

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. FAA amends § 39.13 by adding a new AD to read as follows:

Actions	Compliance	Procedures
(1) Perform a test of the pilot and right-hand (RH) station control wheels to determine if either control wheel becomes jammed.	Within the next 100 hours time-in-service after October 29, 2002 (the effective date of this AD) and thereafter every time the flight control system undergoes maintenance.	In accordance with Socata TBM Aircraft Mandatory Service Bulletin SB 70-095 27, November 2001.
(2) Adjust the roll control stops if jamming occurs on either the pilot control wheel or the RH station control wheel during any test required in paragraph (d)(1) of this AD.	Prior to further flight after jamming is found during any test required by paragraph (d)(1) of this AD.	In accordance with Socata TBM Aircraft Mandatory Service Bulletin SB 70-095 27, dated November 2001.

(e) *Can I comply with this AD in any other way?* You may use an alternative method of compliance or adjust the compliance time if:

(1) Your alternative method of compliance provides an equivalent level of safety; and

(2) The Standards Office Manager, Small Airplane Directorate, approves your alternative. Submit your request through an FAA Principal Maintenance Inspector, who may add comments and then send it to the Standards Office Manager.

Note 1: This AD applies to each airplane identified in paragraph (a) of this AD, regardless of whether it has been modified, altered, or repaired in the area subject to the requirements of this AD. For airplanes that have been modified, altered, or repaired so that the performance of the requirements of this AD is affected, the owner/operator must request approval for an alternative method of compliance in accordance with paragraph (e) of this AD. The request should include an assessment of the effect of the modification, alteration, or repair on the unsafe condition addressed by this AD; and, if you have not eliminated the unsafe condition, specific actions you propose to address it.

(f) *Where can I get information about any already-approved alternative methods of compliance?* Contact Karl Schletzbaum, Aerospace Engineer, FAA, Small Airplane Directorate, 901 Locust, Room 301, Kansas City, Missouri 64106; telephone: (816) 329-4146; facsimile: (816) 329-4090.

(g) *What if I need to fly the airplane to another location to comply with this AD?* The FAA can issue a special flight permit under sections 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate your airplane to a location where you can accomplish the requirements of this AD. No passengers are allowed for this flight.

(h) *Are any service bulletins incorporated into this AD by reference?* Actions required by this AD must be done in accordance with Socata TBM Aircraft Mandatory Service Bulletin SB 70-095 27, dated November 2001. The Director of the Federal Register approved this incorporation by reference

2002-19-01 SOCATA—Groupe AEROSPATIALE: Amendment 39-12881; Docket No. 2002-CE-15-AD.

(a) *What airplanes are affected by this AD?* This AD affects Model TBM 700 airplanes, all serial numbers, that are certificated in any category.

(b) *Who must comply with this AD?* Anyone who wishes to operate any of the airplanes identified in paragraph (a) of this AD must comply with this AD.

(c) *What problem does this AD address?* The actions specified by this AD are intended to prevent the flight control wheels from traveling beyond normal roll control limits, which could result in the control wheel becoming jammed. Such a condition could lead to reduced or loss of control of the airplane.

(d) *What actions must I accomplish to address this problem?* To address this problem, you must accomplish the following:

under 5 U.S.C. 552(a) and 1 CFR part 51. You may get copies from SOCATA Groupe AEROSPATIALE, Customer Support, Aerodrome Tarbes-Ossun-Lourdes, BP 930—F65009 Tarbes Cedex, France; telephone: 011 33 5 62 41 73 00; facsimile: 011 33 5 62 41 76 54; or the Product Support Manager, SOCATA Groupe AEROSPATIALE, North Perry Airport, 7501 Pembroke Road, Pembroke Pines, Florida 33023; telephone: (954) 893-1400; facsimile: (954) 964-4141. You may view copies at the FAA, Central Region, Office of the Regional Counsel, 901 Locust, Room 506, Kansas City, Missouri, or at the Office of the Federal Register, 800 North Capitol Street, NW, suite 700, Washington, DC.

Note 2: The subject of this AD is addressed in French AD 2001-582(A), dated November 28, 2001.

(i) *When does this amendment become effective?* This amendment becomes effective on October 29, 2002.

Issued in Kansas City, Missouri, on September 6, 2002.

Michael Gallagher,
Manager, Small Airplane Directorate, Aircraft Certification Service.

[FR Doc. 02-23513 Filed 9-19-02; 8:45 am]

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DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39

[Docket No. 2002-NE-03-AD; Amendment 39-12883; AD 2002-19-03]

RIN 2120-AA64

Airworthiness Directives; Textron Lycoming IO-540, LTIO-540 and TIO-540 Series Reciprocating Engines

AGENCY: Federal Aviation Administration, DOT.

ACTION: Final rule, request for comments.

SUMMARY: This amendment supersedes emergency airworthiness directive (AD) 2002-17-53 that was sent previously to all known U.S. owners and operators of Textron Lycoming LTIO-540 and TIO-540 series engines, rated at 300 horsepower (HP) or higher. That action requires, before further flight, replacing certain serial-numbered crankshafts that were hammer forged with crankshafts that were press forged. That AD was prompted by reports of crankshaft failures in LTIO-540 and TIO-540 engines, rated at 300 HP or higher. This amendment expands the suspect population of engines to include engines with crankshafts that were manufactured between March 1997 and the present and all IO-540 engines with crankshafts that were manufactured between March 1997 and the present that have been modified by supplemental type certificate (STC) by installing a turbocharger system. The actions specified by this AD are intended to prevent failure of the crankshaft, which could result in total engine power loss, in-flight engine failure and possible forced landing.

DATES: Effective September 20, 2002.

The incorporation by reference of certain publications listed in the rule is approved by the Director of the Federal Register as of September 20, 2002.

Comments for inclusion in the Rules Docket must be received on or before November 19, 2002.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), New England Region, Office of the Regional Counsel, Attention: Rules Docket No. 2002-NE-

03-AD, 12 New England Executive Park, Burlington, MA 01803-5299. Comments may be inspected at this location, by appointment, between 8 a.m. and 4:30 p.m., Monday through Friday, except Federal holidays. Comments may also be sent via the Internet using the following address: "9-ane-adcomment@faa.gov". Comments sent via the Internet must contain the docket number in the subject line.

FOR FURTHER INFORMATION CONTACT:

Rocco Viselli or Norm Perenson, Aerospace Engineer, New York Aircraft Certification Office, FAA, Engine and Propeller Directorate, 10 Fifth Street, Third Floor, Valley Stream, NY 11581-1200; telephone (516) 256-7531 or (516) 256-7537; fax (516) 568-2716.

SUPPLEMENTARY INFORMATION: On August 16, 2002, the FAA issued emergency AD 2002-17-53, applicable to Textron Lycoming LTIO-540 and TIO-540 series engines, rated at 300 HP or higher, to supersede emergency AD 2002-04-51 issued on February 11, 2002. AD 2002-17-53 requires replacing certain crankshafts that were manufactured using a hammer-forged process with crankshafts that were manufactured using a press-forged process. That action was prompted by reports of 17 crankshaft failures in LTIO-540 and TIO-540 engines, rated at 300 HP or higher, which were assembled with certain crankshafts that were manufactured using a hammer-forged process. The FAA is continuing the investigation into the cause of the crankshaft failures, and further regulatory action may follow. This action is prompted by an additional crankshaft failure that was outside the population of crankshafts covered by AD 2002-17-53. This AD requires the same replacement of certain crankshafts before further flight, and includes material testing of certain crankshafts manufactured between March 1997 and the present. This AD also expands the applicability to include all IO-540 engines with crankshafts that were manufactured between March 1997 and the present that have been modified by STC by installing a turbocharger system. This condition, if not corrected, could result in crankshaft failure, which could result in total engine power loss, in-flight engine failure and possible forced landing.

Manufacturer's Service Information

The FAA has reviewed the technical contents of Lycoming Mandatory Service Bulletin (MSB) No. 552, dated August 16, 2002, that provide tables of the affected engine and crankshaft serial numbers (SN's).

FAA's Determination of an Unsafe Condition and Required Actions

Since an unsafe condition has been identified that is likely to exist or develop on other Textron Lycoming LTIO-540 and TIO-540 engines, rated at 300 HP or higher, and on IO-540 engines that have been modified by STC by installing a turbocharger system with certain crankshafts installed, this AD requires removal of certain crankshafts before further flight and material testing of certain other crankshafts.

Immediate Adoption of This AD

Since it was found that immediate corrective action was required, notice and opportunity for prior public comment thereon were impracticable and contrary to the public interest, and good cause existed to make the AD effective immediately on August 16, 2002, to all known U.S. owners and operators of Textron Lycoming LTIO-540 and TIO-540 engines, rated at 300 HP or higher. These conditions still exist, and the AD is hereby published in the **Federal Register** as an amendment to Section 39.13 of part 39 of the Federal Aviation Regulations (14 CFR part 39) to make it effective to all persons.

Comments Invited

Although this action is in the form of a final rule that involves requirements affecting flight safety and, thus, was not preceded by notice and an opportunity for public comment, comments are invited on this rule. Interested persons are invited to comment on this rule by submitting such written data, views, or arguments as they may desire. Communications should identify the Rules Docket number and be submitted in triplicate to the address specified under the caption **ADDRESSES**. All communications received on or before the closing date for comments will be considered, and this rule may be amended in light of the comments received. Factual information that supports the commenter's ideas and suggestions is extremely helpful in evaluating the effectiveness of the AD action and determining whether additional rulemaking action would be needed.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the rule that might suggest a need to modify the rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report that summarizes each FAA-public contact

concerned with the substance of this AD will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this notice must submit a self-addressed, stamped postcard on which the following statement is made: "Comments to Docket No. 2002-NE-03-AD." The postcard will be date stamped and returned to the commenter.

Regulatory Analysis

This final rule does not have federalism implications, as defined in Executive Order 13132, because it would not have a substantial direct effect on the States, on the relationship between the national government and the States, or on the distribution of power and responsibilities among the various levels of government. Accordingly, the FAA has not consulted with state authorities prior to publication of this final rule.

The FAA has determined that this regulation is an emergency regulation that must be issued immediately to correct an unsafe condition in aircraft, and is not a "significant regulatory action" under Executive Order 12866. It has been determined further that this action involves an emergency regulation under DOT Regulatory Policies and Procedures (44 FR 11034, February 26, 1979). If it is determined that this emergency regulation otherwise would be significant under DOT Regulatory Policies and Procedures, a final regulatory evaluation will be prepared and placed in the Rules Docket. A copy of it, if filed, may be obtained from the Rules Docket at the location provided under the caption **ADDRESSES**.

List of Subjects in 14 CFR Part 39

Air transportation, Aircraft, Aviation safety, Incorporation by reference, Safety.

Adoption of the Amendment

Accordingly, pursuant to the authority delegated to me by the Administrator, the Federal Aviation Administration amends part 39 of the Federal Aviation Regulations (14 CFR part 39) as follows:

PART 39—AIRWORTHINESS DIRECTIVES

1. The authority citation for part 39 continues to read as follows:

Authority: 49 U.S.C. 106(g), 40113, 44701.

§ 39.13 [Amended]

2. Section 39.13 is amended by adding the following new airworthiness directive:

2002-19-03 Textron Lycoming:
Amendment 39-12883. Docket No.
2002-NE-03-AD. Supersedes Emergency
AD 2002-17-53.

Applicability

This AD is applicable to all Textron
Lycoming LTIO-540 and TIO-540 engines,

rated at 300 horsepower (HP) or greater and
all IO-540 engines, rated at any HP, that have
been modified by supplemental type
certificate (STC) listed in Table 1 of this AD,
by installing a turbocharger system. These
engines are used on, but not limited to Piper
Navajo (PA 31, PA 31-350, and PA 31-325),

Piper Saratoga (PA 32-301T, PA 32R-301T),
Piper Aerostar (PA 60-700P), Piper Malibu
Mirage (PA 46-350P), Piper Mojave (PA 31P-
350) Appalachian Aircraft Corporation
Gavilan (EL-1), and Cessna T-206
airplanes. Table 1 follows:

TABLE 1.—LIST OF STC NUMBERS

SA000214DE	SA00356DE	SA01925AT	SA09650SC
SA469NE	SA2062WE	SA2118NM	SE2122WE
SA2123NM	SA257CE	SA2657WE	SA2082WE
SA305SO	SA3513WE	SA3719SW	SA385WE
SA4942NM	SA529WE	SA530WE	SA539WE
SA5699NM	SA811WE	SA840WE	SA909WE
SA978WE	SE00357DE	SE01949AT	SE1657NM
SE978NM	SE17WE	SE21WE	SE22WE
SE4157NM	SE5869SW	SE40WE	SE60WE
SE6WE	SE7734SW	SE81WE	SA01925AT
SA1648NM	SA4156NM	SA1747CE	SE4941NM
SA2656WE	SA000214DE		

Note 1: This AD applies to each engine
identified in the preceding applicability
provision, regardless of whether it has been
modified, altered, or repaired in the area
subject to the requirements of this AD. For
engines that have been modified, altered, or
repaired so that the performance of the
requirements of this AD is affected, the
owner/operator must request approval for an
alternative method of compliance in
accordance with paragraph (g) of this AD.
The request should include an assessment of

the effect of the modification, alteration, or
repair on the unsafe condition addressed by
this AD; and, if the unsafe condition has not
been eliminated, the request should include
specific proposed actions to address it.

Compliance

Compliance with this AD is required as
indicated unless already done.

To prevent crankshaft failure, which could
result in total engine power loss, in-flight

engine failure and possible forced landing,
do the following:

**LTIO-540 Engines, TIO-540 Engines, Rated
at 300 HP or Greater**

(a) If your engine SN is listed in Table 1
of Lycoming Mandatory Service Bulletin
(MSB) No. 552, dated August 16, 2002,
remove the crankshaft before further flight.

(b) If your engine SN is listed in Table 2
of this AD, do the following; Table 2 follows:

Table 2. Engine Serial Numbers for Crankshafts Manufactured from March 2002 to Present

Engine Model	Engine SN	Engine Model	Engine SN
TIO-540-A2B	9149-61A	TIO-540-AE2A	6711-61A
TIO-540-AE2A	10441-61A	TIO-540-AE2A	9808-61A
TIO-540-AE2A	10534-61A	TIO-540-AE2A	9946-61A
TIO-540-AE2A	10536-61A	TIO-540-AH1A	11264-61A
TIO-540-AE2A	10541-61A	TIO-540-AH1A	11301-61A
TIO-540-AE2A	10546-61A	TIO-540-AH1A	11305-61A
TIO-540-AE2A	10626-61A	TIO-540-AJ1A	11298-61A
TIO-540-AE2A	10649-61A	TIO-540-AJ1A	11303-61A
TIO-540-AE2A	10754-61A	TIO-540-AJ1A	11304-61A
TIO-540-AE2A	10757-61A	TIO-540-AJ1A	11315-61A
TIO-540-AE2A	10764-61A	TIO-540-AJ1A	11316-61A
TIO-540-AE2A	11283-61A	TIO-540-AJ1A	11319-61A
TIO-540-AE2A	11307-61A	TIO-540-J2BD	10394-61A
TIO-540-AE2A	4722-61A	TIO-540-J2BD	7712-61A
TIO-540-AE2A	4920-61A	TIO-540-J2BD	7783-61A
TIO-540-U2A	9892-61A		

(1) Contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181, within 10 hours time-in-service (TIS) to arrange for a crankshaft material test.

(2) Operation of the engine beyond 10 hours TIS after the effective date of this

AD or while the material is being tested is not permitted.

(3) If your crankshaft fails the material testing, remove the crankshaft before further flight.

(4) If your crankshaft passes the material testing, the crankshaft may be returned to service.

(c) If your engine SN is listed in Table 3 of this AD, do the following; Table 3 follows:

Table 3. Engine Serial Numbers for Crankshafts Manufactured from March 1997 to March 1999

Engine Model	Engine SN	Engine Model	Engine SN	Engine Model	Engine SN
LTIO-540-F2BD	399-68A	TIO-540-AE2A	10278-61A	TIO-540-AJ1A	10347-61A
LTIO-540-F2BD	1179-68A	TIO-540-AE2A	10303-61A	TIO-540-AJ1A	10348-61A
LTIO-540-F2BD	1632-68A	TIO-540-AE2A	10306-61A	TIO-540-AJ1A	10349-61A
LTIO-540-F2BD	1734-68A	TIO-540-AE2A	10318-61A	TIO-540-AJ1A	10370-61A
LTIO-540-F2BD	2811-68A	TIO-540-AE2A	10319-61A	TIO-540-AJ1A	10380-61A
LTIO-540-F2BD	2812-68A	TIO-540-AE2A	10331-61A	TIO-540-AJ1A	10383-61A
LTIO-540-J2B	244-68A	TIO-540-AE2A	10342-61A	TIO-540-AJ1A	10396-61A
LTIO-540-J2B	344-68A	TIO-540-AE2A	10345-61A	TIO-540-AJ1A	10402-61A
LTIO-540-J2B	797-68A	TIO-540-AE2A	10350-61A	TIO-540-AJ1A	10403-61A
LTIO-540-J2B	834-68A	TIO-540-AE2A	10360-61A	TIO-540-AJ1A	10410-61A
LTIO-540-J2B	870-68A	TIO-540-AE2A	10368-61A	TIO-540-AJ1A	10414-61A
LTIO-540-J2B	874-68A	TIO-540-AE2A	10374-61A	TIO-540-AJ1A	10418-61A
LTIO-540-J2B	911-68A	TIO-540-AE2A	10392-61a	TIO-540-AJ1A	10422-61A
LTIO-540-J2B	921-68A	TIO-540-AE2A	10407-61A	TIO-540-AJ1A	10439-61A
LTIO-540-J2B	930-68A	TIO-540-AE2A	10415-61A	TIO-540-AJ1A	10447-61A
LTIO-540-J2B	1053-68A	TIO-540-AE2A	10420-61A	TIO-540-AJ1A	10498-61A
LTIO-540-J2B	1070-68A	TIO-540-AE2A	10465-61A	TIO-540-AJ1A	10584-61A
LTIO-540-J2B	1100-68a	TIO-540-AE2A	10475-61A	TIO-540-AJ1A	10639-61A
LTIO-540-J2B	1103-68A	TIO-540-AE2A	10511-61A	TIO-540-AJ1A	10694-61A
LTIO-540-J2B	1169-68A	TIO-540-AE2A	10517-61A	TIO-540-AJ1A	11186-61A
LTIO-540-J2B	1184-68A	TIO-540-AE2A	10532-61A	TIO-540-AJ1A	11269-61A
LTIO-540-J2B	1287-68A	TIO-540-AE2A	10538-61A	TIO-540-F2BD	3171-61A
LTIO-540-J2B	1298-68A	TIO-540-AE2A	10539-61A	TIO-540-F2BD	5123-61A
LTIO-540-J2B	1466-68A	TIO-540-AE2A	10597-61A	TIO-540-F2BD	5719-61A
LTIO-540-J2B	1489-68A	TIO-540-AE2A	10782-61A	TIO-540-F2BD	6100-61A
LTIO-540-J2B	1520-68A	TIO-540-AE2A	10791-61A	TIO-540-F2BD	8286-61A
LTIO-540-J2B	1749-68A	TIO-540-AE2A	11056-61A	TIO-540-F2BD	10480-61A
LTIO-540-J2B	1780-68A	TIO-540-AE2A	11105-61A	TIO-540-J2B	476-61A
LTIO-540-J2B	1844-68A	TIO-540-AH1A	1005-61A	TIO-540-J2B	2567-61A
LTIO-540-J2B	1971-68A	TIO-540-AH1A	1369-61A	TIO-540-J2B	2812-61A
LTIO-540-J2B	2123-68A	TIO-540-AH1A	9879-61A	TIO-540-J2B	3284-61A

LTIO-540-J2B	2362-68A	TIO-540-AH1A	9896-61A	TIO-540-J2B	3500-61A
LTIO-540-J2B	2504-68A	TIO-540-AH1A	9925-61A	TIO-540-J2B	3562-61A
LTIO-540-J2B	2637-68A	TIO-540-AH1A	9933-61A	TIO-540-J2B	3575-61A
LTIO-540-J2B	2817-68A	TIO-540-AH1A	9935-61A	TIO-540-J2B	3628-61A
LTIO-540-J2B	2876-68A	TIO-540-AH1A	9936-61A	TIO-540-J2B	3730-61A
LTIO-540-J2B	2975-68A	TIO-540-AH1A	9949-61A	TIO-540-J2B	3921-61A
LTIO-540-J2B	2976-68A	TIO-540-AH1A	9950-61A	TIO-540-J2B	4009-61A
LTIO-540-J2B	2977-68A	TIO-540-AH1A	9955-61A	TIO-540-J2B	4218-61A
LTIO-540-J2B	2979-68A	TIO-540-AH1A	9957-61A	TIO-540-J2B	4567-61A
LTIO-540-J2B	2980-68A	TIO-540-AH1A	9959-61A	TIO-540-J2B	4727-61A
LTIO-540-J2BD	162-68A	TIO-540-AH1A	9961-61A	TIO-540-J2B	4782-61A
LTIO-540-J2BD	293-68A	TIO-540-AH1A	9974-61A	TIO-540-J2B	5053-61A
LTIO-540-J2BD	334-68A	TIO-540-AH1A	9975-61A	TIO-540-J2B	5242-61A
LTIO-540-J2BD	418-68A	TIO-540-AH1A	9977-61A	TIO-540-J2B	5547-61A
LTIO-540-J2BD	445-68A	TIO-540-AH1A	9978-61A	TIO-540-J2B	5899-61A
LTIO-540-J2BD	545-68A	TIO-540-AH1A	9981-61A	TIO-540-J2B	5934-61A
LTIO-540-J2BD	549-68A	TIO-540-AH1A	9983-61A	TIO-540-J2B	6186-61A
LTIO-540-J2BD	569-68A	TIO-540-AH1A	9986-61A	TIO-540-J2B	6290-61A
LTIO-540-J2BD	607-68A	TIO-540-AH1A	9991-61A	TIO-540-J2B	6300-61A
LTIO-540-J2BD	614-68A	TIO-540-AH1A	9992-61A	TIO-540-J2B	6303-61A
LTIO-540-J2BD	623-68A	TIO-540-AH1A	9995-61A	TIO-540-J2B	6402-61A
LTIO-540-J2BD	632-68A	TIO-540-AH1A	9996-61A	TIO-540-J2B	6506-61A
LTIO-540-J2BD	737-68A	TIO-540-AH1A	10003-61A	TIO-540-J2B	6788-61A
LTIO-540-J2BD	840-68A	TIO-540-AH1A	10007-61A	TIO-540-J2B	6845-61A
LTIO-540-J2BD	857-68A	TIO-540-AH1A	10013-61A	TIO-540-J2B	6892-61A
LTIO-540-J2BD	858-68A	TIO-540-AH1A	10017-61A	TIO-540-J2B	7223-61A
LTIO-540-J2BD	934-68A	TIO-540-AH1A	10025-61A	TIO-540-J2B	7313-61A
LTIO-540-J2BD	1052-68A	TIO-540-AH1A	10026-61A	TIO-540-J2B	8060-61A
LTIO-540-J2BD	1084-68A	TIO-540-AH1A	10030-61A	TIO-540-J2B	8114-61A
LTIO-540-J2BD	1088-68A	TIO-540-AH1A	10031-61A	TIO-540-J2B	8349-61A
LTIO-540-J2BD	1152-68A	TIO-540-AH1A	10032-61A	TIO-540-J2B	8629-61A
LTIO-540-J2BD	1210-68A	TIO-540-AH1A	10045-61A	TIO-540-J2B	8953-61A
LTIO-540-J2BD	1270-68A	TIO-540-AH1A	10046-61A	TIO-540-J2B	8992-61A
LTIO-540-J2BD	1311-68A	TIO-540-AH1A	10047-61A	TIO-540-J2B	9050-61A
LTIO-540-J2BD	1418-68A	TIO-540-AH1A	10054-61A	TIO-540-J2B	9200-61A

LTIO-540-J2BD	1484-68A	TIO-540-AH1A	10055-61A	TIO-540-J2B	9277-61A
LTIO-540-J2BD	1552-68A	TIO-540-AH1A	10066-61A	TIO-540-J2B	9942-61A
LTIO-540-J2BD	1600-68A	TIO-540-AH1A	10073-61A	TIO-540-J2B	9943-61A
LTIO-540-J2BD	1709-68A	TIO-540-AH1A	10074-61A	TIO-540-J2B	9944-61A
LTIO-540-J2BD	1752-68A	TIO-540-AH1A	10077-61A	TIO-540-J2B	9945-61A
LTIO-540-J2BD	1816-68A	TIO-540-AH1A	10087-61A	TIO-540-J2B	9958-61A
LTIO-540-J2BD	1841-68A	TIO-540-AH1A	10088-61A	TIO-540-J2B	9960-61A
LTIO-540-J2BD	1853-68A	TIO-540-AH1A	10096-61A	TIO-540-J2B	9967-61A
LTIO-540-J2BD	1924-68A	TIO-540-AH1A	10097-61A	TIO-540-J2B	9970-61A
LTIO-540-J2BD	1933-68A	TIO-540-AH1A	10122-61A	TIO-540-J2B	9972-61A
LTIO-540-J2BD	1951-68A	TIO-540-AH1A	10124-61A	TIO-540-J2B	10038-61A
LTIO-540-J2BD	1955-68A	TIO-540-AH1A	10130-61A	TIO-540-J2B	10039-61A
LTIO-540-J2BD	2011-68A	TIO-540-AH1A	10137-61A	TIO-540-J2B	10148-61A
LTIO-540-J2BD	2030-68A	TIO-540-AH1A	10139-61A	TIO-540-J2B	10149-61A
LTIO-540-J2BD	2046-68A	TIO-540-AH1A	10150-61A	TIO-540-J2B	10161-61A
LTIO-540-J2BD	2047-68A	TIO-540-AH1A	10156-61A	TIO-540-J2B	10162-61A
LTIO-540-J2BD	2101-68A	TIO-540-AH1A	10157-61A	TIO-540-J2B	10185-61A
LTIO-540-J2BD	2240-68A	TIO-540-AH1A	10165-61A	TIO-540-J2B	10186-61A
LTIO-540-J2BD	2246-68A	TIO-540-AH1A	10167-61A	TIO-540-J2B	10210-61A
LTIO-540-J2BD	2262-68A	TIO-540-AH1A	10176-61A	TIO-540-J2B	10211-61A
LTIO-540-J2BD	2290-68A	TIO-540-AH1A	10177-61A	TIO-540-J2B	10283-61A
LTIO-540-J2BD	2305-68A	TIO-540-AH1A	10183-61A	TIO-540-J2B	10285-61A
LTIO-540-J2BD	2319-68A	TIO-540-AH1A	10187-61A	TIO-540-J2B	10363-61A
LTIO-540-J2BD	2386-68A	TIO-540-AH1A	10195-61A	TIO-540-J2B	10430-61A
LTIO-540-J2BD	2437-68A	TIO-540-AH1A	10200-61A	TIO-540-J2BD	676-61A
LTIO-540-J2BD	2465-68A	TIO-540-AH1A	10218-61A	TIO-540-J2BD	2080-61A
LTIO-540-J2BD	2471-68A	TIO-540-AH1A	10221-61A	TIO-540-J2BD	2489-61A
LTIO-540-J2BD	2559-68A	TIO-540-AH1A	10223-61A	TIO-540-J2BD	2660-61A
LTIO-540-J2BD	2577-68A	TIO-540-AH1A	10229-61A	TIO-540-J2BD	2941-61A
LTIO-540-J2BD	2594-68A	TIO-540-AH1A	10239-61A	TIO-540-J2BD	3898-61A
LTIO-540-J2BD	2630-68A	TIO-540-AH1A	10247-61A	TIO-540-J2BD	4066-61A
LTIO-540-J2BD	2647-68A	TIO-540-AH1A	10250-61A	TIO-540-J2BD	4133-61A
LTIO-540-J2BD	2684-68A	TIO-540-AH1A	10258-61A	TIO-540-J2BD	4146-61A
LTIO-540-J2BD	2690-68A	TIO-540-AH1A	10259-61A	TIO-540-J2BD	4221-61A
LTIO-540-J2BD	2860-68A	TIO-540-AH1A	10271-61A	TIO-540-J2BD	4664-61A

LTIO-540-J2BD	2879-68A	TIO-540-AH1A	10272-61A	TIO-540-J2BD	4695-61A
LTIO-540-J2BD	2884-68A	TIO-540-AH1A	10279-61A	TIO-540-J2BD	4973-61A
LTIO-540-J2BD	2887-68A	TIO-540-AH1A	10284-61A	TIO-540-J2BD	5111-61A
LTIO-540-J2BD	2966-68A	TIO-540-AH1A	10298-61A	TIO-540-J2BD	5153-61A
LTIO-540-J2BD	2971-68A	TIO-540-AH1A	10299-61A	TIO-540-J2BD	5340-61A
LTIO-540-J2BD	2978-68A	TIO-540-AH1A	10304-61A	TIO-540-J2BD	5561-61A
LTIO-540-J2BD	2981-68A	TIO-540-AH1A	10312-61A	TIO-540-J2BD	5867-61A
LTIO-540-J2BD	2982-68A	TIO-540-AH1A	10317-61A	TIO-540-J2BD	6122-61A
LTIO-540-J2BD	2983-68A	TIO-540-AH1A	10330-61A	TIO-540-J2BD	6334-61A
LTIO-540-J2BD	2984-68A	TIO-540-AH1A	10344-61A	TIO-540-J2BD	6388-61A
LTIO-540-J2BD	2985-68A	TIO-540-AH1A	10353-61A	TIO-540-J2BD	6531-61A
TIO-540-A2B	791-61A	TIO-540-AH1A	10359-61A	TIO-540-J2BD	6540-61A
TIO-540-A2B	1119-61	TIO-540-AH1A	10375-61A	TIO-540-J2BD	6866-61A
TIO-540-A2B	2159-61	TIO-540-AH1A	10424-61A	TIO-540-J2BD	6942-61A
TIO-540-A2B	8594-61A	TIO-540-AH1A	10461-61A	TIO-540-J2BD	6973-61A
TIO-540-A2B	8610-61A	TIO-540-AH1A	10468-61A	TIO-540-J2BD	7024-61A
TIO-540-A2C	1215-61	TIO-540-AH1A	10482-61A	TIO-540-J2BD	7043-61A
TIO-540-A2C	1760-61A	TIO-540-AH1A	10507-61A	TIO-540-J2BD	7058-61A
TIO-540-A2C	2729-61A	TIO-540-AH1A	10531-61A	TIO-540-J2BD	7064-61A
TIO-540-A2C	3048-61A	TIO-540-AH1A	10554-61A	TIO-540-J2BD	7212-61A
TIO-540-A2C	3123-61A	TIO-540-AH1A	10602-61A	TIO-540-J2BD	7417-61A
TIO-540-A2C	3181-61A	TIO-540-AH1A	10609-61A	TIO-540-J2BD	7425-61A
TIO-540-A2C	3271-61A	TIO-540-AJ1A	104-61A	TIO-540-J2BD	7559-61A
TIO-540-A2C	3353-61A	TIO-540-AJ1A	9161-61A	TIO-540-J2BD	7677-61A
TIO-540-A2C	3392-61A	TIO-540-AJ1A	10020-61A	TIO-540-J2BD	7707-61A
TIO-540-A2C	3763-61A	TIO-540-AJ1A	10021-61A	TIO-540-J2BD	7857-61A
TIO-540-A2C	4327-61A	TIO-540-AJ1A	10022-61A	TIO-540-J2BD	7869-61A
TIO-540-A2C	4430-61A	TIO-540-AJ1A	10023-61A	TIO-540-J2BD	7980-61A
TIO-540-A2C	4557-61A	TIO-540-AJ1A	10036-61A	TIO-540-J2BD	8057-61A
TIO-540-A2C	4575-61A	TIO-540-AJ1A	10037-61A	TIO-540-J2BD	8165-61A
TIO-540-A2C	4685-61A	TIO-540-AJ1A	10040-61A	TIO-540-J2BD	8205-61A
TIO-540-A2C	4875-61A	TIO-540-AJ1A	10041-61A	TIO-540-J2BD	8223-61A
TIO-540-A2C	5315-61A	TIO-540-AJ1A	10049-61A	TIO-540-J2BD	8338-61A
TIO-540-A2C	5904-61A	TIO-540-AJ1A	10060-61A	TIO-540-J2BD	8400-61A
TIO-540-A2C	6897-61A	TIO-540-AJ1A	10061-61A	TIO-540-J2BD	8517-61A

TIO-540-A2C	6914-61A	TIO-540-AJ1A	10063-61A	TIO-540-J2BD	8518-61A
TIO-540-A2C	7307-61A	TIO-540-AJ1A	10085-61A	TIO-540-J2BD	8557-61A
TIO-540-A2C	8363-61A	TIO-540-AJ1A	10086-61A	TIO-540-J2BD	8680-61A
TIO-540-A2C	8571-61A	TIO-540-AJ1A	10090-61A	TIO-540-J2BD	9057-61A
TIO-540-A2C	8826-61A	TIO-540-AJ1A	10093-61A	TIO-540-J2BD	9078-61A
TIO-540-A2C	8982-61A	TIO-540-AJ1A	10099-61A	TIO-540-J2BD	9158-61A
TIO-540-A2C	9199-61A	TIO-540-AJ1A	10104-61A	TIO-540-J2BD	9175-61A
TIO-540-A2C	9927-61A	TIO-540-AJ1A	10105-61A	TIO-540-J2BD	9272-61A
TIO-540-A2C	10103-61A	TIO-540-AJ1A	10106-61A	TIO-540-J2BD	9430-61A
TIO-540-A2C	11086-61A	TIO-540-AJ1A	10107-61A	TIO-540-J2BD	9488-61A
TIO-540-AE2A	508-61A	TIO-540-AJ1A	10108-61A	TIO-540-J2BD	9772-61A
TIO-540-AE2A	882-61A	TIO-540-AJ1A	10109-61A	TIO-540-J2BD	9836-61A
TIO-540-AE2A	954-61A	TIO-540-AJ1A	10110-61A	TIO-540-J2BD	9870-61A
TIO-540-AE2A	1129-61A	TIO-540-AJ1A	10111-61A	TIO-540-J2BD	9877-61A
TIO-540-AE2A	1741-61A	TIO-540-AJ1A	10113-61A	TIO-540-J2BD	9973-61A
TIO-540-AE2A	3550-61A	TIO-540-AJ1A	10117-61A	TIO-540-J2BD	10009-61A
TIO-540-AE2A	4117-61A	TIO-540-AJ1A	10118-61A	TIO-540-J2BD	10015-61A
TIO-540-AE2A	4379-61A	TIO-540-AJ1A	10120-61A	TIO-540-J2BD	10024-61A
TIO-540-AE2A	4822-61A	TIO-540-AJ1A	10121-61A	TIO-540-J2BD	10044-61A
TIO-540-AE2A	6168-61A	TIO-540-AJ1A	10126-61A	TIO-540-J2BD	10068-61A
TIO-540-AE2A	6225-61A	TIO-540-AJ1A	10127-61A	TIO-540-J2BD	10082-61A
TIO-540-AE2A	6553-61A	TIO-540-AJ1A	10128-61A	TIO-540-J2BD	10083-61A
TIO-540-AE2A	6584-61A	TIO-540-AJ1A	10134-61A	TIO-540-J2BD	10094-61A
TIO-540-AE2A	6614-61A	TIO-540-AJ1A	10135-61A	TIO-540-J2BD	10095-61A
TIO-540-AE2A	7316-61A	TIO-540-AJ1A	10140-61A	TIO-540-J2BD	10152-61A
TIO-540-AE2A	7891-61A	TIO-540-AJ1A	10141-61A	TIO-540-J2BD	10194-61A
TIO-540-AE2A	8038-61A	TIO-540-AJ1A	10153-61A	TIO-540-J2BD	10216-61A
TIO-540-AE2A	8105-61A	TIO-540-AJ1A	10155-61A	TIO-540-J2BD	10276-61A
TIO-540-AE2A	8360-61A	TIO-540-AJ1A	10160-61A	TIO-540-J2BD	10612-61A
TIO-540-AE2A	9165-61A	TIO-540-AJ1A	10169-61A	TIO-540-J2BD	10763-61A
TIO-540-AE2A	9315-61A	TIO-540-AJ1A	10170-61A	TIO-540-J2BD	11106-61A
TIO-540-AE2A	9674-61A	TIO-540-AJ1A	10171-61A	TIO-540-S1AD	4754-61A
TIO-540-AE2A	9700-61A	TIO-540-AJ1A	10172-61A	TIO-540-S1AD	6218-61A
TIO-540-AE2A	9748-61A	TIO-540-AJ1A	10178-61A	TIO-540-S1AD	6907-61A
TIO-540-AE2A	9767-61A	TIO-540-AJ1A	10179-61A	TIO-540-S1AD	7147-61A

TIO-540-AE2A	9842-61A	TIO-540-AJ1A	10180-61A	TIO-540-S1AD	7474-61A
TIO-540-AE2A	9844-61A	TIO-540-AJ1A	10181-61A	TIO-540-S1AD	7555-61A
TIO-540-AE2A	9846-61A	TIO-540-AJ1A	10184-61A	TIO-540-S1AD	8396-61A
TIO-540-AE2A	9848-61A	TIO-540-AJ1A	10190-61A	TIO-540-S1AD	8851-61A
TIO-540-AE2A	9850-61A	TIO-540-AJ1A	10197-61A	TIO-540-S1AD	9411-61A
TIO-540-AE2A	9852-61A	TIO-540-AJ1A	10199-61A	TIO-540-S1AD	9874-61A
TIO-540-AE2A	9854-61A	TIO-540-AJ1A	10201-61A	TIO-540-U2A	921-61A
TIO-540-AE2A	9861-61A	TIO-540-AJ1A	10202-61A	TIO-540-U2A	2052-61A
TIO-540-AE2A	9862-61A	TIO-540-AJ1A	10203-61A	TIO-540-U2A	2837-61A
TIO-540-AE2A	9866-61A	TIO-540-AJ1A	10209-61A	TIO-540-U2A	3740-61A
TIO-540-AE2A	9906-61A	TIO-540-AJ1A	10213-61A	TIO-540-U2A	4160-61A
TIO-540-AE2A	9918-61A	TIO-540-AJ1A	10220-61A	TIO-540-U2A	4998-61A
TIO-540-AE2A	9919-61A	TIO-540-AJ1A	10222-61A	TIO-540-U2A	5219-61A
TIO-540-AE2A	9930-61A	TIO-540-AJ1A	10224-61A	TIO-540-U2A	5339-61A
TIO-540-AE2A	9931-61A	TIO-540-AJ1A	10226-61A	TIO-540-U2A	5493-61A
TIO-540-AE2A	9953-61A	TIO-540-AJ1A	10227-61A	TIO-540-U2A	6200-61A
TIO-540-AE2A	9962-61A	TIO-540-AJ1A	10231-61A	TIO-540-U2A	6667-61A
TIO-540-AE2A	9963-61A	TIO-540-AJ1A	10232-61A	TIO-540-U2A	6748-61A
TIO-540-AE2A	9964-61A	TIO-540-AJ1A	10233-61A	TIO-540-U2A	6990-61A
TIO-540-AE2A	9968-61A	TIO-540-AJ1A	10234-61A	TIO-540-U2A	7383-61A
TIO-540-AE2A	9985-61A	TIO-540-AJ1A	10235-61A	TIO-540-U2A	7410-61A
TIO-540-AE2A	9987-61A	TIO-540-AJ1A	10236-61A	TIO-540-U2A	7473-61A
TIO-540-AE2A	9994-61A	TIO-540-AJ1A	10237-61A	TIO-540-U2A	7495-61A
TIO-540-AE2A	9997-61A	TIO-540-AJ1A	10245-61A	TIO-540-U2A	7717-61A
TIO-540-AE2A	9998-61A	TIO-540-AJ1A	10246-61A	TIO-540-U2A	7806-61A
TIO-540-AE2A	10016-61A	TIO-540-AJ1A	10249-61A	TIO-540-U2A	9093-61A
TIO-540-AE2A	10028-61A	TIO-540-AJ1A	10253-61A	TIO-540-U2A	9456-61A
TIO-540-AE2A	10033-61A	TIO-540-AJ1A	10257-61A	TIO-540-U2A	9857-61A
TIO-540-AE2A	10034-61A	TIO-540-AJ1A	10261-61A	TIO-540-U2A	9873-61A
TIO-540-AE2A	10052-61A	TIO-540-AJ1A	10263-61A	TIO-540-U2A	9920-61A
TIO-540-AE2A	10053-61A	TIO-540-AJ1A	10264-61A	TIO-540-U2A	9934-61A
TIO-540-AE2A	10056-61A	TIO-540-AJ1A	10267-61A	TIO-540-U2A	10019-61A
TIO-540-AE2A	10057-61A	TIO-540-AJ1A	10268-61A	TIO-540-U2A	10035-61A
TIO-540-AE2A	10058-61A	TIO-540-AJ1A	10273-61A	TIO-540-U2A	10050-61A
TIO-540-AE2A	10075-61A	TIO-540-AJ1A	10277-61A	TIO-540-U2A	10051-61A

TIO-540-AE2A	10079-61A	TIO-540-AJ1A	10280-61A	TIO-540-U2A	10146-61A
TIO-540-AE2A	10080-61A	TIO-540-AJ1A	10281-61A	TIO-540-U2A	10147-61A
TIO-540-AE2A	10084-61A	TIO-540-AJ1A	10282-61A	TIO-540-U2A	10251-61A
TIO-540-AE2A	10123-61A	TIO-540-AJ1A	10286-61A	TIO-540-U2A	10252-61A
TIO-540-AE2A	10125-61A	TIO-540-AJ1A	10289-61A	TIO-540-U2A	10295-61A
TIO-540-AE2A	10143-61A	TIO-540-AJ1A	10293-61A	TIO-540-U2A	10307-61A
TIO-540-AE2A	10144-61A	TIO-540-AJ1A	10294-61A	TIO-540-U2A	10308-61A
TIO-540-AE2A	10145-61A	TIO-540-AJ1A	10296-61A	TIO-540-W2A	9928-61A
TIO-540-AE2A	10151-61A	TIO-540-AJ1A	10297-61A	TIO-540-W2A	9929-61A
TIO-540-AE2A	10154-61A	TIO-540-AJ1A	10302-61A	TIO-540-W2A	9937-61A
TIO-540-AE2A	10158-61A	TIO-540-AJ1A	10310-61A	TIO-540-W2A	9938-61A
TIO-540-AE2A	10163-61A	TIO-540-AJ1A	10311-61A	TIO-540-W2A	10006-61A
TIO-540-AE2A	10166-61A	TIO-540-AJ1A	10313-61A	TIO-540-W2A	10042-61A
TIO-540-AE2A	10191-61A	TIO-540-AJ1A	10314-61A	TIO-540-W2A	10043-61A
TIO-540-AE2A	10192-61A	TIO-540-AJ1A	10315-61A	TIO-540-W2A	10204-61A
TIO-540-AE2A	10193-61A	TIO-540-AJ1A	10316-61A	TIO-540-W2A	10207-61A
TIO-540-AE2A	10198-61A	TIO-540-AJ1A	10320-61A	TIO-540-X120	9882-61A
TIO-540-AE2A	10205-61A	TIO-540-AJ1A	10321-61A	TIO-540-X120	9887-61A
TIO-540-AE2A	10206-61A	TIO-540-AJ1A	10322-61A	TIO-540-X120	9891-61A
TIO-540-AE2A	10208-61A	TIO-540-AJ1A	10325-61A	TIO-540-X120	9893-61A
TIO-540-AE2A	10228-61A	TIO-540-AJ1A	10326-61A	TIO-540-X120	9894-61A
TIO-540-AE2A	10238-61A	TIO-540-AJ1A	10327-61A	TIO-540-X120	9904-61A
TIO-540-AE2A	10248-61A	TIO-540-AJ1A	10328-61A	TIO-540-X120	9905-61A
TIO-540-AE2A	10254-61A	TIO-540-AJ1A	10329-61A	TIO-540-X120	9908-61A
TIO-540-AE2A	10255-61A	TIO-540-AJ1A	10332-61A	TIO-540-X120	9909-61A
TIO-540-AE2A	10256-61A	TIO-540-AJ1A	10333-61A	TIO-540-X120	9922-61A
TIO-540-AE2A	10260-61A	TIO-540-AJ1A	10334-61A	TIO-540-X120	9923-61A
TIO-540-AE2A	10262-61A	TIO-540-AJ1A	10335-61A	TIO-540-X120	9924-61A
TIO-540-AE2A	10265-61A	TIO-540-AJ1A	10339-61A	TIO-540-X143	101115-61
TIO-540-AE2A	10269-61A	TIO-540-AJ1A	10340-61A		
TIO-540-AE2A	10270-61A	TIO-540-AJ1A	10346-61A		

(1) Contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181, contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181 within 50 hours time-in-service (TIS) or 6 months after the effective date of this AD, whichever occurs earlier, to arrange for a crankshaft material test.

(2) Operation of the engine beyond 50 hours TIS or 6 months after the effective

date of this AD, whichever occurs earlier, or while the material is being tested is not permitted.

(3) If your crankshaft fails the material testing, remove the crankshaft before further flight.

(4) If your crankshaft passes the material testing, the crankshaft may be returned to service.

IO-540 Engines Modified by STC by Installing a Turbocharger System and All Engines That Have Been Overhauled

(d) If your engine was manufactured, overhauled or had the crankshaft replaced after March 1, 1997, and your engine SN is not covered in paragraphs (a), (b), or (c) of this AD, do the following:

(1) Determine the SN of your crankshaft.
 (2) If your crankshaft SN is listed in Table 2 of Lycoming MSB 552, dated

August 16, 2002, remove the crankshaft before further flight.

(3) If your crankshaft SN is listed in Table 4 of this AD, do the following; Table 4 follows:

Table 4 SN's of Crankshafts Manufactured From March 2002 to Present

V537925679	V537924595	V537925619	V537925665
V537925690	V537925649	V537925609	V537925668
V537925681	V537925695	V537925617	V537925674
V537925689	V537925702	V537925595	V537925651
V537925656	V537925841	V537925627	V537925697
V537924599	V537925644	V537925626	V537925672
V537925864	V537924597	V537925635	V537925712
V537925877	V537925653	V537925613	V537925868
V537925678	V537925639	V537925629	V537924598
V537925711	V537925634	V537925601	V537925675
V537925870	V537925638	V537925625	V537925851
V537925842	V537925606	V537925598	V537925623
V537925838	V537925593	V537924596	

(i) Contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181, within 10 hours time-in-service (TIS) to arrange for a crankshaft material test.

(ii) Operation of the engine beyond 10 hours TIS after the effective date of this

AD or while the material is being tested is not permitted.

(iii) If your crankshaft fails the material testing, remove the crankshaft before further flight.

(iv) If your crankshaft passes the material testing, the crankshaft may be returned to service.

(4) If your crankshaft SN is listed in Table 5 of this AD, do the following; Table 5 follows:

Table 5. Crankshafts Manufactured From March 1997 through March 1999 By SN

0037	V53790300	V537910159	V53795379	V537910654	V53799491
0039A	V53790309	V537910160	V537910555	V537910655	V53799492
0048A	V53790311	V537910161	V537910557	V537910658	V537911246
I17424	V53790312	V537910162	V537910558	V537910659	V537911247
I17425	V53790314	V537910163	V537910559	V53791066	V537911248
I17426	V53790322	V537910165	V537910562	V537910660	V537911249
I17429	V53790324	V537910167	V537910565	V537910661	V537911251
I17438	V53790327	V537910168	V537910567	V537910661	V537911252
I17440	V53790339	V537910169	V537910570	V537910662	V537911253
I17441	V53790407	V537910222	V537910571	V537910663	V537911255
I17442	V53790542	V537910246	V537910572	V537910667	V537911257
I17444	V537910002	V537910248	V537910573	V537910668	V537911260
I17488	V537910003	V537910250	V537910574	V53791067	V537911261
I17491	V537910004	V537910251	V537910576	V537910672	V537911263
I17493	V537910005	V537910252	V537910577	V537910673	V537911267
I17494	V537910006	V537910253	V537910580	V537910675	V537911269
I17497	V537910007	V537910254	V537910581	V537910677	V537911270
I17498	V537910008	V537910260	V537910582	V537910679	V537911271
I17668	V537910009	V537910266	V537910583	V53791068	V537911272
I17669	V537910010	V537910267	V537910584	V537910680	V537911273
I17672	V537910011	V537910280	V537910585	V537910836	V537911274
I17675	V537910013	V537910291	V537910586	V537911201	V537911275
I17679	V537910014	V53791043	V537910588	V537911203	V537911277
I17681	V537910017	V537910472	V537910590	V537911204	V537911278
I17682	V537910018	V537910486	V537910591	V537911205	V537911280
I17683	V537910021	V537910487	V537910597	V537911206	V537911281
I17685	V537910022	V537910488	V537910598	V537911209	V537911284
I17686	V537910023	V537910490	V537910599	V537911210	V537911285
I17690	V537910024	V537910492	V537910600	V537911211	V537911286
I17692	V537910025	V537910493	V537910602	V537911213	V537911287
I17693	V537910026	V537910494	V537910603	V537911214	V537911289
I17695	V537910027	V537910495	V537910604	V537911216	V537911292

I17696	V537910028	V537910496	V537910605	V537911217	V537911293
I17698	V537910029	V537910501	V537910612	V537911221	V537911295
I17700	V537910030	V537910502	V537910614	V537911223	V537911299
I17701	V537910032	V537910504	V537910615	V537911225	V537911301
I17702	V537910033	V537910505	V537910616	V537911227	V537911303
I17703	V537910034	V537910507	V537910617	V537911228	V537911306
I17704	V537910036	V537910508	V537910618	V537911231	V537911307
I17708	V537910038	V537910509	V537910620	V537911232	V537911309
I17709	V537910039	V537910510	V537910621	V537911237	V537911310
I17711	V537910040	V537910511	V537910622	V537911238	V537911313
I17712	V537910041	V537910532	V537910625	V537911241	V537911314
I17716	V537910042	V537910536	V537910627	V537912218	V537911315
V53790015	V537910043	V537910538	V537910630	V537912219	V537911316
V53790017	V537910045	V537910539	V537910632	V537912220	V537911318
V53790035	V53791013	V537910546	V537910633	V537912221	V537911319
V53790114	V53791014	V537910549	V537910635	V537912222	V537911325
V53790138	V537910151	V537910551	V537910636	V537912224	V537911394
V53790261	V537910154	V537910552	V537910637	V537912609	V537911469
V537911476	V537910156	V537910553	V537910638	V537912614	V537911472
V537911477	V537911856	V537912072	V53791064	V537912618	V537911473
V537911479	V537911857	V537912073	V537912135	V537912620	V537911474
V537911480	V537911858	V537912074	V537912136	V537912621	V537913280
V537911482	V537911859	V537912075	V537912137	V537912629	V537913287
V537911482	V537911862	V537912077	V537912138	V537912630	V537913422
V537911486	V537911863	V537912078	V537912139	V537912631	V53791344
V537911487	V537911865	V537912079	V537912140	V537912633	V537913511
V537911488	V537911873	V537912081	V537912141	V537912634	V537913518
V537911490	V53791202	V537912082	V537912142	V537912636	V537913524
V537911491	V537912020	V537912084	V537912143	V537912637	V537913545
V537911493	V537912022	V537912085	V537912144	V537912638	V537913692
V537911495	V537912024	V537912086	V537912146	V537912639	V537913705
V537911501	V537912025	V537912088	V537912147	V537912640	V537914210
V537911503	V537912026	V537912089	V537912148	V537912651	V537914279
V537911504	V537912027	V537912090	V537912149	V537912653	V537914281
V537911505	V537912028	V537912091	V537912150	V537912654	V53791429

V537911506	V537912029	V537912092	V537912151	V537912655	V537914298
V537911509	V537912030	V537912094	V537912152	V537912656	V537914310
V537911511	V537912033	V537912095	V537912153	V537912658	V537914315
V537911515	V537912034	V537912096	V537912154	V537912660	V53791432
V537911517	V537912035	V537912097	V537912155	V537912661	V53791433
V53791152	V537912036	V537912100	V537912156	V537912662	V53791438
V537911522	V537912037	V537912101	V537912160	V537912664	V53791443
V537911523	V537912039	V537912103	V537912161	V537912665	V53791443
V537911532	V537912040	V537912105	V537912162	V53791291	V53791444
V53791161	V537912041	V537912106	V537912163	V537912913	V53791446
V53791170	V537912042	V537912107	V537912164	V537912923	V53791447
V537911803	V537912043	V537912108	V537912166	V537912926	V53791448
V537911818	V537912045	V537912109	V537912167	V537912927	V53791450
V537911819	V537912046	V537912109	V537912168	V537912927	V537914696
V537911820	V537912047	V537912110	V537912170	V537912931	V537914921
V537911822	V537912048	V537912111	V537912173	V537912933	V537915021
V537911824	V537912050	V537912112	V537912177	V537912934	V537915037
V537911826	V537912051	V537912113	V537912181	V537912935	V537915178
V537911827	V537912052	V537912114	V537912182	V537912936	V537915220
V537911832	V537912054	V537912115	V537912183	V537912937	V537915291
V537911833	V537912055	V537912117	V537912184	V537912941	V53791535
V537911834	V537912056	V537912118	V537912186	V537912964	V537915350
V537911838	V537912057	V537912119	V537912189	V537912988	V537915840
V537911839	V537912058	V537912120	V537912191	V537913261	V537915922
V537911840	V537912059	V537912124	V537912193	V537913261	V537915943
V537911842	V537912060	V537912125	V537912194	V537913272	V537915989
V537911846	V537912062	V537912126	V537912196	V537913277	V537915990
V537911847	V537912063	V537912128	V537912197	V53792770	V537915996
V537911848	V537912064	V537912129	V537912198	V53792771	V537916014
V537911850	V537912065	V537912129	V537912200	V53792773	V537916140
V537911851	V537912067	V537912130	V537912205	V53792774	V53791623
V537911853	V537912068	V537912131	V537912206	V53792777	V53791624
V537911854	V537912069	V537912132	V537912208	V53792778	V53791625
V537911855	V537912070	V537912133	V537912211	V53792779	V53791626
V53791633	V537912071	V537912134	V537912214	V53792780	V53791628

V53791635	V53791881	V53792105	V537912215	V53792782	V53791629
V53791637	V53791882	V53792106	V53792398	V53792786	V53791630
V53791654	V53791883	V53792107	V53792399	V53792788	V53793121
V53791740	V53791887	V53792108	V53792400	V53792789	V53793122
V53791741	V53791888	V53792110	V53792401	V53792791	V53793123
V53791743	V53791890	V53792111	V53792402	V53792792	V53793126
V53791749	V53791894	V53792112	V53792403	V53792795	V53793130
V53791751	V53791895	V53792114	V53792405	V53792798	V53793131
V53791753	V53791902	V53792115	V53792486	V53792799	V53793132
V53791754	V53791903	V53792118	V53792568	V53792846	V53793133
V53791755	V53791908	V53792120	V53792570	V53792847	V53793134
V53791756	V53791909	V53792172	V53792572	V53792848	V53793135
V53791787	V53791910	V53792215	V53792573	V53792850	V53793136
V53791790	V53791916	V53792216	V53792576	V53792852	V53793137
V53791796	V53791917	V53792222	V53792577	V53792854	V53793139
V53791797	V53791920	V53792223	V53792579	V53792857	V53793140
V53791799	V53791924	V53792224	V53792581	V53792858	V53793141
V53791800	V53791924	V53792226	V53792583	V53792970	V53793142
V53791804	V53791925	V53792229	V53792586	V53792981	V53793147
V53791805	V53791927	V53792236	V53792726	V53792983	V53793152
V53791806	V53791928	V53792238	V53792753	V53792985	V53793155
V53791809	V53791929	V53792239	V53792754	V53792988	V53793156
V53791810	V53791931	V53792240	V53792756	V53792991	V53793157
V53791812	V53791948	V53792242	V53792757	V53792995	V53793158
V53791813	V53791955	V53792243	V53792758	V53792996	V53793159
V53791820	V53791956	V53792244	V53792759	V53792998	V53793160
V53791823	V53791957	V53792245	V53792762	V53792999	V53793161
V53791824	V53791959	V53792247	V53792763	V53793000	V53793342
V53791828	V53791964	V53792292	V53792766	V53793003	V53793343
V53791833	V53791979	V53792296	V53792767	V53793004	V53793344
V53791835	V53791995	V53792307	V53792768	V53793005	V53793345
V53791836	V53792081	V53792308	V53792769	V53793006	V53793347
V53791838	V53792084	V53792309	V53795380	V53793007	V53793348
V53791839	V53792085	V53792310	V53795381	V53793008	V53793349
V53791841	V53792086	V53792312	V53795382	V53793011	V53793352

V53791842	V53792087	V53792313	V53795384	V53793013	V53793353
V53791847	V53792089	V53792314	V53795386	V53793014	V53793355
V53791868	V53792090	V53792316	V53795387	V53793015	V53793357
V53791876	V53792091	V53792317	V53795389	V53793017	V53793359
V53791878	V53792092	V53792394	V53795390	V53793018	V53793360
V53793382	V53792094	V53792396	V53795391	V53793021	V53793361
V53793383	V53792096	V53792397	V53795392	V53793022	V53793363
V53793384	V53792098	V53794873	V53795393	V53793026	V53793365
V53793385	V53792099	V53794874	V53795394	V53795453	V53793368
V53793776	V53792100	V53794877	V53795396	V53795501	V53793369
V53793777	V53792101	V53794879	V53795400	V53795630	V53793370
V53793779	V53792102	V53794881	V53795401	V53795670	V53793371
V53793781	V53792103	V53794883	V53795402	V53795673	V53793373
V53793782	V53794111	V53794884	V53795403	V53796525	V53793374
V53793783	V53794153	V53794886	V53795405	V53796611	V53793375
V53793784	V53794154	V53794888	V53795406	V53796640	V53793376
V53793786	V53794156	V53794889	V53795412	V53796641	V53793379
V53793788	V53794157	V53794890	V53795413	V53796642	V53793381
V53793789	V53794158	V53794892	V53795414	V53796662	V53799493
V53793790	V53794159	V53794893	V53795415	V53796663	V53799496
V53793791	V53794161	V53794894	V53795416	V53796671	V53799497
V53793792	V53794163	V53794895	V53795417	V53796673	V53799498
V53793798	V53794335	V53795061	V53795418	V53796674	V53799499
V53793885	V53794336	V53795062	V53795419	V53796678	
V53793886	V53794338	V53795141	V53795420	V53796679	
V53793887	V53794339	V53795253	V53795421	V53796680	
V53793889	V53794809	V53795254	V53795422	V53796824	
V53793890	V53794810	V53795255	V53795423	V53796828	
V53793906	V53794811	V53795256	V53795424	V53796834	
V53793908	V53794812	V53795264	V53795426	V53797355	
V53793910	V53794812	V53795269	V53795428	V53797417	
V53793911	V53794813	V53795272	V53795429	V53797418	
V53793913	V53794815	V53795277	V53795433	V53797419	
V53793914	V53794822	V53795278	V53795436	V53797421	
V53793915	V53794824	V53795279	V53795437	V53797427	

V53793916	V53794827	V53795280	V53795438	V53797428
V53793917	V53794828	V53795281	V53795439	V53797433
V53793918	V53794830	V53795283	V53795440	V53797434
V53793919	V53794831	V53795284	V53795441	V53797435
V53793921	V53794833	V53795285	V53795443	V53797436
V53793924	V53794835	V53795287	V53795444	V53797439
V53794013	V53794836	V53795288	V53795445	V53797440
V53794017	V53794837	V53795289	V53795447	V53797441
V53794027	V53794838	V53795290	V53795448	V53798425
V53794029	V53794840	V53795291	V53795449	V53799427
V53794033	V53794841	V53795292	V53795450	V53799473
V53794037	V53794842	V53795296	V53795451	V53799474
V53794038	V53794843	V53795313	V53795452	V53799475
V53794040	V53794844	V53795368	V537910640	V53799478
V53794043	V53794845	V53795369	V537910643	V53799479
V53794044	V53794846	V53795372	V537910643	V53799481
V53794045	V53794847	V53795373	V537910644	V53799485
V53794046	V53794848	V53795374	V537910645	V53799486
V53794047	V53794849	V53795375	V537910646	V53799488
V53794048	V53794851	V53795376	V53791065	V53799489
V53794051	V53794852	V53795377	V537910652	V53799490

BILLING CODE 4910-13-C

(i) Contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181, contact Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A.; telephone (570) 323-6181 within 50 hours time-in-service (TIS) or 6 months after the effective date of this AD, whichever occurs earlier, to arrange for a crankshaft material test.

(ii) Operation of the engine beyond 50 hours TIS or 6 months after the effective date of this AD, whichever occurs earlier, or while the material is being tested is not permitted.

(iii) If your crankshaft fails the material testing, remove the crankshaft before further flight.

(iv) If your crankshaft passes the material testing, the crankshaft may be returned to service.

Disposition of Crankshafts That Have Passed the Material Test

(e) A crankshaft that has passed the Lycoming material testing may be returned to service.

Disposition of Crankshafts That Have Failed the Material Test

(f) After the effective date of this AD, do not install in any engine, any crankshaft that has failed the material test.

Denial of Alternative Methods of Compliance

(g) An alternative method of compliance to perform material testing on crankshafts listed by SN in Table 2 of Lycoming MSB 552, dated August 16, 2002, will not be approved.

Special Flight Permits

(h) Special flight permits may be issued in accordance with §§ 21.197 and 21.199 of the Federal Aviation Regulations (14 CFR 21.197 and 21.199) to operate the airplane to a location where the requirements of this AD can be done.

Documents That Have Been Incorporated By Reference

(i) The actions must be done in accordance with the following Lycoming Mandatory Service Bulletin

No. 552, dated August 16, 2002. 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 Lycoming, 652 Oliver Street, Williamsport, PA 17701, U.S.A. Copies may be inspected at the FAA, New England Region, Office of the Regional 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.

Effective Date

(j) This amendment becomes effective September 20, 2002.

Issued in Burlington, Massachusetts, on September 16, 2002.

Francis A. Favara,

Acting Manager, Engine and Propeller Directorate, Aircraft Certification Service.
[FR Doc. 02-24030 Filed 9-19-02; 8:45 am]

BILLING CODE 4910-13-P