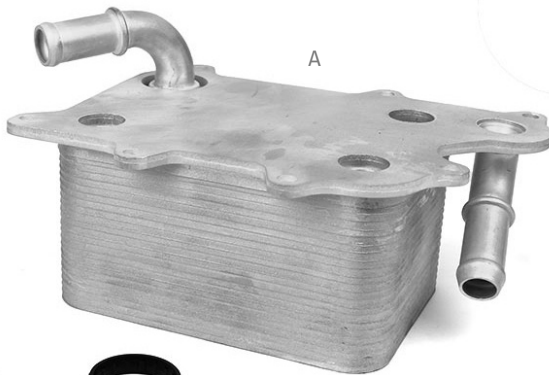




PART NO. XD413
XDP 6.7L OIL COOLER

INSTALLATION MANUAL



CODE	DESCRIPTION	QTY
A	Oil cooler	1
B	Mounting seals	4



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 6.7L OIL COOLER.

8mm socket
Pliers
3/8 drive extension

16 mm socket
10 mm socket
3/8 drive torque wrench

3/8 drive ratchet
Pick tool



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 Using an 8mm socket, disconnect both negative battery terminals. Loosen nut then twist terminal off of post. Set negative cable aside so that it does not contact battery.
- 2 Locate the coolant drain valve on the main radiator (located on driver side looking up from under vehicle). Twist the drain valve allowing coolant to drain into drain pan.
Tech Tip: It is recommended to use a refractometer and or coolant chemical test strips to check the condition, and effectiveness of the coolant to determine if it should be re-used or replaced.
- 3 Some earlier model 6.7L engines with original OEM oil cooler will require removal of the engine oil pan. The OEM oil cooler has an internal pressed in mounting stud with a 10mm nut that will require removal (see step 4). Later model 6.7L engines do not require the removal of the engine oil pan. The oil cooler on these models was updated without the mounting stud. Proceed to Step 5.
Tech Tip: Changing engine oil is recommended when replacing the oil cooler. Use a 16mm socket to remove drain plug from engine oil pan. (Figure 1)

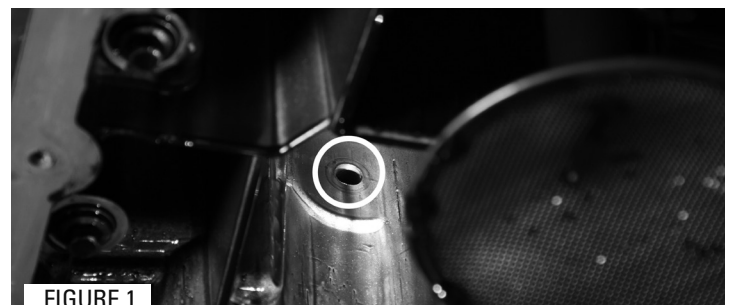


FIGURE 1

- 4** Oil Pan Removal: Remove drain plug using a 16mm socket and drain oil into a proper container. Locate the 15 bolts holding the oil pan and remove with a 10mm socket. Once bolts are removed, use a pry bar to CAREFULLY pry oil pan from engine block. Set pan aside. Locate the internal oil cooler mounting stud nut and remove with a 10mm socket. Nut can be discarded. (Figure 2)



FIGURE 2

- 5** Locate the oil cooler on the left (driver) side of vehicle. From underneath vehicle, remove the 2 clamps on the inlet and outlet coolant hoses and set aside for re-use later. Slide hoses from cooler. (Figure 3)



FIGURE 3

- 6** Place a drain pan under the oil cooler area and remove the seven mounting bolts connecting the oil cooler to the block using a 10mm socket. (Figure 4)



FIGURE 4

- 7** Remove any old O-rings with pick tool and clean all mating surfaces. (Figure 5)

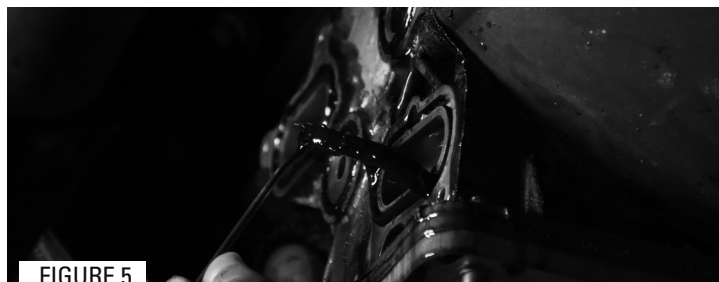


FIGURE 5

- 8** Install supplied new O-rings to the engine block. **Note:** The seals can only go one way.

- 9** Carefully install new XDP HD oil cooler. Hand tighten hardware first, then proceed to tighten in a crisscross pattern starting from center to outside using a 10mm socket. Torque to 89in-lbs. Reconnect hoses to the oil cooler using the same clamps that were removed in Step 5. (Figure 6)



FIGURE 6

- 10** **Oil Pan Re-installation:** Clean all oil pan mating surfaces and hardware prior to installation. Apply a 3.4mm diameter bead of Motorcraft® High Performance Engine RTV Silicone Sealant outside the chamfer on the lower oil pan sealing face. Tighten the 15 oil pan mounting bolts to 19ft-lbs.

Tech-Tip: It is advised to wait at least 3 hours prior to installing engine oil to allow sealant to dry.

- 11** Fill cooling system with the manufacturer's specified coolant while checking for leaks. If no leaks are present, you may re-connect the negative battery cables using an 8mm socket. Start engine and let it idle to allow coolant and engine oil to circulate. **Tech Tip:** It is advised to use a coolant vacuum purge and refill tool kit when adding coolant. This will remove any air pockets from cooling system which can cause hot spots before the thermostat reaches operating temperature.