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SERVICE INSTRUCTION

DATE: November 18, 2025

Service Instruction No. 1443T
(Supersedes Service Instruction No. 1443S)

Engineering design data in this service document is FAA approved.

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

MODELS AFFECTED: See Table 1

TIME OF COMPLIANCE: Not applicable

REASON FOR REVISION: Revised Table 1 to add approved Hartzell PowerUp magnetos. Added listings for IO-540-C1B5 and IO-540-S1A5 to Table 1 and Table 7. Added new Table 5 for Hartzell PowerUp to Lycoming cross reference.

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 and Hartzell PowerUp 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 or Hartzell PowerUp 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 and Hartzell PowerUp magnetos, some airframe configurations cannot use a Slick magneto or a Hartzell PowerUp magneto. Therefore, before installing a Slick magneto or a Hartzell PowerUp 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.



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

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 OR HARTZELL POWERUP MAGNETO IDENTIFIED IN TABLE 1, CONFIRM WITH THE AIRFRAME MANUFACTURER TO MAKE SURE THE APPROVED SLICK MAGNETO OR HARTZELL POWERUP MAGNETO WILL BE ACCEPTABLE FOR THE AIRFRAME APPLICATION, ESPECIALLY IN THE CASE OF HELICOPTERS.

Table 1

Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
O-235-C1	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-235-C1B	4347	4370	ES4347	ES4370	ES-600614-1	ES-600644-1
O-235-C1C	4371	4370	--	--	--	--
O-235-C2A	4373	4370	ES4373	ES4370, ES4373	--	--
O-235-C2C	4371	4370	ES4371	ES4370, ES4371	--	--
O-235-E1B	--	--	--	--	ES-600614-1	ES-600644-1
O-235-E2A	4373	4370	ES4373	ES4370, ES4373		
O-235-F1B	--	--	--	--	ES-600614-1	ES-600644-1
O-235-F2A	4373, 4381	4370, 4373, 4381	ES4373, ES4381	ES4370, ES4373, ES4381	--	--
O-235-F2B	4373	4370	ES4373	ES4370, ES4373	--	--
O-235-G1	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-235-G1B	--	--	--	--	ES-600614-1	ES-600644-1
O-235-G2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-235-H2C	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-235-J2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-235-K2B	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
O-235-K2C	4372, 4381	4370, 4372	ES4372	ES4370, ES4372	--	--
O-235-L2A	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
O-235-L2C	4372, 4381	4370, 4372, 4381	ES4372, ES4381	ES4370, ES4372, ES4381	--	--
O-235-M2C	4372, 4381	4370	--	--	--	--
O-235-M3C	4372, 4381	4370	--	--	--	--
O-235-N2A	4372	4370, 4372	ES4372	ES4370, ES4372	--	--

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Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
O-235-N2C	4371, 4372, 4381	4370, 4371, 4381	ES4371, ES4381	ES4370, ES4371, ES4381	--	--
O-235-P2C	4372, 4381	4370	--	--	--	--
O-235-P3C	4372, 4381	4370	--	--	--	--
O-290-D2	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-290-D2B	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-A2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-A2B	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-A2C	4347	4370	ES4347	ES4370	ES-600614-1	ES-600644-1
O-320-A2D	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-320-A3A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-A3B	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-A3C	--	--	--	--	ES-600614-1	ES-600644-1
O-320-B1A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-B2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-B2B	4371, 4373, 4771♦	4370, 4371, 4373, 4775♦	ES4371, ES4373,	ES4370, ES4371, ES4373	--	--
O-320-B2C	4347	4342	--	--	ES-600614-1	ES-600644-201
O-320-B2D	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-B2E	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-B3A	4373	4370	--	--	--	--
O-320-B3B	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-B3C	--	--	--	--	ES-600614-1	ES-600644-1
O-320-C2C	--	--	--	--	ES-600614-1	ES-600644-1
O-320-C3C	--	--	--	--	ES-600614-1	ES-600644-1
O-320-D1A	4371, 4373, 4771♦	4342, 4370, 4371, 4373, 4770♦	ES4371, ES4373	ES4370, ES4371, ES4373	--	--
O-320-D1D	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-320-D1F	4373, 4771♦	4370, 4371, 4770♦	ES4373	ES4370, ES4373	--	--
O-320-D2A	4373, 4771♦	4370, 4373, 4770♦	ES4373,	ES4370, ES4373	--	--
O-320-D2B	4347	4370	ES4347	ES4370	ES-600614-1	ES-600644-1
O-320-D2G	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-320-D2H	4371	4370	--	--	--	--
O-320-D2J	4371	4371	ES4371	ES4371	--	--
O-320-D3G	4371, 4771♦	4370, 4371, 4770♦	ES4371,	ES4370, ES4371	--	--
O-320-E1A	4373	4370	--	--	--	--
O-320-E1C	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-E1F	4371, 4373	4370, 4371, 4373	ES4371, ES4373	ES4370, ES4371, ES4373	--	--
O-320-E1J	4371	4370	--	--	--	--
O-320-E2A	4373, 4771♦	4370, 4373, 4770♦	ES4373	ES4370, ES4373	--	--
O-320-E2B	--	--	--	--	ES-600614-1	ES-600644-1
O-320-E2C	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-E2D	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-320-E2F	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-320-E2G	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-320-E3D	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
IO-320-A1A	--	--	--	--	ES-600614-1	ES-600644-1

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Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
IO-320-A2A	--	--	--	--	ES-600614-1	ES-600644-1
IO-320-B1A*	4373	4373	ES4373	ES4373	--	--
IO-320-B1C	4373	4342, 4370, 4373	ES4373	ES4373	--	--
IO-320-B1E	4371	4370	--	--	--	--
IO-320-C1A*	4373	4373	ES4373	ES4373	ES-500514-1	ES-500514-1
IO-320-C1B	--	--	--	--	ES-500514-1	ES-500514-1
IO-320-D1A	4371, 4373, 4771◆	4370, 4770	ES4373	ES4370, ES4373	--	--
IO-320-D1B	4373, 4771◆	4370, 4373, 4770◆	ES4373,	ES4370, ES4373	--	--
IO-320-D1C	4371	4370	--	--	--	--
IO-320-E1A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
IO-320-E1B	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
IO-320-E2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
IO-320-E2B	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
IO-320-F1A	--	--	--	--	ES-500514-1	ES-500514-1
AEIO-320-D1B	4347, 4373	4370, 4373	ES4347, ES4373	ES4370, ES4373	--	--
AEIO-320-D2B	4373	4353, 4370, 4373	ES4373	ES4370, ES4373	--	--
AEIO-320-E1B	4371	4371	ES4371	ES4371	--	--
AEIO-320-E2B	4371	4371	ES4371	ES4371	--	--
LIO-320-B1A*	4330	4330	ES4330	ES4330	--	--
LIO-320-C1A*	4330	4330	ES4330	ES4330	ES-500514-4	ES-500514-4
O-360-A1A	4373, 4771■	4370, 4373, 4770■	ES4373,	ES4370, ES4373	--	--
O-360-A1D	4347, 4373	4370, 4373	ES4347, ES4373	ES4370, ES4373	ES-600614-1	ES-600644-1
O-360-A1F6	4373, 4771■	4342, 4370, 4373, 4770■	ES4373,	ES4370, ES4373	--	--
O-360-A1G6	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A1H	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A1H6	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A1P	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A2D	--	--	--	--	ES-600614-1	ES-600644-1
O-360-A2E	--	--	--	--	ES-600614-1	ES-600644-1
O-360-A2F	4373	4370	ES4373	ES4370, ES4373	--	--
O-360-A2G	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A3A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A3D	--	--	--	--	ES-600614-1	ES-600644-1
O-360-A4A	4373	4370	ES4373	ES4370		
O-360-A4D	--	--	--	--	ES-600614-1	ES-600644-1
O-360-A4G	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-A4J	4373	4370	ES4373	ES4370	--	--
O-360-A4K	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-A4M	4347, 4371, 4373, 4771■	4353, 4370, 4371, 4373, 4770■	ES4347, ES4371, ES4373	ES4370, ES4371, ES4373	--	--
O-360-A4N	4371	4371	ES4371	ES4371	--	--
O-360-A4P	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-B2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-B2C	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-C1A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--

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Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
O-360-C1C	--	--	--	--	ES-600614-1	ES-600644-1
O-360-C1E	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-C1F*	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-C1G	4371, 4373	4370, 4371, 4373	ES4371, ES4373	ES4370, ES4371, ES4373	--	--
O-360-C2A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
O-360-C2C	4347, 4776■	4370, 4770■	ES4347	ES4370	ES-600614-1	ES-600644-1
O-360-C2E	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-C4F	4371	4370, 4371	ES4371	ES4370, ES4371	--	--
O-360-C4P	4371	4371, 4370	ES4371	ES4370, ES4371	--	--
O-360-F1A6	4371	4371	ES4371	ES4371	--	--
O-360-G1A6	4371	4371	--	--	--	--
O-360-J2A	4347	4370	--	--	ES-600614-1	ES-600644-201
IO-360-A1A	4345, 4766***	4370, 4770***	ES4345	ES4370	--	--
IO-360-A1B	4372***	4370***, 4372	ES4372***	ES4370***, ES4372	--	--
IO-360-A1B6	4372, 4761♣ ***	4370, 4372 4770♣ ***	ES4372, ES4761♣ ***	ES4370, ES4372, ES4770♣ ***	--	--
IO-360-A1D	4372***	4370***, 4372	ES4372***	ES4370***, ES4372	--	--
IO-360-A1D6	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
IO-360-A2A	4345	4370	ES4345	ES4370	--	--
IO-360-A2B	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
IO-360-A3B6	4372, 4771♣	4370, 4372, 4770♣	ES4372	ES4370, ES4372	--	--
IO-360-B1A	--	--	--	--	ES-600614-1	ES-600644-1
IO-360-B1B	4347	4370	ES4347	ES4370	ES-600614-1	ES-600644-1
IO-360-B1D	--	--	--	--	ES-600614-1	ES-600644-1
IO-360-B1E	4373, 4771♥	4370, 4373, 4770♥	ES4373	ES4370, ES4373	--	--
IO-360-B1F	4373, 4771♥	4370, 4373, 4770♥	ES4373	ES4370, ES4373	--	--
IO-360-B1F6	4373, 4771♥	4370, 4373, 4770♥	ES4373	ES4370, ES4373	--	--
IO-360-B1G6	4373, 4771♥	4370, 4373, 4770♥	ES4373	ES4370, ES4373	--	--
IO-360-B2E	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
IO-360-B4A	4347, 4373	4370, 4373	ES4347, ES4373	ES4370, ES4373	--	--
IO-360-C1A	4345, 4371***	4370***	ES4345	ES4370***	--	--
IO-360-C1B	4345	4370	ES4345	ES4370	--	--
IO-360-C1C	4371, 4372, 4761**	4370, 4371, 4372, 4770♣ **	ES4371, ES4372	ES4370, ES4371, ES4372	--	--
IO-360-C1C6	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
IO-360-C1D6	4372, 4761♣ ***	4370, 4372, 4770♥ ***	ES4372	ES4370, ES4372	--	--
IO-360-C1E6	4372, 4761♣ ***	4370, 4372, 4770***	ES4372	ES4370, ES4372	--	--
IO-360-C1F*	4372**	4370**, 4372	ES4372**	ES4370**, ES4372	--	--
IO-360-C1G6	4766	4766, 4770♣	--	--	--	--
IO-360-D1A	4345***	4370***	ES4345***	ES4370***	--	--

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Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
IO-360-F1A*	4377	4307	--	--	--	--
IO-360-L2A	4371	4371	ES4371	ES4371	--	--
IO-360-M1A	4347	4370	ES4347	ES4370	--	--
IO-360-M1B	4371, 4373♥	4370, 4371, 4373, 4770♥	ES4371, ES4373	ES4370, ES4371, ES4373	--	--
IO-360-N1A	4347	4370	ES4347	ES4370	--	--
IO-360-P1A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
AEIO-360-A1A	4347	4370	--	--	ES-600614-1	ES-600644-1
AEIO-360-A1B	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
AEIO-360-A1B6	4371, 4372, 4373***	4353, 4370***, 4371, 4372, 4373	ES4371, ES4372, ES4373***	ES4370***, ES4371, ES4372, ES4373	--	--
AEIO-360-A1D	4372	4370, 4372	ES4372	ES4370, ES4372	--	--
AEIO-360-A1E	4372, 4373	4370, 4372, 4373	ES4372, ES4373	ES4370, ES4372, ES4373	--	--
AEIO-360-A1E6	4372, 4761♣	4370, 4372, 4770♣	ES4372	ES4370, ES4372	--	--
AEIO-360-A2C	4345	4370	ES4345	ES4370	--	--
AEIO-360-B1B	4347	4370	ES4347	ES4370	ES-600614-1	ES-600644-1
AEIO-360-B1F	4373, 4347♥	4370, 4373, 4770♥	ES4373	ES4370, ES4373	--	--
AEIO-360-B1F6	4371	4370	--	--	--	--
AEIO-360-B1G6	4371	4371	ES4371	ES4371	--	--
AEIO-360-B1H	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
AEIO-360-B2F	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
AEIO-360-B4A	4373	4370, 4373	ES4373	ES4370, ES4373	--	--
AEIO-360-H1A	4371	4371	ES4371	ES4371	--	--
AEIO-360-H1B	4371	4371	ES4371	ES4371	--	--
HIO-360-A1A	--	--	--	--	ES-600614-1	ES-600614-1
HIO-360-B1A	--	--	--	--	ES-600614-1	ES-600614-1
HIO-360-B1B	--	--	--	--	ES-600614-1	ES-600614-1
HIO-360-D1A	4345	4345	ES4345	ES4345	--	--
HIO-360-G1A	4347	4370	ES4347	ES4370	--	--
HO-360-A1A	--	--	--	--	ES-600614-1	ES-600644-1
HO-360-B1B	--	--	--	--	ES-600614-1	ES-600614-1
HO-360-C1A	4347	4370	ES4347	ES4370	--	--
LIO-360-B1G6	4330	4330	ES4330	ES4330	--	--
LIO-360-C1E6	4374***	4302***, 4374	ES4374***	ES4374	--	--
LIO-360-M1A	4348	4302	--	--	--	--
LO-360-A1H6	4330	4330	ES4330	ES4330	--	--
IO-390-A1A6	4345	4370	ES4345	ES4370	--	--
IO-390-A1B6	4345	4370	ES4345	ES4370	--	--
IO-390-A3A6	4345	4370	ES4345	ES4370	--	--
IO-390-A3B6	4345	4370	ES4345	ES4370	--	--
IO-390-C1A6	4345	4370	ES4345	ES4370	--	--
IO-390-C1B6	4345	4370	ES4345	ES4370	--	--
IO-390-C3A6	4345	4370	ES4345	ES4370	--	--
IO-390-C3B6	4345, 4372	4370	ES4345	ES4370	--	--
IO-390-D1A6	4345	4370	--	--	--	--
IO-390-D1B6	4345	4370	--	--	--	--
IO-390-D3A6	4345	4370	--	--	--	--
IO-390-D3B6	4345	4370	--	--	--	--
AEIO-390-A1A6	4345	4353, 4370	ES4345	ES4370	--	--

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Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
AEIO-390-A1B6	4345	4370	ES4345	ES4370	--	--
AEIO-390-A3A6	4345	4370	ES4345	ES4370	--	--
AEIO-390-A3B6	4345	4370	ES4345	ES4370	--	--
HIO-390-A1A	4345	4370	ES4345	ES4370	--	--
O-540-A1A5	6355	6355	ES6355	ES6355	--	--
O-540-A1B5	6351, 6355	6351, 6355	ES6351, ES6355	ES6351, ES6355	--	--
O-540-A1C5	6355	6355	ES6355	ES6355	--	--
O-540-A1D	--	--	--	--	ES-600616-3	ES-600646-1
O-540-A1D5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
O-540-A3D5	--	--	--	--	ES-600616-3	ES-600646-1
O-540-A4A5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
O-540-A4B5	6351	6351	ES6351	ES6351	--	--
O-540-A4D5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
O-540-A4E5	6351	6351	ES6351	ES6351	--	--
O-540-B1A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
O-540-B2A5	--	--	--	--	ES-600616-3	ES-600646-1
O-540-B2B5	6355, 6393	6350, 6355	ES6355, ES6393	ES6350, ES6355	--	--
O-540-B2C5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
O-540-B4A5	--	--	--	--	ES-600616-3	ES-600646-1
O-540-B4B5	6355	6350, 6355	ES6355	ES6350, ES6355	--	--
O-540-E4A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
O-540-E4B5	6355, 6393	6350, 6355	ES6355, ES6393	ES6350, ES6355	--	--
O-540-E4C5	6351, 6393	6351, 6371	ES6351, ES6393	ES6351	--	--
O-540-F1A5	6351	6351, 6390	ES6351	ES6351	--	--
O-540-F1B5	--	--	--	--	ES-600616-3	ES-600646-201
O-540-G1A5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
O-540-G2A5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
O-540-H2A5	6351	6351	ES6351	ES6351	--	--
O-540-J3A5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-A1A5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-AA1A5*	6393	6350	ES6393	ES6350	--	--
IO-540-AA1B5	6361	6360	ES6361	ES6360, ES6361	--	--
IO-540-AB1A5	6351	6351	ES6351	ES6351	--	--
IO-540-AC1A5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-AE1A5	--	--	--	--	ES-600616-9	ES-600646-201
IO-540-AF1A5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-AG1A5*	6363, 6383	6350, 6360	--	--	--	--
IO-540-B1A5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-B1B5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-B1C5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-C1B5	6393	6350	--	--	ES-600616-3	ES-600646-1
IO-540-C1C5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-C4B5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
IO-540-C4C5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-C4D5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-D4A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
IO-540-D4B5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-E1A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
IO-540-E1B5	6393	6350	ES6393	ES6350	--	--
IO-540-G1A5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-G1D5	6351	6351, 6371	ES6351	ES6351	--	--
IO-540-K1A5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-K1B5	6351, 6393	6351, 6371	ES6351, ES6393	ES6351	--	--

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Table 1 (Cont.)

Approved Champion Slick Magnetos and Hartzell PowerUp Magnetos on Lycoming Engine Models

Engine Model	Champion Slick		Hartzell PowerUp			
	Left	Right	Left	Right	Left	Right
IO-540-K1C5	--	--	--	--	ES-600616-3	ES-600646-1
IO-540-K1D5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
IO-540-K1E5*	6351	6350, 6351	ES6351	ES6351	--	--
IO-540-K1F5	6393	6350	ES6393	ES6350	--	--
IO-540-K1G5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-K1H5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-K1J5	6393	6350	ES6393	ES6350	--	--
IO-540-K1K5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-K2A5	6351	6350	--	--	--	--
IO-540-L1C5	6351, 6393	6350, 6351, 6371	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-M1A5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-M1C5	6351, 6393	6350, 6351	ES6351, ES6393	ES6350, ES6351	--	--
IO-540-N1A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
IO-540-R1A5*	6393	6350	ES6393	ES6350	--	--
IO-540-T4B5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-V4A5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
IO-540-W1A5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
AEIO-540-D4A5	6393	6350	ES6393	ES6350	ES-600616-3	ES-600646-1
AEIO-540-D4B5	6351, 6393	6350, 6351, 6371	ES6351, ES6393	ES6350, ES6351	--	--
AEIO-540-D4D5	6393	6350	ES6393	ES6350	--	--
AEIO-540-L1B5	6351, 6393	6350, 6351	ES6351	ES6350, ES6351	--	--
AEIO-540-L1D5	6351	6350, 6351	ES6351	ES6350, ES6351	--	--
HIO-540-A1A	6351	6350	--	--	--	--
TIO-540-A2B	6363	6360	--	--	--	--
TIO-540-A2C	6363	6360	--	--	--	--
TIO-540-AE2A	6363	6360	ES6363	ES6360	--	--
TIO-540-AF1A	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
TIO-540-AF1B	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
TIO-540-AG1A	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
TIO-540-AH1A	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
TIO-540-AJ1A	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
TIO-540-AK1A	6361	6361	ES6361	ES6361	--	--
TIO-540-J2B	6363	6360	ES6363	ES6360	--	--
TIO-540-U2A	6365	6360	ES6365	ES6360	--	--
TIO-540-W2A	6361	6360, 6361	ES6361	ES6360, ES6361	--	--
LTIO-540-J2B	6394	6340	--	--	--	--
IO-580-B1A	6393	6350	ES6393	ES6350	--	--
AEIO-580-B1A	6393	6350	ES6393	ES6350	--	--

* These engines cannot include Slick magnetos or Hartzell PowerUp 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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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 Slick Magneto Model Numbers and Lycoming Part 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
Cross-Reference of Hartzell PowerUp Part Numbers and Lycoming Part Numbers

PowerUp Model No.	Lycoming Part No.	PowerUp Model No.	Lycoming Part No.
ES4302	66GHP-0RBNN	ES6355	66LHC45SANN
ES4330	66GHC25RANN	ES6360	66LHP-0SFNP
ES4345	66GHR15SBNN	ES6361	66LHC35SANN
ES4347	66GHR25SBNN	ES6363	66LHR30SFNP
ES4348	66GHR25RBNN	ES6365	66LHR25SFNP
ES4370	66GHP-0SBNN	ES6393	66LHR37SFNN
ES4371	66GHC20SANN	ES6394	66LHR30RFNP
ES4372	66GHC15SANN	ES-500514-1	66A31665
ES4373	66GHC25SANN	ES-600616-3	66B31674
ES4374	66GHC15RANN	ES-600616-9	66B31684
ES4381	66GHC05SANN	ES-600644-1	66B31678
ES6340	66LHP-0RFNP	ES-600644-201	66B31679
ES6350	66LHP-0SFNN	ES-600646-1	66B31680
ES6351	66LHC35SANN	ES-600646-201	66B31683

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Table 6
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 IC	66K4A3SN-02 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
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

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Table 6 (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-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
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

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Table 6 (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-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
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

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Table 6 (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-B2E	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
IO-360-B4A	25°	P / R	66K4A3SN-02	P / R	66K4A3SN-02
		IC	66K4F3SN-02	IC	66K4F3SN-02
IO-360-C1A	20°	P / R	66K4A3SN-01	P / R	66K4A3SN-01
			66K4F3SN-01	IC	
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	66K4A3SN-01
				IC	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
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	66K4A3SN-02
				IC	66K4F3SN-02
LO-360-A1H6	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
				IC	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	66K4A3SN-02
				IC	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	66K4A3SN-01
				IC	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	66K4A3SN-02	P / R	66K4A3SN-02
		IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-360-B1G6	25°	IC	66K4F3SN-02	IC	66K4F3SN-02
AEIO-360-B1H	25°	IC	66K4F3SN-02	P / R	66K4A3SN-02
				IC	66K4F3SN-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
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
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
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-C1B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
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

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Table 6 (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-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
IO-540-T4B5	25°	*	66K6D3SN-02	*	66K6D3SN-02
IO-540-S1A5	20		66K6D3SN-01		66K6D3SN-01
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	23°	*	66K6D3SN-03	*	66K6D3SN-03
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

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***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.

Table 7
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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