



PART NO. XD343

XDP TRANSMISSION COOLER THERMAL BYPASS VALVE (TBV) UPGRADE INSTALLATION MANUAL



CODE	DESCRIPTION	QTY
A	Bypass Block	1
B	Quick Connect Fittings	2
C	O-ring	2



BEFORE REMOVING ANY PARTS FROM YOUR TRUCK, PLEASE COMPARE THE ITEMS YOU HAVE RECEIVED WITH THE PACKING LIST PROVIDED TO VERIFY THAT YOU HAVE EVERYTHING NECESSARY TO INSTALL YOUR NEW XDP TRANSMISSION COOLER THERMAL BYPASS VALVE (TBV) UPGRADE.



BEFORE YOU BEGIN! Ensure that the vehicle has not been in use and that the engine is cool to the touch. Always wear eye protection when working on any vehicle.

- 1 Place a drain pan under the truck directly below the factory thermal bypass block.
- 2 Disconnect the two transmission cooler line nuts from the thermal bypass block and slide them back on the lines. Using a pick, remove both quick connect joint clips on the opposite side of the factory thermal bypass block. Now fully remove the transmission cooler lines from the block. (some fluid will drain) and then remove the factory bypass block from the quick connect lines.
- 3 With the factory bypass block removed, be sure to clean the ends of the transmission lines to ensure there is no debris that could get into the new block.
- 4 Install the two supplied o-rings (C) onto the two supplied quick connect fittings (B), and install them into the supplied bypass block (A). Using a 1" wrench tighten the quick connect fittings to the block.
- 5 Lubricate the pre-installed o-ring on the inside of the quick connect fittings, along with the metal clips using a small amount of clean transmission fluid, or lubricant.
- 6 Install the new bypass block to the quick connect transmission lines pushing onto the block until the clip clicks in behind the flange on the quick connect fittings. Now the transmission cooler lines can also be reinstalled to the new bypass block and tightened.

Note: some applications will not have offset length on the cooler lines. You will need to bend the lines to accommodate this.
- 7 Add transmission fluid as needed, matching the amount that drained out. Typically less than one quart should be lost during install. Start the vehicle and ensure there is no leaks.