

POWER FLOW POWER STEERING PUMP INSTALLATION RECOMMENDATIONS

304696-INS



RECOMMENDATION 1

Always ensure power steering reservoir is full before starting engine.

RECOMMENDATION 2

Route steering components away from headers or any other components that may add unnecessary heat to the system.

RECOMMENDATION 3

Trail-Gear recommends using regular power steering fluid and changing it every 5,000 miles or whenever the system is serviced.

RECOMMENDATION 4

Be sure that hoses, fittings and other steering components are clear of any debris which may cause contamination. It may be necessary to flush with water and air dry before use. System contamination is the leading cause of premature pump failure.

RECOMMENDATION 5

When working on the steering system be sure to cover any areas of the pump that are open to the air to prevent debris from entering the system.

RECOMMENDATION 6

For maximum pump life Trail-Gear recommends installing a PS cooler and filter. Coolers should be installed on the return side of the system.

RECOMMENDATION 7

Max pump RPM is 8,000 RPM.

RECOMMENDATION 8

Do not use Semi or Full Synthetic Fluid. Use only standard PS or Hydraulic Fluid.



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Maximum pump RPM is 7,000 RPM. Do not drive the pump beyond 7,000 RPMs. If you are using this pump on a custom build, you will need to calculate the correct pump pulley size to ensure you do not exceed 7,000 RPMs on the pump. The formula to calculate this is as follows:

$$RPM_E \times D_E = RPM_P \times D_P$$

Where:

RPM_E = Maximum RPMs you will run your engine at

D_E = Diameter of engine crank pulley

RPM_P = Pump RPMs

D_P = Diameter of pump pulley

Example: I have a LS engine I will run up to 6,000 RPM. The crank pulley diameter on the engine is 7-1/2". What diameter pulley do I need to use on my Power Flow™ pump to make sure it doesn't spin faster than 7,000 rpm?

$$\text{Diameter of pump pulley } D_P = (6,000 \times 7.5) \div 7,000 = 6.42 \text{ inches}$$

Since 6.42" diameter pump pulleys are not readily available, you would need to move to the next largest diameter, which would be 6-1/2".