



Auxiliary Transmission Filter Kit *Designed For 6.0/7.3L Ford Powerstroke Trucks*

Part #	Vehicle	Application	Type
1064012	Ford	1989-1997	E40D

The BD Remote Filter Kit will provide added security for your performance transmission. Oil normally flowing from the Torque Converter directly to the lube circuit will be filtered for extra protection and allow for easy filter replacements.

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

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Kit Contents (1064012) E40D Kit Contents

<p>1604120 Filter Head</p>	<p>1604123 Filter Head Adapter Bracket</p>	<p>1604008 Oil Filter</p>	<p>1604019 3/8" NPT x #8 ORB 90° Fitting</p>
			
<p>Qty: 1</p>	<p>Qty: 1</p>	<p>Qty: 1</p>	<p>Qty: 2</p>
<p>1604017 Oil Filter Bracket (E40D)</p>	<p>1604018 5/16" Hose x 3/8" NPT Fitting</p>	<p>1100111 1/4" Flat Washer</p>	<p>1100112 1/4" Lock Washer</p>
			
<p>Qty: 1</p>	<p>Qty: 2</p>	<p>Qty: 2</p>	<p>Qty: 2</p>
<p>1604124 Filter Head Adapter Screw</p>	<p>1110031 5/16" Flat Washer</p>	<p>1604102 8mm Lock Washer</p>	<p>1604104 5/16" x 1NC Bolt</p>
			
<p>Qty: 2</p>	<p>Qty: 3</p>	<p>Qty: 3</p>	<p>Qty: 3</p>
<p>1604031 5/16" Transmission Hose</p>	<p>1330149 Hose Clamp</p>	<p>1300131 Medium Tie Wrap</p>	
			
<p>Qty: 4 ft</p>	<p>Qty: 3</p>	<p>Qty: 3</p>	

Required Tools

- Set of combination wrenches
- Various screw drivers and Pliers
- Pipe cutter
- Drain pan

Filter Cross Reference

Company		Crossover P/N#
	Hastings	LF364
	Baldwin	BT230
	Donaldson	P555570
	Fleetguard	LF3342
	Fram	PH3519
	Luber-Finer	LFP5570
	WIX	51268

BD Engine Brake Inc.

Plant Address: Unit A10, 33733 King Rd, Abbotsford, BC, Canada V2S 7M9

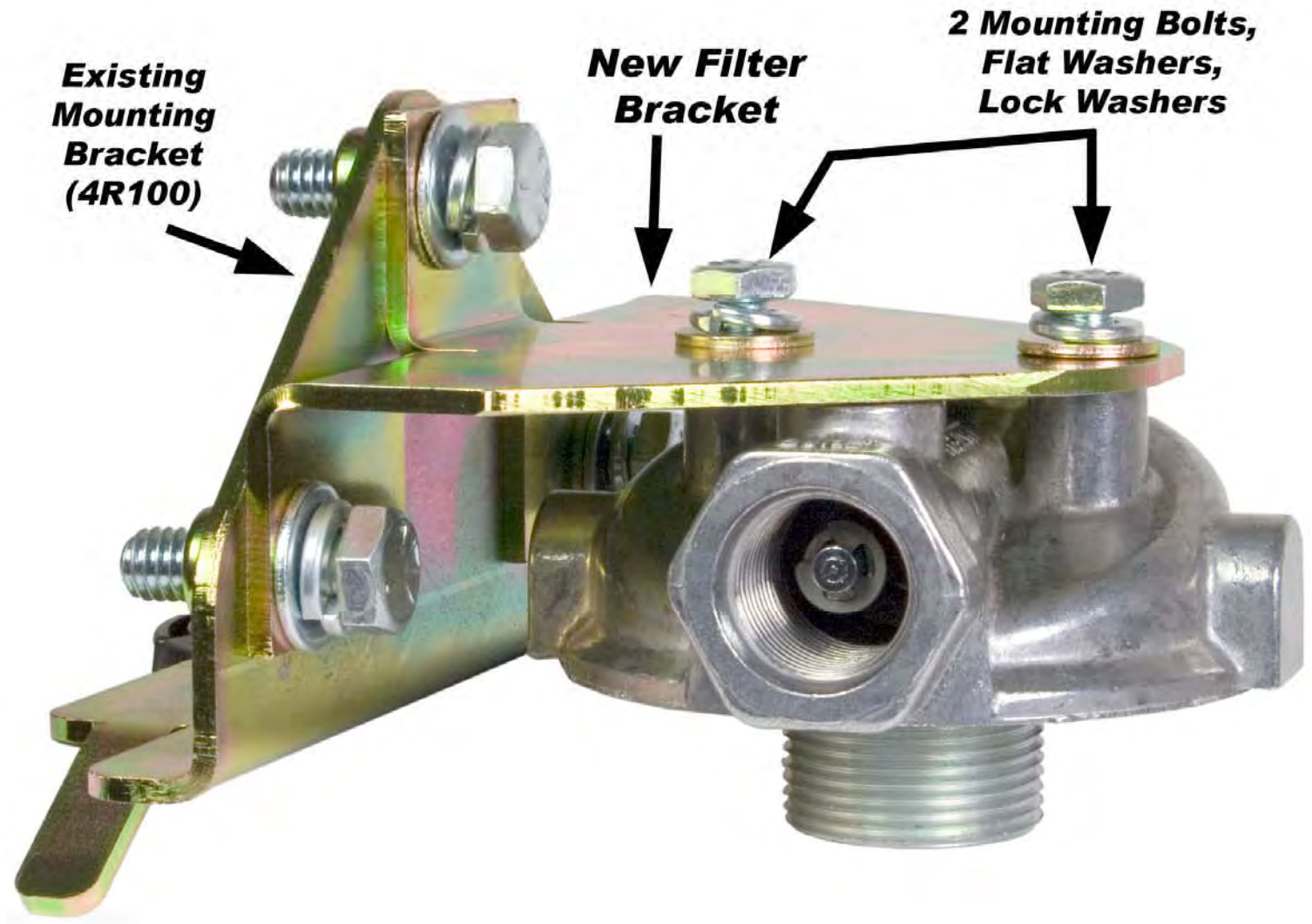
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Installing Filter Head Adapter Bracket

As of March 1st, 2007, due to a change in the design of the filter head, the addition of a filter head adapter bracket has been included all kits to use the pre-existing mounting brackets.

Two mounting bolts (1604124), 2 flat washers (1110031) and 2 lock washers (1604102) have been included to fasten the filter head to the adapter bracket.



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FILTER HEAD INSTALLATION

Locate and remove the two bolts on the passenger side of the radiator support between the battery and radiator with a 10 mm socket.

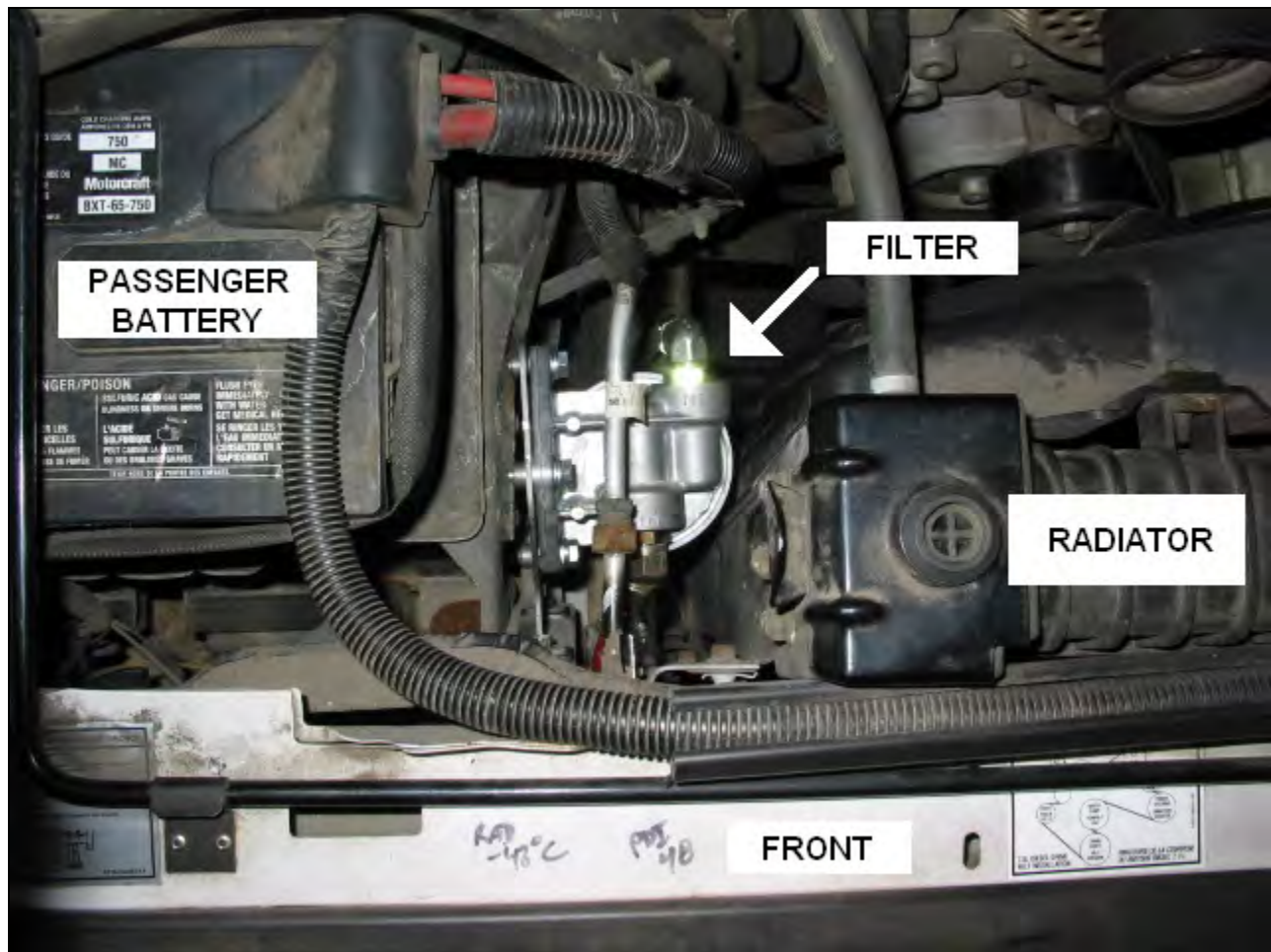
Install the filter head mounting bracket reusing the factory bolts.

Install the two barb fittings into the 90° ORB fittings, and then install the two 90° ORB fittings into the inlet and outlet of the filter head.

When installed, the fittings need to point in a downward direction towards the filter. Twist the fitting in until the O-ring gets as close as possible to the filter head, then by holding the fitting, tighten the jamb nut.

Install the supplied hose onto the barb fitting of the **outlet** and secure with a hose clamp.

Install the filter head on to the bracket with the supplied bolts leaving the filter off at this point, as it will be installed later.



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COOLER LINE INSTALLATION

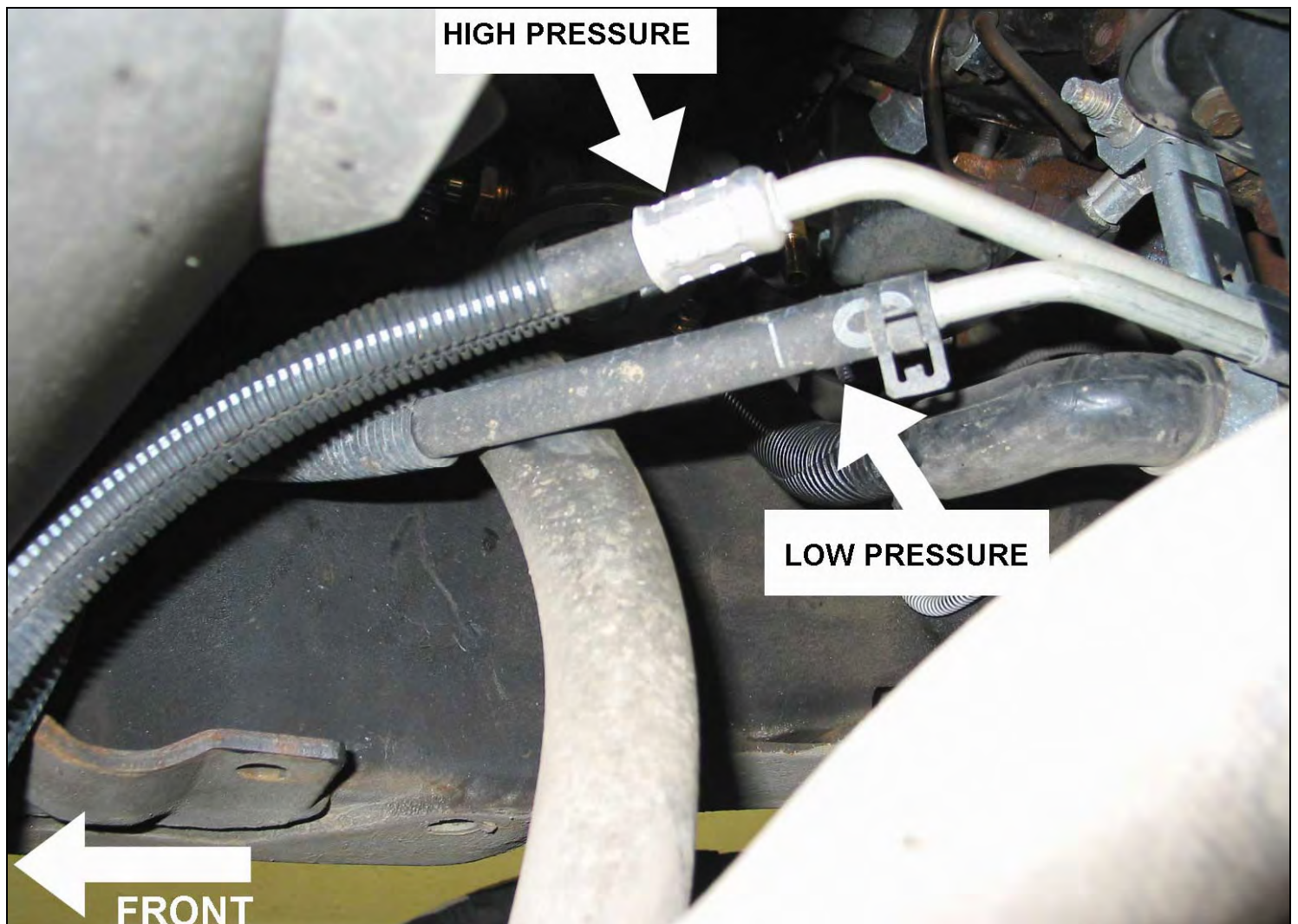
Locate and identify the oil cooler lines coming from the transmission and cooler / radiator.

Position a drain pan under these lines and, with a pair of pliers, loosen the spring clamp and remove the hose from the low pressure (return) line.

Remove the spring clamp from the hose and install the supplied worm screw style hose clamp.

Insert the low pressure (return) hose onto the barbed elbow fitting of the inlet side of the filter housing. NOTE: The rubber hose may have to be cut to remove any excess.

Tighten the hose clamp to secure.



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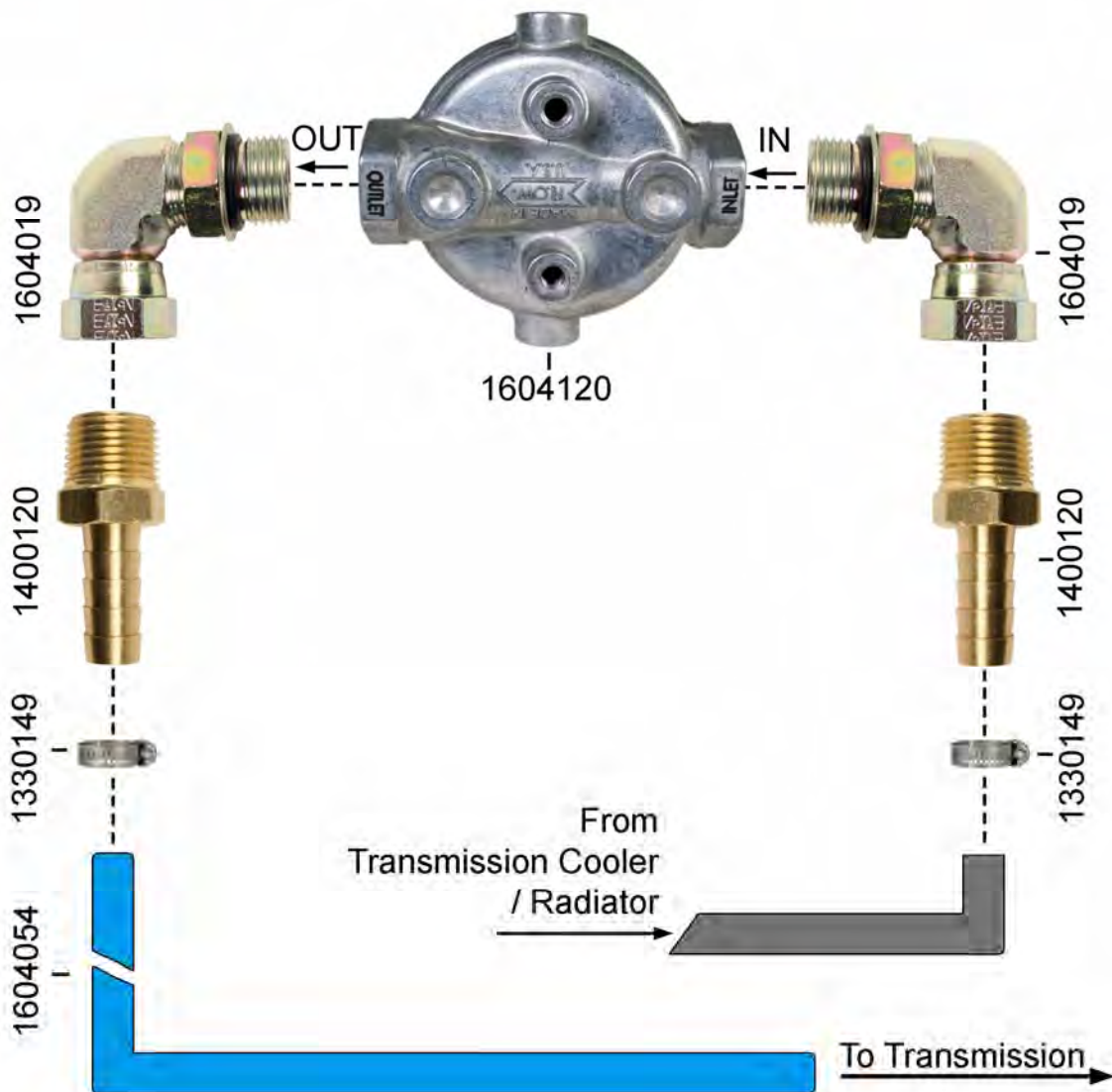
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Push a hose clamp over the outlet hose from the filter and attach the hose to the straight fitting just installed on the steel line, cutting any excess hose. Tighten the hose clamp.

NOTE: *Ensure that any hoses and tubes are positioned clear of moving parts and secure them with tie straps and/or securing clamps provided.*

COOLER HOOK-UP DIAGRAM



FILTER ELEMENT INSTALLATION

Lubricate the oil filter seal with some fresh transmission fluid and install the oil filter onto the filter head.

Once the rubber seal has contacted the mating surface of the filter head, tighten the oil filter an additional $\frac{1}{4}$ to $\frac{1}{2}$ turn.

**** CAUTION: DO NOT USE A FILTER WRENCH TO TIGHTEN FILTER ELEMENT. DO NOT OVER-TIGHTEN FILTER. ****

FLUID LEVEL

Lower the vehicle and start the engine. Check for fluid leaks and proceed with a check of the transmission fluid level. Top up as necessary.

Questions?

If you experience any problems or difficulties, please contact the BD Technical Department at (800) 887-5030 or fax at 1-604-853-8749, between 8:00am and 4:30pm Pacific Time.

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