

Airworthiness Directive

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

Docket No. 93-ANE-24; Amendment 39-8585; AD 92-04-09

TELEDYNE CONTINENTAL MOTORS Model IO-360, TSIO-360, and LTSIO-360
Series Engines

PDF Copy (If Available):

▼ Preamble Information

AGENCY: Federal Aviation Administration, DOT

DATES: Effective June 22, 1993.

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92-04-09 TELEDYNE CONTINENTAL MOTORS: Amendment 39-8585. Docket 93-ANE-24.

Applicability: Teledyne Continental Motors (TCM) IO-360 series, TSIO-360 series, and LTSIO-360 series reciprocating engines, identified by model and serial number in TCM Service Bulletin (SB) No. M92-4, Revision 1, dated February 5, 1992, and all other TCM IO-360 series, TSIO-360 series, LTSIO-360 series, and Rolls- Royce Motors Model TSIO-360 series reciprocating engines, installed on but not limited to Cessna 337, T337, and P337 series; Cessna 172XP; Mooney M20K; Piper PA34-200T, PA34-220T, PA28R-201T and PA28RT- 201T airplanes.

Compliance: Required prior to further flight, unless accomplished previously.
To prevent engine failure caused by failure of the rocker shaft hold down stud,

accomplish the following:

(a) For engines that have the rocker arm shaft hold down stud nut torqued in accordance with TCM SB No. M92-4, dated January 10, 1992, and are in compliance with AD 92-02-20 or AD 92-02-20R1, retorque the rocker arm shaft hold down stud nut to 110-120 inch pounds in accordance with TCM SB M92-4, Revision 1, dated February 5, 1992.

(b) For engines listed by model and serial number in TCM SB No. M92-4, Revision 1, dated February 5, 1992, inspect, and if necessary, rework cylinder assembly, in accordance with TCM SB No. M92-4, Revision 1, dated February 5, 1992.

(c) For Rolls-Royce Motors engines and all other engines containing cylinder assemblies, with cylinder assembly dates between June 1991 through December 1991, and identified by TCM Part Numbers 646924, 649484, 652955, or 653098, and all "A" suffix numbers of these base part numbers, inspect, and if necessary, rework, in accordance with TCM SB No. M92-4, Revision 1, dated February 5, 1992. NOTE: Cylinder assembly dates are stamped on the cylinder head between the two rocker shaft pockets.

(d) Uninstalled cylinder assemblies, with cylinder assembly dates between June 1991 and December 1991, and identified by TCM Part Numbers 646924, 649484, 652955, 653098, and all "A" suffix numbers of these base part numbers, shall not be placed in service unless inspected or reworked in accordance with TCM SB No. M92-4, Revision 1, dated February 5, 1992.

(e) After accomplishment of the requirements of paragraphs (a), (b), (c), or (d) of this AD, as applicable, mark with VIBRO-ETCH or other similar device the letter "B" adjacent to the cylinder assembly date on the cylinder head between the two rocker shaft pockets.

(f) An alternative method of compliance or adjustment of the compliance time that provides an acceptable level of safety may be used if approved by the Manager, Atlanta Aircraft Certification Office. The request should be forwarded through an appropriate FAA Maintenance Inspector, who may add comments and then send it to the Manager, Atlanta Aircraft Certification Office. NOTE: Information concerning the existence of approved alternative methods of compliance with this airworthiness directive, if any, may be obtained from the Atlanta Aircraft Certification Office.

(g) The retorquing, inspections, and rework shall be done in accordance with the following service bulletin:

| Document No. | Pages | Revision | Date |
|------------------|-------|----------|------------------|
| TCM SB No. M92-4 | 1-2 | 1 | February 5, 1992 |
| Total pages: 2. | | | |

This incorporation by reference was approved by the Director of the Federal Register in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Copies may be obtained from Teledyne Continental Motors, P.O. Box 90, Mobile, AL 36601. Copies may be inspected at the FAA, New England Region, Office of the Assistant Chief Counsel, 12 New England Executive Park, Burlington, MA; or at the Office of the Federal Register, 800 North Capitol Street, NW., suite 700, Washington, DC.

(h) This amendment supersedes priority letter AD 92-02-20 R1, issued January 24, 1992.

(i) This amendment becomes effective June 22, 1993, to all persons except those persons to whom it was made immediately effective by priority letter AD 92-04-09, issued February 18, 1992, which contained the requirements of this amendment.

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▼ **Comments**

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