

TECHNICAL BULLETIN

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12V HYDRAULIC PUMP MOTOR SERVICE

All lighting Towers fitted with 12V Hydraulic pump motors

All models of Pit Master Series LED Lighting Towers fitted with Hydraulic Pump motors have maintenance requirements at the 1000, 2000 and 5000 service interval periods. Please take note of the Hydraulic pump motor requirements in the table below. If the advised service maintenance is not completed serious motor damage may occur, including Hydraulic unit failure or Motor burnout.

Service Interval	Service Procedure
1000 hours	Check brush wear.
2000 hours	Replace brushes that have excess wear
5000 hours	Replace all 4 brushes and drive bearing

Refer: Operation and Maintenance manual for all servicing requirements.

Bearing Maintenance



The bearings of the 12 Volt hydraulic motor have had lubrication added during the manufacturing process and therefore do not require maintenance for a period of more than 5000 hours. When it is necessary to proceed to the general servicing of the Hydraulic Motor it is advisable to wash all parts with the correct solvent, to remove all contaminants. Replace bearings at every 5000hr service.

Bearing Type
6202-2RS

Brushes

The hydraulic motor brushes are designed to provide a safe and long service. Therefore, particular operations of maintenance to the 12 volt Hydraulic Motor are not required before 2000 hours of service.

Service Procedure:

- 1) Clean the commutator and brushes.
- 2) Check that the brushes are making clean contact with the surface of the commutator.
- 3) If the brushes appear to be worn or do not make good contact with the commutator, replace before reassembly.

Brush Inspection



New Brush example



Worn brush example

New and Worn Brushes

The above pictures illustrate the difference between new and worn brushes that are required to be replaced at the 2000 service interval.

Brush, Bearing and Complete 12V Motor

Brush each	SX86-1149
Bearing each	62022RS
Hydraulic Motor 12V	SX86-0995

