

Equipment Technical Bulletin

Pump Motor Failure



PROBLEM

Vendor supplied motor gearbox assemblies with an improperly-secured gear on the main shaft. This problem affects both the 98 RPM #1203847 and the 200 RPM #1203846 motors.

All motors shipped prior to July 15, 2004 are suspect and should be replaced.

SCOPE

Several motor gearboxes (98 RPM #1203847 and 200 RPM #1203846) were shipped with the parts having the problem.

Products effected are ILS, ILS Max, PR-1100, Summit XL, P-6100T and P-6100C.

SYMPTOMS

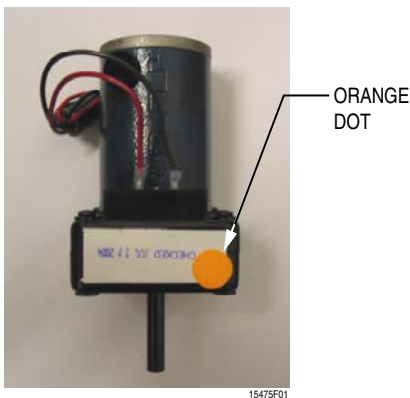
The output shaft of motor gearbox assemblies demonstrating this problem will spin slowly or not at all while the motor is running. Shafts may spin properly when the pump is not under load and fail when the load is increased. Failure may be immediate or may manifest itself over time, resulting in premature failure.

The label may be torn on some of the defective motors.

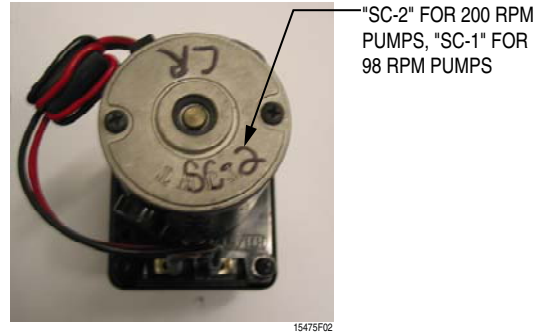
SOLUTION

1. Install new motors sent with this technical bulletin.
2. Discard old motors.

Replacement motor gearboxes can be identified by the orange dot and check-date notation as shown below. Replacement motor gearboxes are also marked with "SC-1" for 98 RPM motors or "SC-2" for 200 RPM motors.



Replacement Motor Gearbox



Top Side of Replacement Motor Gearbox

REPLACING MOTOR GEARBOX

1. Disconnect power to the pump box.
2. Remove the front pump plate.
3. Remove the screws securing the pump panel and gently pull out on the bottom of the panel. When the alignment pins are free of the chassis, the panel will drop down.
4. Remove motor wires from gearbox (note color codes).
5. Remove pump tube.
6. Unscrew four screws from rear pump housing.
7. Remove motor/gearbox assembly through top of cabinet.
8. Install new motor by reversing the above steps (take care to replace motor wires by color-coded locations).



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