

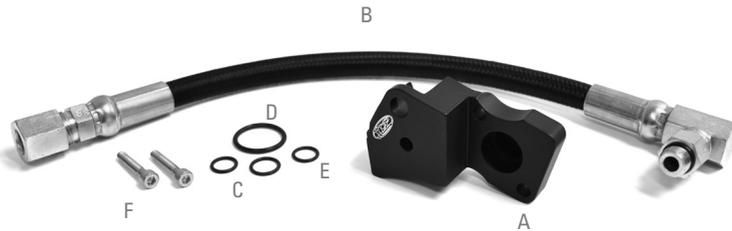


PART NO. XD281/282

XDP 6.7L POWERSTROKE CP4 BYPASS KIT

INSTALLATION MANUAL

CODE	DESCRIPTION	QTY
A	CP4 Bypass Adapter Block	1
B	CP4 Bypass Hose	1
C	Supply Tube O-ring	2
D	Metering Valve Adapter O-ring (Large)	1
E	Metering Valve Adapter O-ring (Small)	1
F	Metering Valve Bolt	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 6.7L POWERSTROKE CP4 BYPASS KIT.



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 Disconnect batteries.
- 2 Remove the air intake, fuel filter, and fuel filter base housing. This is required to gain access to remove the upper air intake manifolds which will allow access to the top of the CP4 pump. (Figure 1)
- 3 Locate the supply line to the pump which can be found on top, towards the passenger side of the pump which has one bolt securing it to the top of the pump. (Figure 1)
- 4 Remove the two plastic supply and return line clamps and keep them off to the side in a safe place. (Figure 2)
- 5 Before moving any further it is extremely crucial to thoroughly clean the top of the high pressure pump and surrounding areas to remove any dirt or debris. Failure to do so may result in contamination into the fuel system which can result in serious fuel system issues.
- 6 Once everything has been thoroughly cleaned, proceed to remove the circlips on the supply line (Left) and return line (Right). (Figure 3)

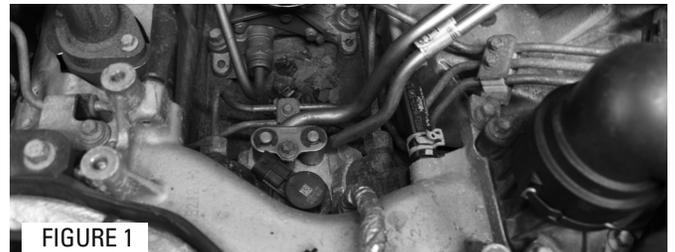


FIGURE 1



FIGURE 2



FIGURE 3

- 7 Remove the supply and return line adapter from the top of the pump by removing the 10mm flanged head bolt. Keep this bolt aside as it will be used later when installing the CP4 Bypass Adapter Block (A). Remove the fuel supply line from the top of the pump by lifting it straight up. The fuel return line will be left in place and will not be removed.
- 8 Remove the metering valve from the pump and ensure everything around the area is still clean.
- 9 Install the supplied O-rings to the CP4 Bypass Adapter Block (A), lubricate them with a small amount of clean oil, and install the CP4 Bypass Adapter Block into the top of the CP4 pump. (Figure 4)
- 10 Install the metering valve into the CP4 Bypass Adapter Block (A) using the two supplied Metering Valve Bolt's (F) , and the 10mm hex bolt from step 7 to secure them to the CP4 pump. Be sure to plug the harness back into the metering valve. (Figure 5)
- 11 Take the metal supply line and cut the line 1" from the sensor that is closest to the Cp4 pump. The line must be cut square and be thoroughly deburred before connecting the compression fitting from the CP4 Bypass Line (B). (Figure6) NOTE: 11-14 trucks have two sensors, 15-19 have one sensor.
- 12 Fit the compression fitting end of the CP4 Bypass Hose (B) to the steel supply line. Be sure to use a small amount of lubricant on the compression fitting threads and thrust surfaces to ensure smooth thread engagement, and a good seal. DO NOT FULLY TIGHTEN YET. Connect the other end of the CP4 Bypass Hose (B) to the CP4 Bypass Adapter Block (A). The end of the hose connecting to the adapter block can be tightened completely.
- 13 Make sure the CP4 Bypass Hose is routed so that it does NOT touch any other component as it is fit into the valley, and ran out. (Figure 7)
- 14 There is a lug on the bottom of the lower aluminum intake manifold. This can be grinded off to make installation a bit easier. (Figure 8) Reinstall the lower intake manifolds and the fuel filter base onto the engine. Be sure to double check the CP4 Bypass Hose is still clear of any other engine components and not touching them. Once you have confirmed this, the compression fitting can now be tightened.
- 15 Modify the supply and return line bracket so it has clearance for the compression fitting on the CP4 Bypass Hose and reinstall. 2011-2014 trucks will use a large zip tie to secure the CP4 Bypass Hose and to the return line next to the holding bracket. This is not required on 2015-2019 models. (Figure 9)
- 16 Now the upper portion of the intake manifold can be reinstalld, along with the fuel filter and reconnect the lines to the fuel filter. Reinstall the air intake and be sure to reconnect any electrical connections that were removed for installation and make sure the truck is ready for its initial start up.
- 17 Be sure to properly purge ALL of the air from the fuel system BEFORE starting the truck. To properly do so you must cycle the key on and off multiple times to purge any air from the fuel system. You will hear gurgling as this is done until all air has been removed. Once you do not hear any gurgling, you may start the truck and inspect for any leaks.



FIGURE 4



FIGURE 5

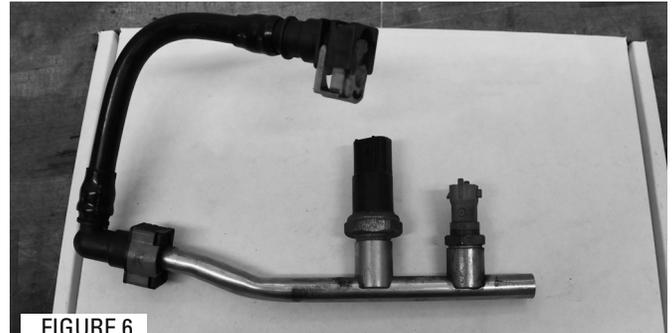


FIGURE 6



FIGURE 7



FIGURE 8

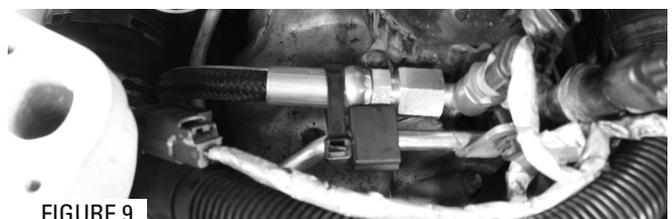


FIGURE 9