

MANDATORY SERVICE BULLETIN

DATE: August 6, 2004 Service Bulletin No. 561

SUBJECT: Connecting Rod Bearing Replacement on (L)TIO-540-U2A, -V2AD, and -W2A Engines

MODELS AFFECTED: Any Lycoming factory new or overhauled model (L)TIO-540-U2A, -V2AD, and -W2A engines listed on ATTACHMENT I.

Any (L)TIO-540-U2A, -V2AD or -W2A engines that have had genuine Lycoming P/N LW-13212 connecting rod bearing installed during field overhaul or field maintenance between August 25, 1995 and the date of this Service Bulletin.

TIME OF COMPLIANCE: Replace bearings as scheduled with an approved facility listed in ATTACHMENT II. Change oil at 10-hour intervals until new connecting rod bearings are installed.

Instances of a connecting rod bearing failure have occurred recently on (L)TIO-540-U2A engines. The failure results in a disintegration of the bearing most likely due to delamination of the bearing surface. Lycoming has found no apparent operational or dimensional cause for these occurrences; however, in an effort to minimize any chance of an additional occurrence, Lycoming is instituting a mandatory replacement program to equip the subject engines with connecting rod bearings with increased durability. The specific details concerning this program may be obtained from Lycoming Engines at (570)323-6181.

Replacement of connecting rod bearings will be done at approved shops listed on ATTACHMENT II.

Until the subject engine has been upgraded with new bearings, Lycoming requires that the oil and filter change interval be reduced to 10 hours with a mandatory filter and suction screen inspection 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 conforming to SAE J1899 is recommended. Lycoming can assist with the analysis of any discernable metal particles by returning the sample to the attention of the 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.

EXTENDED WARRANTY COVERAGE:

Until the bearing replacement is completed but not to exceed beyond 3 months after the date of the Service Bulletin, the cost of the additional oil and filter changes will be covered under warranty.

Warranty coverage of bearing replacement in compliance with this Service Bulletin is available only until January 1, 2005. Contact an approved shop (refer to ATTACHMENT II) as soon as possible for scheduling information.

ATTACHMENT I – Service Bulletin No. 561

Engine Model	Engine Serial Number	Engine Model	Engine Serial Number
TIO-540-U2A	L-4382-61A	TIO-540-V2AD	L-8491-61A
TIO-540-U2A	L-4969-61A	TIO-540-V2AD	L-8520-61A
TIO-540-U2A	L-5476-61A	TIO-540-V2AD	L-8521-61A
TIO-540-U2A	L-6215-61A	TIO-540-V2AD	L-8522-61A
TIO-540-U2A	L-7473-61A	TIO-540-V2AD	L-8524-61A
TIO-540-U2A	L-7717-61A	TIO-540-V2AD	L-8563-61A
TIO-540-U2A	L-7806-61A	TIO-540-V2AD	L-8582-61A
TIO-540-U2A	L-7967-61A	TIO-540-V2AD	L-8637-61A
TIO-540-U2A	L-8590-61A	LTIO-540-V2AD	L-2726-68A
TIO-540-U2A	L-9136-61A	LTIO-540-V2AD	L-2732-68A
TIO-540-U2A	L-9372-61A	LTIO-540-V2AD	L-2734-68A
TIO-540-U2A	L-9373-61A	LTIO-540-V2AD	L-2736-68A
TIO-540-U2A	L-9436-61A	LTIO-540-V2AD	L-2737-68A
TIO-540-U2A	L-9640-61A	LTIO-540-V2AD	L-2744-68A
TIO-540-U2A	L-9722-61A	LTIO-540-V2AD	L-2747-68A
TIO-540-U2A	L-9759-61A	LTIO-540-V2AD	L-2751-68A
TIO-540-U2A	L-9809-61A	LTIO-540-V2AD	L-2754-68A
TIO-540-U2A	L-9841-61A	LTIO-540-V2AD	L-2755-68A
TIO-540-U2A	L-9920-61A	LTIO-540-V2AD	L-2764-68A
TIO-540-U2A	L-10035-61A	LTIO-540-V2AD	L-2774-68A
TIO-540-U2A	L-10051-61A	LTIO-540-V2AD	L-2775-68A
TIO-540-U2A	RL-4110-61A	LTIO-540-V2AD	L-2780-68A
TIO-540-U2A	RL-5560-61A	LTIO-540-V2AD	L-2798-68A
LTIO-540-U2A	L-2809-68A	LTIO-540-V2AD	L-2799-68A
LTIO-540-U2A	L-2825-68A	LTIO-540-V2AD	L-2804-68A
LTIO-540-U2A	L-2934-68A	LTIO-540-V2AD	L-2805-68A
TIO-540-V2AD	L-8398-61A	TIO-540-W2A	L-9705-61A
TIO-540-V2AD	L-8459-61A	TIO-540-W2A	L-9928-61A
TIO-540-V2AD	L-8460-61A	TIO-540-W2A	L-9929-61A
TIO-540-V2AD	L-8463-61A	TIO-540-W2A	L-9937-61A
TIO-540-V2AD	L-8464-61A	TIO-540-W2A	L-9938-61A
TIO-540-V2AD	L-8473-61A	TIO-540-W2A	L-10006-61A
TIO-540-V2AD	L-8479-61A	TIO-540-W2A	L-10042-61A
TIO-540-V2AD	L-8483-61A	TIO-540-W2A	L-10043-61A
TIO-540-V2AD	L-8489-61A		

ATTACHMENT II – Page 1 - Service Bulletin No. 561

Following is a list of approved shops for compliance with Service Bulletin No. 561.

AIRCRAFT MAINTENANCE SPECIALIST INC.

11550 Aviation Blvd.
Suite 4
West Palm Beach, FL 33412
Contact: Johnny Stinson
Phone: 561-625-7979
Fax: 561-625-6818

DES MOINES FLYING SERVICE INC.

5600 Fleur Drive
Des Moines, IA 50321
Contact: Doug Nehls
Phone: 515-256-5330
Fax: 515-256-5359
E-mail: dnehls@dmfs.com

FLIGHTLINE GROUP INC.

3256 Capital Circle SW
Tallahassee, FL 32310
Contact: Fred Davis
Phone: 850-574-4444
Fax: 850-576-4210
E-mail: fred@flightlinegroup.com

KANSAS CITY AVIATION CENTER INC.

151st Street and Pflumm Road
Johnson County Executive Airport
Olathe, KS 66062
Contact: Tom Conley
Phone: 800-475-5222
Fax: 913-782-3638
E-mail: tconley@kcac.com

NORTHERN AIR INC.

5500 44th Street
Suite 1
Grand Rapids, MI 49512
Contact: Chris Allcain
Phone: 800-262-4953
Fax: 616-336-4770
E-mail: callchin@northernair.net

NO TORO AIRCRAFT INC.

3240 Airfield Drive East
Lakeland, FL 33811
Contact: George Durham
Phone: 863-644-7092
Fax: 863-644-0105
E-mail: notoroair@juno.com

CUTTER AVIATION INC.

530 West Deer Valley Road
Phoenix, AZ 85027
Contact: Rod Carrier
Phone: 623-581-1444
Fax: 623-581-1555
E-mail: rcarrier@cutteraviation.com

CUTTER AVIATION INC.

367 Sandau Road
San Antonio, TX 78216
Phone: 210-340-6780
Fax: 210-384-3394

FLIGHTCRAFT INC.

90454 Boeing Drive
Eugene, OR 97402
Contact: Jim Vargo
Phone: 541-688-9291
Fax: 541-688-5749
E-mail: jvargo@flightcraft.com

INTERMOUNTAIN AIR LLC

301 North 2370 West
Salt Lake City, UT 84116
Contact: Andy Wilson
Phone: 801-359-2085
Fax: 801-521-6534
E-mail: awilson@maslc.com

LY-CON REBUILDERS INC.

8231 West Doe Avenue
Visalia, CA 93291
Contact: Ken Tunnell
Phone: 559-651-1070
Fax: 559-651-3212
E-mail: ken@lycon.com

MUNCIE AVIATION COMPANY

5201 North Walnut Street
Muncie, IN 47303
Contact: Steve Larrimore
Phone: 800-289-7141
Fax: 765-289-7848
E-mail: steve@muncieaviation.com

SHORELINE AVIATION & MARINE INC.

Marshfield Municipal Airport
Old Colony Lane
Marshfield, MA 02050
Contact: Ed Novak
Phone: 781-834-4928
Fax: 781-837-5103
E-mail: aviation@tiac.net

SIGNATURE COMBS AIRCRAFT SALES INC.

2540 Winchester Road
Memphis, TN 38116
Contact: Doug Warren
Phone: 901-345-4744
Fax: 901-345-4785
E-mail: dougwarren@signatureflight.com

SUN AVIATION INC.

3106 Cherokee Road
Vero Beach, FL 32961
Contact: Kevin Riecker
Phone: 772-562-9257 Ext. 610
Fax: 772-562-5369
E-mail: kevin@sunaviation.com

ATTACHMENT – Page 2 – Service Bulletin No. 561

CSE AVIATION LIMITED

Oxford Airport
Kidlington, Oxford O5X 1RA
England
Contact: Shaun Donaldson
Phone: 44-1-865-844207
Fax: 44-1-865-844287
E-mail: sdonaldson@cse-aviation.com

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

PLACO

Hangar 14
Rand Airport
Republic of South Africa
Phone: 27-11-827-9301
Fax: 27-11-824-3661
E-mail: sales@placo.co.za

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
Contact: Adrian McHardy
Phone: 64-7-345-3656
Fax: 64-7-345-3656
E-mail: lycoming@compuserve.com