

Airworthiness Directive Schedule

Engines

Lycoming AEIO-390 and IO-390 Series

28 November 2024

- Notes:**
1. This AD schedule is applicable to Lycoming **AEIO-390** series and **IO-390** series engines manufactured under FAA Type Certificate No **E00006NY**.
 2. The Federal Aviation Administration (FAA) is the National Airworthiness Authority (NAA) responsible for the issue of State of Design Airworthiness Directives (ADs) for Lycoming reciprocating engines.

State of Design ADs can be obtained directly from the FAA website at: [Dynamic Regulatory System \(faa.gov\)](https://www.faa.gov/dynamic-regulatory-system)
 3. Manufacturer service information referenced in Airworthiness Directives listed in this schedule may be at a later approved revision. Service information at later approved revisions can be used to accomplish the requirements of these Airworthiness Directives.
 4. The date above indicates the amendment date of this schedule.
 5. New or amended ADs are shown with an asterisk *

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2009-02-03 Fuel Injection Servos – Inspection

Applicability: Lycoming IO, (L)IO, TIO, (L)TIO, AEIO, AIO, IGO, IVO and HIO series reciprocating engines fitted with a Precision Airmotive LLC, RSA-5 or RSA-10 series, or Bendix, RSA-5 or RSA-10 series, fuel injection servo, with a servo plug gasket P/N 365533, that was installed under the fuel injection servo plug, P/N 383493 on or after 22 August 2006.

Teledyne Continental Motors LTSIO-360-RB and TSIO-360-RB reciprocating engines fitted with a Precision Airmotive LLC, RSA-5 or RSA-10 series, or Bendix, RSA-5 or RSA-10 series, fuel injection servo, with a servo plug gasket P/N 365533, that was installed under the fuel injection servo plug, P/N 383493 on or after 22 August 2006.

Superior Air Parts, Inc. IO-360 series reciprocating engines fitted with a Precision Airmotive LLC, RSA-5 or RSA-10 series, or Bendix, RSA-5 or RSA-10 series, fuel injection servo, with a servo plug gasket P/N 365533, that was installed under the fuel injection servo plug, P/N 383493 on or after 22 August 2006.

This AD also applies to any other Precision Airmotive LLC RSA-5 or RSA-10 series, or Bendix, RSA-5 or RSA-10 series, fuel injection servo received for installation on an engine on or after 22 August, 2006 without a P/N 2577258 gasket and it does not have a letter "G" on the fuel injection servo plug, P/N 383493; or any fuel injection servo that the installation history is not known.

Compliance: Before the issue of a New Zealand Certificate of Airworthiness, or at the next ARA, whichever is the sooner, unless previously accomplished. Repetitive inspections, if required, to be accomplished at intervals not to exceed the times specified in the FAA AD.

Effective Date: 26 October 2017

2012-03-06 Fuel Servo Diaphragms – Inspection

Applicability: Superior Air Parts, Lycoming Engines, and Continental Motors, fuel injected reciprocating engine models fitted with an AVStar Fuel Systems, Inc. (AFS) fuel servo diaphragm P/N AV2541801 or P/N AV2541803.

Compliance: Before the issue of a New Zealand Certificate of Airworthiness, or at the next ARA, whichever is the sooner, unless previously accomplished. Repetitive inspections, if required, to be accomplished at intervals not to exceed the times specified in the FAA AD.

Effective Date: 26 October 2017

2012-19-01 Crankshafts – Inspection

Applicability: Lycoming Engines (L)O-360, (L)IO-360, AEIO-360, IO-390, AEIO-390, O-540, IO-540, AEIO-540, (L)TIO-540, IO-580, AEIO-580, and IO-720 series reciprocating engines listed by engine model number and serial number in Table 1, Table 2, Table 3, or Table 4 of Lycoming Mandatory Service Bulletin (MSB) 569A, dated 11 April 2006, or later approved revision, and those engines with crankshafts listed by crankshaft S/N in Table 5 of Lycoming MSB 569A, or later approved revision.

Affected engines are manufactured new, rebuilt, overhauled, or had a crankshaft installed after 1 January 1997, according to Supplement No. 1 to Lycoming MSB No. 569A.

Compliance: Before the issue of a New Zealand Certificate of Airworthiness, or at the next ARA, whichever is the sooner, unless previously accomplished. Repetitive inspections, if required, to be accomplished at intervals not to exceed the times specified in the FAA AD.

Effective Date: 26 October 2017

*** 2024-21-02 Connecting Rod Assemblies - Inspection**

Applicability: Lycoming engines that are fitted with an affected part and P/N, and were assembled within the ship date range specified in Table 1 to paragraph (c) of FAA AD 2024-21-02.

Note: Affected P/N parts are known to be installed on Lycoming AEIO-320 series, AEIO-360 series, AEIO-390 series, AEIO-540 series, AEIO-580-B1A, AIO-320 series, AIO-360 series, HIO-360 series, HIO-390-A1A, HIO-540-A1A, HO-360 series, IO-320 series, IO-360 series, IO-390 series, IO-540 series, IVO-360-A1A, IVO-540-A1A, LHIO-360 series, LIO-320 series, LIO-360 series, LO-360 series, LTIO-540 series, LTO-360 series, O-233-A1, O-235 series, O-320 series, O-340 series, O-360 series, O-435 series, O-540 series, SO-580 series, TEO-540 series, TIGO-541 series, TIO-360 series, TIO-540 series, TIO-541 series, TIVO-540-A2A, TO-360 series, TVO-435 series, TVO-540-A1A, VO-360 series, VO-435 series, VO-540 series, and VSO-580-A1A engines.

Effective Date: 5 December 2024