

**MANDATORY  
SERVICE BULLETIN**

DATE: March 7, 2001 Service Bulletin No. 547  
Engineering Aspects are  
FAA Approved

SUBJECT: Connecting Rod Bearing Replacement on TIO-540-AE2A Model Engines  
(Compliance with Textron Lycoming Special Advisory No. 59-800)

MODELS AFFECTED: I. Any Textron Lycoming model TIO-540-AE2A engine listed on ATTACHMENT I  
that has not complied with the connecting rod bearing replacement requirement of  
Special Advisory No. 59-800.

II. Except if replaced in compliance with Special Advisory No. 59-800, any TIO-540-  
AE2A engine known to have had connecting rod bearings field replaced after  
August 25, 1995.

**NOTE**

Only genuine Lycoming parts are approved for use for replacement.

TIME OF COMPLIANCE: At earliest possible opportunity, but no later than October 1, 2001.

Textron Lycoming issued Special Advisory No. 59-800 on August 31, 2000. There had been two instances of connecting rod bearing failures on relatively low time TIO-540-AE2A engines. The failure could result in a disintegration of the bearing due to delamination of the bearing surface. Lycoming found no apparent operational or dimensional cause for the reported occurrences; however, in an effort to minimize any chance of an additional occurrence, Lycoming instituted a mandatory replacement program to equip the subject engines with new connecting rod bearings (P/N 18M22676) with increased durability. The program was initiated on October 2, 2000. Special details concerning this program were forwarded to TIO-540-AE2A owners.

Textron Lycoming has made an extensive effort to locate and contact all owners of affected engines, and as a result, most of the engines have had the required bearing replacement. Service Bulletin No. 547 is issued to advise those affected owners/operators who have not been contacted or who have not yet replaced connecting rod bearings in compliance with Special Advisory No. 59-800 that compliance is mandatory.

Until the subject engine has been upgraded with new bearings, Lycoming requires that the oil and filter change interval be reduced to 10 hours and a mandatory filter and suction screen inspection be accomplished at each interval. The filter inspection consists of removing the paper filter element and examining the folds for any metal particles. Only ashless dispersant type engine lubricating oil which conforms to SAE J1899 is recommended. Lycoming can assist with the analysis of any material by returning the sample to the attention of the Textron Lycoming Service Department, 652 Oliver Street, Williamsport, PA 17701.

**Make appropriate logbook entry of compliance at each oil change and filter and suction screen inspection.**

**WARRANTY:**

1. Until the bearing replacement is completed but not to exceed beyond October 1, 2001, the cost of the additional oil and filter changes will be covered under warranty. Warranty applications should be forwarded to The New Piper Aircraft Warranty Department.
2. Warranty coverage for bearing replacement in compliance with Special Advisory 59-800 is available only until October 1, 2001. Contact an approved shop (refer to ATTACHMENT II) as soon as possible for scheduling information.

NOTE: P/N 18M22676 bearings and all parts necessary to change bearings are included in kit P/N 05K23068.

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## **ATTACHMENT I – Service Bulletin No. 547**

Following is a list of serial numbers of new, remanufactured, overhauled and factory repaired engines shipped from the factory after August 25, 1995.

L-954-61A, L-2631-61A, L-3550-61A, RL-4157-61A, L-5154-61A, L-5682-61A, L-6225-61A, L-6584-61A, L-7100-61A, L-7280-61A, L-7316-61A, L-8536-61A, L-9004-61A, L-9160-61A, L-9165-61A, L-9594-61A, L-9675-61A, L-9692-61A, L-9693-61A, L-9702-61A, L-9712-61A, L-9713-61A, L-9715-61A, L-9716-61A, L-9718-61A, L-9731-61A, L-9736-61A, L-9744-61A, L-9746-61A, L-9748-61A, L-9758-61A, L-9760-61A, L-9766-61A, L-9779-61A, L-9780-61A, L-9783-61A, L-9789-61A, L-9791-61A, L-9795-61A, L-9800-61A, L-9808-61A, L-9814-61A, L-9817-61A, L-9819-61A, L-9820-61A, L-9821-61A, L-9823-61A, L-9831-61A, L-9859-61A, L-9861-61A, L-9951-61A, L-9968-61A, L-9987-61A, L-10034-61A, L-10056-61A, L-10057-61A, L-10145-61A, L-10205-61A, L-10206-61A, L-10208-61A, L-10269-61A, L-10270-61A, L-10319-61A, L-10393-61A, L-10399-61A, L-10407-61A, L-10462-61A, L-10463-61A, L-10532-61A, L-10535-61A, L-10538-61A, L-10539-61A, L-10572-61A, L-10611-61A.

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**ATTACHMENT II – PAGE 1 – Service Bulletin No. 547**

Following is a list of approved shops for compliance with Special Advisory No. 59-800.

AIRCRAFT MAINTENANCE SPECIALIST INC.  
11550 Aviation Blvd.  
Suite 4  
West Palm Beach, FL 33412  
Phone: 561-625-7979  
Fax: 561-625-6818

COLUMBIA AIRCRAFT SERVICES  
Groton New London Airport  
Groton, CT 06340  
Phone: 860-449-1257  
Fax: 860-449-9924

CUTTER AVIATION INC.  
3100 Donald Douglas Loop North  
Santa Monica, CA 90405  
Phone: 310-399-0480  
Fax: 310-399-0551

DES MOINES FLYING SERVICE INC.  
5600 Fleur Drive  
Des Moines, IA 50315  
Phone: 515-256-5300  
Fax: 515-256-5359

FLIGHTLINE GROUP INC.  
3256 Capital Circle SW  
Tallahassee, FL 32310  
Phone: 850-574-4444  
Fax: 850-576-4210

KANSAS CITY AVIATION CENTER INC.  
151<sup>st</sup> Street and Pflumm Road  
Johnson County Executive Airport  
Olathe, KS 66062  
Phone: 800-475-5222  
Fax: 913-782-3638

MEAD AIRCRAFT SERVICES INC.  
Hutchinson Municipal Airport  
Hutchinson, KS 67504  
Phone: 316-585-2180  
Fax: 316-585-2180

NORTHERN AIR INC.  
5500 44<sup>th</sup> Street  
Suite 1  
Grand Rapids, MI 49512  
Phone: 800-262-4953  
Fax: 616-336-4770

AVIATION SALES INC.  
12260 East Control Tower Road  
Englewood, CO 80112  
Phone: 303-799-9999  
Fax: 303-799-6130

CUTTER AVIATION INC.  
530 West Deer Valley Road  
Phoenix, AZ 85027  
Phone: 623-581-1444  
Fax: 623-581-1555

CUTTER AVIATION INC.  
367 Sandau Road  
San Antonio, TX 78216  
Phone: 210-340-6780  
Fax: 210-340-8804

FLIGHTCRAFT INC.  
90454 Boeing Drive  
Eugene, OR 97402  
Phone: 541-688-9291  
Fax: 541-688-5749

INTERMOUNTAIN AIR LLC  
301 North 2370 West  
Salt Lake City, UT 84116  
Phone: 800-433-9617  
Fax: 801-521-6534

LY-CON REBUILDERS INC.  
8231 West Doe Avenue  
Visalia, CA 93291  
Phone: 559-651-1070  
Fax: 559-651-3212

MUNCIE AVIATION COMPANY  
5201 North Walnut Street  
Muncie, IN 47303  
Phone: 800-289-7141  
Fax: 765-289-0145

SHORELINE AVIATION & MARINE INC.  
Marshfield Municipal Airport  
Old Colony Lane  
Marshfield, MA 02050  
Phone: 781-834-4928  
Fax: 781-837-5103

**ATTACHMENT II – PAGE 2 – Service Bulletin No. 547**

**SIGNATURE COMBS AIRCRAFT SALES INC.**

2540 Winchester Road  
Memphis, TN 38116  
Phone: 901-345-4744  
Fax: 901-345-4785

**SUN AVIATION INC.**

3106 Cherokee Road  
Vero Beach, FL 32961  
Phone: 561-562-9257 Ext. 610  
Fax: 561-562-5369

**TRIAD AVIATION**

3439 South Aviation Drive  
Burlington, NC 27215  
Phone: 336-227-1467  
Fax: 336-227-1258

**CSE AVIATION LIMITED**

Oxford Airport  
Kidlington, Oxford O5X 1RA  
England  
Phone: 44-1-865-844207  
Fax: 44-1-865-844287

**RECTIMO AVIATION SA**

Aeroport De Chambery  
Aix-Les-Bains  
F-73420 Viviers Du Lac,  
France  
Phone: 33-4-79-520000  
Fax: 33-4-79-544020

**SAAB NYGE AERO AB**

Skavsta Airport  
Nykoeping S-61127  
Sweden  
Phone: 46-155-77100  
Fax: 46-155-285248

**SKYTECH INC.**

701 Wilson Point Road  
Baltimore, MD 21220  
Phone: 410-574-4144  
Fax: 410-574-9627

**TEXTRON LYCOMING SERVICE CENTER**

400 Airport Road  
Montoursville, PA 17754  
Phone: 570-327-7308  
Fax: 570-368-2735

**VICTOR AVIATION**

1901 Embarcadero Road  
Palo Alto, CA 94303  
Phone: 650-856-7616 Ext. 3  
Fax: 650-856-1743

**PLACO PTY. LTD.**

Hangar 14  
Rand Airport  
Republic of South Africa  
Phone: 27-11-827-9301  
Fax: 27-11-824-3661

**ROEDER PRAEZISION GMBH**

Flugplatz  
D-34379 Egelsbach,  
Germany  
Phone: 49-6103-4002920  
Fax: 49-6103-4002710

**TEXTRON FIELD REPRESENTATIVE**

116 Tara Wera Road  
Rotorua, NZ 3215  
New Zealand  
Phone: 64-7-345-3656  
Fax: 64-7-345-3657