

# SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service  
Washington, DC



U.S. Department  
of Transportation

**Federal Aviation  
Administration**

NE-05-40  
March 18, 2005

[www.faa.gov/certification/aircraft](http://www.faa.gov/certification/aircraft)

*This is information only. Recommendations aren't mandatory.*

## Introduction

This Special Airworthiness Information Bulletin alerts you, owners and operators of the **Textron Lycoming Corp.** engine models listed in Table 1, with fuel pump part number (P/N) LW-15473 and manufacturer's code 154733201, of the need to replace the pump within the next 25 hours of operation.

**Table 1**

AEIO-320	AIO-360	IO-540
AEIO-360	HIO-360	O-540-L3C5D
AEIO-540	IO-320	TO-360-C1A6D
AIO-320	IO-360	TO-360-F1A6D

## Background

Lycoming has issued Mandatory Service Bulletin (MSB) No. 565 (attached) advising that, "... a number of diaphragm-type fuel pumps, Lycoming P/N LW-15473, may not have been manufactured in conformance with manufacturer's specifications. This can result in a restricted and/or loss of fuel flow." Additionally, the MSB states that, "If your Lycoming engine has a diaphragm-type fuel pump with P/N LW-15473 installed, and has a date code of 3201 (manufacturer's code 154733201), the pump must be replaced prior to next flight." The manufacturer's code

consists of the Lycoming P/N followed by the date code. Figure 1 of MSB 565 shows where the manufacturer's code can be found on the pump. The fuel pump may have to be removed in order to read the manufacturer's code on some aircraft.

## Recommendation

Perform the inspection specified in Lycoming MSB No. 565 within 25 hours and replace the fuel pump prior to next flight if the date code is 3201.

## For Service Bulletin Copies, Contact

Lycoming, 652 Oliver St, Williamsport, PA 17701, phone: (570) 323-6181; fax: (570) 327-7101; or go to their website: <http://www.lycoming.textron.com/main.jsp?bodyPage=/support/publications/maintenancePublications/serviceBulletins.html> and click on SB 565.

## For Further Information, Contact

Norm Perenson, Aerospace Engineer, FAA NYACO, ANE-171, 1600 Stewart Avenue, Suite 410, Westbury, NY 11590; phone: (516) 228-7337; fax: (516) 794-5531; email: [norman.perenson@faa.gov](mailto:norman.perenson@faa.gov)

# MANDATORY

# SERVICE BULLETIN

DATE: February 21, 2005 Service Bulletin No. 565  
Engineering Aspects are  
FAA Approved

SUBJECT: Diaphragm-Type Fuel Pump Inspection/Replacement

MODELS AFFECTED: New, rebuilt and overhauled engines shipped from Lycoming between October 1, 2001 and February 2, 2004 with fuel pump P/N LW-15473. Engine models affected are IO-320, -360, -540; AIO-320, -360; AEIO-320, -360, -540; HIO-360; TO-360-C1A6D, -F1A6D and O-540-L3C5D. Fuel pumps replaced in the field with a genuine Lycoming fuel pump after October 1, 2001 and up to the date of issuance of this Service Bulletin.

TIME OF COMPLIANCE: Next 25 hours or next oil change whichever occurs first, or earlier at owner's discretion.

Lycoming has received two reports that indicate a number of diaphragm-type fuel pumps, Lycoming P/N LW-15473, may not have been manufactured in conformance with specifications. This can result in restricted and/or loss of fuel flow.

## WARNING

**DO NOT INSTALL ANY FUEL PUMP WITH THE MANUFACTURER'S CODE OF 154733201.**

**If your Lycoming engine has a diaphragm-type fuel pump with Lycoming P/N LW-15473 installed, and has a date code of 3201, the pump must be replaced prior to next flight.**

## NOTE

Some installations may require removal of the fuel pump to read the manufacturer's code. When reinstalling or replacing the fuel pump use a new fuel pump gasket.

To identify affected pumps, check the manufacturer's code scribed on the pump. (See Figure 1.) If the number is 154733201, the pump is affected and must be replaced prior to next flight.

Make the appropriate logbook entry including fuel pump date code.

## WARRANTY:

If replacement is required, reimbursement is available for a replacement fuel pump and for up to 1.5 hours labor through a Lycoming Distributor. Lycoming requires the replaced pump be returned with a valid warranty claim for warranty consideration. Warranty for pump replacement will be in affect for one year from the date of this Service Bulletin.

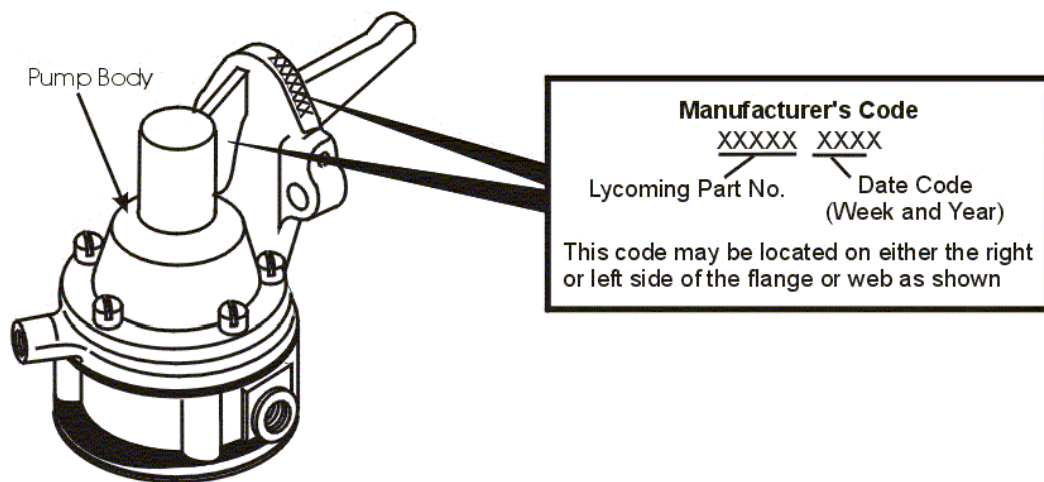


Figure 1