



Identifying John Deere Powertech Engines.

Confusion exists between previous "Litre" designated 300 Series John Deere engines and newer "Powertech" engines. This is due to engine model numbers, which indicate displacement, being the same as before. Nevertheless, the engines are totally different with very little parts interchangeability.

For a person not totally familiar with the engines, the best way to quickly identify "Powertech" vs. Litrer designated engines is as follows:

- Below the serial number on the serial number plate, the model number for that engine is identified. The model number will conclude with the number "150", "151", "180", "220", "250", "275" or higher. This will indicate it is a "Powertech" engine.
- The front engine mounts will have an "L" shape bolt pattern for three mounting capscrews and will be facing outward on both sides of the engine as well as the front as on previous 300 Series engines. This will indicate it is a "Powertech" engine.
- The water pump is mounted as a part of the front cover, right side (looking from the flywheel end), and in a lower position. This will indicate it is a "Powertech" engine.
- The lift pump (fuel transfer pump) is located toward the rear of the engine instead of toward the front as in the "Litrer" and "Inch" designated models. This will indicate it is a "Powertech" engine.
- 300 Series Litrer displacement have fasteners around the perimeter of the valve cover to secure it to the cylinder head. The fasteners are in the middle of the valve cover for all 350 series Powertech engines.

Although the general appearance of "Powertech" engines are somewhat similar to previously manufactured 300 Series John Deere engines, the component parts have been changed extensively including the following:

Block, cylinder head, front cover, crankshaft, crankshaft bearings and thrust bearing, connecting rods and bearings, camshaft, balancer shafts, pistons and liners, flywheels, valve covers, thermostat housings, oil pump, oil filters and housings, lift pumps, fuel injection pumps, water pumps, and fan and water pump drive systems.

Please take care when ordering parts for 300 Series engines to properly identify the engine and avoid confusion that may be created by the "Powertech" engines.