



MOONEY INTERNATIONAL CORPORATION
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MOONEY SPECIAL LETTER 15-24
Date: 11-19-2015

SUBJECT: To ADVISE MOONEY OWNERS/OPERATORS of the **LYCOMING Service Instruction No. 1443K (Supersedes Service Instruction No. 1443J) Issued October 30, 2015 - Approved Slick Magnetos on Lycoming Engines (see attached).**

**MODELS/
S/N AFFECTED:** Per LYCOMING Service Instruction No. 1443K - Dated 10/30/2015 - See Table 1 (see attached).

**TIME OF
COMPLIANCE:** Per LYCOMING Service Instruction No. 1443K - Dated 10/30/2015 - Not Applicable (see attached).

INTRODUCTION: Per LYCOMING Service Instruction No. 1443K - Dated 10/30/2015 - 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 (see attached).

INSTRUCTIONS: Per LYCOMING Service Instruction No. 1443K - Dated 10/30/2015 - This Service Instruction identifies those Slick magnetos approved for use on Lycoming engines identified in Table 1. Table 2 is a cross-reference of Lycoming part numbers and Slick Magneto model numbers.

WARRANTY: Refer to: **LYCOMING Service Instruction No. 1443K (Supersedes Service Instruction No. 1443J) Issued October 30, 2015 - Approved Fuel Pumps (see attached).**

**REFERENCE
DATA:** Refer to: **LYCOMING Service Instruction No. 1443K (Supersedes Service Instruction No. 1443J) Issued October 30, 2015 - Approved Fuel Pumps (see attached).**

PARTS LIST: Refer to: **LYCOMING Service Instruction No. 1443K (Supersedes Service Instruction No. 1443J) Issued October 30, 2015 - Approved Fuel Pumps (see attached).**

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SERVICE INSTRUCTION

DATE: October 30, 2015

Service Instruction No. 1443K
(Supersedes Service Instruction No. 1443J)
Engineering Aspects are
FAA Approved

SUBJECT: Approved Slick Magnetos on Lycoming Engines

MODELS AFFECTED: See Table 1

TIME OF COMPLIANCE: Not applicable

REASON FOR REVISION: Added magnetos, deleted and added engine models in Table 1, and qualified applicability for IO-360-B4A engines not installed in Piper PA28-181 (Archer III) aircraft.

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 those Slick magnetos approved for use on Lycoming engines identified in Table 1. Table 2 is a cross-reference of Lycoming part numbers and Slick Magneto model numbers.

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.

NOTICE: When magnetos are replaced, they must be replaced with the same or a superseding model.

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

NOTICE: All TIO-540 series engines must use Slick 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
O-235-C1	4373	4370
O-235-C1B	4347	4370
O-235-C2A	4373	4370
O-235-C2C	4371	4370
O-235-E2A	4373	4370
O-235-F2A	4373	4370
O-235-F2B	4373	4370
O-235-G1	4373	4370
O-235-G2A	4373	4370
O-235-H2C	4371	4370
O-235-J2A	4373	4370
O-235-K2B	4372	4370
O-235-K2C	4372	4370, 4372
O-235-L2A	4372	4370
O-235-L2C	4372, 4381	4370, 4381
O-235-N2A	4372	4370
O-235-N2C	4371, 4381	4370, 4381
O-290-D2	4373	4370
O-290-D2B	4373	4370
O-290-D2C	4373	4370
O-320-A2A	4373	4370
O-320-A2B	4373	4370
O-320-A2C	4347	4370
O-320-A2D	4371	4370

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

ENGINE MODEL	LEFT MAGNETO	RIGHT MAGNETO
O-320-A3A	4373	4370
O-320-A3B	4373	4370
O-320-B1A	4373	4370
O-320-B2A	4373	4370
O-320-B2B	4371, 4373, 4771♦ (See Notes)	4370, 4775♦ (See Notes)
O-320-B2C	4347	4342
O-320-B2D	4373	4370
O-320-B2E	4373	4370
O-320-B3B	4373	4370
O-320-D1A	4371, 4373, 4771♦ (See Notes)	4342, 4370, 4770♦ (See Notes)
O-320-D1D	4371	4370
O-320-D1F	4373, 4771♦ (See Notes)	4370, 4770♦ (See Notes)
O-320-D2A	4373, 4771♦ (See Notes)	4370, 4770♦ (See Notes)
O-320-D2B	4347	4370
O-320-D2G	4371	4370
O-320-D2J	4371	4371
O-320-D3G	4371, 4771♦ (See Notes)	4370, 4371, 4770♦ (See Notes)
O-320-E1F	4371, 4373	4370
O-320-E2A	4373, 4771♦ (See Notes)	4370, 4770♦ (See Notes)
O-320-E2C	4373	4370
O-320-E2D	4371	4370
O-320-E2F	4373	4370
O-320-E2G	4371	4370
O-320-E3D	4371	4370
IO-320-B1A*	4373	4373
IO-320-B1C	4373	4070
IO-320-C1A*	4373	4373
IO-320-D1A	4373, 4771♦ (See Notes)	4370
IO-320-D1B	4373, 4771♦ (See Notes)	4370, 4770♦ (See Notes)
IO-320-E1A	4373	4370
IO-320-E1B	4371	4370
IO-320-E2A	4373	4373, 4370
IO-320-E2B	4371	4370
AEIO-320-D1B	4373, 4347	4370
AEIO-320-D2B	4373	4353, 4370
AEIO-320-E1B	4371	4371
AEIO-320-E2B	4371	4371
LIO-320-B1A*	4330	4330
LIO-320-C1A*	4330	4330
O-360-A1A	4373, 4771■ (See Notes)	4370, 4770■ (See Notes)
O-360-A1D	4347, 4373	4370
O-360-A1F6	4373, 4771■ (See Notes)	4342, 4370, 4770■ (See Notes)
O-360-A1G6	4373	4370
O-360-A1H	4373	4370
O-360-A1H6	4373	4370
O-360-A1P	4373	4370
O-360-A2A	4373	4370
O-360-A2F	4373	4370
O-360-A2G	4373	4370

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

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Approved Slick Magnetos on Lycoming Engine Models (Cont.)

ENGINE MODEL	LEFT MAGNETO	RIGHT MAGNETO
O-360-A3A	4373	4370
O-360-A4A	4373	4370
O-360-A4G	4373	4370
O-360-A4J	4373	4370
O-360-A4K	4371	4370
O-360-A4M	4347, 4371, 4373, 4771■ (See Notes)	4370, 4371, 4770■ (See Notes)
O-360-A4N	4371	4371
O-360-A4P	4371	4370, 4371
O-360-B2A	4373	4370
O-360-B2C	4373	4370
O-360-C1A	4373	4370
O-360-C1E	4371	4370, 4371
O-360-C1F*	4371	4370
O-360-C1G	4371, 4373	4370, 4371
O-360-C2A	4373	4370
O-360-C2C	4347, 4776■ (See Notes)	4370, 4770■ (See Notes)
O-360-C2E	4371	4370
O-360-C4F	4371	4370
O-360-C4P	4371	4370, 4371
O-360-F1A6	4371	4371
O-360-J2A	4347	4370
IO-360-A1A	4345, 4766***	4370, 4770***
IO-360-A1B	4372***	4370***
IO-360-A1B6	4372, 4761♣ (See Notes)***	4370, 4770♣ (See Notes)***
IO-360-A1D	4372***	4370***
IO-360-A1D6	4370, 4373	4370
IO-360-A2B	4372	4370
IO-360-A3B6	4372, 4761, 4771♣ (See Notes)	4370, 4770♣ (See Notes)
IO-360-B1B	4347	4370
IO-360-B1E	4373, 4771♥ (See Notes)	4370, 4770♥ (See Notes)
IO-360-B1F	4373, 4771♥ (See Notes)	4370, 4770♥ (See Notes)
IO-360-B1G6	4373, 4771♥ (See Notes)	4370, 4770♥ (See Notes)
IO-360-B2E	4373	4370
IO-360-B4A	4347, 4371, 4373	4370, 4371, 4373
IO-360-C1A	4345***	4371, 4370***
IO-360-C1B	4345	4370
IO-360-C1C	4371, 4372, 4761♣ (See Notes)**	4370, 4770♣ (See Notes)**
IO-360-C1C6	4372	4370, 4372
IO-360-C1D6	4372, 4761♣ (See Notes)***	4370, 4770♥ (See Notes)***
IO-360-C1E6	4372, 4761♣ (See Notes)***	4370, 4770♣ (See Notes)***
IO-360-C1F*	4372**	4370**
IO-360-C1G6	4766	4766, 4770♣ (See Notes)
IO-360-D1A	4345***	4370***
IO-360-F1A	4307	4377
IO-360-L2A	4371	4371
IO-360-M1A	4347, 4395♥ (See Notes)	4370, 4770♥ (See Notes)
IO-360-M1B	4371, 4771, 4373♥ (See Notes)	4370, 4770♥ (See Notes)

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

ENGINE MODEL	LEFT MAGNETO	RIGHT MAGNETO
AEIO-360-A1B	4372	4370
AEIO-360-A1B6	4371, 4372, 4373***	4353, 4370***
AEIO-360-A1D	4372	4370
AEIO-360-A1E	4372, 4373	4370
AEIO-360-A1E6	4372, 4761♣ (See Notes)	4370, 4770♣ (See Notes)
AEIO-360-A2C	4345	4370
AEIO-360-B1B	4347	4370
AEIO-360-B1F	4373, 4771, 4347♥ (See Notes)	4370, 4373, 4770♥ (See Notes)
AEIO-360-B1G6	4371	4371
AEIO-360-B1H	4373	4370
AEIO-360-B2F	4373	4373, 4370
AEIO-360-B4A	4373	4370
AEIO-360-H1A	4371	4371
AEIO-360-H1B	4371	4371
HO-360-C1A	4347	4370
HIO-360-D1A	4345	4345
HIO-360-G1A	4347	4370
LO-360-A1H6	4330	4302
LIO-360-C1E6	4374***	4302***
LIO-360-M1A	4348	4302
IO-390-A1A6	4345	4370
IO-390-A1B6	4345	4370
IO-390-A3A6	4345	4370
AEIO-390-A1A6	4345	4370
AEIO-390-A3A6	4345	4370
AEIO-390-A1B6	4345	4370
AEIO-390-A3B6	4345	4370
O-540-A1A5	6355	6350
O-540-A1B5	6355, 6351	6355
O-540-A1C5	6355	6355
O-540-A1D5	6393	6350
O-540-A4A5	6351	6350
O-540-A4D5	6393	6350
O-540-A4E5	6351	6351
O-540-B1A5	6393	6350
O-540-B2B5	6355, 6393	6350
O-540-B2C5	6351, 6393	6350
O-540-B4B5	6355	6350
O-540-E4A5	6393	6350
O-540-E4B5	6355, 6393	6350
O-540-E4C5	6351, 6393	6371
O-540-F1A5	6390	6351
O-540-G1A5	6351, 6393	6350
O-540-G2A5	6351, 6393	6350
O-540-H2A5	6351	6351
O-540-J3A5	6351	6350
IO-540-A1B5	6351	6351
IO-540-AG1A5	6363	6360
IO-540-C4B5	6393	6350

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

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

ENGINE MODEL	LEFT MAGNETO	RIGHT MAGNETO
IO-540-C4D5	6351	6350, 6351
IO-540-D4A5	6393	6350
IO-540-D4B5	6351	6350, 6351
IO-540-E1A5	6393	6350
IO-540-E1B5	6393	6350
IO-540-G1D5	6351	6371
IO-540-K1A5	6351, 6393	6350
IO-540-K1B5	6351, 6393	6371
IO-540-K1D5	6393	6350
IO-540-K1E5*	6351, 6393	6351, 6393
IO-540-K1F5	6393	6350
IO-540-K1G5	6351, 6393	6350
IO-540-K1H5	6351, 6393	6350
IO-540-K1J5	6393	6350
IO-540-K1K5	6351, 6393	6350
IO-540-L1C5	6351, 6393	6350,
IO-540-M1A5	6351, 6393	6350
IO-540-M1C5	6351, 6393	6350, 6351
IO-540-N1A5	6393	6350
IO-540-R1A5*	6393	6350
IO-540-T4B5	6351	6350
IO-540-V4A5	6351	6350
IO-540-W1A5	6351	6350
IO-540-AA1A5	6393	6350
IO-540-AA1B5	6361	6360
IO-540-AB1A5	6351	6351
IO-540-AC1A5	6351, 6393	6350, 6351
IO-540-AF1A5	6351	6350
AEIO-540-D4A5	6393	6350
AEIO-540-D4B5	6351, 6393	6371
AEIO-540-D4D5	6393	6350, 6393
AEIO-540-L1B5	6351, 6393	6350
AEIO-540-L1D5	6351	6350
TIO-540-A2B	6363	6360
TIO-540-A2C	6363	6360
TIO-540-J2B	6363	6360
TIO-540-U2A	6365	6360
TIO-540-W2A	6361, 6393	6360, 6361
TIO-540-AE2A	6363	6360
TIO-540-AF1A	6361	6360
TIO-540-AF1B	6361	6360
TIO-540-AG1A	6361	6360
TIO-540-AH1A	6361	6360
TIO-540-AJ1A	6361, 6393	6360, 6361
TIO-540-AK1A	6361	6361
LTIO-540-J2B	6394	6340
IO-580-B1A	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	4771	66K22442
4307	66GP-0SANP	4775	66K22444
4330	66GC25RFNN	4776	66K22443
4342	66GP-0SAEN	6331	66LC35RDNP
4343	66GP-0RAEN	6340	66LP-0RCNP
4345	66GR15SANN	6350	66LP-0SCNN
4347	66GR25SANN	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

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Table 2
Cross-Reference of Lycoming Part Numbers and
Slick Magneto Model Numbers (Cont.)

SLICK MODEL NO.	LYCOMING PART NO.	SLICK MODEL NO.	LYCOMING PART NO.
4374	66GC15RFNN	6390	66LP-0SCEN
4377	66GC25SFNP	6391	66LR25RCNP
4381	66GC05SFNN	6392	66LR37RCNN
4761	66K22535	6393	66LR37SCNN
4766	66K22536	6394	66LR30RCNP
4770	66K22445		

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	4357
----	----	----	4248	4358
----	----	----	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

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