

LUFTVÄRDIGHETSDIREKTIV (LVD)

Sektion 2. Utlandstillverkad flygmateriel

Denna LVD har utfärdats för att omfatta alla de nationella luftfartyg som inte regleras av EASA utan av det svenska regelverket BCL-M.

TITEL: **Inspektion/Byte av Magnet.**

GÄLLER: Teledyne Continental Motorer (TCM) och Rolls-Royce C-125, C-145, O-300, IO-360, TSIO-360 och LTSIO-520 AE kolvmotorserier med Champion Aerospace (före detta Unison Industries) Slick Magnetos, modeller 6314, 6324 och 6364 med magnet serienummer (S/N) fr.o.m. 99110001 t.o.m. 99129999.

REVISION: -

ÅTGÄRD: Utför åtgärder i enlighet med bifogad FAA AD 2011-26-07. Refererad AD finns även tillgänglig på följande internetadress: www.airweb.faa.gov

TID FÖR ÅTGÄRD: Enligt FAA AD 2011-26-07, men med denna LVD:s beslutsdatum som utgångspunkt.

UNDERLAG: Enligt FAA AD 2011-26-07, TCM Mandatory Service Bulletin MSB00-6D daterad 19 november 2010 eller senare revisioner.

För alternativa underlag/förfaringsätt att uppfylla denna LVD, se "Alternative Methods of Compliance" i refererad FAA AD 2011-26-07.

REFERENS: FAA AD 2011-26-07

BESLUTSDATUM: 13 januari 2012

BESLUT: TSL 2012-75

Åtgärder enligt LVD utgör nödvändig förutsättning för ifrågavarande flygmateriels luftvärdighet. Referens BCL M 1.11. Anteckning om åtgärd, som vidtagits i enlighet med LVD, skall införas i teknisk journal för berörd flygmateriel med hänvisning till ifrågavarande LVD-nummer. Angivet underlag refererar till senast gällande revision/utgåva.

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2011-26-07 Teledyne Continental Motors (TCM) and Rolls-Royce Motors Ltd. (R-RM) Series Reciprocating Engines: Amendment 39-16897; Docket No. FAA-2011-0085; Directorate Identifier 2000-NE-19-AD.

(a) Effective Date

This airworthiness directive (AD) is effective January 24, 2012.

(b) Affected ADs

This AD supersedes AD 2002-13-04, Amendment 39-12792 (67 FR 43230, June 27, 2002).

(c) Applicability

This AD applies to TCM and R-RM C-125, C-145, O-300, IO-360, TSIO-360, and LTSIO-520-AE series reciprocating engines with Champion Aerospace (formerly Unison Industries) Slick Magnetos, models 6314, 6324, and 6364, with magneto serial numbers (S/Ns) of 99110001 through 99129999, inclusive.

(d) Unsafe Condition

This AD was prompted by an error in the previous AD applicability in the range of magneto S/Ns affected, and by the need to include certain engines made by R-RM, under license of TCM. We are issuing this AD to prevent engine failure and loss of control of the airplane due to migration of the magneto impulse coupling stop pin out of the magneto frame and into the gear train of the engine.

(e) Compliance

Comply with this AD within 10 flight hours after the effective date of this AD, unless already done.

(f) Replacement of Magneto

Replace any magneto that has an S/N of 99110001 through 99129999, inclusive, with a magneto that does not have a serial number in that range. If a magneto is not in this S/N range, no further action is required by this AD.

(g) Inspections

Inspect each removed magneto to verify that the impulse coupling stop pin is present. If the pin is missing, do the following:

- (1) For C-125, C-145, O-300, IO-360, and TSIO-360 series engines, do the following:
 - (i) Remove magnetos, alternator or generator, and starter adapter from the accessory case.
 - (ii) Remove the accessory case from the crankcase and oil sump.
 - (iii) Visually inspect the entire engine gear train for damaged or broken gears and gear teeth.

(iv) Inspect visible portions of the engine crankcase and accessory case for damage due to the stop pin becoming lodged between the engine gear train and the crankcase or accessory case.

(v) If the accessory case is damaged, repair or replace the accessory case.

(vi) If the engine crankcase is damaged, disassemble the engine, and repair or replace the crankcase.

(vii) Inspect the oil pump drive gear teeth and inner cam gear teeth for damage. Replace any engine drive train component that has been damaged.

(viii) Replace any damaged gear, and magnaflux the mating gears using the applicable engine overhaul manual.

(2) For LTSIO-520-AE series engines, do the following:

(i) Remove the starter adapter, fuel pump, vacuum pumps, accessory drive pads, and both magnetos.

(ii) Visually inspect the entire engine gear train for damaged or broken gears and gear teeth.

(iii) If any damage has occurred, remove the engine from the airplane, disassemble the engine, and inspect it for damage. If any damage is found, repair as necessary.

(iv) Replace any damaged gear, and magnaflux the mating gears using the applicable engine overhaul manual.

(v) Inspect the interior portions of the engine crankcase for damage due to the stop pin becoming lodged between the gear train and the crankcase. If the crankcase is damaged, repair or replace the crankcase.

(h) Installation Prohibition

After the effective date of this AD, do not install any Champion Aerospace (formerly Unison Industries) Slick magnetos, model 6314, 6324, or 6364 that have an S/N of 99110001 through 99129999, inclusive, on any engine.

(i) Alternative Methods of Compliance

The Manager, Atlanta Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD, if requested using the procedures found in 14 CFR 39.19.

(j) Related Information

(1) A cross-reference for part numbers (P/Ns) for Champion Aerospace (formerly Unison Industries) Slick magneto model 6314 (TCM P/N 653271), model 6324 (TCM P/N 653292), and model 6364 (TCM P/N 649696) can be found in TCM Mandatory Service Bulletin MSB00-6D, dated November 19, 2010.

(2) For more information about this AD, contact Juanita Craft, Aerospace Engineer, Propulsion, Atlanta Aircraft Certification Office, FAA, Small Airplane Directorate; 1701 Columbia Avenue, College Park, Georgia 30337; phone: (404) 474-5584; fax: (404) 474-5606; email: juanita.craft@faa.gov.

(k) Material Incorporated by Reference

None.

Issued in Burlington, Massachusetts, on December 8, 2011.
Peter A. White,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.