AD/ELECT/66 Bendix Magneto Coils and Rotating Magnets 10/95 Amdt 1

Applicability: Teledyne Continental Motors (TCM) Ignition Systems (formerly Bendix) magnetos as listed below. Magnetos manufactured by Bendix in Jacksonville FL and those manufactured by TCM in Atlanta GA (as indicated on the data plate) are excluded.

S-20, S-200 and S-600 series magnetos with either serial numbers below 2000000 without any letter prefix or with serial numbers below 16058 having the letter `A" prefix (for example A16057).

S-20, S-200 and S-600 series magnetos with data plates marked `REMANUFACTURED" and with serial numbers below 901001.

S-1200 series magnetos with either serial numbers below 2000000 without any letter prefix or with serial numbers below 132844 having the letter `A" prefix.

S-1200 series magnetos with data plates marked `REMANUFACTURED" and with serial numbers below 901001.

Note 1: CASA has received reports of some confusion as to what is meant by S-20, S-200, S-600 and S-1200. A typical example is S6RN-25, where the `S" designates a single type ignition unit, the `6" designates the number of engine cylinders, the `R" designates right hand rotation, the `N" is the manufacturer designator (this did not change when TCM purchased the Bendix magneto product line) and the number after the dash indicates the series (a -25 is a S-20 series magneto, while a -1225 is a S-1200 series magneto.

Note 2: If a Bendix magneto data plate has been replaced with an overhaul facility's data plate, this Directive is still applicable to that magneto as the magneto is a Bendix magneto.

Note 3: Yellow Bendix or TCM service spare data plates may have been installed during field overhaul, use the magneto model and serial number to determine the applicability of this Directive.

Note 4: The paint on some early data plates may have been obliterated and the data plate may appear silver in colour, use the magneto model and serial number to determine the applicability of this Directive.

Requirement: For Bendix S-20 and S-200 series magnetos, inspect and if necessary, replace Bendix ignition coils and rotating magnets identified in the Detailed Instructions of TCM Ignition Systems Mandatory Service Bulletin MSB644 dated 4 April 1994 with appropriate serviceable ignition coils and rotating magnets.

For the Bendix S-600 series magnetos, inspect and if necessary, replace Bendix rotating magnets identified in the Detailed Instructions of TCM Ignition Systems Mandatory Service Bulletin MSB644 dated 4 April 1994 with appropriate serviceable rotating magnets. (Ignition coils of the S-600 series magnetos already incorporate the improved design.)

For the Bendix S-1200 series magnetos, inspect and if necessary, replace Bendix ignition coils identified in the Detailed Instructions of TCM Ignition Systems Mandatory Service Bulletin MSB644 dated 4 April 1994 with appropriate serviceable ignition coils. (The rotating magnets of the S-1200 series magnetos already incorporate the improved design.)

Note: Previous compliance with AD/ELECT/53 Amdt 2 or earlier issues of that Directive does not constitute full compliance with this Directive, similarly compliance with Bendix Electrical Components Division Service Bulletin 560 or 560A would not constitute full compliance.

Compliance: The original compliance remains unchanged as within the next 100 hours time in service after 10 November 1994. This amendment is effective from 14 September 1995.

Note: FAA AD 94-01-03 R2 Amdt 39-9271 refers.

Background: The original issue of this Directive superseded AD/ELECT/53 Amdt 2, which was cancelled. Reports are still being received of `clear case coils" being identified during magneto servicing, compliance with this Directive, whilst ensuring that all coils of this type are finally removed from Australian aircraft, will also ensure that older style rotating magnets are removed.

This amendment is issued to clarify the applicability statement and reflects the issue of a revision to the FAA Airworthiness Directive, no further action is required if magnetos are in compliance with the original issue of this Directive.