

Jabiru 2200 Series Engines

Pattern Parts Warning

Rotor Arms

A number of incidents have occurred over recent months where sub-standard Rotor Arms fitted to Jabiru 2200 series engines have failed in service. These failures have highlighted the fact that there are a number of 'pattern' Rotor Arms circulating, some of which have been supplied, via the UK agent, to customers. Whilst some pattern parts may be suitable for use in uncertified engine applications, some designs are not.

The Jabiru 2200 ignition distribution system was originally designed to use the Bosch parts as supplied for the Datsun 120Y motor car; this car went out of production in the late 1970's and parts requirements for vehicles still in service has been fulfilled primarily by pattern part suppliers.

LAA Engineering has recently published an Airworthiness Information Leaflet (AIL) (LAA/MOD/ENG/JAB/001) withdrawing from service pattern rotor arms with the conductor held to the rotor arm's body by a single centre riv-screw. This AIL can be downloaded [here](#).

In this case, where an identifiable design fault was established, Skycraft, the UK's Jabiru agent, in conjunction with the engine's manufacturer, traced all the suspect parts that had been supplied by them and replaced the parts without charge.

So that operators of the Jabiru 2200 engine not supported by the Light Aircraft Association could be made aware of this issue, Rodney Stiff, a senior director of the manufacturing company, wrote an open letter describing the issue in detail; a copy of this letter may be downloaded [here](#).

This issue has been discussed in both the June and July issues of Safety Spot. All Safety Spots are available on-line from the LAA's website and can be accessed [here](#).



Fig. 1. An example of a 'typical' failure mode of a pattern Jabiru 2200 Rotor Arm.



Fig. 2. This picture shows the design type that has been specifically withdrawn from service.



Fig. 3. This picture shows the original Bosch design; factory approved alternatives are now available.