



## 6.0L Powerstroke Turbo Diesel Coolant Filter Kit



# INVENTORY

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## Clamps & Bolts

- 6 each – 3/8" Hose Clamps
- 2 each – 5/8" Hose Clamps
- 2 each – 9/16" Bolts, Lock washer, Nut



## Filter Plate

- 1 each – Filter Plate



## Coolant Filters

- 3 each – Baldwin B5134



## Hose

- 5.0 feet – 3/8" Coolant Hose



### Mounting Bracket

1 each – 6L PSD T-304 Stainless Steel Mounting Bracket



### Port Plugs

2 each – 11/16" Port Plugs



### Shutoff Valves

2 each – 7/8" Brass Shutoff Valves with threaded extension



### T-Fittings

1 each – Brass T-Fitting (High Side Hose - Larger)

1 each – Brass T-Fitting (Degas Bottle Return Line – Smaller)

Note: These have been upgraded to a light weight FORD approved Plastic Water Heater T-Fitting

# TOOLS REQUIRED

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- 9/16" Socket (Shallow)
- 9/16" Socket (Deep)
- 11mm Socket (Deep)
- 12mm Socket (Deep)
- 7/8" Wrench
- 9/16" Wrench
- 11/16" Wrench
- 10mm Wrench
- Crescent Wrench
- Flat Head Screwdriver
- Pipe Cutter
- Towels
- 1-2 Gallons of Additional Coolant  
*\*Coolant must be purchased from Ford or an authorized Motorcraft Dealer*

## Note:

Let the truck cool overnight, release pressure from degas bottle and let sit 20 minutes.

Then screw the cap back on the degas bottle.

This seals the system so when you cut the large line only the fluid in the line runs out. After that there is a much smaller burp of fluid as air gets into the system.

## DISCLAIMER OF LIABILITY

dfuser Performance Diesel Products, its distributors and dealers (hereafter **MANUFACTURER**) shall in no way be responsible for the product's improper use, installation, and service of 6L Coolant Filter Kit (hereafter **AFTERMARKET PART**). THE BUYER HEREBY WAIVES ALL LIABILITY CLAIMS.

The **BUYER** acknowledges that he/she is responsible for acquiring written approval from **Ford Motor Company** to attain warranty status prior to installation of this **AFTERMARKET PART**. Should **Ford Motor Company** deny and end **BUYER's** warranty prior to expiration date due to installation of this **AFTERMARKET PART**, the **BUYER** waives all legal rights and actions against the **MANUFACTURER**.

The **BUYER** is responsible to fully understand the capability and limitations of his/her vehicle according to **Ford Motor Company** specifications and agrees to hold the **MANUFACTURER** harmless from any damage resulting from failure to adhere to such specifications. The **BUYER** is responsible for the improper installation of this **AFTERMARKET PART** according to instructions listed in the manual and holds the **MANUFACTURER** harmless from any damage resulting from **BUYER's** negligence.

The **MANUFACTURER** disclaims any warranty and expressly disclaims any liability for personal injury or damages. The **BUYER** acknowledges and agrees that the disclaimer of any liability for personal injury is a material term for this agreement and the **BUYER** agrees to indemnify the **MANUFACTURER** and to hold the **MANUFACTURER** harmless from any claim related to the item of the equipment purchased. Under no circumstance will the **MANUFACTURER** be liable for any damages or expenses by reason of use or sale of this **AFTERMARKET PART**.

The **BUYER** is responsible to obey all applicable federal, state and local laws, statutes, and ordinances when operating his/her vehicle, and the **BUYER** agrees to hold **MANUFACTURER** harmless from any violation thereof.

The **MANUFACTURER** assumes no liability regarding the improper installation or misapplication of its **AFTERMARKET PART**. It is the **BUYER's** responsibility to check for proper installation and if in doubt, contact the **MANUFACTURER**.

# INSTALLATION INSTRUCTIONS

Average Installation Time: 1 Hour

Please let engine cool and remove Degas Bottle cap for 20 minutes

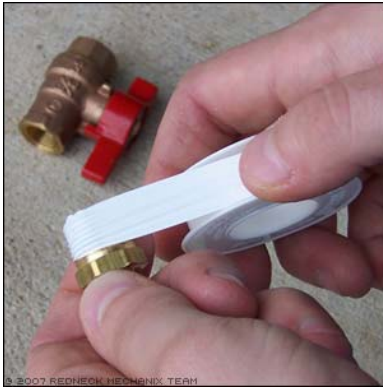


FIG 1.1



FIG 1.2



FIG 1.3

## Step 1 - Attaching Valves, Nipples and Port Plugs



FIG 1.2a

1. Using the included Teflon Tape, wrap Teflon around all threads of the (FIG 1.1):

- Brass T-Pipe Fitting **except** for the 1-piece T-Pipe Fitting for the Degas Bottle return line.
- 7/8" Brass Shutoff Valve Nipples
- 7/8" Brass Extension shaft.

2. After threads are wrapped, hand tighten the 2-Brass Threaded Extensions into the 2-Brass Shutoff Valves (FIG 1.2), the 2-Brass Nipples into the opposite side of the 2-Brass Shutoff Valves (FIG 1.2).

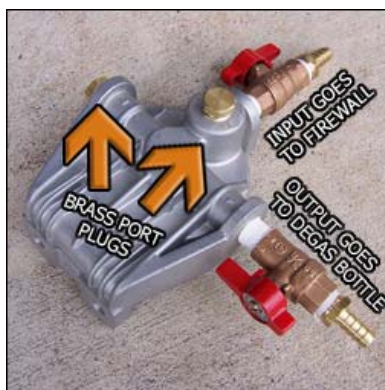


FIG 1.3a

3. Attach the 2-Brass Shutoff Valves to the Filter Mount Assembly; insure that you attach them to the correct ports (FIG 1.3a). Also attach the 2-Brass Port Plugs to the remaining holes (FIG 1.3a). Using an 11/16" wrench, tighten the Port Plugs. Place a crescent wrench on the Shutoff Valve next to the Nipple and tighten down the Brass Extension by turning the Shutoff Valve, then attach an 11/16" wrench to the nipple and tighten the nipple to the Shutoff Valve. For easy identification, ensure the red valves are facing sideways so that when you close them, they turn upwards.

## Step 2 – Mounting Filter Bracket to Vehicle



FIG 2.1



FIG 2.2



FIG 2.3

1. Locate the Intercooler Bracket on the Passenger side and remove the Positive Battery Clip, simply push it off (**FIG 2.1**).

2. Using a 10mm wrench, loosen the Intercooler Bracket nut (**FIG 2.2**). This is a one piece set; the bolt and nut are welded together. It will loosen as you turn the wrench.

3. Slide the Filter Mount Bracket between the bushing and the Intercooler Bracket (**FIG 2.3**). The bracket should go between the notch in the rubber bushing and the metal Bracket of the Intercooler (**FIG 2.3a**) and tighten down using the 10mm wrench.

4. Place the Strut Brace inside the Bracket and slide the 9/16" Bolt through the Bracket and Strut Brace (**FIG 2.3b**). Pull back the Rubber Cover (**FIG 2.3c**) and slide the washer and nut onto the 9/16" Bolt and hand tighten it.

5. Using a 9/16" Deep Socket and 3" Extension place it down under the Rubber Cover to tighten the nut and a 9/16" Open End wrench on the bolt head (**FIG 2.3d**). Tighten until support rod starts to impinge on the bracket. *You may see the washer start to impinge into the back of the brace, this is normal.*

### NOTICE

For ease of installation, it's recommended to remove your Passenger Side battery and Intercooler Hose.



FIG 2.3a



FIG 2.3b



FIG 2.3c



FIG 2.3d

### Step 3 – Mounting Filter Plate



FIG 3.1

**NOTICE:** Due to redneck nature the 9/16” bolts should be placed through the bracket facing the opposite direction. The nut should be on the inside of the mounting bracket, not by the Filter.

1. Place the 9/16” Bolt through the Filter Plate and Mounting Bracket (**FIG 3.1** – See note above).

2. Using a 9/16” Open End wrench and a 9/16” Shallow Socket tighten the bolts for the Filter Plate to the Mounting Bracket (**FIG 3.2**).



FIG 3.2

## Step 4 – Mounting T-Fitting in High Side Hose



FIG 4.1



FIG 4.2



FIG 4.3



FIG 4.4

**NOTICE:** Be advised that this part is VERY MESSY! It is recommend placing as many towels down as you can, mark your cut spots and have everything ready to cut and mount. Make sure that you set the nipple straight up so that the coolant will not continue to pour once you place the T-Fitting in.

1. Place T-Fitting on High Side hose that is located next to the Transmission Dipstick (on Automatics) so that you can mark your cuts using a sharpie (**FIG 4.1 and 4.2**). At this point place as many towels as you can under the hose.
2. Using a Pipe Cutter make your two cuts very quickly and place the T-Fitting on with the 3<sup>rd</sup> Nipple facing straight up.
3. Take the 3/8" Hose and connect it to the 3<sup>rd</sup> Nipple facing straight up and route it to the Intake Port on the Filter Plate (reference **FIG 1.3a** on Page 5). Cut the hose end and using a 5/8" Hose Clamp tighten down to the Intake Port nipple.
4. Using a 5/8" Hose Clamp, tighten the hose on the 3<sup>rd</sup> Nipple (High Side hose) that is facing upwards. Once you tighten that clamp, rotate the T-Fitting 45 degrees towards the passenger side (**FIG 4.4**). Attach the 2-5/8" Hose Clamps to the hose and tighten down.

## Step 5 – Mounting T-Fitting in Degas Bottle Return Line



FIG 5.1



FIG 5.2



FIG 5.3

1. Attach remaining 3/8" hose to the Output Port on the Filter Plate (reference **FIG 1.3a** on Page 5) and tighten down with a 5/8" hose clamp.
2. Route hose over Fan Shroud (**FIG 5.1**) towards the Degas Bottle Return Line (**FIG 5.2**). During this install we pick the path with the least resistance or twist. You can move the Output line further up if you wish.
3. Cut the factory Degas Bottle line in half and attach the 3/8" solid T-Fitting and 2-3/8" Hose Clamps.
4. With the remaining 3/8" Hose from the Output Port on Filter Plate, cut excess hose off and attach to the T-Fitting with the remaining 3/8" Hose Clamp.

## Step 6 – Mounting Filter



1. Remove black plug in center of the Filter.
2. Using Oil, Silicon (in our case) or any types of Liquid Lubricant. Lubricate the O-Ring just as you would an Oil Filter for a gas engine and screw on to Filter Plate.

**YOU'RE DONE!**

You have finished install the  
Dfuser Diesel Coolant Filter Kit

## **Filter Change Intervals**

In order to successfully filter the existing grime that is in your current coolant, it is required that you cycle your filters in the following intervals. Upon removal we recommend cutting open (safely!) your filters to see how much grime you have removed from your system.

**1st Filter**  
**500 miles**

**2nd Filter**  
**1,000 miles**

**3rd Filter**  
**6 months**

**After the 3rd Filter, change your filters once per year!**

## **Contact Information**

Should you have any questions, complaints, requests, or comments you can contact DFUSER Performance Diesel or the Redneck Mechanix Team.

### **DFUSER Performance Diesel**

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