

TECHNICAL BULLETIN

Issue 1 - 05 Feb 2014

LINZ ALTERNATOR SERVICING NOTICE

Lighting Towers fitted with Linz Alternator

All early model Pit Master Series LED Lighting Towers fitted with Linz alternators have maintenance requirements at the 1000, 2000 and 5000 service interval periods. Please take note of the Linz Alternator requirements in the table below. If the advised service maintenance is not completed serious alternator damage may occur, including lighting tower failure, alternator failure or brush box burnout.

| Service Interval | Service Procedure |
|------------------|---|
| 1000 hours | Check brush box alignment, brush wear and slip ring wear. |
| 2000 hours | If required realign brush box by using a spacer washer and replace brushes. Check slip ring condition |
| 5000 hours | Replace slip ring bearing |

Bearing Maintenance



The bearings of the Linz alternators are self-lubricated and therefore they do not require maintenance for a period of more than 5000 hours. When it is necessary to proceed to the general servicing of the Linz alternator it is advisable to wash the bearings with a proper solvent, to remove and to replace the grease reserve.

| Alternator | Bearing Type |
|------------|--------------|
| E1S11 | 6205-2-C3 |

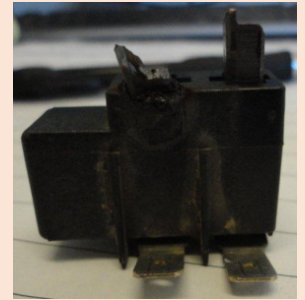
Slip-Rings, Brush Holder and Brushes

The set of collector-brush holder-brushes is designed to guarantee a safe and long service. Therefore during the use of the alternator particular operations of maintenance to this system are not demanded for at least 2000 hours of service.

In the case of de-excitation of the alternator and the consequent irregularity of the electric current supply it is necessary to carry out the following simple operations:

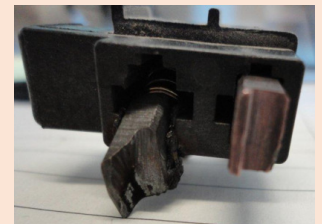
- 1) Clean the slip ring-brushes and their corrected mechanical position.
- 2) Check the position of the brushes; they must be positioned within the surface of the rings.
- 3) Check the brushes and replace them if worn.

Brush Box Inspection



Worn Brushes

The above picture illustrates worn brushes that are required to be replaced at the 2000 service interval.



Incorrect Brush Holder Alignment

The Above illustration shows damage to the brushes where the brush holder has been running out of alignment.

Replacement Brush Holder and Brushes

| | |
|--------------|-----------|
| Brush Holder | SX86-1150 |
| Brushes | SX26-0101 |

Complete Alternator and Regulator

| | |
|------------|-----------|
| Alternator | SX86-0430 |
| Regulator | SX86-0220 |