

Equipment Technical Bulletin

100 RPM Big Wheel Pump Motor Change



PROBLEM

Due to the inconsistent quality of the 100 RPM big wheel pump motor used in Summit XL, PR-1100, P-6100T and P-6100C, we have identified a new supplier for this part. For details on the pump motor quality issue, see ETB "Premature Motor Failure in ILS, ILS Max, ILS MaxT Summit XL and P-6100T", #15072-00, November, 2003. Please contact Customer Service if you need a copy of this ETB.

The old motor (Figure 2) will be discontinued and a new motor (Figure 1) will take its place. This new motor will have twice the life of the old motor.

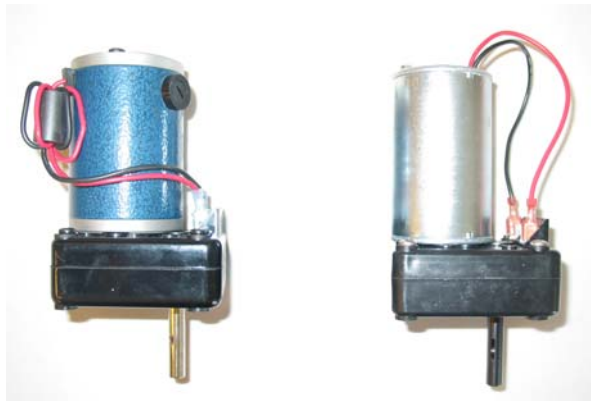


Figure 1. New Pump Motor Gearbox

Figure 2. Old Pump Motor Gearbox

Differences Between Old Motor and New Motor

- The new big wheel pump motor is of a slightly larger diameter and weights about 10% more. These differences will not affect the way the motor operates.
- The new motor will fit without problems in the PR-1100, P-6100C & P-6100T.
- Because of this size difference the new motor will not fit into all of the pump's positions in the Summit XL.
 - In pumps 1, 2 and 3 the motor comes in contact with the power supply and the front panel cannot be properly screwed into place. See **SOLUTION** section.
 - In pumps 4, 5 and 6 as well as the pumps 7 and 8 in the auxiliary box (if present) the new motors do fit properly.

- The catalog number for the new pump motor is #1203895.

SOLUTION

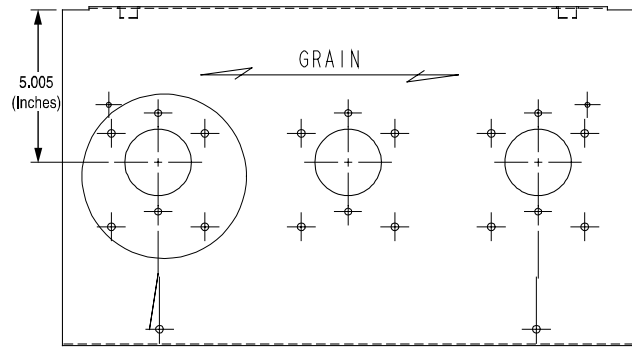


Figure 3. Distance of Holes on Old Summit XL Front Panel

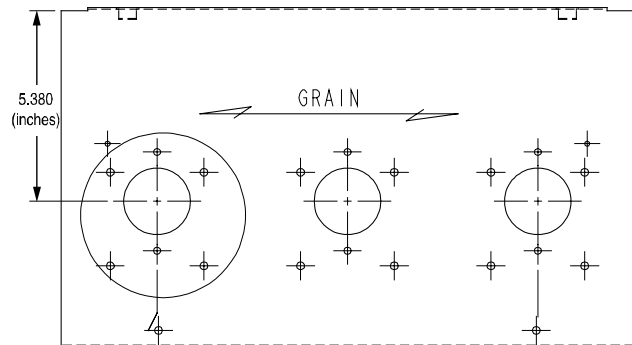


Figure 4. Distance of Holes on New Summit XL Front Panel

The front panel on the Summit XL has been modified by lowering the holes for the motor as shown in Figure 4. Although the footprint of the motors is identical, the hole on the new front panel is 1/3 of an inch below the location on the old front panel, giving the new motor extra room.

- You can install new motors into existing Summit XL's in pumps 4 through 8 with the current front panel.
- If you need to install new motors in pumps 1, 2 or 3, new front panels (#1203880) are available and can be obtained through Customer Service at no charge.

Wiring of the new motors is identical to that of the old motors.



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