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Auxiliary Transmission Filter Kit

Designed For 7.3L Ford Powerstroke Trucks

Part #	Vehicle	Application	Type
1064013	Ford	1999-2003	4R100

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 *thru the LFP5570/ transmission filter that is rated at 98% efficient at 25 micron* for extra protection and allow for easy filter replacements.

Does not work on dual alternators on a 7.3L, call BD for options.

READ ALL INSTRUCTIONS CAREFULLY BEFORE INSTALLATION

BD Engine Brake Inc.

Plant Address: 33541 MacLure Rd. Abbotsford, BC, Canada V2S 7W2

U.S. Shipping Address: 88-446 Harrison St, Sumas, WA 98295 U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

Phone: 604-853-6096 | Fax: 604-853-8749 | Internet: www.bd-power.com

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4R100 Transmission Filter Kit Contents

1604121	1604026	1604008	1604019
Filter Head	Filter Head Mounting Bracket	Oil Filter	3/8" NPT x #8 ORB 90° Fitting
			
Qty: 1	Qty: 1	Qty: 1	Qty: 2
1604053	1400120	1600034	1600035
3/8" Transmission Hose	3/8" NPT x 3/8" PO Fitting	Bypass Tube Eliminator (Frt)	Bypass Tube Eliminator (Rear)
			
Qty: 15" (inches)	Qty: 2	Qty: 1	Qty: 1
1604124	1100111	1100112	1030099
Filter Head Adapter Screw	1/4" Flat Washer	1/4" Lock Washer	8mm x 1.25mm x 25mm Bolt
			
Qty: 2	Qty: 2	Qty: 2	Qty: 1
1505001	1300131		
Hose Clamp	Medium Tie Wrap		
			
Qty: 3	Qty: 3		

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

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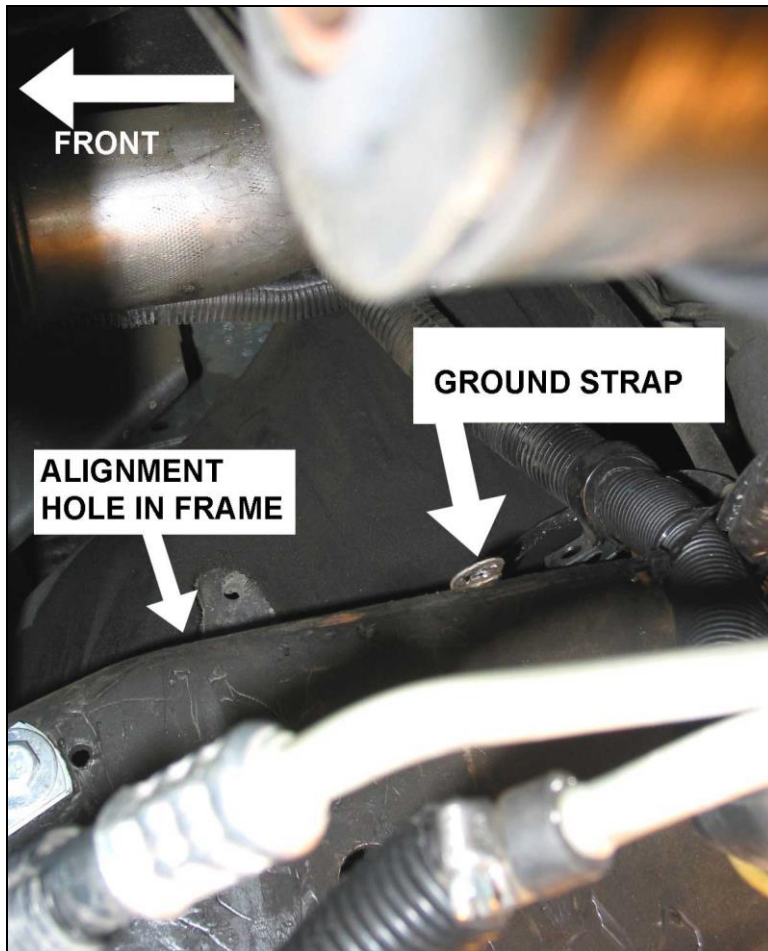
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Installation

FILTER HEAD INSTALLATION

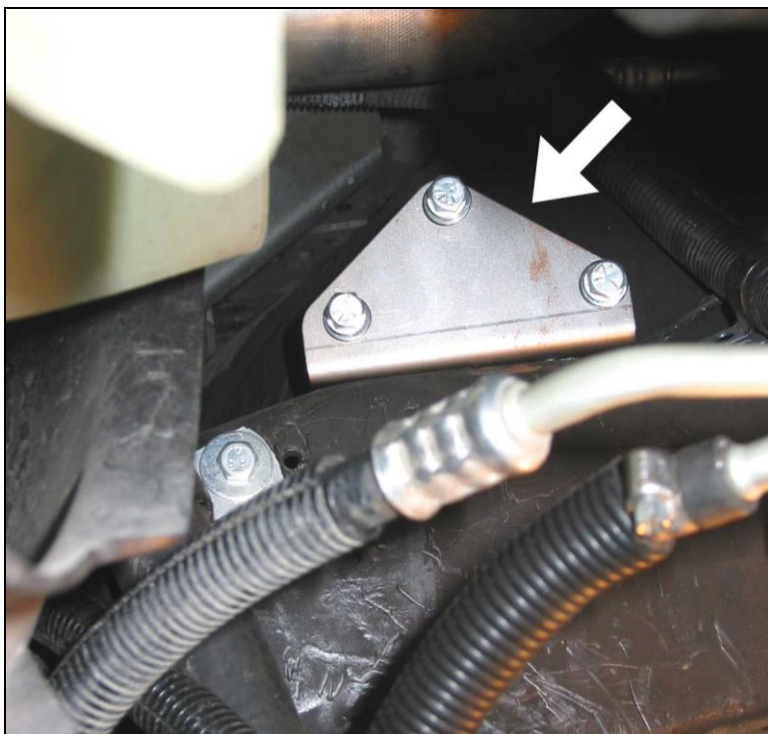


Raise the vehicle on a hoist or safety stands to gain access to the passenger side of the engine area.

Locate the ground strap located on top of the right hand frame rail just behind the radiator.

Remove the mounting bolt holding the ground strap to the frame.

You can see from above that there is a pre-drilled hole just in front of this mounting hole.



Position the filter mount by placing the tab of the mount into this hole then insert the ground strap bolt and ground strap in the mounting hole of the filter mount and tighten the bolt.

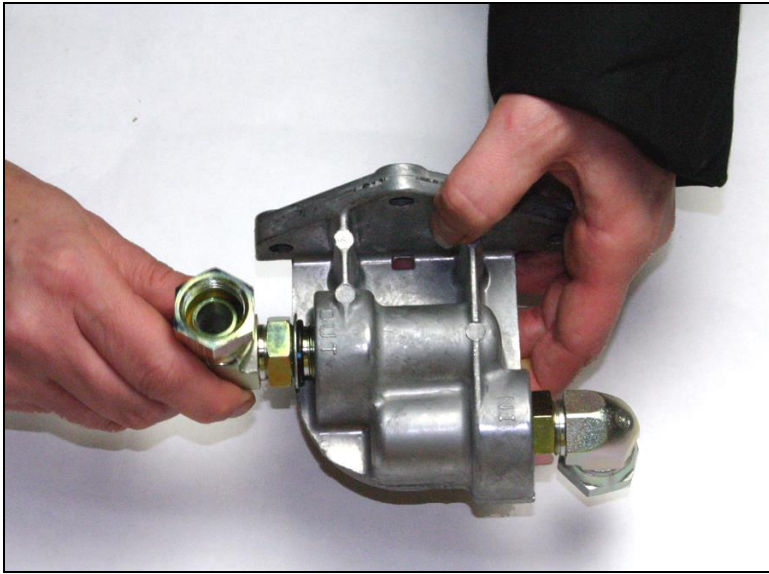
NOTE: The mount will have a small amount of play to aid in alignment of the mount hole.

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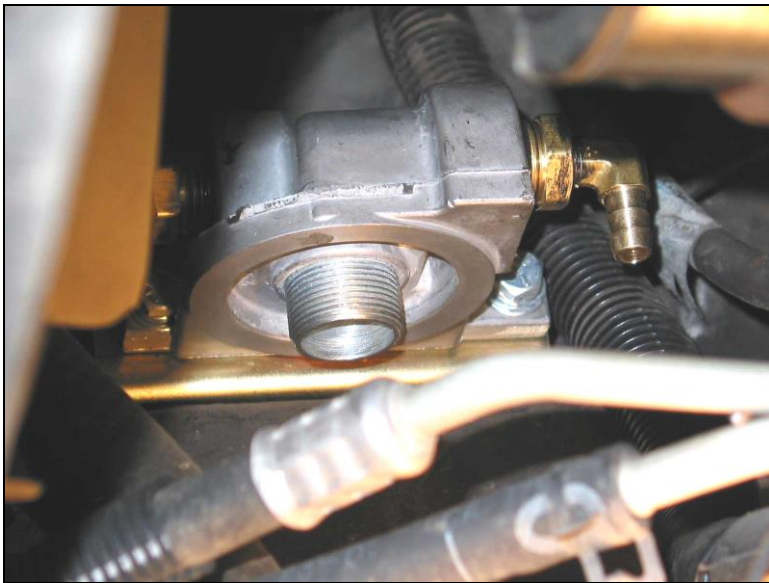
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Install the two **90° ORB fittings** into the filter head (do not use pipe sealant). When installed, the fittings need to point in a downwards direction, towards the filter. For ease of installation, we recommend assembling the fittings on the filter head on a work bench before installing it onto the vehicle.

Twist the fitting in until the o-ring gets as close as possible to the filter head, then by holding the fitting, tighten the jam nut.

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



Position the filter head on the filter mount and secure using the 3 mounting bolts and washers supplied. Leave the filter off at this point as it will be installed later.

COOLER LINE INSTALLATION

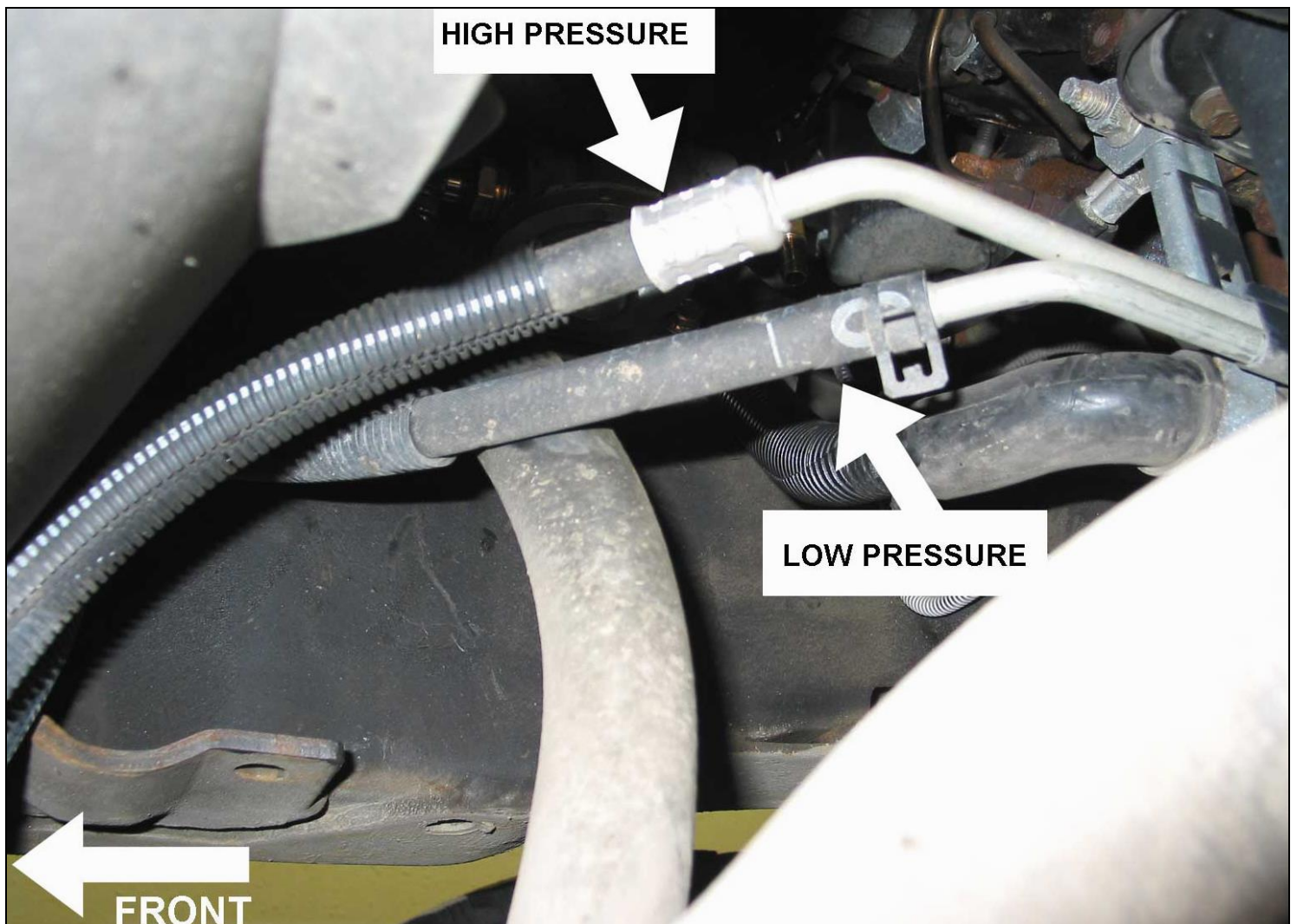
Locate and identify the oil cooler lines coming from the transmission and cooler / radiator.

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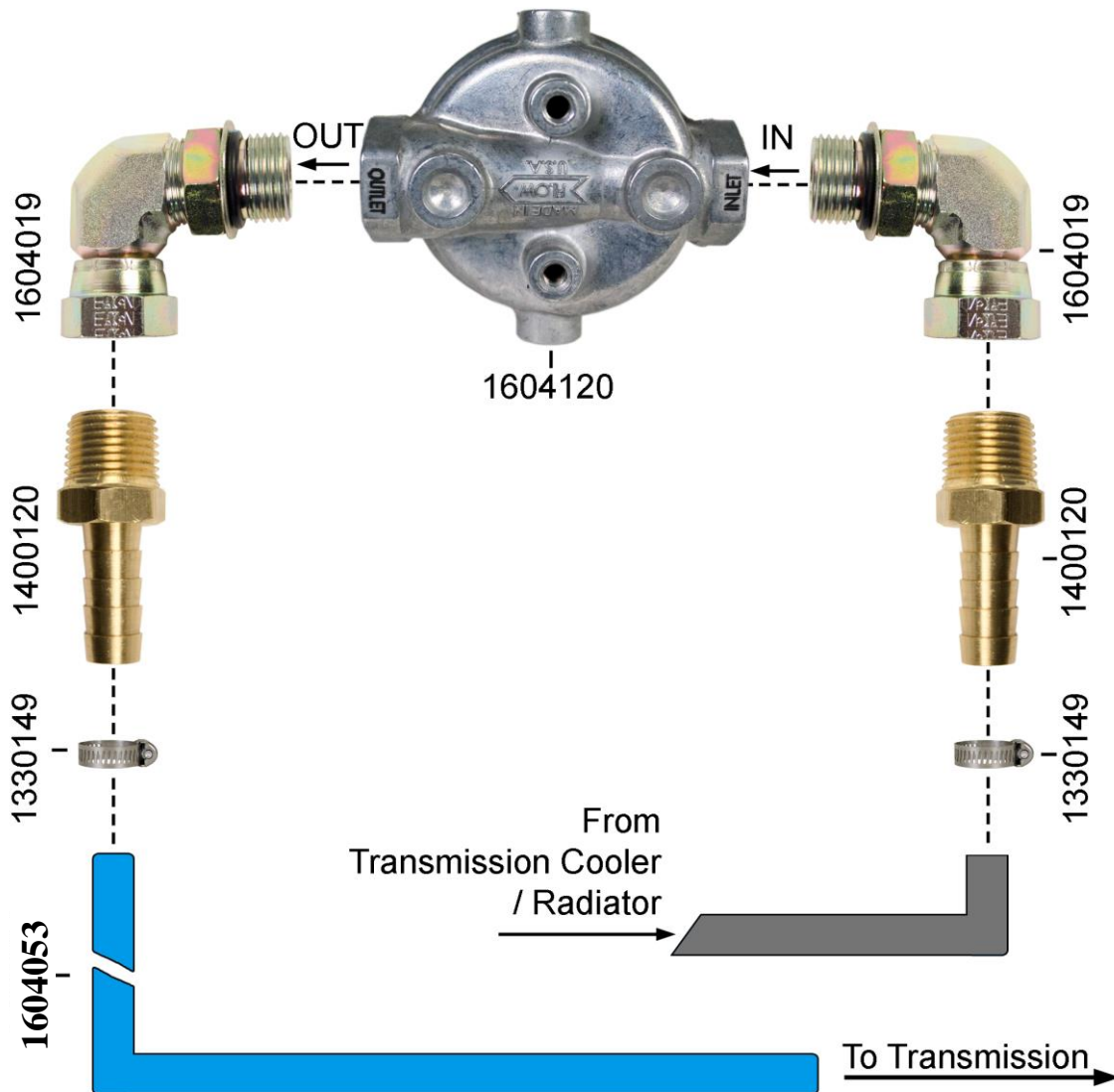
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Push a hose clamp over the outlet hose from the filter and attach the hose to the straight fitting just installed on the steel line, cutting any excess hose. Tighten the hose clamp.

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

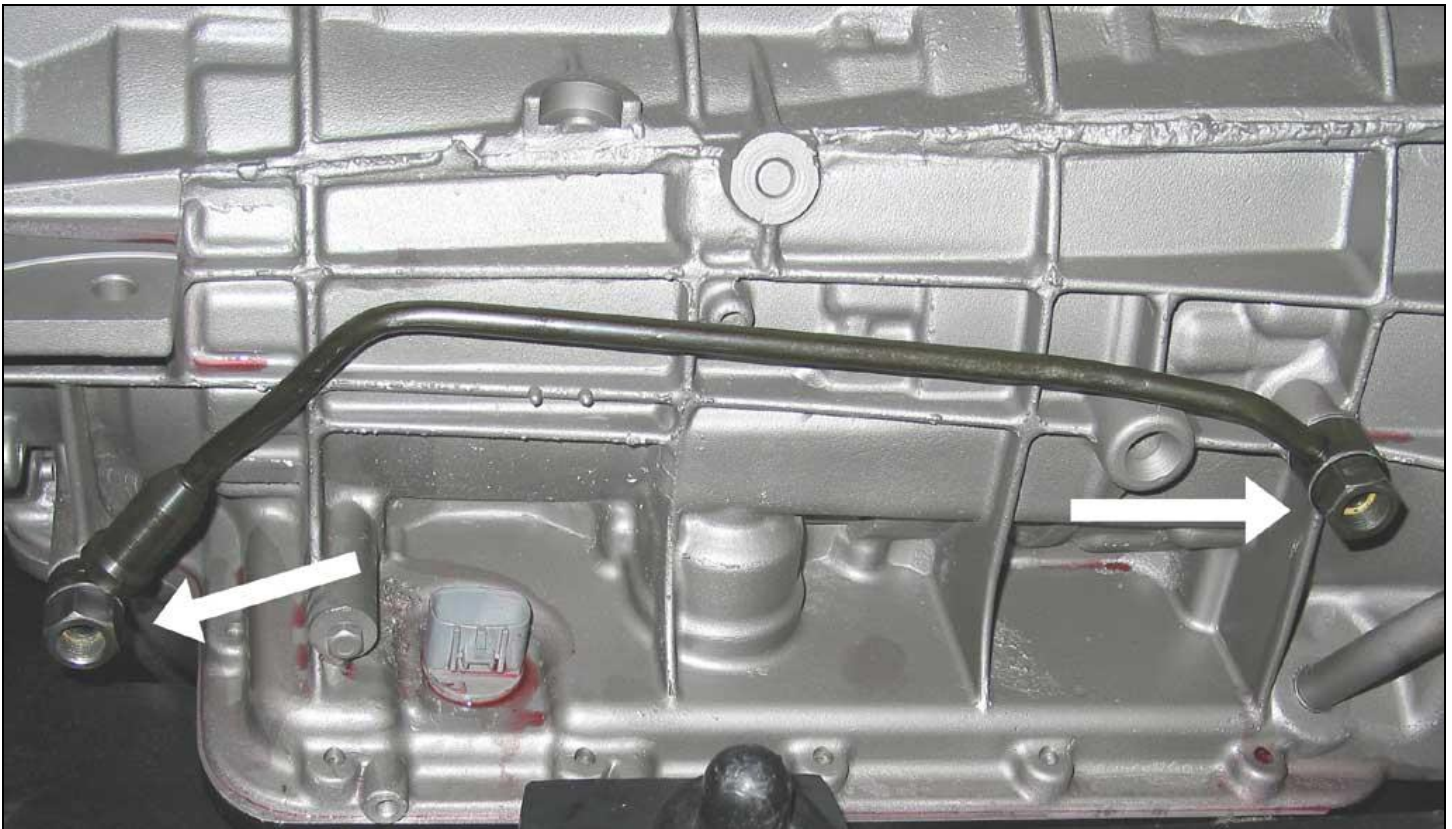
Lubricate the oil filter seal with some fresh transmission fluid and install the oil filter onto the filter head.

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. ****

COOLER BY-PASS ELIMINATOR INSTALLATION

Disconnect the transmission oil cooler lines from the oil cooler by-pass Banjo fittings, located on the passenger side of the transmission.



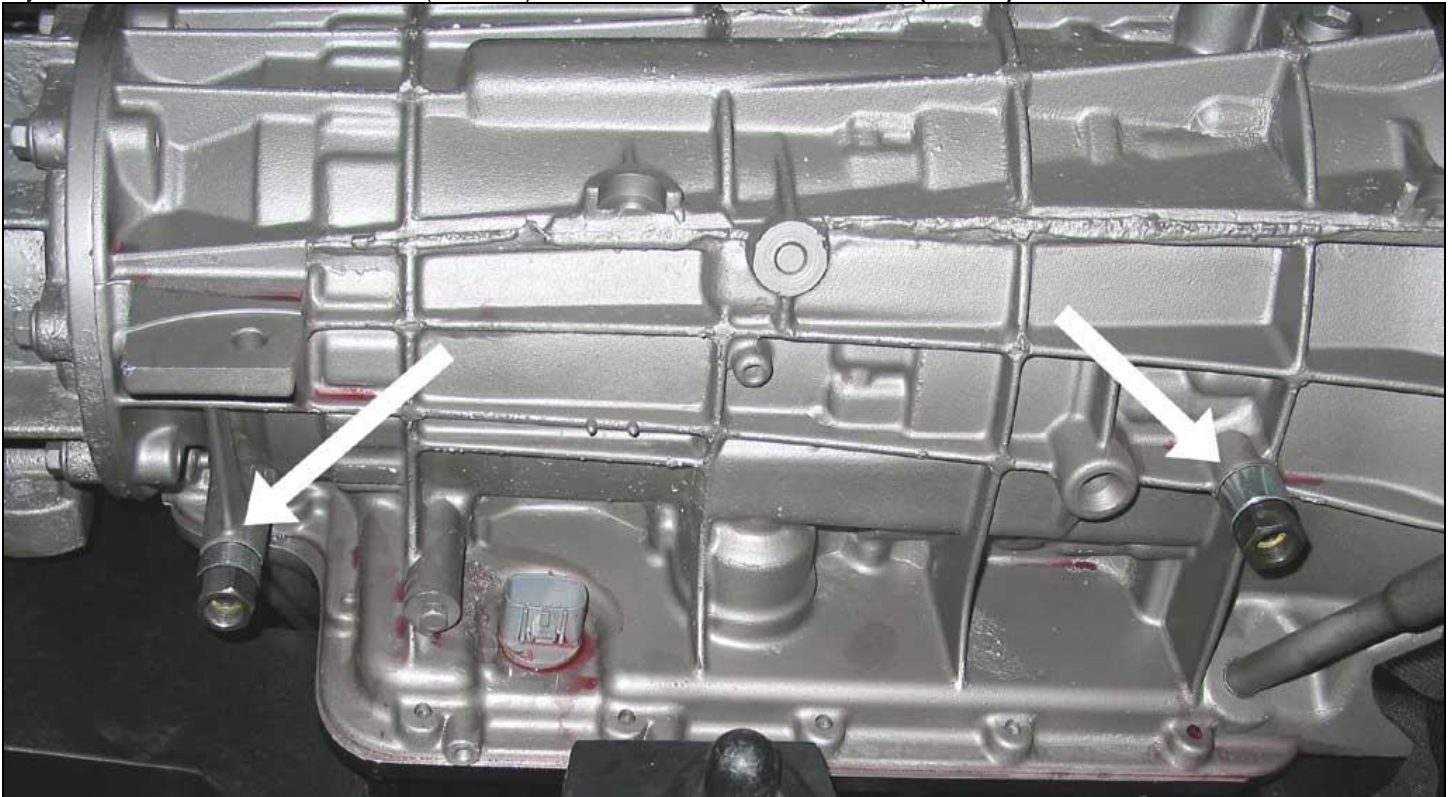
Remove the transmission cooler bypass hose by removing the two (2) Banjo bolts.

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***Install by-pass flanges in place of by-pass tube with new Banjo washers.
Re-connect the transmission cooler lines to the Banjo Fittings.***

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.