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68RFE Thermostat Bypass

Transmission Cooler Line Thermostatic Valve Bypass Kit

1061528

2013-2018 RAM Truck with 68RFE

Kit Contents

| 1300580 | 1300579 | 1453153 |
|---|--|---|
|  |  |  |
| Bypass Block Qty: 1 | Quick Connect Fitting Qty: 2 | Viton O-ring Qty: 2 |

Introduction

The stock cooler bypass valve allows transmission fluid to bypass the cooler and directly return to the transmission to quickly warm up the fluid. Debris from the transmission can jam the internal valve keeping the valve in the recirculation mode. When this happens the transmission temperature will rise and can lead to overheating and premature transmission failure.

Tools Required for Installation

- 1" open Wrench
- 15/16 or 24mm open wrench
- 20 mm open wrench
- Small flat screw driver or pick tool

BD Engine Brake Inc.

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

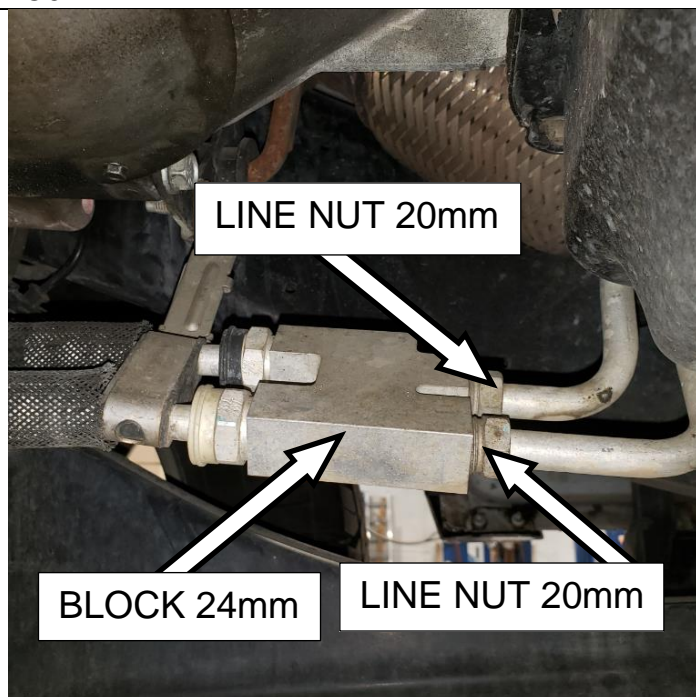
U.S. Shipping Address: 1124 Fir Avenue, Blaine, WA 98230 | U.S. Mailing Address: P.O. Box 231, Sumas, WA 98295

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

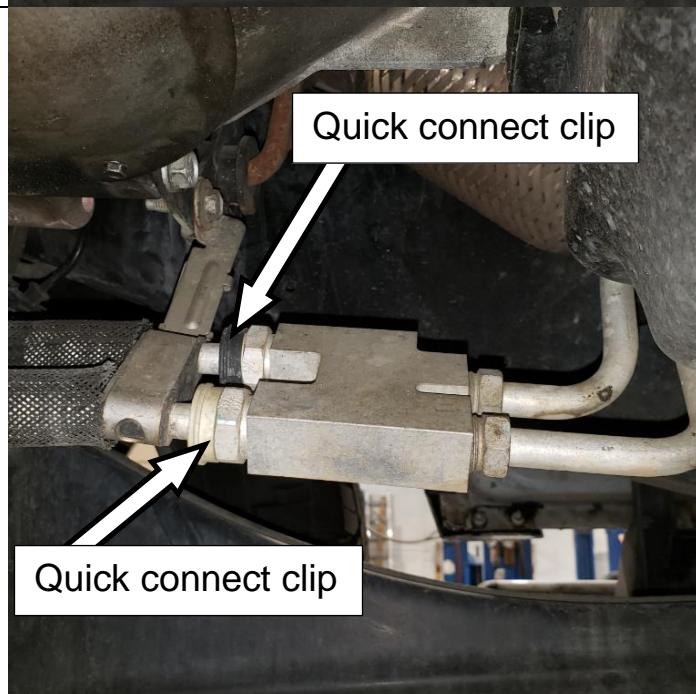
Installation

Raise and support the vehicle on a hoist or using jack stands. Place a drain pan below the work area to catch any fluid spilled.

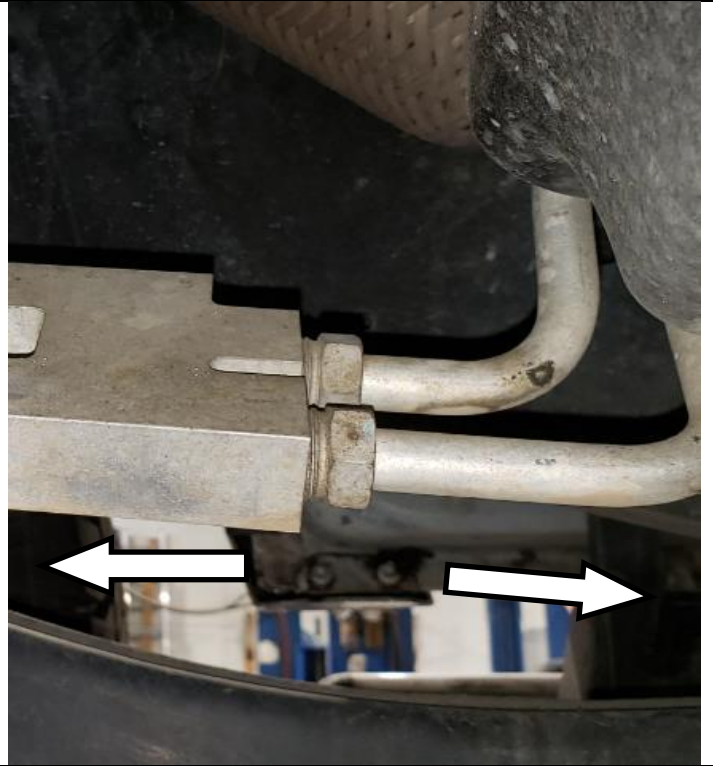
Loosen both transmission cooler line nuts using 20mm and 24mm (15/16") open wrenches and slide them back on the cooler line. Ensure to use a 24mm wrench in securing the body when removing the 20mm nut.



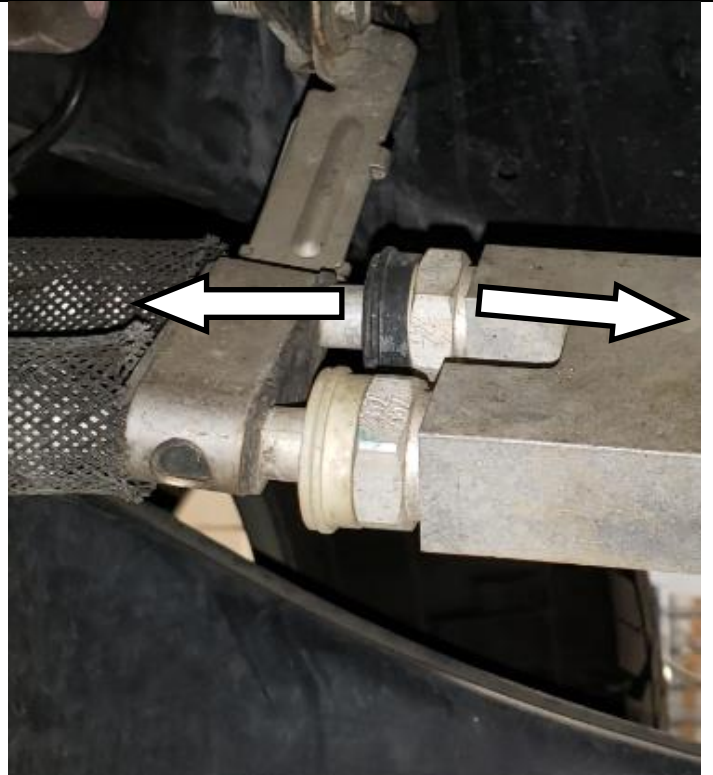
Remove both quick connect joint clips using the pick tool.



Fully remove cooler lines from cooler bypass block. Use a collection bin to collect oil.



Pull cooler bypass block off of the quick connect lines.



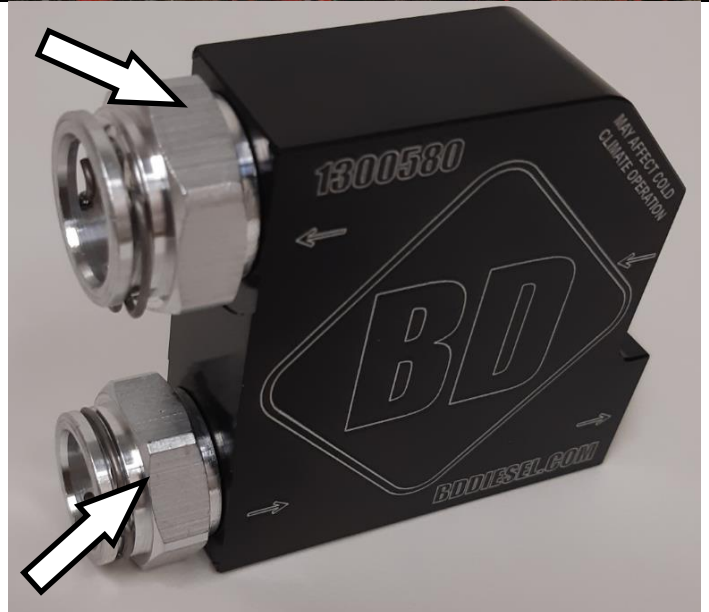
The original thermostat housing should now be removed.

Clean the ends of the lines if needed to prevent debris contamination upon reassembly.

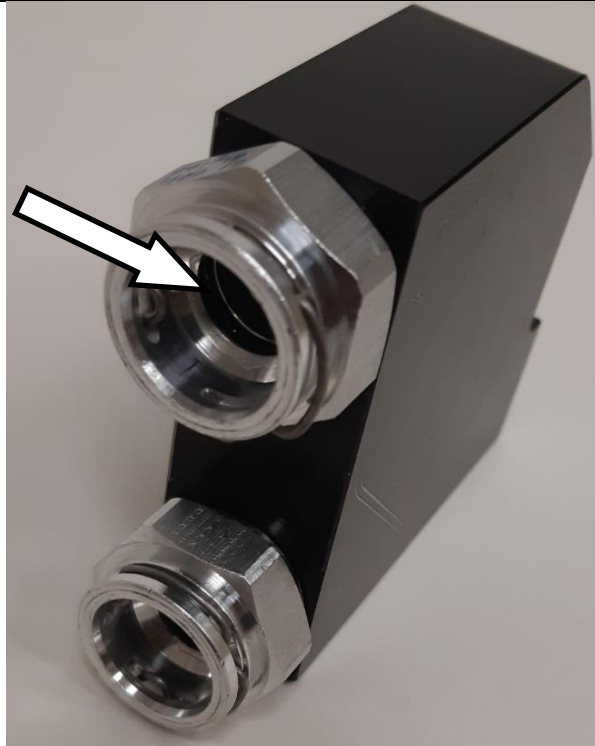


Install quick connect fittings (1300579) into BD Bypass block (1300580) using 1" and 24mm open wrench.

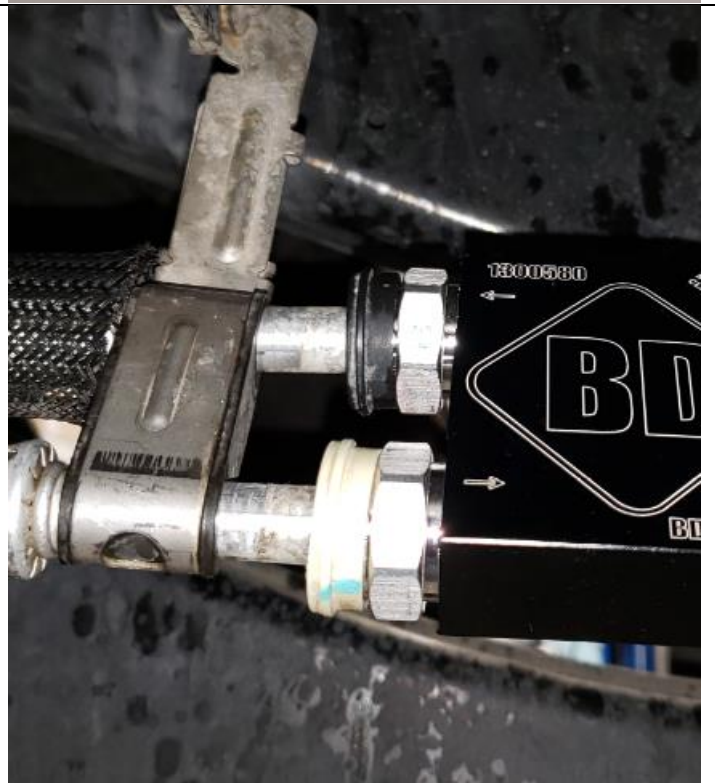
Torque Spec: 23-29 ft-lb



Lubricate the O-ring and clip using transmission oil/lubricant.



Align both quick connect ports with the transmission lines and push until the clip clicks in behind the flange on the quick connect fittings.



Inspect original O-ring on the tube, replace with supplied Viton O-ring (1453153) if damaged.

Reinstall both transmission cooler lines in to threaded end of the block and wiggle the lines and nut to start the threads. Tighten nuts 24lb-ft.

Note on some applications there will be no offset length on the cooler lines. You will need to bend the lines to accommodate for this.

Correct transmission fluid level and check for possible leakage.

