



652 Oliver Street  
 Williamsport, PA 17701 U.S.A.  
 Telephone +1 (877) 839-7878 (U.S. and Canada)  
 Telephone +1 (570) 327-7222 (International)  
 Fax +1 (570) 327-7101  
 Email [Technicalsupport@lycoming.com](mailto:Technicalsupport@lycoming.com)  
[www.lycoming.com](http://www.lycoming.com)

# MANDATORY

# SERVICE BULLETIN

DATE: September 20, 2024 Service Bulletin No. 660  
Engineering Aspects are  
FAA Approved

SUBJECT: Reprint of Slick/Champion Aerospace Service Bulletin SB1-24A

MODELS AFFECTED: All 4 and 6-cylinder Lycoming engines equipped with Slick 4300 or 6300 Series Impulse Coupled Magnetos.

TIME OF COMPLIANCE: As required in the Slick/Champion Aerospace Service Bulletin SB1-24A

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

This Service Bulletin is notification of required action for mandatory compliance with Slick/Champion Aerospace Service Bulletin No. SB1-24A dated 05/17/2024, regarding Lycoming engine models with Slick 4300 or 6300 Series Impulse Coupled Magnetos (Serial Numbers between 23030001 thru 23100414 identified in Slick/Champion Aerospace Service Bulletin SB1-24A) approved for use on Lycoming engines. These magnetos were manufactured between March 2023 and October 2023.

**NOTICE:** Refer to the latest revision of Service Instruction No. 1443 for cross references of Slick model numbers and Lycoming part numbers.

**Slick/Champion Aerospace Service Bulletin No. SB1-24A dated 05/17/2024 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 660 is issued. However, compliance with this Service Bulletin is to be in accordance with the latest revision of the Slick/Champion Aerospace Service Bulletin No. SB1-24.**

**NOTICE:** If compliance has already be made in accordance with Champion/Slick Service Bulletin 1-24A, no further action is required.

### **Required Action**

1. Identify all Slick 4300 or 6300 series Impulse coupled magnetos with serial numbers of 23030001 through 23100414 installed on Lycoming 4 and 6-cylinder engines.
2. Identify all Slick 4300 or 6300 series Impulse coupled magnetos with serial numbers of 23030001 through 23100414 in spares inventory.
3. Follow the instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB1-24A.



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**CAUTION:** IF YOUR MAGNETO(S) ARE RETUNED TO CHAMPION FOR REWORK IN ACCORDANCE WITH SB1-24A, BEFORE REINSTALLING VERIFY THAT THE MAGNETO NAMEPLATE IS STAMPED WITH A “B” PER SB1-24A. IF YOU TOOK DELIVERY OF AN ENGINE OR REPLACEMENT MAGNETO FROM LYCOMING AFTER MAY 10, 2024 AND THE MAGNETO(S) HAVE A SERIAL NUMBER WITHIN THE SERIAL NUMBER RANGE OF SB1-24A, CONFIRM THE MAGNETO NAMEPLATE IS STAMPED WITH A “B”. IF IT IS NOT, CONTACT LYCOMING AS SOON AS POSSIBLE.

### **Warranty Information**

For engines and magnetos delivered by Lycoming, Lycoming will accept warranty claims for consideration for magneto removal and installation labor, and inbound freight to Champion (items not covered under Champion’s SB1-24A). Removal and installation labor will be considered in accordance with the latest revision of SSP-875-2 Labor Allowance Guidebook. Lycoming will provide warranty coverage for completion of Mandatory Service Bulletin No. 660 for 12 months from the date of this publication. File a warranty claim for labor, parts, and standard shipping. Please refer to your Lycoming Engine’s Limited Warranty for procedures, details, and limitations related to your warranty. Information is available online at [www.lycoming.com/Warranty](http://www.lycoming.com/Warranty). Contact an Authorized Lycoming Distributor for assistance in filing a warranty claim and to order all necessary part.

If you have any questions, contact Lycoming Field Service by phone at 570-327-7222 or 877-839-7878.

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**SB1-24A**  
Supersedes SB1-24

# SLICK Service Bulletin

**TO:** Aircraft manufacturers, aircraft engine manufacturers, distributors, dealers, engine overhaul facilities, owners and operators of Slick magnetos.

**SUBJECT:** Mandatory inspection of Slick by Champion magnetos.

**MAGNETO MODELS**

**AFFECTED:** All Factory New 4300/6300 magneto models with serial numbers between 23030001 and 23100414.

NOTE: 23030001 = S/N manufacture date of March 2023  
23100414 = S/N manufacture date of October 2023

**ENGINE MODELS**

**AFFECTED:** Engines equipped with Slick 4300 and 6300 series magnetos.

**BACKGROUND INFORMATION:**

There have been reports of excessive cam wear causing reduced engine performance. The excessive cam wear results from little to no cam grease applied during manufacturing. Excessive cam wear adversely affects the internal timing of the magneto and reduces engine performance over time, causing the engine to run rough and reduced starting performance.

**COMPLIANCE:**

	Description	Initial Inspection	Recurring Inspection	Alternative Method of Compliance/ Terminating Action
Category 1	All affected magnetos in Factory New condition with 0 hours TIS (Time in Service)	Before installation and operation	None	Replace with approved model magneto outside the affected serial number range. Document compliance.
Category 2	All affected magnetos not covered in Category 1	Within the next 50 hours TIS but not to exceed 150 hours total TIS	None	

**PROOF OF COMPLIANCE:**

Appropriate logbook entries. Magnetos returned to Champion Aerospace for repair will be stamped with the letter "B" on the dataplate. See SB1-24 COMPLIANCE and DETAILED INSTRUCTIONS.

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**MAINTENANCE PARTS**

**AFFECTED:** None.

**PARTS REQUIRED**

**PER BULLETIN:** M3081 kit  
M3637 kit

**TOOLS REQUIRED**

**PER BULLETIN:** Refer to the latest revision of Champion Slick F-1100 Master Service Manual, as applicable.

**WEIGHT CHANGE:** None.

**REQUIRED SERVICE**

**LITERATURE:** Refer to the latest revision of Champion Slick F-1100 Master Service Manual, as applicable, when performing the detailed instructions contained in this Service Bulletin.

**WARRANTY INFORMATION:**

Magnetos that fail the required inspection within the DETAILED INSTRUCTIONS have two options for warranty resolution:

Option 1: If the unit fails the required inspection, order and install a contact breaker points replacement kit (M3081/M3637) through an authorized Champion Aerospace distributor. Initiate a warranty return with the distributor for warranty credit. Distributor will provide a warranty form for completion. Champion Aerospace reserves the right to reject warranty for any returns that are:

1. Not manufactured within the affected range.
2. Subsequently found to pass the required inspection.
3. Not returned with a Warranty Form.

Option 2: If the unit fails the required inspection, return the magneto to Champion Aerospace for repair. Champion Aerospace will repair the magneto by installing a new set of points and a new cam and return to the customer at no-charge. No other repairs or inspections will be performed during this process. Customer is required to cover all inbound freight expense and ship the affected unit with an accompanying return form to:

SB1-24 Returns  
Champion Aerospace Repairs  
Western Skyways  
21 Creative Place  
Montrose, CO 81401

**DETAILED INSTRUCTIONS:**

1. Locate the serial number on the magneto dataplate (Fig. 1). If the serial number is determined to be within the range specified in this bulletin and the dataplate is not stamped with the letter "B", remove the magneto from the engine in accordance with the latest revision of the engine manufacturer's manual(s).

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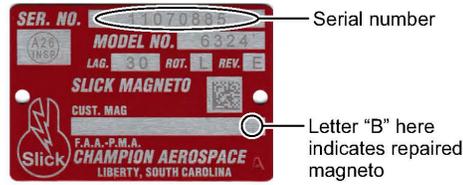


Figure 1 Magneto nameplate

- (a) For Category 1 magnetos per this service bulletin, disassemble the magneto and inspect the cam for cam grease. If no cam grease is present, apply cam grease M1827 or equivalent (Fig. 2), per the latest revision of F-1100 Master Service Manual.
- (b) For Category 2 magnetos per this service bulletin, disassemble the magneto and inspect the cam for cam grease and wear conditions. If no cam grease is present, and cam shows signs of wear, replace the contact breaker points assembly and the cam, per the latest revision of F-1100 Master Service Manual is required.

Apply a bead of cam grease to both cam lobes

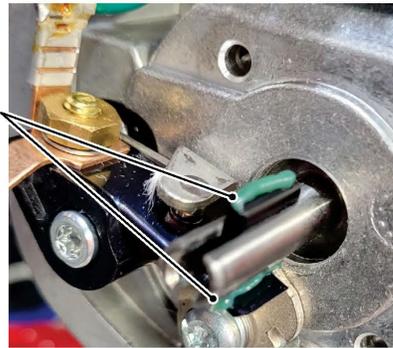


Figure 2 Proper cam grease application

**WARNING:** The cam and contact breaker points **MUST** be replaced together. The practice of replacing only the points or only the cam is not approved and can lead to poor engine performance and incorrect internal timing.

**NOTE:** This repair does not affect normal inspection and maintenance intervals as defined in the latest revision of the F-1100 Master Service Manual.

**LABOR ALLOWANCE:** None.

THIS SERVICE BULLETIN IS A SUPPLEMENT TO SLICK MAINTENANCE AND OVERHAUL MANUALS L-1037 AND L-1363. CHECK WITH CHAMPION AEROSPACE TO BE SURE YOU HAVE THE MOST CURRENT REVISION OF SLICK MANUALS L-1037 AND L-1363 AND PERTINENT SERVICE LETTERS AND BULLETINS BEFORE PERFORMING MAINTENANCE OR OVERHAUL.

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