

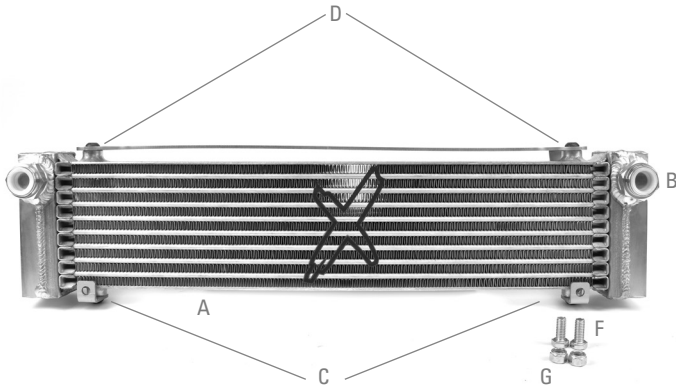


PART NO. XD310

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

INSTALLATION MANUAL

CODE	DESCRIPTION	QTY
A	Transmission oil cooler	1
B	21mm QD Adapters	2
C	Small Top Brackets	2
D	Large Bottom Bracket	1
E	M8 Button Head Cap Screw	4
F	5/16"-18 Hex Bolt	2
G	5/16-18 Lock Nut	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 X-TRA COOL DIRECT-FIT TRANSMISSION OIL COOLER XD310.**

10mm Socket / Wrench
Push Pin Remover Tool

13mm Socket / Wrench
5mm Allen Socket

Pick
Drain Pan



**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 / push pins get removed by lifting the center piece up first, then pulling out the entire fastener. (Figure 1)
- 3 Remove the grill using caution. Remove the 10mm bolts attaching grill. Note that on the late models the grill snaps into place and extra care should be used when unsnapping around the headlight bezels. (Figure 2)

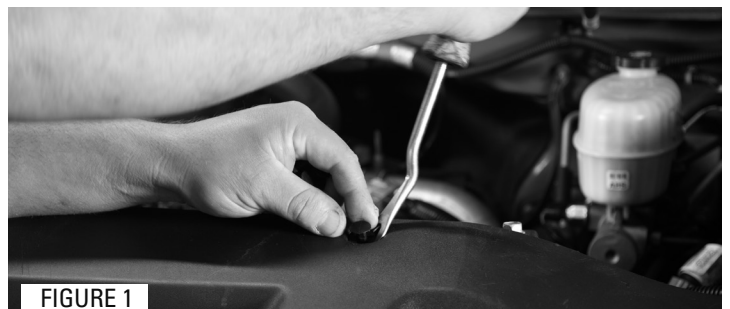
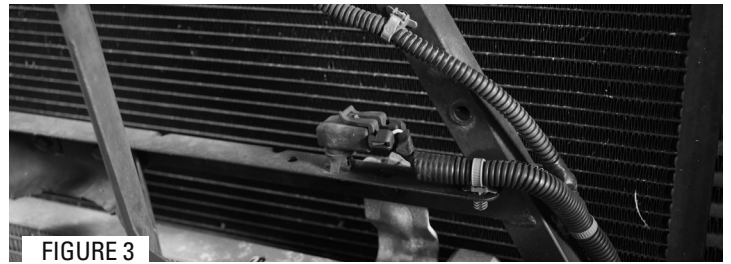


FIGURE 1



FIGURE 2

**4** Some trucks are equipped with an ambient temperature sensor. If your truck has one remove it and place it to the side. (Figure 3)

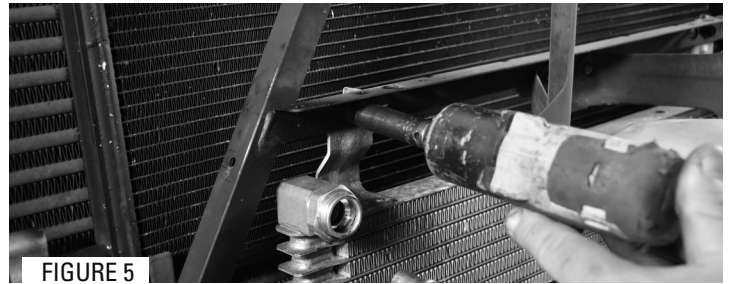


**5** Prepare the area to catch extra fluid, below the cooler using drain pan.

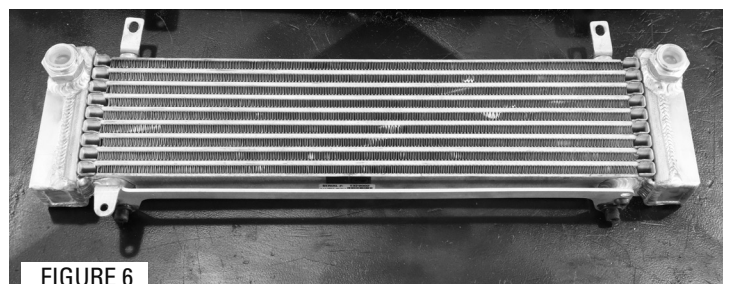
**6** Remove the original cooler by first moving the plastic protector collar out of the way of each line, then remove each spring clip. Do not pull the lines yet. (Figure 4)



**7** Remove the 2 bolts using a 10mm socket and any retainers on the cooler. Carefully wipe the lines clean with a rag and then using a light mallet knock the oil cooler lines free. (Figure 5)



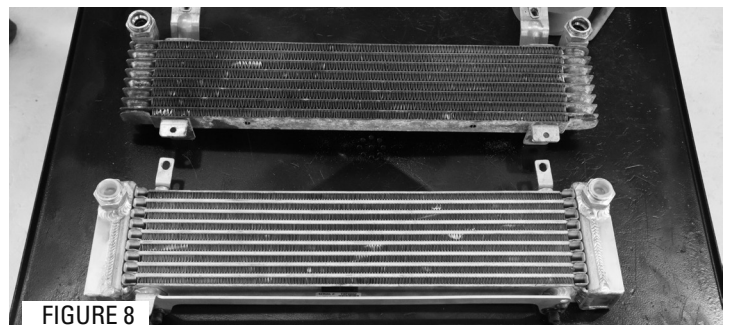
**8** Wipe off any remaining dirt and cover the lines with a rag to ensure they stay clean.



**9** Assemble the brackets on the cooler as shown in (Figure 6), but do not tighten the bracket bolts yet. Swap rubber mounting isolators to new cooler. (Figure 7)



**10** Install the QD adapters into the new transmission cooler making sure the O-ring is fully seated and tight. Lubricate the inside of the O-rings with a small amount of clean oil. (Figure 8)



- 11** Slide new oil cooler into place using the supplied new hardware using a 13mm socket / wrench. (Figure 9)



- 12** Make sure everything is clean, then install the transmission lines into the new cooler. Double check each fitting to make sure the lines are fully inserted and the spring clips locked on both fittings.

- 13** Reinstall the top mounting bolts so they are just snug. Now tighten all 4 cooler bracket bolts, then tighten the top bolts and check the bottom again to make sure everything is tight and in place.

- 14** Slide the plastic cap back onto the adapters. Make sure the engine bay is free and clear to prepare to start the engine. (Figure 10)



- 15** 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 grill in reverse of the removal process.