

DEPARTMENT OF TRANSPORTATION

Federal Aviation Administration

14 CFR Part 39 [SN]

Lycoming

[AD 75-08-09](#)

Amendment 39-3013

Effective Aug. 18, 1977

ATA Code: 79

Recurring: No

[Docket No. ; Amendment 39-3013; AD 75-08-09]

Airworthiness Directives; Lycoming Models O-235, O-290, O-320, IO-320, LIO-320, O-360, IO-360, HO-360, HIO-360, VO-360, IVO-360, LIO-360, TIO-360, AIO-360, AEIO-360, O-540 and IO-540 Series Engines.

AGENCY: Federal Aviation Administration (FAA), DOT.

ACTION: Final rule.

DATES: Effective August 18, 1977.

75-08-09 LYCOMING: Amendment 39-2155 as amended by Amendments 39-2260 and 39-2470 is further amended by Amendment 39-3013.

Applies to O-235, O-290, O-320, IO-320, LIO-320, O-360, IO-360, HO-360, HIO-360, VO-360-A1A, VO-360-A1B, VO-360-B1A, IVO-360-A1A, LIO-360, TIO-360, AIO-360, AEIO-360, O-540 and IO-540 series Lycoming engines listed below and the same series engines overhauled/remanufactured by Lycoming between December 18, 1972, and December 10, 1974, and the same series engines overhauled after December 10, 1972, at facilities other than the manufacturer, in which the provisions of **Lycoming Service Instructions No. 1272** have been incorporated.

Applicable Models	Applicable Serial Nos.	Excepted Serial Nos.
O-235 series	L-11268-15 thru L-12098-15 and L-12100-15	L-12099-15, 12101-15 and up
O-290 series	Any engine modified in accordance with Lycoming Service Instruction No. 1272	Any engine not modified in accordance with Lycoming S.I. No. 1272 .
O-320 series	L-33329-27A thru L-41054-27A	L-41055-27A and up O-320-E2D Series: L-41029-27A and up; O-320-E3D series: L-41017-27A, L-41021-27A and up.
O-320-B and -D	L-6809-39A thru L-6971-39A	L-6972-39A and up

IO-320 series	L-4953-55A thru 5270-55A	L-5271-55A and up
LIO-320 series	L-292-66A thru L-296-66A	L-297-66A and up
O-360, HO-360 -B1A, -B1B Series	L-17440-36A thru L-19846-36A and L-17427	L-19817-36A, L-19818-36A, L-19847-36A and up
VO-360, IVO-360 Series	Any engine modified in accordance with Lycoming S.I. 1272	Any engine not modified in accordance with Lycoming S.I. 1272
HIO-360-A1A, -B1A	L-10179-51A thru L-13351-51A	L-12557-51A, L-12727-51A, L-12853-51A, L-12890-51A, L-13513-51A and up
HIO-360-D1A	L-10179-51A thru L-13512-51A	L-12892-51A thru L-12894-51A, L-12919-51A, L-12966-51A thru L-12968-51A, L-12979-51A, L-13034-51A thru L-13040-51A, L-13124-51A thru L-13128-51A, L-13170-51A thru L-13174-51A, L-13257-51A thru L-13262-51A, L-13280-51A thru L-13283-51A, L-13513-51A and up
HIO-360-C1A	L-10179-51A thru L-13372-51A	L-11578-51A, L-12193-51A, L-12445-51A, L-12763-51A, L-12845-51A, L-12847-51A thru L-12849-51A, L-12895-51A, L-12897-51A, L-12898-51A, L-12911-51A, L-12912-51A, L-12914-51A thru L-12916-51A, L-12918-51A, L-12969-51A thru L-12972-51A, L-13041-51A, L-13042-51A, L-13119-51A thru L-13123-51A, L-13142-51A thru L-13148-51A, L-13271-51A thru L-13275-51A, L-13373-51A and up
HIO-360-C1B	L-10179-51A thru L-13551-51A	L-13352-51A and up
AEIO-360 series	L-10179-51A thru L-13616-51A	L-13617-51A and up
IO-360 series	L-10146-51A thru L-13540-51A	L-13541-51A and up

IO-360-A1B6D	L-10115-51A thru L-13529-51A	L-13530-51A and up
AIO-360 series	L-171-63A thru L-208-63A	L-209-63A and up
LIO-360 series	L-634-67A thru L-1059-67A	L-1060-67A and up
TIO-360 series	L-116-64A thru L-145-64A	L-146-64A and up
O-540 series except O-540 - H1A5D, -H1B5D, -H2A5D, -H2B5D series	L-15327-40A thru L-17105-40A	L-17098-40A, L-17103-40A, L-17106-40A and up
IO-540 series except IO-540 -K1A5D, -K1B5D, -K1E5D, -K1F5D -M2A5D, -P1A5, -T4A5D series	L-10536-48 thru L-12896-48	L-10623-48, L-10624-48, L-10813-48, L-10814-48, L-11246-48, L-11247-48, L-11266-48, L-11267-48, L-12144-48 thru -S1A5, L-12147-48, L-12231-48, L-12287-48 thru L-12298-48, L-12371-48 thru L-12378-48, L-12463-48, L-12464-48, L-12636-48, L-12637-48, L-12684-48, L-12685-48, L-12711-48 thru L-12713-48, L-12726-48 thru L-12729-48, L-12734-48 thru L-12739-48, L-12744-48 thru L-12753-48, L-12806-48, L-12821-48 thru L-12823-48, L-12840-48 thru L-12844-48, L-12859-48 thru L-12868-48, L-12888-48, L-12897-48 and up

Also applies to the same models and series engines overhauled/remanufactured by Lycoming between December 18, 1972 and December 10, 1974 and to any other engine in which the provisions of **Lycoming Service Instruction No. 1272** have been incorporated.

Compliance required as indicated.

1. For the Lycoming O-360-C2D, HO-360, HIO-360, VO-360 and IVO-360 series engines, compliance is required within the next 10 hours in service after the effective date of this AD or before the engines have accumulated 400 hours in service, whichever occurs later, unless already accomplished.

For the O-235, O-290, O-320, IO-320, LIO-320, O-360, IO-360, AEIO-360, AIO-360, LIO-360, TIO-360, O-540 and IO-540 series engines compliance is required within the next 50 hours in service after the effective date of this AD or before the engines have accumulated 400 hours in service, whichever occurs later, unless already accomplished.

To prevent oil pump failures, inspect, replace and assemble the oil pump drive shaft and drive impeller in accordance with the inspection and procedure paragraphs of **Lycoming Service Bulletin No. 381B** or **No. 385C** or later revision approved by Chief, Engineering and Manufacturing Branch, FAA, Eastern Region.

Upon submission of substantiating data thru an FAA maintenance inspector, the Chief, Engineering & Manufacturing Branch, Eastern Region, may adjust the compliance time specified in this A.D.

The manufacturer's inspections and replacement procedures identified and described in this directive are incorporated herein and made a part hereof pursuant to 5 U.S.C. 552(a)(1). All persons affected by this directive who have not already received these documents from the manufacturer, may obtain copies upon request to Avco Lycoming Division Service Department, Williamsport, Pennsylvania 17701. These documents may also be examined at the Engineering and Manufacturing Branch, Federal Aviation Administration, Eastern Region, Federal Building, John F. Kennedy International Airport, Jamaica, New York 11430. A historical file on this AD which includes the incorporated material in full is maintained by the FAA at its Eastern Region Headquarters.

Amendment 39-2155 was effective April 9, 1975.

Amendment 39-2260 was effective July 16, 1975.

Amendment 39-2470 was effective December 24, 1975.

This amendment 39-3013 is effective August 18, 1977.

Manufacturer's Service Information:

Lycoming Service Bulletin No. 381B [[381C](#)]

[Lycoming Service Bulletin No. 385C](#) [[Supp 1](#)]

[Lycoming Service Instruction No. 1272](#)

All persons affected by this directive who have not already received these documents from the manufacturer, may obtain copies upon request to Avco Lycoming Division Service Department, Williamsport, Pennsylvania 17701.