



PART NO. XD309

## XDP X-TRA COOL DIRECT-FIT TRANSMISSION OIL COOLER

### INSTALLATION MANUAL



CODE	DESCRIPTION	QTY
A	Transmission oil cooler	1
B	Large QD adapters (22mm fits 2001-2003) - Silver	2
C	Small QD adapters (21mm fits 2004-2005) - Brass	2
D	Large top bracket	1
E	Small bottom brackets	2
F	M6 bolts	8
G	M6 Flat washers	8
H	M6 lock nuts	8



**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 X-TRA COOL DIRECT-FIT TRANSMISSION OIL COOLER.**



**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 Make sure your truck is turned off, engine is cool, and it cannot be started while installing the new transmission cooler.
- 2 Remove the plastic piece under the hood that covers the radiator. The fasteners get removed by lifting the center piece first, then pulling out the entire fastener.
- 3 Remove the grille using caution. Note that on the late models the grill snaps into place and extra care should be used when unsnapping around the headlight bezels.
- 4 Prepare your new cooler by selecting the correct set of QD adapters for your truck. (22mm for 2001-2003 models, and 21mm for 2004-2005 models.) Lubricate the inside o-rings of the adapters with a small amount of clean oil.
- 5 Some trucks are equipped with an ambient temperature sensor. If your truck has one remove it and place it to the side.
- 6 Remove the factory transmission cooler by first moving the plastic protector collar out of the way on each line, then remove each spring clip. Do not pull the lines yet.
- 7 Remove the bolts and plastic retainer on the bottom side of the cooler. Now remove the top bolts and let the cooler sit on the lines. Carefully wipe the lines clean with a rag and then use a light mallet to carefully knock the cooler lines free.
- 8 Wipe off any remaining dirt and cover the lines with a rag to keep them clean. Remove the slip nuts for use on the new bracket.

- 9** Assemble the brackets on the cooler as shown in figure 1, but do not tighten the bracket bolts yet.
- 10** Double check to make sure everything is clean. Then insert the oil lines into the cooler and double check each fitting to make sure the lines are fully inserted and the spring clips locked on both fittings.
- 11** Reinstall the top mounting bolts so they are just snug, and then install the bottom bolts.
- 12** Push the cooler into position all the way up and tighten the bottom two bolts to hold it in place. Once in place you can now tighten the 8 cooler bolts, then tighten the top bolts and check the bottom again to make sure everything is tight.
- 13** Slide the plastic cap back onto the adapters. Make sure the engine bay is free and clear to prepare to start the engine.
- 14** Run the engine for about 10 minutes and check for any leaks. If there are not leaks after 10 minutes of run time, reinstall the grille in reverse of the removal process.

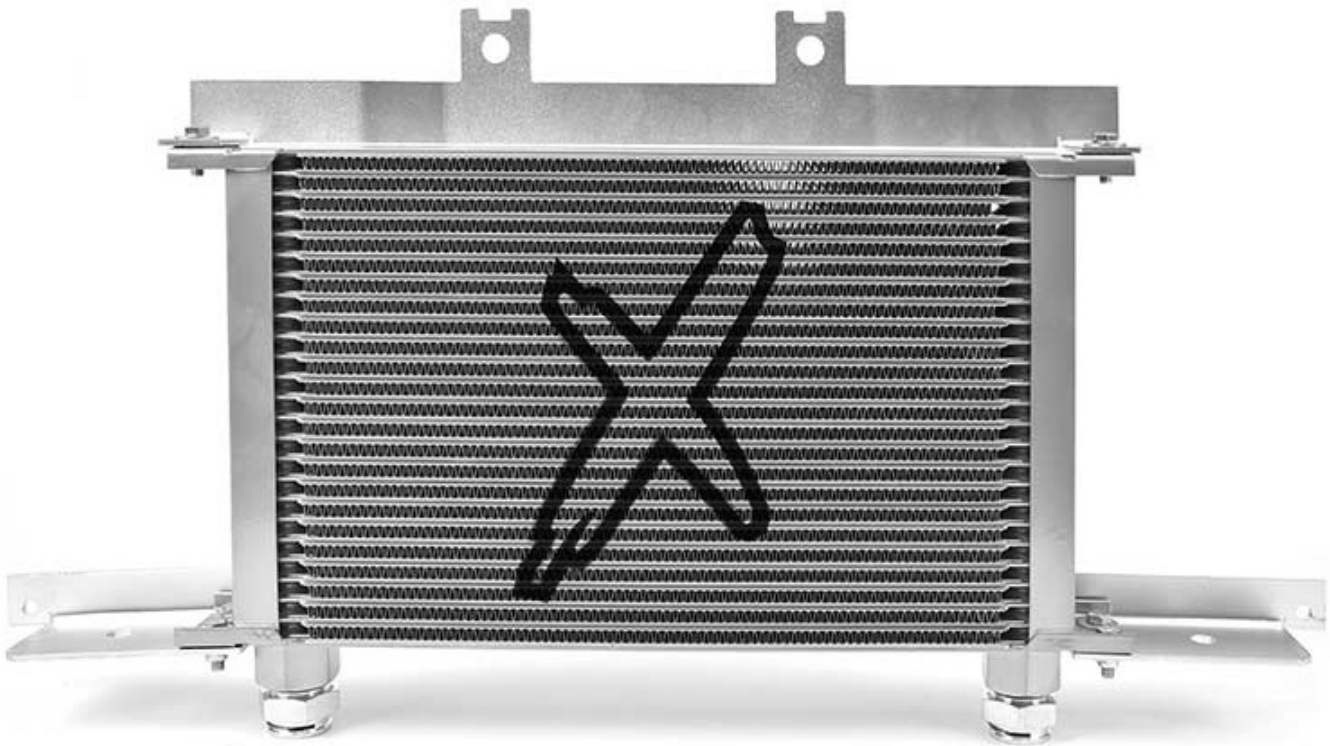


FIGURE 1