

 <p><b>SOUTH AFRICAN</b> <b>CIVIL AVIATION</b> <b>AUTHORITY</b></p>	<p><b>REPUBLIC OF SOUTH AFRICA</b></p> <p><b>CIVIL AVIATION AUTHORITY</b></p>	<p>CAA Private Bag x08 Waterkloof 0145</p>
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**AIRWORTHINESS**

**AVIONICS**

**AIRCRAFT ELECTRICAL EQUIPMENT**

☞ *Indicates changes.*

☞ *This AIC replaces AIC 62·3 dated 99-05-15.*

**1. SIMILARITY BETWEEN AIRCRAFT AND AUTOMOTIVE ELECTRICAL EQUIPMENT**

- 1.1 *It has come to the attention of this Authority that on occasions aircraft starter motors, generators, alternators and voltage regulators have been replaced with similar automotive type components.*
- 1.2 *Although there is a great similarity in appearance between aircraft electrical equipment and the electrical equipment used in the automotive industry, the latter is not suitable for use in aircraft because during the manufacture of airborne equipment a very strict quality control is maintained by the airworthiness authority of the country in which the equipment is manufactured.*
- 1.3 *Because of this difference in quality control the various manufacturers of electrical equipment designate different part numbers for airborne and automotive equipment.*
- 1.4 *It is known that parts and equipment are being purchased that do not conform to aircraft requirements although such parts are not approved for use on aircraft. In order to discourage this practice all concerned are advised to contact an official of this Authority for advice, alternately to only acquire parts from reputable aircraft parts distributors.*

**COMMISSIONER FOR CIVIL AVIATION**