



TECHNICAL SERVICE BULLETIN

The British Motor Corporation / Hambro Inc.
734 GRAND AVENUE, RIDGEFIELD, NEW JERSEY 07657

September 29, 1967

TO ALL DISTRIBUTORS AND DEALERS

Re: A.C. Generating Equipment

When carrying out work on a vehicle fitted with Lucas A.C. Generating Equipment particular care should be taken of the following points:

1. Reversed battery connections will damage the diode rectifiers. Battery polarity should be checked before connections are made to ensure that the connections correspond to the vehicle battery earth polarity.
2. Earthing the alternator main output cable or terminal will damage the alternator and/or circuit. This is true even when the system is not in operation since no circuit breaker is used and the battery is applied to the main output cable at all times.
3. The alternator should never be run on open-circuit (i.e. engine running with battery disconnected) with the field winding energized, as the rectifier diodes and control box are likely to be damaged due to peak inverse voltages.
4. Do not attempt to polarize the alternator. No polarization is necessary. Any attempt to do so may result in damage to the alternator, regulator or associated circuits.
5. When using a battery charger, ensure that it is connected correctly otherwise the rectifier diodes will be damaged. The polarity of the electrical system should be checked and the charger connected accordingly. Before using a 'boost' charger disconnect the battery cable to avoid control box damage.
6. If the 4TR fully transistorized control box is fitted, the control box setting must be checked under closed circuit conditions. Any attempt to check open circuit voltage will damage the control box.
7. Should it be necessary to perform electric welding on any part of the vehicle metalwork, disconnect the alternator main output and 'AL' terminal cables, also the control unit terminal.

P.T.O.



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Omission to do so may result in damage to the transistors within the alternator and control box. These are very sensitive to overload.