers
7. Hack saw
8. Utility knife
9. Center punch
10. Multi-meter or test light
11. Optional banjo fitting to make return hose connection to engine
12. 3/16" I.D. high-pressure hose
13. 3/4" I.D. return hose
14. Oil analysis kit(s)
15. New OEM full-flow oil filter(s)
16. New oil, as recommended by engine manufacturer
17. Oil pressure gauge (to verify oil pressure is below 125 psi)
18. Compressed air to blow out pressure hose upon assembling fittings
19. Safety eye protectors (shop type)

Approximate amount of oil required for first-time installation and/or

purADYN® filter cartridge replacement:

TF-12P Filter	1 ½	Quarts
TF-24P Filter	2 ¾	Quarts
TF-40P Filter	4	Quarts
TF-60P Filter	6	Quarts
TF-240P Filter	12	Quarts

Installation Checklist

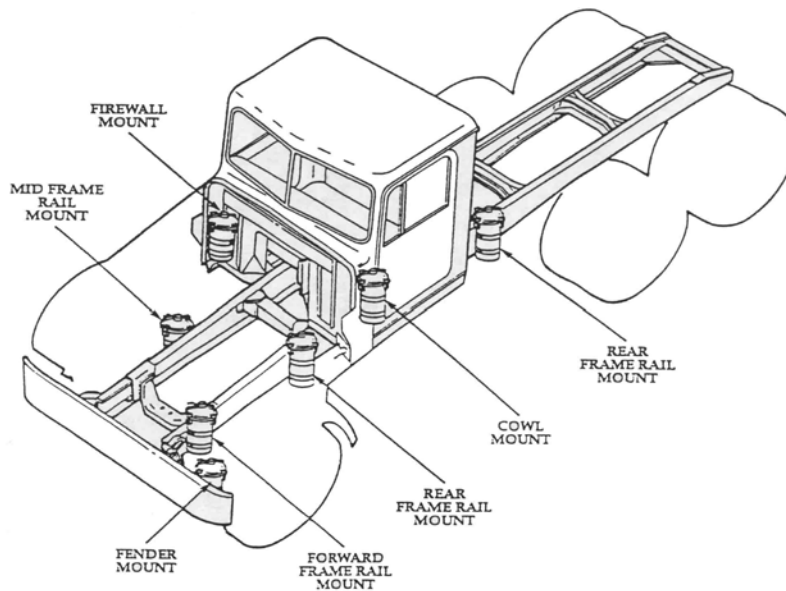
1. Check parts list against parts received.
2. Call toll-free 1-866-PURADYN (1-866-787-2396) if any parts are missing or are damaged.
3. Survey vehicle for mounting location. (See page 6)
4. Check return line requirements.
5. Check pressure line requirements.
6. Check puraDYN[®] filter removal requirements. (See page 7)
7. Mount unit in suggested location.
8. Verify line pressure. If pressure is above 65 psi. at normal operating temperature and RPM, install the high pressure jet supplied in the parts bag.
9. Install pressure line.
10. Take an oil sample of existing oil to use as a reference of the current engine condition.
11. Drain oil and install new OEM full-flow filter, per OEM instructions.
12. Install puraDYN[®] system return line.
13. Fill crankcase with new oil and take sample for baseline comparison.
14. Install vent valve into the **puraDYN[®]** unit and attach clear vapor tube to the valve.
15. Make heating element electrical connections.
16. Perform system start-up. (See page 23).

Mounting Locations

Choose a secure mounting location on the fender well, firewall, frame rail or cowl that meets these requirements (Note: Do not weld to the frame rail):

- Close to the engine, to keep pressure and return hose as short as possible.
- Enough space so the unit will be vertical and not interfere with engine parts.
- High enough so the outlet for the oil return line is at least twelve (12) inches above the oil level on short return lines and as high as possible for longer return lines.
- Strong enough so the weight of the unit doesn't cause metal fatigue or damage.

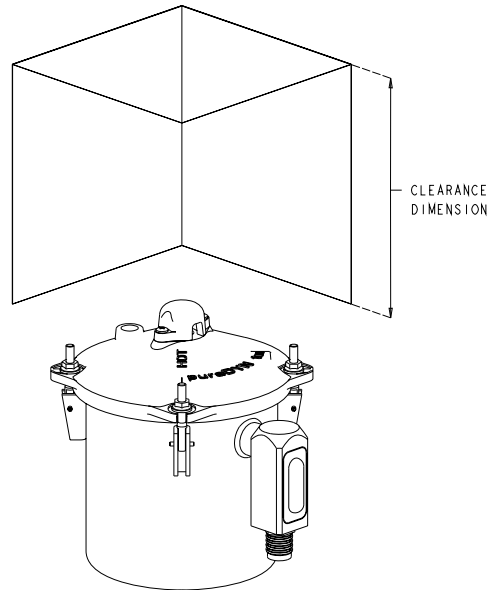
CAUTION!! Avoid high-vibration areas which could cause the bolts to loosen during operation.



Space Requirements

In order to change the filter after installation, the following minimum height requirements (clearance dimension) **above** each unit must be maintained:

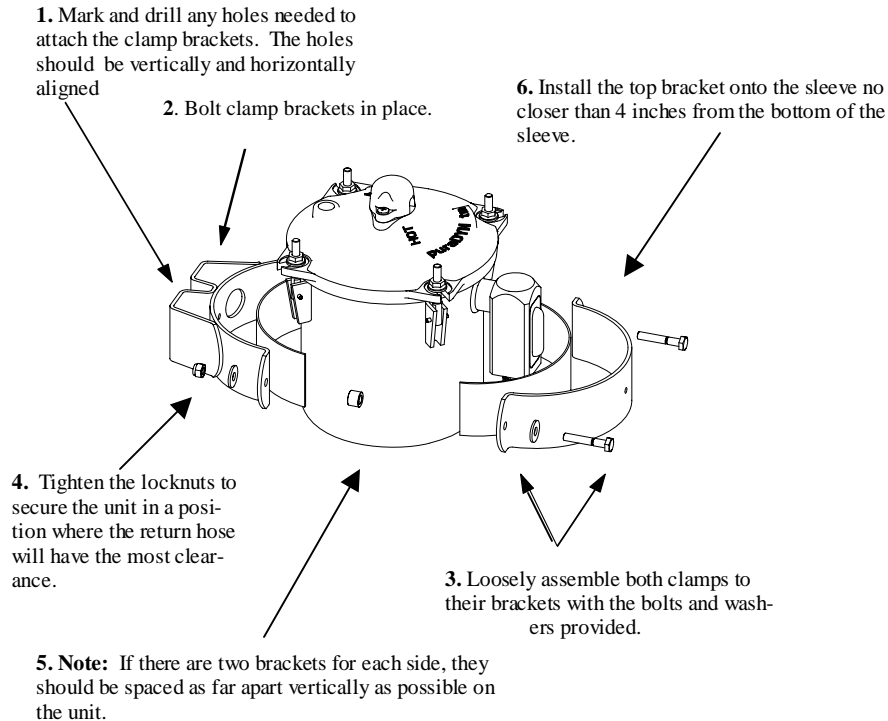
TF-12P	5 inches
TF-24P	9 inches
TF-40P	8 inches
TF-60P	12 inches
TF-240P	20 inches



Mounting Instructions

Mount the **puraDYN**[®] unit vertically and level on top.

Note: puraDYN Filter Technologies Incorporated stocks various sized pre-drilled mounting plates for installation. If you would like installation technical assistance, please call Technical Support toll-free at 1-866-PURADYN.



CAUTION: Not recommended to drill new holes (or weld) into vehicles frame rails without first checking with the Original Equipment Manufacturer for approval.

puraDYN recommends using existing holes in frame rail or clamping devices to mount the unit.

Note: Mounting clamps and hardware may vary from the above illustration.

Pressure Line Requirements

The **puraDYN**[®] system operates on pressure supplied by the engine oil pump. The high pressure hose is not included in the kit, but can be supplied by your dealer, hydraulic parts store, most auto parts stores or **puraDYN** Filter Technologies Incorporated.

Specifications

- Use 3/16" I.D., 1500 psi fully braided hose rated for hydraulic oil (Weatherhead #H06904 or Aeroquip #FC350-4 hose, or equivalent).
- Use proper sealants and tighten all fittings securely.
- A 1/4" NPT adapter bushing is supplied for larger oil sending units, oil galley plug or oil line locations.
- You may install a tee fitting in any positive oil pressure line, sending unit, galley plug, etc.

*NOTE: The **puraDYN**[®] system will not affect engine oil pressure.*

NOTE: If this is an automotive application, please call Technical Support at 866-PURADYN for directions.

Installing Pressure Fittings / Line

Find the oil pressure-sending unit or oil galley on the engine. The sending unit normally has a wire or cable running to the dash to indicate the oil pressure to the driver. If you are unable to connect to the oil-sending unit, find another oil port (usually by the factory full-flow oil filter) that you can connect to for full, unrestricted oil pressure. **It is necessary to put a gauge on that port and run the engine at high idle to check that the oil pressure is correct. As long as the oil pressure is under 65 psi, you can install the standard fittings. If the pressure is above 65 psi, replace the pre-assembled metering jet with the high-pressure metering jet contained in the Parts Bag.**

After locating the oil port that you will be connecting to, use the 90-degree shutoff valve supplied with the kit, and install the fitting to the engine (Note: a 1/8" street tee and bushing have been supplied for different applications).

The 90° shutoff valve fitting is supplied in the "OFF" position. After the installation is complete, **remember to open the valve** so the oil can travel from the engine to the **puraDYN** system.

After the fittings for the pressure side have been installed on the **puraDYN**[®] system and the engine, it is time to measure and cut your pressure hose.

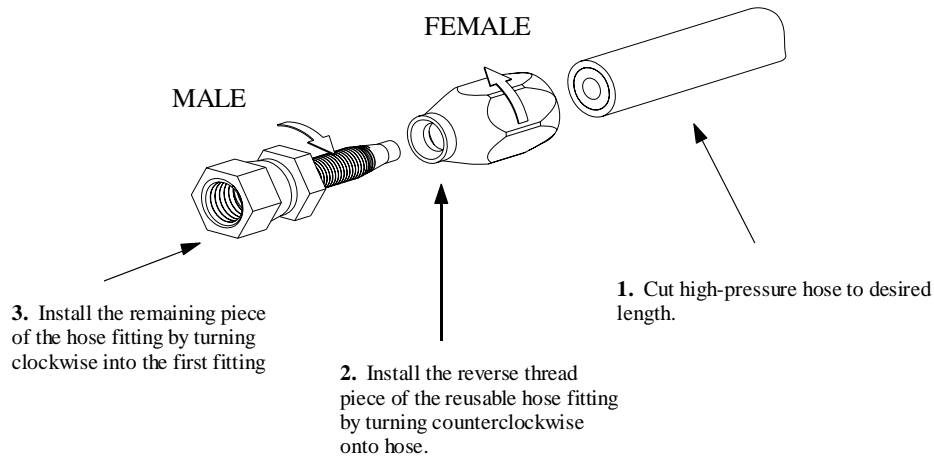
When measuring the hose, please take care that the hose is routed in a safe, out-of-the-way location, making sure it does not come in contact with any moving or abrasive parts or hot exhaust manifolds.

The kit comes with two reusable hose fittings for the 3/16" ID pressure hose. After attaching the reusable hose fittings to the hose, carefully blow out the lines with high-powered air to make sure there is no debris or rubber stuck in the fittings. As an extra precaution, remove the swivel of both fittings as there may be a ring of rubber in the small end of the fitting. Push it out with a piece of wire. (See drawing)

After you are sure all the fittings are installed properly, install the pressure hose onto the engine only. Start up engine and flush the pressure hose into a cup to check oil flow. After flow is confirmed, connect the hose to the unit. Secure the pressure hose with supplied tie wraps to avoid moving or hot parts.

Attaching Fittings to Pressure Line

*NOTE: Take apart the two supplied high pressure flared reusable fittings and install them in the following manner. The shoulder nut has a reverse thread and must be screwed on in a counterclockwise direction. As soon as the nut starts to thread, insert the flared insert portion into the shoulder nut about three (3) turns. Tighten down the shoulder nut first, with a 5/8" wrench. Next tighten the flared insert, with a 9/16" wrench. Do these steps on both fittings. The next step is to remove both flared inserts, because in the threading process, the inserts pick up a small piece of rubber, which must be removed with a stiff piece of wire or drill bit by pushing it out from the flared end of the insert. Install both flared inserts again and blow out with high pressure air. Pressure hose is now ready for attachment from the engine to the **puraDYN**® unit.*

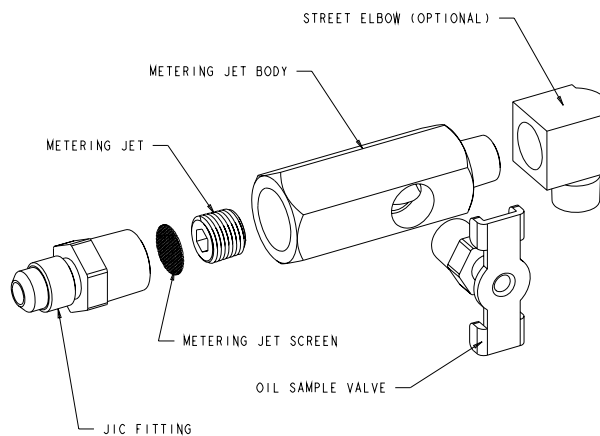


Cleaning The Metering Jet

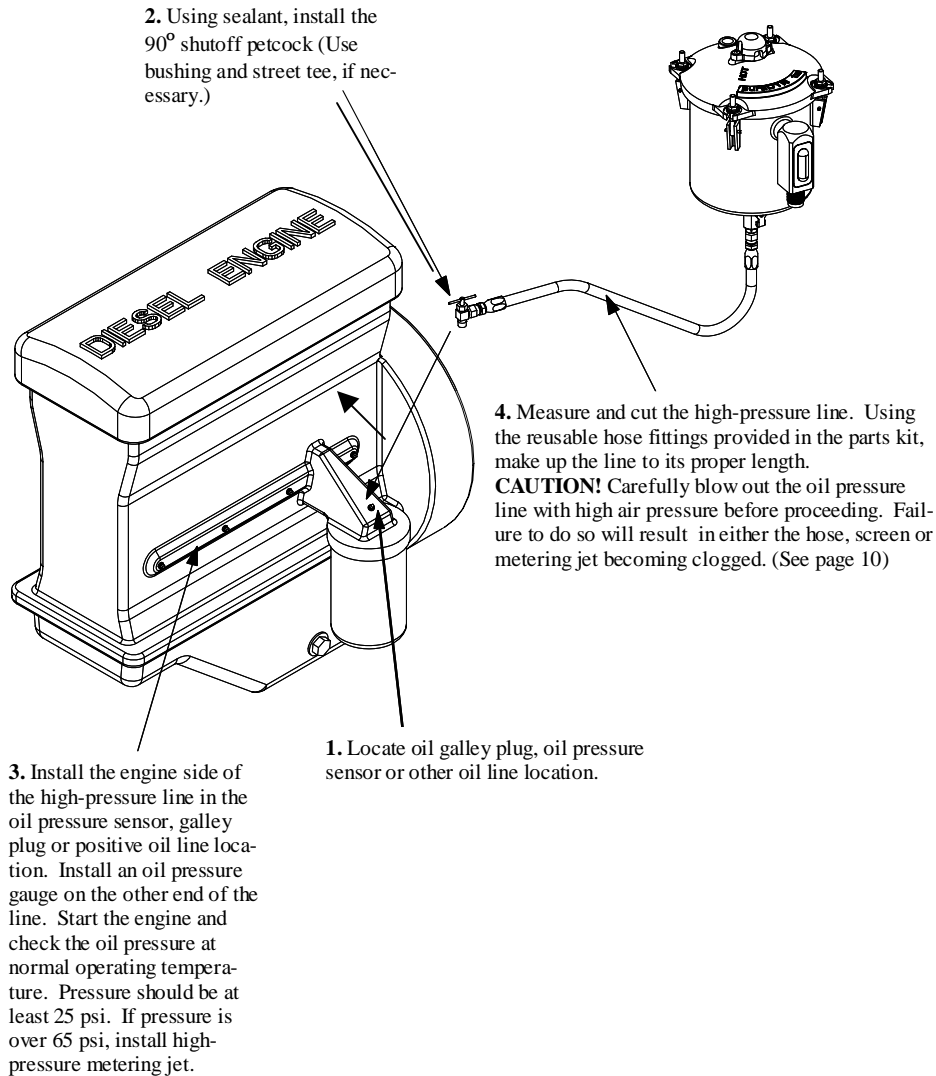
IMPORTANT: Carefully blow out the oil pressure line with high air pressure before proceeding. Failure to do so will result in hose, screen or metering jet becoming clogged. To verify metering jet is working, open oil sample valve to confirm oil is flowing. Then tightly close oil sample valve.

EXISTING METERING JET ASSEMBLY

- 1) Screw oil sample valve into the metering jet body.
- 2) Screw metering jet into the metering jet body.
- 3) Place metering jet screen on top of the metering jet.
- 4) Screw JIC fitting into the metering jet body.
- 5) Screw metering jet body into the street elbow.
- 6) Screw street elbow into the TF inlet nipple.



Supply Line Connection



Return Line Requirements

The return hose is not included in the installation kit, but may be supplied by your dealer, a hydraulic parts store or **puraDYN** Filter Technologies Inc. Use 3/4" I.D., 250 psi, oil-rated, push-on hose (Weatherhead #H10112 or Aeroquip #2556-12, or equivalent).

NOTE: Construction equipment should use full braided steel hose as in **puraDYN's** optional Off Road Kit.

Installing Oil Return Line and Banjo Fitting

The best locations to attach the oil return line are:

- The oil pan
- The oil drain port
- An inspection port on the side of the oil pan (below oil level)

Use the following criteria to select an oil return point on the engine:

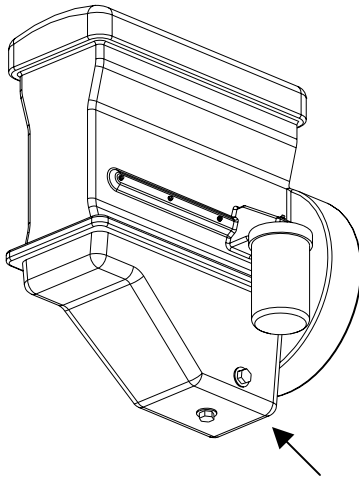
- The oil return point must be to a non-pressurized point of the engine. There cannot be any back pressure on the hose.
- Oil must be returned below the oil level.

Once a location is selected, make sure that you have the correct fitting to attach the return line to the oil pan. Drain the existing oil from the oil pan, saving a small amount of the oil so that it can be analyzed by a qualified oil analysis company. Replace drain plug with **puraDYN**[®] banjo fitting. Run 3/4" hose from the banjo to the TF unit and connect to flow meter male nipple **Note:** puraDYN offers a variety of banjo fittings. If you need another size, please call Technical Support at 1-866-PURADYN for assistance.

When routing the oil return hose from the **puraDYN**[®] unit to the engine, make sure of the following:

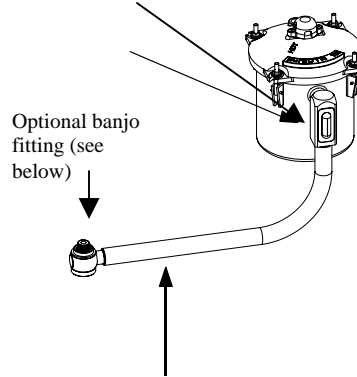
- The return hose is constantly descending, (starting from a minimum of 12" above oil pan) with no dips, traps or sharp bends.
- Be sure that the hose does not come in contact with abrasive or moving parts or hot exhaust manifolds. Secure the hose using supplied tie wraps.

Installing Oil Return Line and Banjo Fitting (con't)



2. Install the return fitting into the oil drain hole or inspection hole in the oil pan. You may use a 90° elbow fitting or banjo fitting to simplify hose attachment and routing.

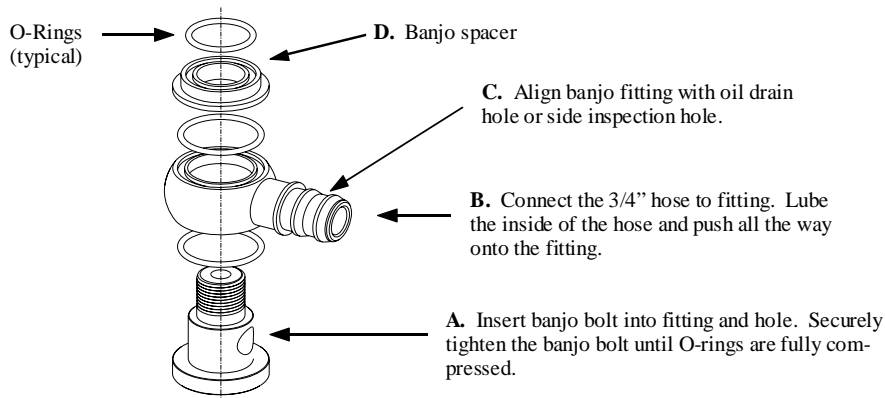
1. Connect the 3/4" hose to the flow meter.



3. Route the hose to the return fitting on the engine. Make sure the hose does not touch any moving or hot parts. Secure the hose with the tie wraps provided. Lube the inside of the hose and push it all the way onto the fitting.

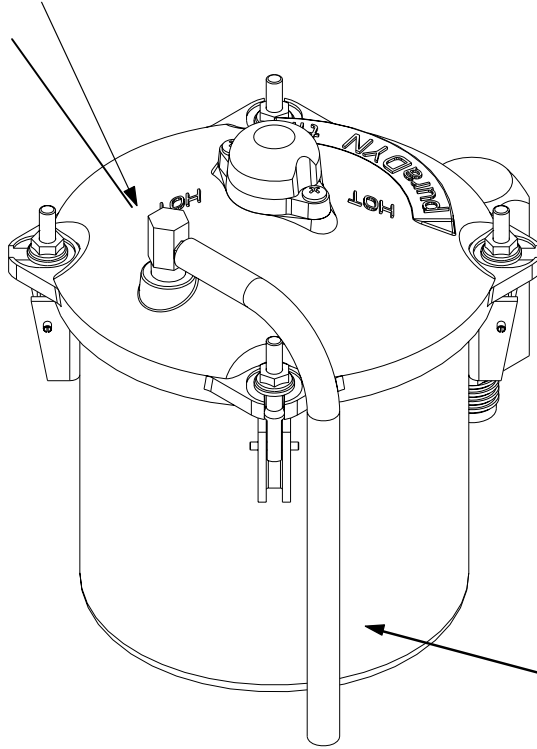
OPTIONAL BANJO FITTINGS

NOTE: Banjo fittings are optional. They are NOT supplied with the **puraDYN®** unit.



Vent Tube Installation

1. Install vent valve into the **paraDYN**[®] head casting.



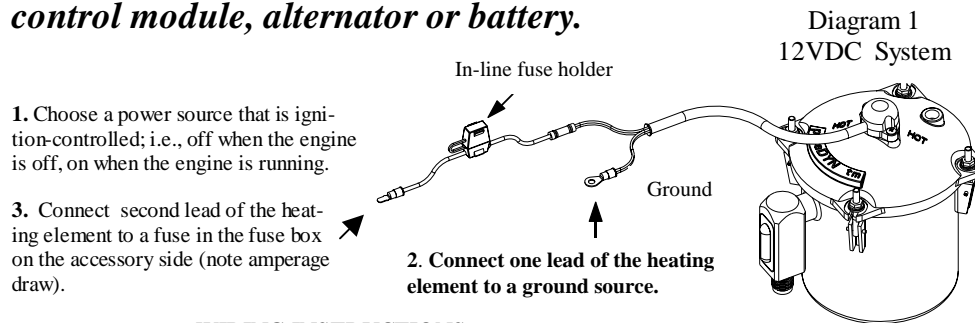
2. Attach clear vapor tube to the vent valve and run behind "w" mounting bracket. Secure using tie wraps.

Heating Element Electrical Connections

Make sure the voltage to the heating element matches the voltage for which the element is rated. The heating elements are dual voltage compatible, designed to operate on 14VDC or 28VDC and 110VAC or 220VAC.

As an example, for the 12-volt system (see Diagram 1), take two black wire leads from the heater using one of the terminal rings and attach it to a ground, usually located on the frame. Take two green wire leads from the heating element and connect to a positive. You may need to run the wire along the frame rail. Wire the unit through the firewall following the wire harness and route our wire going to the fuse box. When you reach the fuse box, you will need to find an accessory fuse that can handle a minimum of 15 amps. **Be sure to select a power source that is “OFF” when the engine is “OFF”.** Also install our in-line fuse holder, prior to installing the final connection, which acts as a fuse-link to protect the heating element.

WARNING!!! Never connect the heating element directly to the ignition system, brake system, engine control module, alternator or battery.



WIRING INSTRUCTIONS

12V—Tie the two green leads together and connect to POSITIVE. Tie the two black leads together and connect to NEGATIVE or GROUND.

24V Tie two green leads together and insulate with wire nut or equivalent. Connect first black lead to POSITIVE. Connect second black lead to NEGATIVE or GROUND. **Caution: Green leads will have power.**

110V—Tie two white leads together and connect to HOT. Tie two black leads together and connect to NEUTRAL. Ground unit to earth ground.

220V—Tie two white leads together and insulate with wire nut or equivalent. Connect first black lead to HOT. Connect second black lead to NEUTRAL. **Caution: White leads will be hot! Ground unit to earth ground.**

SPECIFICATIONS	
12VDC	12.5 amps
24VDC	6.25 amps
110VAC	1.36 amps
220VAC	.068 amps

Oil Analysis Procedures

The **paraDYN** Filter Technologies Oil Management Program includes an oil-analysis schedule that assists our customers in achieving the benefits of extended oil drain intervals and longer service life for their engines and equipment.

Oil analysis is the key to achieving the benefits that result from optimized oil life (with reasonable safety precautions) and extended drain intervals. In addition, oil analysis is the only economical way to measure wear or contamination in the engine or equipment. Of primary importance is the interpretation of the test data, which is easy to read and self-explanatory.

The **paraDYN**[®] oil analysis is conducted by an independent laboratory and is reported in an easy to understand format which includes the following data:

- * **Wear elements or metals (in parts per million)**
- * **Oil contaminants (% by volume)**
- * **Oil quality (TBN, TAN, viscosity)**

This data must be monitored to fully evaluate the lubrication system. The analysis will provide a “picture” and warning, if necessary, of any existing or potential problems.

Performing Oil Analysis

Using an oil analysis kit, take a small amount of the existing oil you saved earlier when changing the oil and pour it into the oil sample container for a separate oil analysis. This will show the condition of the oil (and engine) prior to installing the puraDYN® system onto your engine.

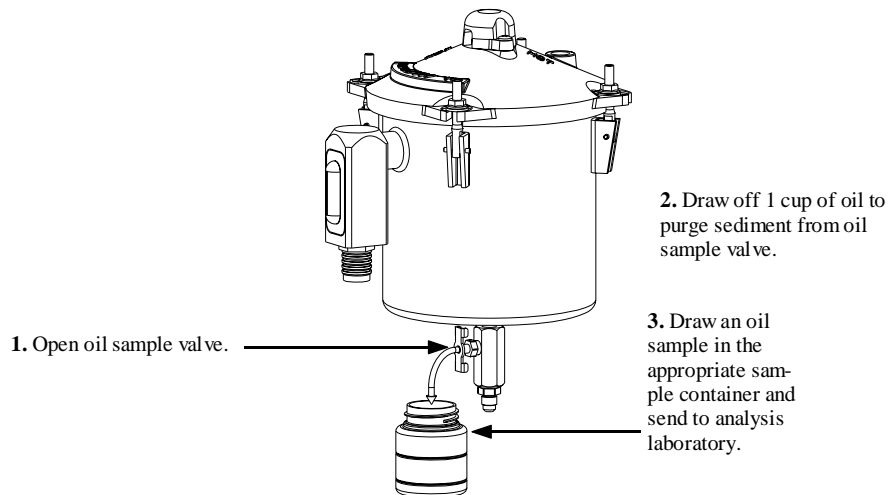
Now take a sample of the new oil directly from the new oil container or oil tank supply hose. Pour this sample into a new oil analysis bottle until it is 3/4 full and close the lid quickly to prevent contamination. This oil sample will be your baseline.

As long as the oil sample results returned to you by the independent lab confirm the oil is still good for continued use, there is no need to change your oil.

- Start the engine and bring oil to operating temperature
- Open oil sample valve
- Draw off 1 cup of oil to purge sediment from oil sample valve
- Open oil sample bottle and draw off oil to fill until 3/4 full
- Close lid on bottle
- Fill out oil sample form completely and mail to lab for analysis

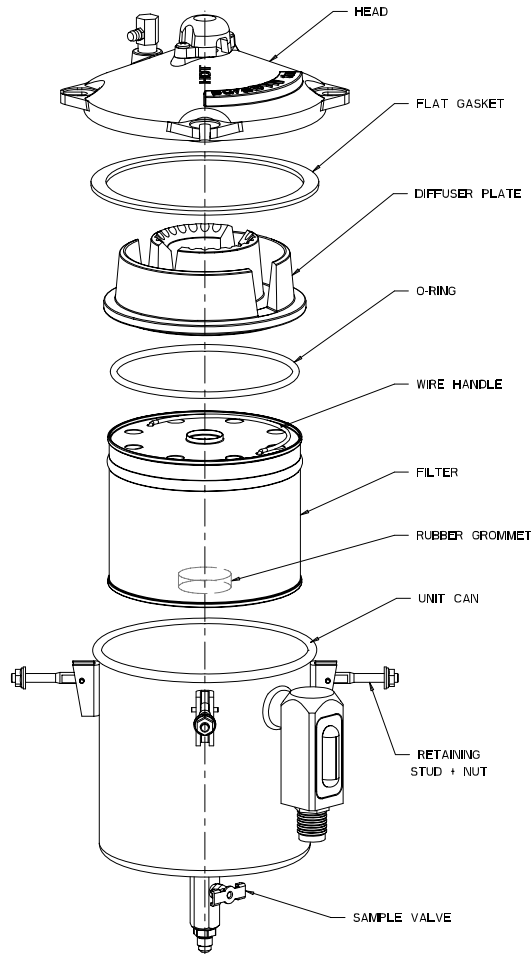
IMPORTANT

Oil analysis data is required in order to maintain puraDYN's warranty and ensure your oil meets engine manufacturer's oil specifications.



Filter Service Requirements—Changing the Filter

NOTE: UNIT IS HOT - USE CAUTION



1. Engine must be **shutoff** and time allowed for the oil to drain from unit before changing the filter element.
2. Loosen the four nuts on head (lid) retaining studs enough to allow the studs to swing clear of head.
3. Remove the head (lid) from unit can. Remove flat gasket from head and discard
Note: The head (lid) and diffuser plate are HOT.
4. Remove diffuser plate & O-ring. Discard o-ring
5. Remove the filter by firmly pulling up on the wire handle.
Note: Have a container or plastic bag handy for the used filter, in order to prevent oil spills.
6. Insert the new filter in the unit, making sure the rubber grommet at the bottom fits securely over the nipple in the bottom of the unit canister.
7. Install new O-ring on top of the new filter.
8. Replace the diffuser on top of the filter & the O-ring, making sure to align the slot in the diffuser with the flow meter.
9. Install new flat gasket into head.
10. Replace the head (lid) on unit, making sure the flat gasket on the underside of the lid is securely in place.
11. Swing the four studs into position to tighten.
12. Tighten the nuts securely (8-10 Lbs/Torque) using a diagonal pattern.

Extended Oil Service Schedule

	One Half Interval	OEM Interval	OEM Interval	OEM Interval
Oil Analysis Sample	YES	YES	YES	YES
paraDYN Filter	CHANGE	CHANGE	CHANGE	CHANGE
Full Flow Filter	Suggested change interval is every 12 months or 60,000 miles or 1,500 running hours (whichever occurs first); 15,000 miles for PFT8 unit and also for recreational vehicle applications.			
Oil Change	No oil change required unless recommended by the oil analysis report.			

NOTES: When a **paraDYN** Bypass Oil Filtration System is installed as an after market item, change oil and full flow filter at time of initial installation. Then at one half manufacturer recommended service interval, change **paraDYN** Bypass Oil Filtration Filter, full flow filter and take an oil analysis sample. Thereafter, change **paraDYN** Bypass Oil Filtration Filter and take oil analysis sample according to sample chart above. Also, oil analysis sample should be taken while engine is running at normal operating temperature.

System Start-Up

After completing the installation of the **puraDYN**[®] system, do the following to ensure the system is working properly:

1. Start engine and check for leaks.
2. Let engine run for 15 to 30 minutes.
3. Check to see if oil is flowing through the flow meter.
4. Check heating element operation. **Note:** Top of unit should be warm within 5 minutes of start-up.
5. Shut engine down.
6. Check engine oil level and add makeup oil as needed (See page 4)
7. Refer to maintenance schedule on page 22 for recommended filter change intervals
8. Complete warranty card and return to **puraDYN**.

Troubleshooting

The **puraDYN**[®] unit has been engineered to be as simple and trouble-free as possible. It is manufactured from the highest quality materials available and superior workmanship. If, however, your **puraDYN**[®] unit is not functioning properly, check the following conditions, and correct as indicated:

1. Restricted oil flow

- If shutoff valve is closed open valve
- If filter is dirty and clogged replace with new filter
- If metering jet screen is cloggedclean thoroughly
- If metering jet is clogged clean thoroughly

2. Oil coming out of vapor tube

- If there is a sharp bend, dip or trap in return hose, reroute hose to eliminate.
- Make sure that the oil return line is always dropping into a non-pressurized location on the engine. For best results, the oil return should be located below the oil level in pan.
- Oil pressure too high-if over 65 psi., install the high pressure metering jet. (If oil still comes out of vapor tube, the problem is internal back pressure from a malfunctioning engine and must be corrected.)

3. If the top of the puraDYN[®] unit is not warm after 5 (five) minutes of operation:

- Check fuse...if good, check power source and ground. If these are correct, the heater element is burned out and needs to be replaced.

NOTE: The items listed above are the only reasons a puraDYN[®] unit will fail to function if the system is properly installed.

Questions And Answers

Q. What type of oil should be used with the puraDYN[®] system?

A. Any high quality oil with a high total base number (TBN) that meets or exceeds the specifications established or recommended by the engine manufacturer.

Q. Will the puraDYN[®] system work with the new extended change interval synthetic oils?

A. Yes. The puraDYN[®] system is completely compatible with synthetic oils. Although these oils have a superior lubrication value over mineral oils, they are still susceptible to solid contamination buildup and liquid contaminants, such as water and fuel dilution.

Q. Can the puraDYN[®] system be used on any engine?

A. The puraDYN[®] system can be installed on almost any engine such as automobiles, trucks, buses, boats, generators or any other types of industrial equipment with an engine or pressurized lubricating system.

Q. Will the installation of the puraDYN[®] system on my engine or other type of equipment affect the manufacturers warranty?

A. No. The puraDYN[®] system is a bypass unit cleaning the oil at a rate of 6 gallons (24 liters) per hour and is used in addition to the OEM full flow filter. It enhances the OEM full flow filter's performance, greatly extending its life. We have opinion letters from most major engine manufacturers, such as Detroit Diesel, Caterpillar, Cummins, Ford Motor Co., and many others (copies available upon request), which state that the installation and use of a non-factory accessory, such as the puraDYN[®] system, does not, in itself, void the manufacturer's warranty.

Q. Can the puraDYN[®] system be used on other equipment besides engines?

A. Yes. The puraDYN[®] system can be used on many types of hydraulic equipment, compressors as well as most engines.

Q. How difficult is it to install the puraDYN[®] system?

A. The puraDYN[®] system can be easily installed on almost any engine. This includes engines with metric fittings) in usually 2 hours or less. Detailed instructions for do-it-yourself installations are provided or any qualified mechanic can easily perform the installation.

Q. Will the puraDYN[®] system cause a drop in oil pressure?

A. No. The oil will build up a head of pressure against the metering jet at the bottom of the **puraDYN**[®] system and will not change the oil pressure of the engine or affect the normal operation of the engine or the OEM full flow filter.

Q. At what rate does the puraDYN[®] system clean the oil?

A. The **puraDYN**[®] system cleans the oil at approximately 6 gallons per hour at 65 psi.

Q. Is the puraDYN[®] system guaranteed?

A. Yes. The **puraDYN**[®] system carries a 1-year / unlimited miles or hours guarantee against defects in materials and workmanship, with a six-month money-back performance guarantee. We also offer a four-year extended warranty. Please call **puraDYN** for more details.

Q. Should I change my existing oil when fitting a puraDYN[®] system to my truck, car, or other equipment.

A. Yes. One needs to start out with new oil where both viscosity and additive levels are a known factor. In addition, we recommend taking a sample of the new oil and the drained existing oil to establish a base line for later comparisons.

puraDYN Filter Technologies Inc.
PRODUCT WARRANTIES
puraDYN® Bypass Oil Filtration System

The **puraDYN** bypass oil filtration system is warranted to the original customer to be free from defects in material and workmanship for a period of ONE year from the date of installation, providing the **puraDYN** is properly installed without any modifications or alterations pursuant to the **puraDYN** Filter Technologies Incorporated, (“PFTI”) installation manual. PFTI products are eligible for these warranties only if registered with PFTI. Submission of the PFTI warranty registration is required upon installation.

The **puraDYN**, including any defective part therein, must be returned to an authorized sales representative, dealer, distributor or to PFTI, within the material and workmanship warranty period. The sales representative, dealer, distributor or PFTI will then execute the warranty procedures on the owner’s behalf. The expense of returning the **puraDYN** to the factory for warranty service, and the expense of returning the **puraDYN** back to the owner after repair or replacement will be paid by the owner. PFTI’s responsibility in respect to warranty claims is limited to providing the required repairs or replacements to the product itself, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any PFTI products. Proof of purchase will be required to substantiate any warranty claim.

PFTI shall repair the damage to any engine caused directly and solely during said warranty period by the **puraDYN** provided that (1) the **puraDYN** is properly installed and maintained in accordance with the prescribed installation guidelines and service intervals contained in the PFTI installation manual; (2) the **puraDYN** is installed and maintained on an engine which is in normal running and mechanical condition at the time of installation and which continues to be properly maintained in accordance with the engine manufacturer’s recommended service intervals (other than recommended oil changes); (3) the **puraDYN** is installed on an engine in which the replacement engine oil meets or exceeds the engine manufacturer’s recommended grade of engine oil; (4) the proper **puraDYN** filter elements and the engine’s standard full-flow filter elements are installed, used and replaced in accordance with the PFTI installation manual; and (5) the oil analyses are performed by a qualified laboratory at the same intervals you change the **puraDYN** filter element, but at least once a year. Additionally, within five calendar days following the discovery of such damage, the customer must give written notice to PFTI, 2017 High Ridge Road, Boynton Beach, Florida 33426, and allows a service representative of PFTI to (a) examine the damaged engine on which the **puraDYN** is installed, (b) examine the oil in use in said damaged engine at the time such damage is discovered, (c) examine the required periodic oil analysis reports, and (d) examine the installation of the **puraDYN** at the time damage is discovered in order to permit PFTI to determine the extent of damage and whether it was caused solely and directly by the **puraDYN**. In the event that without prior consultation with **puraDYN** repair work or any other change to the damage is executed, the right to warranty is invalidated and **puraDYN** is not bound to pay any compensation for damage. For other claims, including bodily injury based on the deficiency of the **puraDYN** filter, the legal stipulations apply.

This warranty does not cover any economic loss, including without limitation, communication expenses, towing, mechanic’s travel time and/or mileage, meals, lodging, loss of use of the engine or equipment, loss of time, inconvenience, cargo damage, overtime or any other cost or expense resulting from a defect covered by this warranty. Repairs due to an accident, misuse, alteration, misapplication, storage damage, negligence, modification exceeding **puraDYN** specifications, or improper installation are not covered by this warranty. The above-mentioned warranty and **puraDYN**’s liability will never extend beyond (the consequences of) defects in the **puraDYN** units themselves. Damage caused by other means or by third parties, such as errors during installation or by incorrect mounting of pieces or hoses, are not covered, neither by this warranty nor by product liability.

This Warranty expires if and when:

- a. The **puraDYN** units are handled without due care or in contradiction with the instructions for use, or if used for purposes other than its appropriate purpose;
- b. Cartridges other than the original **puraDYN** filter elements have been applied
- c. The defect and/or damage is a result of a natural disaster, accident, misuse, incorrect use or any other outside cause for which **puraDYN** is not liable.

Extended Warranty: An extended four-year warranty is available for **puraDYN** units. Please contact **puraDYN** Filter Technologies Inc. for additional information.

The above product warranties cover the **puraDYNs** included on the Hydraulic Batch System. All other electrical and other components included on the Hydraulic Batch System are warranted for 90 days. The Hydraulic Batch System is designed primarily to be used to clean hydraulic oils. Consultation with PFTI is required if the intended use of the Hydraulic Batch System is for any other purpose in order to obtain the above warranties.

PFTI reserves the right to change or improve the design of any PFTI product without assuming any obligation to modify any PFTI product previously manufactured.

EXCEPT AS STATED ABOVE, PFTI SHALL NOT BE LIABLE IN CONTRACT, TORT, STRICT LIABILITY OR NEGLIGENCE FOR ANY DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR BREACH OF ANY WRITTEN OR IMPLIED WARRANTY. PFTI NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR PFTI ANY OTHER LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. EXCEPT FOR THE EXPRESS WARRANTY STATED ABOVE AND ANY WARRANTY IMPLIED BY LAW, THERE ARE NO WARRANTIES EXPRESSED OR IMPLIED.



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United Kingdom
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Fax: (44) 1392 824189

Packed by: _____	Date: _____
Inspected by: _____	Date: _____
Record unit serial # for future reference: _____	

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