



## **GFA AIRWORTHINESS DIRECTIVE**

**CANCELLED 21 OCT 2014**

**REFER CASA WEBSITE FOR AIRWORTHINESS DIRECTIVES  
UNDER THE 'EQUIPMENT' HEADING, THEN 'ELECTRICAL  
EQUIPMENT MISCELLANEOUS (INCLUDING MAGNETOS)'**

**TYPE AFFECTED:** All powered sailplanes fitted with Teledyne Continental (TCM formerly Bendix) magnetos including, but not limited to:

Fournier RF4D  
RF5B Sperber  
Grob G109  
Grob G109B  
H-36 Dimona  
IS 28 M2  
SF 25B  
SF 25C  
T61A  
T61C  
Stemme S10.

**SUBJECT:** Inspection and overhaul requirements of Teledyne Continental magnetos.

**BACKGROUND:** Because of the vast experience in General Aviation with parts which are common between powered sailplanes and GA aircraft (such as magneto's) the most efficient way for GFA to ensure that these parts are safe to operate is to simply use the CASA Airworthiness Directives.

Note: At the date of issue of this AD your magneto may already have been serviced in accordance with the relevant CASA AD's. Where a log book statement exists to that effect this AD can be considered complied with and the work does not have to be repeated.

### **MAGNETO IDENTIFICATION:**

**SIGNED:** Jonathon Shand

For and on behalf of:

CHIEF TECHNICAL OFFICER AIRWORTHINESS

THE GLIDING FEDERATION  
OF AUSTRALIA

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There is potential confusion regarding the identification of these magneto's. The identification of a magneto as S4RN-21 has the following meaning: S signifies single ignition; 4 is the number of engine cylinders; R indicates right hand rotation; N indicates it was manufactured by Bendix or Teledyne Continental (some licence production was done) and the number after the dash indicates the series, thus -21 is a S-20 series magneto.

**DOCUMENTATION:** Teledyne Continental service bulletins and manuals may be obtained from the local TCM distributor. Copies of CASA Airworthiness Directives may be obtained from CASA.

**ACTION REQUIRED:**

- (1) CASA AD/ELECT/27 Amdt 6 requires periodic inspections of the impulse coupling in accordance with Teledyne Continental Mandatory Bulletin No. 599D. This Mandatory Service Bulletin has been superseded by MSB645 which forms part of this AD. The requirements of this Mandatory Bulletin must be complied with.
- (2) CASA AD/ELECT/42 Amdt 1 requires the inspection for soft flyweights in accordance with Service Bulletin 623A. The bulletin forms part of this AD. The requirements of this Technical Bulletin must be complied with.
- (3) CASA AD/ELECT/63 Amdt 1 requires the inspection and replacement of capacitors in accordance with Service Bulletin CSB641. The bulletin forms part of this AD. The requirements of this Critical Service Bulletin must be complied with except that compliance is required within 25 hours magneto time in service from 15 June, 1997 or at the next Annual Inspection whichever comes first.
- (4) Note that this fault will cause the magneto to be 'hot' and the engine will have to be shut down using the fuel shut-off valve.
- (5) CASA AD/ELECT/66 Amdt 1 requires the replacement of certain coils and magnets in accordance with Mandatory Service Bulletin MSB644. This bulletin forms part of this AD. The requirements of this Mandatory Service Bulletin must be complied with within the 100 hours magneto time in service from 15 June, 1997 or at the next annual inspection.
- (6) Where routine maintenance and inspection of the magneto is specified in the aircraft or engine maintenance manuals those maintenance periods must be complied with.
- (7) If there is no routine maintenance information set down in the aircraft or engine manuals then the following maintenance must be performed:

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- (a) The contact assemblies must be inspected in accordance with section 6.2.1 of the TCM System Support Manual every 100 hours of magneto time in service.
- (b) The impulse Coupling must be inspected in accordance with section 6.2.2 of the TCM System Support Manual every 500 hours of magneto time in service.
- (8) Where routine maintenance and inspection of the magneto is specified in the aircraft or engine maintenance manuals those maintenance periods must be complied with.

**WEIGHT AND BALANCE:** Not affected.

**IMPLEMENTATION:** Magneto removal, refitting and timing to be performed by the holder of a Glider Inspectors Certificate endorsed for this class of work.

Inspection of the magneto and impulse coupling to be undertaken by a CASA licensed TCM magneto repairer or by the holder of a DA 1109 Glider Inspectors Certificate endorsed for TCM magneto repair.

**COMPLIANCE:** The requirements of this GFA Airworthiness Directive are mandatory. This Directive is issued pursuant to the Rules and Regulations of the Gliding Federation of Australia.

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