

DATE: November 15, 1991
Service Bulletin No. 501B
(Supersedes Service Bulletin No. 501A)
Engineering Aspects are
FAA Approved

SUBJECT: Recall of Piston Pin Part No. LW-14077

MODELS AFFECTED: Models and serial numbers of all engines affected and shipped from Textron Lycoming are listed following the text of this bulletin.

TIME OF COMPLIANCE: Prior to 100 hours of operation.

Textron Lycoming, Williamsport has been advised by our supplier that a quantity of the subject piston pins have been manufactured with non-aircraft quality materials and do not meet with Textron Lycoming manufacturing specifications. Some piston pins may have sub-surface imperfections with no visual way of detection.

The following actions are required by this bulletin:

- (1) It is mandatory that all subject piston pins installed in engines manufactured and shipped from Textron Lycoming, Williamsport between June 18, 1991 and August 5, 1991 be removed from affected engines and returned to Textron Lycoming, Williamsport, Pa. Subject engines are listed per models and serial numbers below.
- (2) Engines overhauled in the field using Piston Pins P/N LW-14077 that were obtained during the time period June 18, 1991 thru August 5, 1991 must also have the subject piston pins removed and returned to the plant for replacement.
- (3) Any cylinder kits that were obtained during the time period June 18, 1991 thru August 5, 1991 containing Piston Pins, P/N LW-14077 must have the pin(s) removed from the kit(s) and returned for exchange. Any additional Piston Pins, P/N LW-14077 purchased individually must also be returned to the Textron Lycoming Plant, Williamsport, Pa. for exchange.

Engine models affected must have subject piston pins removed and new exchange replacement piston pins reinstalled in accordance with the appropriate overhaul manual procedures.

Affected New Engines and Serial Numbers:

O-320-B2B S/N L-16995-39A, L-16998-39A, L-17019-39A, L-17023-39A and L-17038-39A;
-B2C S/N L-17000-39A and L-17020-39A; **-D1A** S/N L-17001-39A, L-17002-39A, L-17066-39A thru L-17070-39A; **-D2A** S/N L-17004-39A thru L-17013-39A, L-17071-39A thru L-17079-39A; **-D2G** S/N L-16935-39A, L-16936-39A, L-16950-39A; **-D2J** S/N L-17025-39A; **-D3G** S/N L-17014-39A, and L-17015-39A.

O-360-A1A S/N L-33015-36A thru L-33017-36A, L-33026-36A thru L-33030-36A; **-A3A** S/N L-33034-36A thru L-33038-36A; **-A4M** S/N L-33007-36A & L-33008-36A; **-C1F** S/N L-33023-36A; **-C1G** S/N L-33011-36A, L-33020-36A and L-33046-36A.

IO-360-A1B6 S/N L-25712-51A thru L-25716-51A and L-25742-51A thru L-25747-51A; **-A3B6D** S/N L-25736-51A thru L-25739-51A and L-25751-51A; **-B1B** S/N L-25750-51A.

HIO-360-D1A S/N L-25708-51A and L-25730-51A thru L-25732-51A; **-F1AD** S/N L-25702-51A, L-25725-51A thru L-25727-51A.

AEIO-360-A1D S/N L-25734-51A and L-25735-51A; **-B4A** S/N L-25741-51A; **-H1A** S/N L-25733-51A.

O-540-E4A5 S/N L-24446-40A thru L-24448-40A.

IO-540-C4D5D S/N L-24637-48A thru L-24639-48A; **-T4B5D** S/N L-24623-48A.

AEIO-540-D4A5 S/N L-24620-48A, L-24621-48A, L-24622-48A, L-24625-48A thru L-24627-48A, L-24629-48A, L-24647-48A, L-24656-48A and L-24663-48A; **-L1B5** S/N L-24636-48A and L-24667-48A.

TIO-540-AF1A S/N L-9294-61A, L-9296-61A, L-9301-61A and L-9302-61A; **-J2BD** S/N L-9305-61A thru L-9307-61A.

VO-540-C2A S/N L-2629-43A.

Affected Remanufactured and Overhauled Engines:

O-320-A2B S/N RL-40096-27A; **-D2A** S/N L-6471-39A; **-D2J** S/N RL-8038-39A, RL-12202-39A, RL-13641-39A and RL-14072-39A; **-D3G** S/N RL-2671-39A, RL-6148-39A, RL-7019-39A, RL-7434-39A, RL-7768-39A, RL-8222-39A, RL-8908-39A, RL-12168-39A, RL-13673-39A, RL-14040-39A, RL-14403-39A, RL-14947-39A, RL-15048-39A, RL-15049-39A, RL-17016-39A, RL-17081-39A thru RL-17086-39A; RL-17088-39A and RL-17089-39A; **-H2AD** S/N RL-2560-76T, RL-3593-76T, RL-3703-76T, RL-4417-76T, RL-4839-76T, RL-7681-76T, RL-8372-76T, RL-8378-76T thru RL-8380-76T.

O-360-A1A S/N RL-30175-36A; **-A1G6D** S/N L-11108-36A and RL-26460-36A; **-A4A** S/N RL-11467-36A; **-A4K** S/N RL-33068-36A; **-A4M** S/N RL-21669-36A, RL-24845-36A, RL-31902-36A, RL-33041-36A thru RL-33044-36A, RL-33048-36A, RL-33049-36A, RL-33051-36A, RL-33052-36A and RL-33056-36A; **-E1A6D** S/N RL-400-77T, RL-402-77T, L-484-77T, RL-518-77T and RL-701-77T; **-F1A6** S/N RL-16693-36A, RL-27095-36A and RL-4378-36A.

IO-360-A1B6 S/N RL-19373-51A; **-A1B6D** S/N RL-11493-51A; **-A3B6D** S/N RL-22392-51A and RL-22679-51A; **-B1E** S/N RL-4537-51A; **-C1C** S/N RL-10471-51A and RL-25728-51A; **-C1C6** S/N RL-14418-51A and RL-22176-51A.

AEIO-360-B1F S/N RL-24497-51A.

LO-360-E1A6D S/N RL-211-72T, RL-236-72T, RL-260-72T and RL-480-72T.

LIO-360-C1E6 S/N RL-625-67A, RL-866-67A and RL-906-67A.

O-540-E4C5 S/N RL-12387-40A, RL-18244-40A and RL-19235-40A.

IO-540-C4D5D S/N RL-7712-48A; **-E1B5** S/N RL-6087-48A and RL-12495-48A; **-K1B5** S/N RL-16095-48A and RL-24674-48A; **-K1G5** S/N RL-24669-48A.

IGSO-540-B1A S/N RL-3176-50.

TIO-540-AE2A S/N RL-9074-61A; **-J2BD** S/N RL-2841-61A, L-3134-61A, RL-4362-61A, RL-5190-61A and RL-8299-61A; **-S1AD** S/N RL-5185-61A.

LTIO-540-J2BD S/N RL-1404-68A and RL-1757-68A.

After completion of this work, make a logbook entry stating that the engine has been inspected and complies with this Service Bulletin.

Labor costs can be recovered by submitting a warranty application through any authorized Textron Lycoming Distributor.

Labor allowances: For Fixed Wing Aircraft - Not to exceed 10 Hours for 4 Cyl. Engines.
Not to exceed 15 Hours for 6 Cyl. Engines.

For Helicopters - Not to exceed 15 Hours.

Labor allowances will be effective until one (1) year from date of this Bulletin.

Return subject piston pins to Textron Lycoming, Williamsport, Pa. accompanied by a warranty application for credit reimbursement. Please submit your purchase order for replacement part under routine conditions.

NOTE

For parts standardization, Piston Pin, P/N LW-14077 supersedes Piston Pin, P/N LW-14078 and will be shipped as a replacement for future service orders.

On some engines shipped between June 18, 1991 and August 5, 1991 there is a possibility that Piston Pin, P/N LW-14078 was installed. During engine inspection, if this is the case, the engine may be reassembled using Piston Pin, P/N LW-14078. All cylinders must be inspected.

NOTE: Revision "B" revises serial numbers.