



# WATER PUMP INSTALL GUIDE

## INSTALLATION

These instructions are provided as supplementary information to the factory service manual instructions for water pump replacement.

**BEFORE BEGINNING WORK ON THE VEHICLE:** Be sure the vehicle is in park or neutral, and the wheels are blocked to prevent the vehicle from moving.

1. Disconnect the ground cable from the battery.
2. Drain and flush the cooling system of ALL sediment. Failure to flush the cooling system prior to installation of the new water pump is a major cause of premature failure. Contaminated coolant will cause seal failure and void the warranty.
3. Remove old Water Pump, clean impeller cavity in engine block and clean gasket surface.
4. Compare the old water pump to the new water pump to verify the correct replacement part.
5. Tighten steel back plate bolts on the new water pump where applicable.
6. Install the new water pump. Tighten bolts in a crossing pattern unless otherwise instructed. Tighten to vehicle manufacturer torque requirements.
7. Turn pump shaft by hand once installed to check for free rotation.
8. Inspect all hoses, belts, pulleys, idler pulleys, and belt tensioners for wear, damage or deterioration, and replace as necessary.
9. Remove thermostat. Check thermostat. radiator cap and replace if necessary.
10. Reinstall hoses, belts, tensioners and pulleys. Ensure that belt(s) and pulleys properly align.
11. Fill radiator with new coolant/distilled water mixture (per vehicle manufacturer requirements) and check for leaks. Purge system of air.
12. Check fan blades. If bent, cracked or if rivets are loose, replace the entire fan. **DO NOT** try to straighten or repair a fan! Even a small imbalance can break the water pump shaft due to centrifugal forces generated during operation.
13. Check the fan clutch for loss of oil, looseness or wobble (if equipped with fan clutch).
14. Install the fan clutch. Make sure it seats flat on pump hub. Use lock washers and tighten bolts evenly.  
**DO NOT STRIKE SHAFT.**
15. Spin the fan blade by hand. If you cannot turn the fan by hand or if there is a rough feeling as you turn the fan, the fan clutch must be replaced.
16. Tighten fan belts to manufacturer recommended tension.
17. Check motor mounts, shroud and radiator for looseness. Make sure fan does not come into contact with shroud.
18. Reconnect the battery
19. Start engine and run until operating temperature is reached. Check for leaks and smooth operation.
20. Shut off engine and let it cool. Top Off radiator coolant. Check reservoir for recommended proper fill level



## FREQUENT QUESTIONS

**My new water pump is leaking coolant out of the weep hole immediately after start up, what should I do?**

If your water pump has an external weep hole and you notice coolant dripping out of the weep hole immediately after initial start up this is normal and should stop after about 10-15 minutes of running. The bearings for the water pump need time to run to completely seal so you may notice a drip at first. If you still notice coolant dripping from the weep hole after a couple of days of driving, please contact our technical support team for assistance.

**Should I use sealant when installing my new water pump?**

**NO!** It is recommended to install without using any type of sealant in addition to the seal/gaskets.



WARRANTY

## WARRANTY

Products manufactured by XDP carry a 2-Year Unlimited Mileage warranty against defects in materials and craftsmanship. The Warranty is Limited to two (2) years from the date of sale and limited solely to the parts contained within the product's kit.

## FOR MOST DIESEL APPLICATIONS

### POWERSTROKE

**XD416** - 2004.5-2010 6.0L Powerstroke  
**XD663** - 1996-2003 Ford 7.3L Powerstroke  
**XD664** - 1996-2003 Ford 7.3L Powerstroke  
**XD667** - 2003-2004 Ford 6.0L Powerstroke  
**XD669** - 2008-2010 Ford 6.4L Powerstroke  
**XD674** - 2011-2016 Ford 6.7L Powerstroke  
**XD675** - 2011-2024 Ford 6.7L Powerstroke  
**XD682** - 2017-2019 Ford 6.7L Powerstroke

### DURAMAX

**XD665** - 2001-2005 GM 6.6L Duramax  
**XD666** - 2001-2005 GM 6.6L Duramax  
**XD670** - 2006-2016 GM 6.6L Duramax  
**XD671** - 2006-2016 GM 6.6L Duramax  
**XD678** - 2017-2025 GM 6.6L Duramax  
**XD679** - 2017-2025 GM 6.6L Duramax  
**XD683** - 2006-2016 GM 6.6L Duramax  
**XD684** - 2001-2005 GM 6.6L Duramax

### CUMMINS

**XD672** - 1989-2012 5.9L/6.7L Cummins  
**XD681** - 2013-2018 6.7L Cummins

**FOR MORE INFORMATION VISIT [XDP.COM](http://XDP.COM) OR CALL US AT 1-888-343-7354**