

IMPORTANT! START UP INSTRUCTIONS FOR YOUR NEW PUMP

GETTING STARTED

Prior to installing your new pump, please review the guidelines below. Testing shows that 95% of all pump failures are a result of negligence in proper initial installation and maintenance, resulting in damage to your pump.

CAUTION NOTE:

To prevent any injury to yourself or others, ensure that your vehicle is disabled (powered off, engine disabled, etc.) prior to attempting to remove your existing pump or parts and installing your new pump.

FLUID GRADE

The fluid used with your new pump should be carefully selected. Recommended fluid oil for your pump is engine oil with an API classification SG/CD and a viscosity range equivalent to 20W-50. This oil is specially formulated to provide superior protection and performance in the most demanding applications.

PREPARING YOUR PUMP

1. Check and clean all system components (fitting, hoses, tubes, reservoir, etc.) prior to filling with fluid. Purge and clean out the reservoir, change filters and replace any damaged parts.
2. Ensure pump and housing is clean with no debris.
3. Fill your new pump with clean fluid. Oil must be absolutely clean before installing into your pump. Fill the housing by pouring filtered oil (do not reuse old oil) into the inlet port.
4. Fill the oil reservoir with filtered fluid.
5. Check inlet lines and filters connected from the reservoir to the charge pump and ensure that the pump is properly filled with oil (priming) prior to start-up. Make sure the inlet lines of hoses or tubes have securely tightened fittings and that they are free of any tear, blockage, restrictions and air leaks.
6. It may help to pressurize the inlet port 2-4 PSI to fill the pump with oil prior to start up. Slowly turn or rotate the swashplate in its neutral position until charge pressure begins to rise. The oil should fill up the pump.

CAUTION NOTE: Prior to starting your engine, ensure that your pump is in the neutral position and/or the drive wheels are off the ground, to prevent any sudden “take off “ of your vehicle.

STARTING YOUR ENGINE

1. Turn on your engine and run at the lowest possible RPM.
2. Check to ensure the pump bypass valve is closed. Slowly move the displacement control in both forward and reverse directions. This will allow you to remove (purge) any air pockets from the oil.
3. Check your reservoir to ensure oil level. Refill the reservoir if necessary.
4. Return the displacement control to the neutral position.
5. Open the bypass valve and slowly move the displacement control in both directions to purge any additional air from the circuit.
6. Close the bypass valve and move the displacement control in both directions for a few minutes to purge any remaining air.
7. Check and refill the reservoir.
8. Turn off the engine and check for any leaks. Check reservoir oil level and refill if necessary.
9. The pump is now ready for operation.

Oil cleanliness is ABSOLUTELY necessary to ensure maximum performance, reliability and service life of the hydraulic system including the hydraulic pump. We recommend regular monitoring of the oil for contamination (water, air, particles of metal, rubber, grease, dirt, etc...) and for deterioration (loss of viscosity as a result of high temperature operation). Remove the contaminants and change the oil timely to avoid system failure.

Check the oil level daily to ensure sufficient oil in the reservoir. Change the system filters & clean the entire hydraulic system as recommended by your technician.

Remember, failure to comply with the above guidelines may result in damage to your pump and void your warranty.