TRANSPORT STYRELSEN

LUFTVÄRDIGHETSDIREKTIV (LVD)

M-Motorer
Lycoming kolvmotorer
LVD Nr 2-3399

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 av bränslesystemet.**

GÄLLER: Bränsleinsprutade kolvmotorer tillverkade av Lycoming med externt monterade bränslesprutningsrör (motorer med ett ”I” i prefix till motor typbeteckning) som är listade i tabell 1 i FAA AD 2011-26-04.

REVISION: -

ÅTGÄRD: Utför åtgärder i enlighet med bifogad FAA AD 2011-26-04. Refererad AD finns även tillgänglig på följande internetadress: www.airweb.faa.gov

TID FÖR ÅTGÄRD: Enligt FAA AD 2011-26-04, men med denna LVD:s beslutsdatum som utgångspunkt.

UNDERLAG: Enligt FAA AD 2011-26-04, Lycoming MSB No.342F, daterad 4 juni 2010 eller senare revisioner på Internetadress: www.lycoming.textron.com eller http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html .För alternativa underlag/förfaringssätt att uppfylla denna LVD, se ”Alternative Methods of Compliance” i refererad FAA AD 2011-26-04.

REFERENS: FAA AD 2011-26-04

BESLUTSDATUM: 13 januari 2012

BESLUT: TSL 2012-74

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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2011-26-04 Lycoming Engines (formerly Textron Lycoming Division, AVCO Corporation): Amendment 39-16894; Docket No. FAA-2007-0218; Directorate Identifier 92-ANE-56-AD.

(a) Effective Date

This airworthiness directive (AD) is effective January 25, 2012.

(b) Affected ADs

This AD supersedes AD 2008-14-07, Amendment 39-15602 (73 FR 39574, July 10, 2008).

(c) Applicability

(1) This AD applies to fuel injected reciprocating engines manufactured by Lycoming Engines that incorporate externally mounted fuel injection lines (engines with an "I" in the prefix of the engine model designation) as listed in the following Table 1:

Table 1–Engine Models Affected

Engine	Model
AEIO-320	-D1B, -D2B, -E1B, -E2B
AIO-320	-A1B, -BIB, -C1B
IO-320	-B1A, -B1C, -C1A, -D1A, -D1B, -E1A, -E1B, -E2A, -E2B
LIO-320	-B1A, -C1A
AEIO-360	-A1A, -A1B, -A1B6, -A1D, -A1E, -A1E6, -B1F, -B2F, -B1G6, -B1H, -B4A, -H1A, -H1B
AIO-360	-A1A, -A1B, -B1B
HIO-360	-A1A, -A1B, -B1A, -C1A, -C1B, -D1A, -E1AD, -E1BD, -F1AD, -G1A
IO-360	-A1A, -A1B, -A1B6, -A1B6D, -A1C, -A1D, -A1D6, -A2A, -A2B, -A3B6, -A3B6D, -B1B, -B1D, -B1E, -B1F, -B1G6, -B2F, -B2F6, -B4A, -C1A, -C1B, -C1C, -C1C6, -C1D6, -C1E6, -C1F, -C1G6, -F1A, -J1A6D, -M1B, -L2A, -M1A
IVO-360	-A1A
LIO-360	-C1E6, -M1A
TIO-360	-A1B, -C1A6D
IGO-480	-A1B6
AEIO-540	-D4A5, -D4B5, -D4D5, -L1B5, -L1B5D, -L1D5
IGO-540	-B1A, -B1C

IO-540	-A1A5, -AA1A5, -AA1B5, -AB1A5, -AC1A5, -AE1A5, -B1A5, -B1C5, -C1B5, -C4B5, -C4D5D, -D4A5, -E1A5, -E1B5, -G1A5, -G1B5, -G1C5, -G1D5, -G1E5, -G1F5, -J4A5, -V4A5D, -K1A5, -K1A5D, -K1B5, -K1C5, -K1D5, -K1E5, -K1E5D, -K1F5, K1H5, -K1J5, -K1F5D, -K1G5, -K1G5D, -K1H5, -K1J5D, -K1K5, -K1E5, -K1E5D, -K1F5, -K1J5, -L1C5, -M1A5, -M1B5D, -M1C5, -N1A5, -P1A5, -R1A5, -S1A5, -T4A5D, -T4B5, -T4B5D, -T4C5D, -V4A5, -V4A5D, -W1A5, -W1A5D, -W3A5D
IVO-540	-A1A
LTIO-540	-F2BD, -J2B, -J2BD, -N2BD, -R2AD, -U2A, -V2AD, -W2A
TIO-540	-A1A, -A1B, -A2A, -A2B, -A2C, -AE2A, -AH1A, -AA1AD, -AF1A, -AF1B, -AG1A, -AB1AD, -AB1BD, -AH1A, -AJ1A, -AK1A, -C1A, -E1A, -G1A, -F2BD, -J2B, -J2BD, -N2BD, -R2AD, -S1AD, -U2A, -V2AD, -W2A
TIVO-540	-A2A
IO-720	-A1A, -A1B, -D1B, -D1BD, -D1C, -D1CD, -B1B, -B1BD, -C1B

(2) Engine models in Table 1 of this AD are installed on, but not limited to, Piper PA-24 Comanche, PA-30 and PA-39 Twin Comanche, PA-28 Arrow, and PA-23 Aztec; Beech 23 Musketeer; Mooney 20, and Cessna 177 Cardinal airplanes.

(3) This AD is not applicable to engines having internally mounted fuel injection lines, which are not accessible. Those engine models are not included in Table 1 of this AD.

(4) This AD is not applicable to engines that have a Maintenance and Overhaul Manual with an Airworthiness Limitations Section that requires inspection of externally mounted fuel injector lines. Those engine models are not included in Table 1 of this AD.

(d) Unsafe Condition

This AD was prompted by Lycoming Engines revising their Mandatory Service Bulletin (MSB) to add engine models requiring inspection. We are issuing this AD to prevent failure of the fuel injector fuel lines that would allow fuel to spray into the engine compartment, resulting in an engine fire.

(e) Compliance

Comply with this AD within the compliance times specified, unless already done.

(f) Engines That Have Had Initial Inspections

For engines that have had initial inspections in accordance with Textron Lycoming MSB No. 342, dated March 24, 1972; Textron Lycoming MSB No. 342A, dated May 26, 1992; Textron Lycoming MSB No. 342B, dated October 22, 1993; Supplement No. 1 to MSB No. 342B, dated April 27, 1999; Textron Lycoming MSB No. 342C, dated April 28, 2000; Textron Lycoming MSB No. 342D, dated July 10, 2001; Lycoming Engines MSB No. 342E, dated May 18, 2004, or Lycoming Engines MSB 342F, dated June 4, 2010, inspect in accordance with paragraph (h) of this AD.

(g) Engines That Have Not Had Initial Inspections

For engines that have not had initial inspections previously done in accordance with Textron Lycoming MSB No. 342, dated March 24, 1972; Textron Lycoming MSB No. 342A, dated May 26,

1992; Textron Lycoming MSB No. 342B, dated October 22, 1993; Supplement No. 1 to MSB No. 342B, dated April 27, 1999; Textron Lycoming MSB No. 342C, dated April 28, 2000; Textron Lycoming MSB No. 342D, dated July 10, 2001; Lycoming Engines MSB No. 342E, dated May 18, 2004, or Lycoming Engines MSB 342F, dated June 4, 2010, inspect as follows:

(1) For engines that have not yet had any fuel line maintenance done, or have not had any fuel line maintenance done since new or since the last overhaul, inspect in accordance with paragraph (i) of this AD within 50 hours time-in-service (TIS) after the effective date of this AD.

(2) For all other engines, inspect in accordance with paragraph (i) of this AD within 10 hours TIS after the effective date of this AD.

(h) Repetitive Inspections

Thereafter, inspect at intervals of 100 hours TIS (not to exceed 110 hours), at each engine overhaul, and after any maintenance has been done on the engine where any clamp (or clamps) on a fuel injector line (or lines) has been disconnected, moved, or loosened, in accordance with paragraph (i) of this AD.

(i) Inspection Criteria

Inspect the fuel injector fuel lines and clamps between the fuel manifold and the fuel injector nozzles, and replace as necessary any fuel injector fuel line and clamp that does not meet all conditions specified in Lycoming Engines MSB No. 342F, dated June 4, 2010.

(j) Alternative Methods of Compliance (AMOCs)

The Manager, New York Aircraft Certification Office, FAA, has the authority to approve AMOCs for this AD if requested using the procedures found in 14 CFR 39.19. AMOCs approved previously in accordance with AD 2008-14-07, Amendment 39-15602, are approved as AMOCs for the corresponding requirements in paragraph (h) of this AD.

(k) Related Information

(1) For more information about this AD, contact Norm Perenson, Aerospace Engineer, New York Aircraft Certification Office, FAA, Engine & Propeller Directorate, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: (516) 228-7337; fax: (516) 794-5531; email: Norman.perenson@faa.gov.

(2) FAA Special Airworthiness Information Bulletin No. NE-07-49, dated September 20, 2007, is not mandatory, but has additional information on this subject.

(l) Material Incorporated by Reference

(1) You must use Lycoming Engines Mandatory Service Bulletin No. 342F, dated June 4, 2010, to perform the actions required by this AD.

(2) The Director of the Federal Register approved the incorporation by reference of this service bulletin in accordance with 5 U.S.C. 552(a) and 1 CFR part 51.

(3) Contact Lycoming Engines, 652 Oliver Street, Williamsport, PA 17701, or go to www.lycoming.textron.com for a copy of this service information. You may review copies at the FAA, New England Region, 12 New England Executive Park, Burlington, MA.

(4) You may also review copies of the service information that is incorporated by reference at the National Archives and Records Administration (NARA). For information on the availability of this material at an NARA facility, call (202) 741-6030, or go to http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.

Issued in Burlington, Massachusetts, on December 5, 2011.
Peter A. White,
Manager, Engine & Propeller Directorate,
Aircraft Certification Service.