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SERVICE INSTRUCTION

DATE: April 16, 2020

Service Instruction No. 1443R
 (Supersedes Service Instruction No. 1443Q)
 Engineering Aspects are
 FAA Approved

SUBJECT: Approved Slick Magnetos and Lycoming Electronic Ignition System (EIS) on Lycoming Engines

MODELS AFFECTED: See Table 1

TIME OF COMPLIANCE: Not applicable

REASON FOR REVISION: Added listings for IO-390-D Series engines to Table 1. Corrected errors in Table 1. Added new Tables 5 and 6 to include Lycoming EIS Systems. Added information for converting magneto ignition system to EIS

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

This Service Instruction identifies Slick magnetos for use on Lycoming engines identified in Table 1. Table 2 is a cross-reference of Lycoming part numbers and Slick Magneto model numbers. Tables 5 and 6 provide application data to convert in-service engines from Magneto style ignition to Lycoming Electronic Ignition (EIS) using current magneto drive adaptors (spacers) and studding configuration of the accessory case.

NOTICE: If converting from EIS to Magneto style ignition refer to Table 1 for applicable Slick magnetos. Refer to the applicable IPC for required changes to the Magneto drive adaptors (spacers) and studding configuration of the accessory case.

Additional magneto applicability information can be found in the FAA Type Certificate Data Sheet (TCDS).

Although this Service Instruction includes approved alternate Slick magnetos, some airframe configurations cannot use a Slick magneto. Therefore, before installing a Slick magneto, examine the airframe manufacturer's approved data and type certificates to make sure that the approved Slick magneto specified in this publication is acceptable for the airframe application, especially in the case of helicopters.

Slick has made several product improvements to their magnetos that have caused the model series numbers to change with each refinement. Table 3 identifies the progressive number changes up to the current model four-cylinder series number. Table 4 identifies the progressive number changes up to the current model six-cylinder series number. When magnetos are replaced, they must be replaced with the same or a superseding model.

Installation of Lycoming Electronic Ignition System (EIS) must be completed in accordance with the latest revision of Lycoming Service Instruction SI-1569.

⚠ CAUTION THE SUPPLEMENTAL TYPE CERTIFICATE (STC) HOLDER MUST GIVE APPROVAL FOR THE USE OF SLICK MAGNETOS ON ENGINES WITH AFTERMARKET TURBOCHARGER KITS.

NOTICE: TIO-540 series engines using Magnetos must use Pressurized Magnetos. Refer to the appropriate Lycoming parts catalog for pressurizing hardware.



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NOTICE: Lycoming has approved the use of two impulse-coupling magnetos on those engines that have an impulse-coupling magneto installed on the left as original equipment, except for the following engines (refer to the latest revision of Service Bulletin No. 411):

- Any IO-360-B4A not installed in Piper PA28-181 (Archer III) aircraft
- O-360-A3A installed in Avions Pierre Robin aircraft
- O-360-A4A and -A4J
- Any -360 converted to IO-360-B4A not installed in Piper PA28-181 (Archer III) aircraft, O-360-A3A to be installed in Avions Pierre Robin aircraft, O-360-A4A, or O-360-A4J

NOTICE: The positioning mark on the magneto drive retainer gear assembly is for reference only. Alignment of these marks is not necessary. Magneto positioning (typically 0 + 10° above horizontal) must be held in accordance with the installation requirements.

⚠ CAUTION IF THE MAGNETO THAT IS BEING REPLACED IS SUPPLIED WITH COOLING AIR FLOW, THE REPLACEMENT STOCK MAGNETO MUST ALSO BE SUPPLIED WITH COOLING AIR FLOW.

⚠ CAUTION BEFORE PURCHASING A SLICK MAGNETO IDENTIFIED IN TABLE 1, CONFIRM WITH THE AIRFRAME MANUFACTURER TO MAKE SURE THE APPROVED SLICK MAGNETO WILL BE ACCEPTABLE FOR THE AIRFRAME APPLICATION, ESPECIALLY IN THE CASE OF HELICOPTERS.

Table 1
Approved Slick Magnetos on Lycoming Engine Models

Engine Model	Left Magneto	Right Magneto	Engine Model	Left Magneto	Right Magneto
O-235-C1	4373	4370	O-320-B2B	4371, 4373, 4771♦	4371, 4370, 4775♦
O-235-C1B	4347	4370	O-320-B2C	4347	4342
O-235-C2A	4373	4370	O-320-B2D	4373	4370
O-235-C2C	4371	4370	O-320-B2E	4373	4370
O-235-E2A	4373	4370	O-320-B3B	4373	4370
O-235-F2A	4373, 4381	4370, 4381	O-320-D1A	4371, 4373, 4771♦	4342, 4370, 4770♦
O-235-F2B	4373	4370	O-320-D1D	4371	4370
O-235-G1	4373	4370	O-320-D1F	4373, 4771♦	4370, 4770♦
O-235-G2A	4373	4370	O-320-D2A	4373, 4771♦	4370, 4770♦
O-235-H2C	4371	4370	O-320-D2B	4347	4370
O-235-J2A	4373	4370	O-320-D2G	4371	4370
O-235-K2B	4372	4370	O-320-D2J	4371	4371
O-235-K2C	4372	4370, 4372	O-320-D3G	4371, 4771♦	4370, 4371, 4770♦
O-235-L2A	4372	4370	O-320-E1A	4373	4370
O-235-L2C	4372, 4381	4370, 4381	O-320-E1C	4373	4370
O-235-N2A	4372	4370	O-320-E1F	4371, 4373	4370
O-235-N2C	4371, 4381	4370, 4381	O-320-E2A	4373, 4771♦	4370, 4770♦
O-290-D2	4373	4370	O-320-E2C	4373	4370
O-290-D2B	4373	4370	O-320-E2D	4371	4370, 4371
O-290-D2C	4373	4370	O-320-E2F	4373	4370
O-320-A2A	4373	4370	O-320-E2G	4371	4370
O-320-A2B	4373	4370	O-320-E3D	4371	4370
O-320-A2C	4347	4370	IO-320-B1A*	4373	4373
O-320-A2D	4371	4370	IO-320-B1C	4373	4342
O-320-A3A	4373	4370	IO-320-C1A*	4373	4373
O-320-A3B	4373	4370	IO-320-D1A	4371, 4771♦	4370
O-320-B1A	4373	4370	IO-320-D1B	4373, 4771♦	4370, 4770♦
O-320-B2A	4373	4370	IO-320-E1A	4373	4370

* These engines cannot include Slick magnetos if aftermarket turbocharger kits are installed.

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Table 1 (Cont.)
Approved Slick Magnetos on Lycoming Engine Models

Engine Model	Left Magneto	Right Magneto	Engine Model	Left Magneto	Right Magneto
			IO-360-A2A	4345	4370
IO-320-E1B	4371	4370	IO-360-A2B	4372	4370
IO-320-E2A	4373	4373, 4370	IO-360-A2D	4345	4370
IO-320-E2B	4371	4370	IO-360-A3B6	4372, 4761, 4771♣	4370, 4770♣
AEIO-320-D1B	4373, 4347	4370	IO-360-B1B	4347	4370
AEIO-320-D2B	4373	4353, 4370	IO-360-B1E	4373, 4771♥	4370, 4373, 4770♥
AEIO-320-E1B	4371	4371	IO-360-B1F	4373, 4771♥	4370, 4373, 4770♥
AEIO-320-E2B	4371	4371	IO-360-B1F6	4373, 4771♥	4370, 4373, 4770♥
LIO-320-B1A*	4330	4330	IO-360-B1G6	4373, 4771♥	4370, 4373, 4770♥
LIO-320-C1A*	4330	4330	IO-360-B2E	4373	4370
O-360-A1A	4373, 4771■	4370, 4373, 4770■	IO-360-B4A	4347, 4371, 4373	4370, 4371, 4373
O-360-A1D	4347, 4373	4370	IO-360-C1A	4345, 4371***	4370***
O-360-A1F6	4373, 4771■	4342, 4370, 4770■	IO-360-C1B	4345	4370
O-360-A1G6	4373	4370	IO-360-C1C	4371, 4372, 4761**	4370, 4770♣ **
O-360-A1H	4373	4370, 4373	IO-360-C1C6	4372	4370, 4372
O-360-A1H6	4373	4370, 4373	IO-360-C1D6	4372, 4761♣ ***	4370, 4770♥ ***
O-360-A1P	4373	4370, 4373	IO-360-C1E6	4372, 4761♣ ***	4370, 4770***
O-360-A2A	4373	4370, 4373	IO-360-C1F*	4372**	4370**
O-360-A2F	4373	4370	IO-360-C1G6	4766	4766, 4770♣
O-360-A2G	4373	4370, 4373	IO-360-D1A	4345***	4370***
O-360-A3A	4373	4370, 4373	IO-360-F1A	4377	4307
O-360-A4A	4373	4370	IO-360-L2A	4371	4371
O-360-A4G	4373	4370, 4373	IO-360-M1A	4347, 4395♥	4370, 4770♥
O-360-A4J	4373	4370	IO-360-M1B	4371, 4771, 4373♥	4370, 4770♥
O-360-A4K	4371	4370	IO-360-N1A	4347	4370
O-360-A4M	4347, 4371, 4373, 4771■	4353, 4370, 4371, 4373, 4770■	IO-360-P1A	4371, 4373	4370, 4371
O-360-A4N	4371	4371	AEIO-360-A1A	4347	4370
O-360-A4P	4371	4370, 4371	AEIO-360-A1B	4372	4370
O-360-A4P	4371	4370, 4371	AEIO-360-A1B6	4371, 4372, 4373***	4353, 4370***
O-360-B2A	4373	4370	AEIO-360-A1D	4372	4370
O-360-B2C	4373	4370	AEIO-360-A1E	4372, 4373	4370, 4373
O-360-C1A	4373	4370	AEIO-360-A1E6	4372, 4761♣	4370, 4770♣
O-360-C1E	4371	4370, 4371	AEIO-360-A2C	4345	4370
O-360-C1F*	4371	4370	AEIO-360-B1B	4347	4370
O-360-C1G	4371, 4373	4370, 4371, 4373	AEIO-360-B1F	4373, 4771, 4347♥	4370, 4373, 4770♥
O-360-C2A	4373	4370, 4373	AEIO-360-B1G6	4371	4371
O-360-C2C	4347, 4776■	4370, 4770■	AEIO-360-B1H	4373	4370, 4373
O-360-C2E	4371	4370	AEIO-360-B2F	4373	4373, 4370
O-360-C4F	4371	4370	AEIO-360-B4A	4373	4370
O-360-C4P	4371	4370, 4371	AEIO-360-H1A	4371	4371
O-360-F1A6	4371	4371	AEIO-360-H1B	4371	4371
O-360-G1A6	4371	4371	HO-360-C1A	4347	4370
O-360-J2A	4347	4370	HIO-360-D1A	4345	4345
IO-360-A1A	4345, 4766***	4370, 4770***	HIO-360-G1A	4347	4370
IO-360-A1B	4372***	4370***	LO-360-A1H6	4330	4302, 4330
IO-360-A1B6	4372, 4761♣ ***	4370, 4770♣ ***	LIO-360-B1G6	4330	4302, 4330
IO-360-A1D	4372***	4370***	LIO-360-C1E6	4374***	4302***
IO-360-A1D6	4370, 4373	4370	LIO-360-M1A	4348	4302

* These engines cannot include Slick magnetos if aftermarket turbocharger kits are installed.

** Reference the latest revision of Service Bulletin No. 380.

*** Reference the latest revision of Service Instruction No. 1325.

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**Table 1 (Cont.)
Approved Slick Magnetos on Lycoming Engine Models**

Engine Model	Left Magneto	Right Magneto	Engine Model	Left Magneto	Right Magneto
IO-390-A1A6	4345	4370	IO-540-E1B5	6393	6350
IO-390-A1B6	4345	4370	IO-540-G1D5	6351	6371
IO-390-A3A6	4345	4370	IO-540-K1A5	6351, 6393	6350
IO-390-A3B6	4345	4370	IO-540-K1B5	6351, 6393	6371
IO-390-C1A6	4345	4370	IO-540-K1D5	6393	6350
IO-390-C1B6	4345	4370	IO-540-K1E5*	6351, 6393	6351, 6393
IO-390-C3A6	4345	4370	IO-540-K1F5	6393	6350
IO-390-C3B6	4345	4370	IO-540-K1G5	6351, 6393	6350
IO-390-D1A6	4345	4370	IO-540-K1H5	6351, 6393	6350
IO-390-D1B6	4345	4370	IO-540-K1J5	6393	6350
IO-390-D3A6	4345	4370	IO-540-K1K5	6351, 6393	6350
IO-390-D3B6	4345	4370	IO-540-L1C5	6351, 6393	6350,
AEIO-390-A1A6	4345	4370, 4353	IO-540-M1A5	6351, 6393	6350
AEIO-390-A3A6	4345	4370	IO-540-M1C5	6351, 6393	6350, 6351
AEIO-390-A1B6	4345	4370	IO-540-N1A5	6393	6350
AEIO-390-A3B6	4345	4370	IO-540-R1A5*	6393	6350
HIO-390-A1A	4345	4370	IO-540-T4B5	6351	6350
O-540-A1A5	6355	6350	IO-540-V4A5	6351	6350
O-540-A1B5	6355, 6351	6355	IO-540-W1A5	6351	6350
O-540-A1C5	6355	6355	IO-540-AA1A5	6393	6350
O-540-A1D5	6393	6350	IO-540-AA1B5	6361	6360
O-540-A4A5	6351	6350	IO-540-AB1A5	6351	6351
O-540-A4B5	6351	6351	IO-540-AC1A5	6351, 6393	6350, 6351
O-540-A4D5	6393	6350	IO-540-AF1A5	6351	6350
O-540-A4E5	6351	6351	AEIO-540-D4A5	6393	6350
O-540-B1A5	6393	6350	AEIO-540-D4B5	6351, 6393	6350, 6371
O-540-B2B5	6355, 6393	6350	AEIO-540-D4D5	6393	6350, 6393
O-540-B2C5	6351, 6393	6350	AEIO-540-L1B5	6351, 6393	6350
O-540-B4B5	6355	6350	AEIO-540-L1D5	6351	6350
O-540-E4A5	6393	6350	TIO-540-A2B	6363	6360
O-540-E4B5	6355, 6393	6350	TIO-540-A2C	6363	6360
O-540-E4C5	6351, 6393	6371	TIO-540-J2B	6363	6360
O-540-F1A5	6390	6351	TIO-540-U2A	6365	6360
O-540-G1A5	6351, 6393	6350	TIO-540-W2A	6361, 6393	6360, 6361
O-540-G2A5	6351, 6393	6350	TIO-540-AE2A	6363	6360
O-540-H2A5	6351	6351	TIO-540-AF1A	6361	6360
O-540-J3A5	6351	6350	TIO-540-AF1B	6361	6360
IO-540-A1B5	6351	6351	TIO-540-AG1A	6361	6360
IO-540-AG1A5	6363	6360	TIO-540-AH1A	6361	6360
IO-540-C4B5	6393	6350	TIO-540-AJ1A	6361, 6393	6360, 6361
IO-540-C4D5	6351	6350, 6351	TIO-540-AK1A	6361	6361
IO-540-D4A5	6393	6350	LTIO-540-J2B	6394	6340
IO-540-D4B5	6351	6350, 6351	IO-580-B1A	6393	6350
IO-540-E1A5	6393	6350	AEIO-580-B1A	6393	6350

* These engines cannot include Slick magnetos if aftermarket turbocharger kits are installed.

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NOTICE: The Lasar Magnetos identified below are used in engines manufactured, rebuilt, overhauled, or repaired by Lycoming. The use of any other Lasar Magneto must be approved by the STC holder.

◆Lasar Magnetos on O-320 series engines use the following controller and harness:

- 12V Base Model uses P/N 66SLC-1001-01 controller and P/N 67Y22441-43 harness.
- 24V Base Model uses P/N 66SLC-1002-01 controller and P/N 67Y22441-43 harness.
- 12V with CHT uses P/N 66SLC-1011-01 controller and P/N 67Y22441-43 harness.
- 24V with CHT uses P/N 66SLC-1012-01 controller and P/N 67Y22441-43 harness.

■Lasar Magnetos on O-360 series engines use the following controller and harness:

- 12V Base Model uses P/N 66SLC-1001-04 controller and P/N 67Y22441-43 harness.
- 24V Base Model uses P/N 66SLC-1002-04 controller and P/N 67Y22441-43 harness.
- 12V with CHT uses P/N 66SLC-1011-04 controller and P/N 67Y22441-43 harness.
- 24V with CHT uses P/N 66SLC-1012-04 controller and P/N 67Y22441-43 harness.

♣Lasar Magnetos on IO-360 series engines at 20° use the following controller and harness:

- 12V Base Model uses P/N 66SLC-1001-02 controller and P/N 67Y22441-43 harness.
- 24V Base Model uses P/N 66SLC-1002-02 controller and P/N 67Y22441-43 harness.
- 12V with CHT uses P/N 66SLC-1011-02 controller and P/N 67Y22441-43 harness.
- 24V with CHT uses P/N 66SLC-1012-02 controller and P/N 67Y22441-43 harness.

♥Lasar Magnetos on IO-360 series engines at 25° use the following controller and harness:

- 12V Base Model uses P/N 66SLC-1001-03 controller and P/N 67Y22441-43 harness.
- 24V Base Model uses P/N 66SLC-1002-03 controller and P/N 67Y22441-43 harness.
- 12V with CHT uses P/N 66SLC-1011-03 controller and P/N 67Y22441-43 harness.
- 24V with CHT uses P/N 66SLC-1012-03 controller and P/N 67Y22441-43 harness.

**Table 2
Cross-Reference of Lycoming Part Numbers and Slick Magneto Model Numbers**

Slick Model No.	Lycoming Part No.	Slick Model No.	Lycoming Part No.
4302	66GP-0RANN	4770	66K22445
4307	66GP-0SANP	4771	66K22442
4330	66GC25RFNN	4775	66K22444
4342	66GP-0SAEN	4776	66K22443
4344	66GP-0RAEN	6331	66LC35RDNP
4345	66GR15SANN	6340	66LP-0RCNP
4347	66GR25SANN	6350	66LP-0SCNN
4348	66GR25RANN	6351	66LC35SDNN
4353	66GP-0SAGN	6355	66LC45SDNN
4354	66GC25SFGN	6360	66LP-0SCNP
4370	66GP-0SANN	6361	66LC35SDNP
4371	66GC20SFNN	6363	66LR30SCNP
4372	66GC15SFNN	6365	66LR25SCNP
4373	66GC25SFNN	6371	66LP-0SCGN
4374	66GC15RFNN	6390	66LP-0SCEN
4377	66GC25SFNP	6391	66LR25RCNP
4381	66GC05SFNN	6392	66LR37RCNN
4761	66K22535	6393	66LR37SCNN
4766	66K22536	6394	66LR30RCNP

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**Table 3
Four-Cylinder Slick Model Numbers**

4000 Series	4100 Series	4200 Series		Current Model No.
----	----	----	4202	4302
----	----	----	4230	4330
----	----	----	4242	4342
----	----	----	4244	4344
----	----	----	4245	4345
----	----	----	4247	4347
----	----	----	4248	4348
----	----	----	4253	4353
----	----	----	4254	4354
4050	4150	4250	4270	4370
4051	4151	4251	4271	4371
4091	4191	4251	4271	4371
4052	4152	4252	4272	4372
----	----	----	4273	4373
----	----	----	4274	4374
4081	4181	4281	4281	4381

**Table 4
Six-Cylinder Slick Model Numbers**

6200 Series	Current Model No.	6200 Series	Current Model No.
6231	6331	6263	6363
6240	6340	6265	6365
6250	6350	6271	6371
6251	6351	6290	6390
6255	6355	6291	6391
6260	6360	6292	6392
6261	6361	6293	6393

**Table 5
Approved Fixed Timing Lycoming EIS on Lycoming Engine Models**

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
O-235-C1	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-C1B	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-235-C2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-C2C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-E2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-F2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
				IC	66K4F3SN-02
O-235-F2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-G1	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-G2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-H2C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-235-J2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02

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Table 5 (Cont.)
Approved Fixed Timing Lycoming EIS on Lycoming Engine Models

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
O-235-K2B	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
O-235-K2C	20°	IC	66K4F3SN-01	P / R IC	66K4A3SN-01 66K4F3SN-01
O-235-L2A	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
O-235-L2C	20°	IC	66K4F3SN-01	P / R IC	66K4A3SN-01 66K4F3SN-01
O-235-N2A	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
O-235-N2C	20°	IC	66K4F3SN-01	P / R IC	66K4A3SN-01 66K4F3SN-01
O-290-D	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-290-D2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-290-D2C	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-320-A2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-A2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-A2C	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-320-A2D	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-A3A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-A3B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-B1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-B2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-B2B	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-320-B2C	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-320-B2D	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-B2E	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-B3B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D1D	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D1F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D2B	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-320-D2G	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-D2J	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
O-320-D3G	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-320-E1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E1C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E1F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E2C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E2D	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-320-E2F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E2G	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-320-E3D	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-320-B1A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
IO-320-B1C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-320-C1A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
IO-320-D1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-320-D1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-320-E1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02

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Approved Fixed Timing Lycoming EIS on Lycoming Engine Models

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
IO-320-E1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-320-E2A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-320-E2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-320-A1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
AIO-320-A1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-320-A2A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
AIO-320-A2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-320-B1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-320-C1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
LIO-320-B1A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
LIO-320-C1A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-320-D1B	25°	P / R IC	66K4A3SN-02 66K4F3SN-02	P / R	66K4A3SN-02
AEIO-320-D2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AEIO-320-E1B	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-320-E2B	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
O-360-A1A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A1D	25°	P / R IC	66K4A3SN-02 66K4F3SN-02	P / R	66K4A3SN-02
O-360-A1F6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A1G6	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-A1H	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A1H6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A1P	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A2A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A2F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-A2G	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A3A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A4A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-A4G	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A4J	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-A4K	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-A4M	25°	P / R IC	66K4A3SN-02 66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-A4N	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
O-360-A4P	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-B2A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-B2C	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-C1A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02

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Table 5 (Cont.)
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ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
O-360-C1E	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-C1F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-C1G	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-C2A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-C2C	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
O-360-C2E	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-C4F	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
O-360-C4P	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
O-360-F1A6	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
O-360-G1A6	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
O-360-J2A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
HO-360-C1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
IO-360-A1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-360-A1B	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-A1B6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-A1D	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-A1D6	20°	P / R IC	66K4A3SN-01 66K4F3SN-01	P / R	66K4A3SN-01
IO-360-A2A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-360-A2B	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-A2D	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-360-A3B6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-B1B	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
IO-360-B1E	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-360-B1F	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-360-B1F6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-360-B1G6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-360-B2E	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-360-B4A	25°	P / R IC	66K4A3SN-02 66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
IO-360-C1A	20°	P / R	66K4A3SN-01 66K4A3SN-01	P / R IC	66K4F3SN-01
IO-360-C1B	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-360-C1C	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-C1C6	20°	IC	66K4F3SN-01	P / R IC	66K4A3SN-01 66K4F3SN-01
IO-360-C1D6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-C1E6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-C1F	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
IO-360-C1G6	20°	P / R	66K4A3SN-05	P / R	66K4A3SN-05
IO-360-D1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-360-F1A	25°	P / R	66K4F3SN-02	IC	66K4A3SN-02
IO-360-L2A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02

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Table 5 (Cont.)
Approved Fixed Timing Lycoming EIS on Lycoming Engine Models

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
IO-360-M1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
IO-360-M1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-360-N1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
IO-360-P1A	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
LO-360-A1H6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
AIO-360-A1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
AIO-360-A1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-360-A2A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
AIO-360-A2B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AIO-360-B1B	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
HIO-360-D1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
HIO-360-G1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
LIO-360-B1G6	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
LIO-360-C1E6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
LIO-360-M1A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
TIO-360-A1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
TIO-360-A1B	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
TIO-360-A3B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-360-A1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-360-A1B	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
AEIO-360-A1B6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
AEIO-360-A1D	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
AEIO-360-A1E	20°	IC	66K4F3SN-01	P / R IC	66K4A3SN-01 66K4F3SN-01
AEIO-360-A1E6	20°	IC	66K4F3SN-01	P / R	66K4A3SN-01
AEIO-360-A2C	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-360-B1B	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
AEIO-360-B1F	25°	P / R IC	66K4A3SN-02 66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
AEIO-360-B1G6	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-360-B1H	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
AEIO-360-B2F	25°	IC	66K4F3SN-02	P / R IC	66K4A3SN-02 66K4F3SN-02
AEIO-360-B4A	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
AEIO-360-H1A	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-360-H1B	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
IO-390-A1A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-A1B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-A3A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-A3B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-C1A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-C1B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-C3A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
IO-390-C3B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
HIO-390-A1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-390-A1A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-390-A3A6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01

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ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
AEIO-390-A1B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
AEIO-390-A3B6	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
O-540-A1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A1B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A1C5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A1D5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A4A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A4D5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-A4E5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-B1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-B2B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-B2C5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-B4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-E4A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-E4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-E4C5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-F1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-F1B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-G1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-G2A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-H2A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
O-540-J3A5	23°	*	66K6D3SN-03	*	66K6D3SN-03
IO-540-A1B5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AG1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-C4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-C4D5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-D4A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-D4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-E1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-E1B5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-G1D5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1B5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1D5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1E5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1F5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1G5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1H5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1J5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-K1K5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-L1C5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-M1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-M1C5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-N1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-R1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02

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Table 5 (Cont.)
Approved Fixed Timing Lycoming EIS on Lycoming Engine Models

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
IO-540-T4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-V4A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-W1A5	23°	*	66K6D3SN-03	*	66K6D3SN-03
IO-540-AA1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AA1B5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AB1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AC1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AE1A5	20°	*	66K6D3SN-01	*	66K6D3SN-01
IO-540-AF1A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
HIO-540-A1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-A2B	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-A2C	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-J2B	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-U2A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-W2A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AE2A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AF1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AF1B	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AG1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AH1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AJ1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
TIO-540-AK1A	23°	*	66K6D3SN-03	*	66K6D3SN-03
AEIO-540-D4A5	25°	*	66K6D3SN-02	*	66K6D3SN-02
AEIO-540-D4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
AEIO-540-D4D5	25°	*	66K6D3SN-02	*	66K6D3SN-02
AEIO-540-L1B5	20°	*	66K6D3SN-01	*	66K6D3SN-01
AEIO-540-L1D5	20°	*	66K6D3SN-01	*	66K6D3SN-01
LTIO-540-J2B	20°	*	66K6D3SN-04	*	66K6D3SN-04
IO-580-B1A	20°	*	66K6D3SN-01	*	66K6D3SN-01
AEIO-580-B1A	20°	*	66K6D3SN-01	*	66K6D3SN-01

***NOTES:**

Drive Types – IC = EIS replacing Impulse Coupled magneto.

P / R = EIS replacing Plain or Retard magneto.

Drive types do not differ for 540 series engines.

EIS is available in 3 fixed timing options: 20°, 23°, & 25° to be matched to the timing degrees on the engine data plate.

⚠ WARNING EIS DIP SWITCHES ARE NOT TO BE CHANGED FROM THE CONFIGURATION SUPPLIED BY LYCOMING. UNAUTHORIZED CHANGING OF THE DIP SWITCHES COULD CAUSE ENGINE DAMAGE FROM UNKNOWN IGNITION TIMING WHICH MAY RESULT IN UNCOMMANDED LOSS OF ENGINE POWER.

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Table 6
Approved Variable Timing Lycoming EIS on Lycoming Engine Models

ENGINE MODEL	Ignition Timing BTC	Left EIS		Right EIS	
		*Drive Type	Part Number	*Drive Type	Part Number
IO-390-D1A6	20°	P / R	66K4A3SN-04	P / R	66K4A3SN-04
IO-390-D1B6	20°	P / R	66K4A3SN-04	P / R	66K4A3SN-04
IO-390-D3A6	20°	P / R	66K4A3SN-04	P / R	66K4A3SN-04
IO-390-D3B6	20°	P / R	66K4A3SN-04	P / R	66K4A3SN-04

***NOTES:**

Drive Types – P / R = EIS replacing Plain or Retard magneto.

Variable Timing is only available for the 390-D series engines currently. Variable Timing for additional engine models will follow in the future.

 WARNING EIS DIP SWITCHES ARE NOT TO BE CHANGED FROM THE CONFIGURATION SUPPLIED BY LYCOMING. UNAUTHORIZED CHANGING OF THE DIP SWITCHES COULD CAUSE DETONATION DAMAGE FROM ADVANCED IGNITION TIMING WHICH MAY RESULT IN UNCOMMANDED LOSS OF ENGINE POWER.

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