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Cooler Bypass Delete Kit

For Transmission Cooler Bypass Valve


1061532

17-19 GM Trucks

This kit includes everything needed to delete the transmission cooler bypass valve. Note that this kit only fits **2017-2019 GM trucks equipped with the L5P Duramax engine and 6-speed Allison 1000 transmission.**

May affect cold weather operation.

Kit Contents

1300584	1300578	1453159
		
Bypass Block Qty: 1	Quick-Connect Fitting Qty: 2	O-ring; -114 Viton Qty: 2

Introduction

The stock cooler bypass valve allows transmission fluid to bypass the transmission cooler and directly return to the transmission to warm the fluid quickly during cold starts. The problem is that debris from the transmission can jam the internal valve, keeping the valve in the recirculation mode. When this happens, the transmission will overheat and premature transmission failure will occur.

BD's transmission thermostat bypass valve delete kit consists of a new thermostat bypass block that removes the internal valve entirely, eliminating the risk of valve failure and increasing cooler flow in the process.

Tools Required for Installation

- 8mm socket
- 10mm socket
- Small flathead screwdriver
- Pick tool
- 10mm wrench
- 1 ¼" wrench
- Torque wrench

Installation

Ensure the vehicle is off and cool prior to starting.

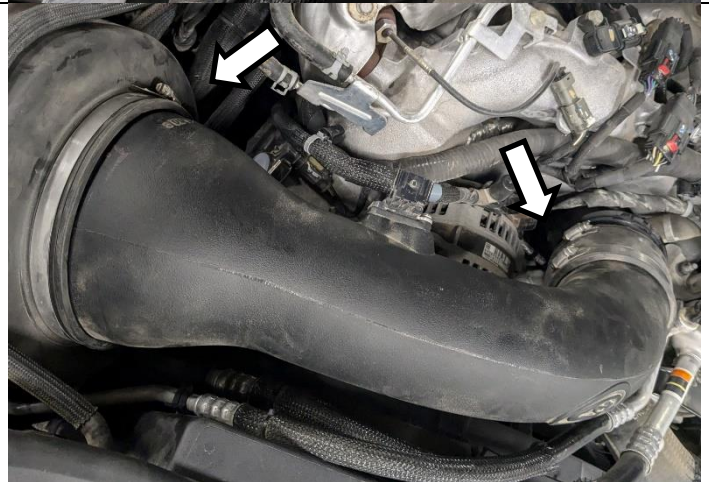
The photos below show an aftermarket intake. Removal of OEM intake may differ.

Removal

Disconnect the Mass Air Flow (MAF) sensor.



Loosen the clamps securing the intake tube to the air filter and the turbocharger inlet using an 8mm socket.



Then remove the intake tube.

Remove the air filter.



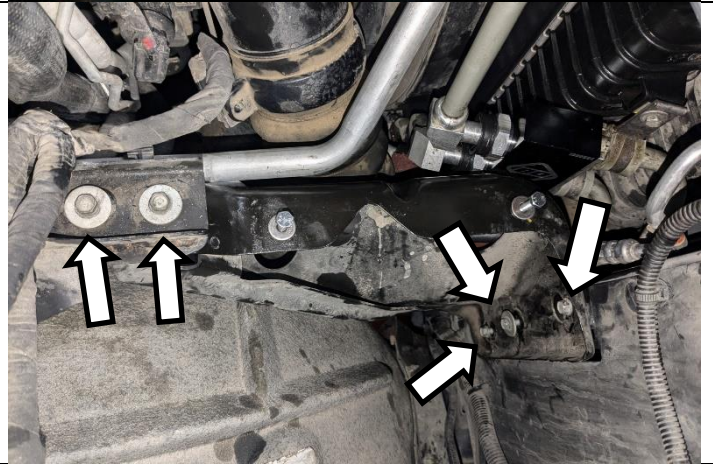
Remove the 3x air box fasteners using a 10mm socket.

Then remove the air box.



Remove the 5x lower air box support bracket fasteners using a 10mm socket.

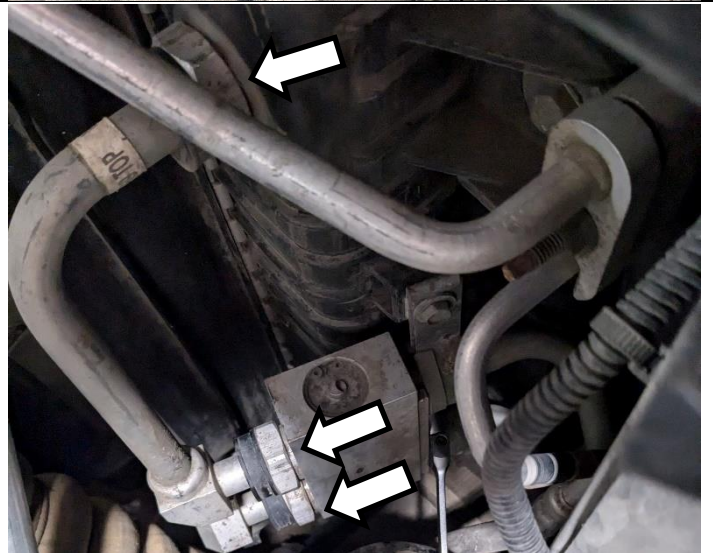
Move the bracket out of the way.



Disconnect the two quick-connect fittings on the block by first using a small flathead screwdriver to push the black cover back. Then use a pick to unlock the clip. Finally, pull back on the line to disconnect it from the block.

It may be helpful to remove the quick-connect fitting on the radiator side as well.

Note: Use a towel under the lines to absorb any spilled fluid.



Using a 10mm wrench, remove the fastener holding the retainer plate to the bypass block.

Then, remove the block. Clean the ends of the lines if needed to prevent debris contamination upon reassembly.

Note: Keep the retainer plate as it will be reused.

Note: Use a towel under the lines to absorb any spilled fluid.



Installation

Lubricate the threads on the fittings and the O-ring sealing surfaces with transmission fluid.

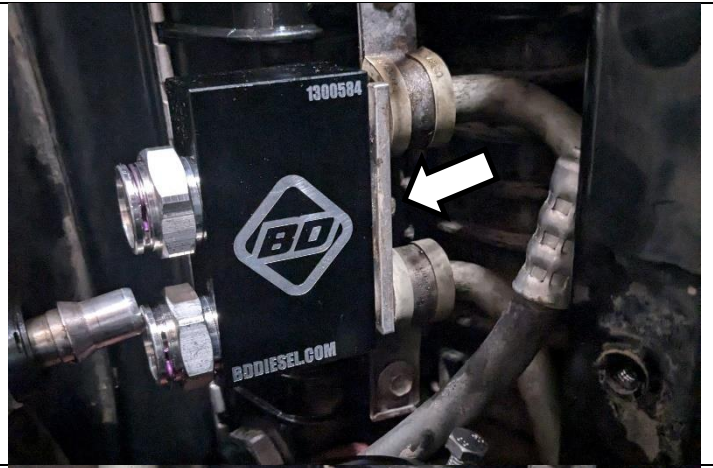


Install fittings into the BD thermostat bypass block using a 1 1/4" wrench. Torque to **44 ft-lbs.**



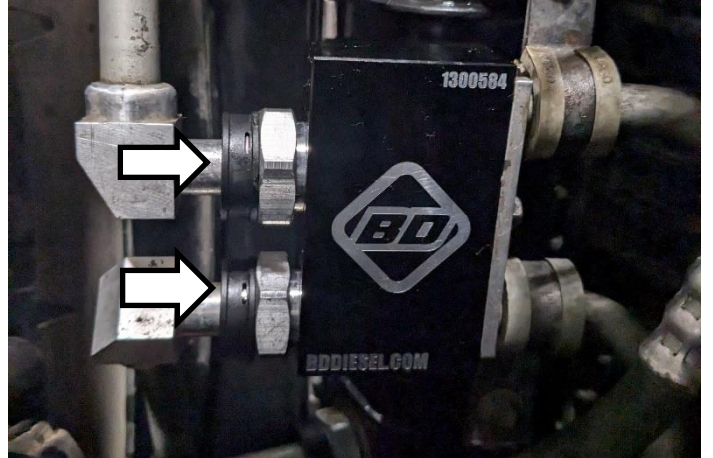
Replace the original O-rings with the supplied Viton O-rings if they are damaged.

Install the BD thermostat bypass block and secure the M6 fastener on the retainer using a 10mm socket. Torque to **9 N-m (7 ft-lbs)**.



Snap the lines into place on the other side of the block.

Snap the line that goes into the radiator into place if it was removed earlier.



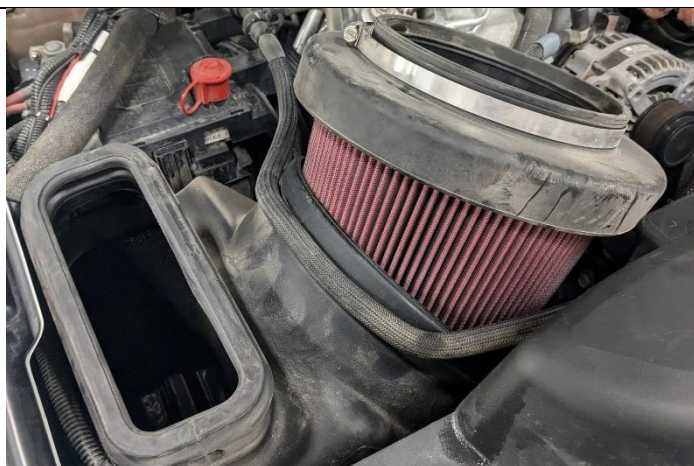
Reinstall the lower air box support bracket and the 5x fasteners using a 10mm socket. Torque to **9 N-m (7 ft-lbs)**.



Reinstall the air box and tighten the 3x fasteners using a 10mm socket. Torque to **9 N-m (7 ft-lbs)**.



Reinstall the filter.



Reinstall the intake tube. Tighten the clamps to **5 N-m (4 ft-lbs)**.

Re-connect the MAF connector.

Start the engine. Check for leaks and top off transmission fluid as needed.

