

## TECHNISCHE INFORMATION NR. SI 36-115

**HINWES:** Technische Informationen werden **nur** verwendet um:  
1) Informationen von DAI an unsere Kunden weiterzugeben.  
2) Informationen / Dokumente von unseren Zulieferern mit zusätzlichen Informationen an unsere Kunden weiterzugeben.  
Typischerweise unterstehen Technische Informationen keinem Revisionsdienst. Neue Informationen oder Änderungen dieser werden durch eine neue Technische Information weitergegeben.

## SERVICE INFORMATION NO. SI 36-115

**NOTE:** SIs are used **only**:  
1) To distribute information from DAI to our customers.  
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Typically there is no revision service for SIs. Each new information or change of that will be sent along with a new SI.

### I. TECHNISCHE ANGABEN

#### 1.1 Betroffene Flugzeuge:

Alle H36 und HK 36 mit Limbach Motoren

#### 1.2 Gegenstand

ATA Code: 79-00

SLICK Service Bulletin Nr. SB1-15A

#### 1.3 Anlass

SLICK hat die Service Bulletins Nr. SB1-15A herausgegeben, welche den Austausch von Zündmagneten für bestimmte Seriennummern vorschreibt. Der Austausch der Zündmagnete adressiert eine mögliche verkürzte Lebensdauer.

### I. TECHNICAL DETAILS

#### 1.1 Airplanes affected:

All H 36 and HK 36 with Limbach engines

#### 1.2 Subject

ATA Code: 79-00

SLICK Service Bulletin No. SB1-15A

#### 1.3 Reason

SLICK issued Service Bulletin No. SB1-15A mandating the replacement of magnetos for several serial numbers. The replacement of magnetos addresses a potential reduced service life.

**1.4 Information**

Weitere technische Informationen sind im SLICK Service Bulletin Nr. SB1-15A enthalten welches ohne weitere Ergänzungen und Einschränkungen anwendbar ist.

**II. SONSTIGES**

Bei etwaigen Fragen kontaktieren Sie bitte Champion Aerospace LLC.

SLICK Service Bulletin Nr. SB1-15A liegt dieser Technischen Information bei.

**1.4 Information**

For detailed technical information refer to SLICK Service Bulletin No. SB1-15A which is applicable without any further additions or restrictions.

**II. OTHER INFORMATION**

In case of doubt contact Champion Aerospace LLC.

SLICK Service Bulletin No. SB1-15A is attached to this Service Information.

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**TO:** Aircraft Manufacturers, Aircraft Engine Manufacturers, Distributors, Dealers, Engine Maintainers, Engine Overhaul Facilities, Owners and Operators of Slick Aircraft Magnetos.

**SUBJECT:** Potential decreased service life of Slick 4-cylinder magneto distributor gear assemblies. **Based on process and component improvements following the initial release of this service bulletin, the serial number range is being extended in this revision. Magnetos previously returned for compliance to SB1-15 must be returned or inspected for compliance to this revision SB1-15A.**

**MAGNETO MODELS**

**AFFECTED:** The following 4-cylinder magnetos with serial numbers between **08090001 thru 16071072**, K3822 distributor block replacement kits, and K3008 distributor gear assemblies dated **September 26, 2008 thru September 1, 2016:**

4301, 4302, 4303, 4307, 4309, 4310, 4316, 4324, 4330, 4331, 4333, 4342, 4344, 4345, 4346, 4347, 4348, 4353, 4354, 4370, 4371, 4372, 4373, 4374, 4377, 4381, 4392, 4755, 4761, 4766, 4770, 4771, 4776

**NOTE:** **08090001 = SN manufacture date of September 2008 and 16071072 = SN manufacture date of July 2016**

**If it is not possible to confirm the version of the distributor gear that is installed in a given magneto from maintenance records, the magneto may be removed from the engine in order to have the housing and distributor block removed to allow visual inspection of the distributor gear. Distributor gears with Copper electrodes must be replaced with distributor gears with Monel electrodes.**



**Figure 1. Replacement Kit Box Label Date Code**



**Figure 2. Magneto ID Label Date Code**

\* Changes from SB1-15 initial release in red

ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
07	02	15	11	12	18

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PAGE NO.	REVISION
1 of 4	A

**ENGINE MODELS**

**AFFECTED:** Engines utilizing Slick 4200 series, 4300 series or 4700 series (LASAR) magnetos.

**AIRFRAME MODELS**

**AFFECTED:** Aircraft utilizing Slick 4200 series, 4300 series or 4700 series (LASAR) magnetos.

**BACKGROUND INFORMATION:**

The initial release of SB1-15 was based on a limited number of field reports and product returns, Champion Aerospace has identified a possible condition in the distributor gear assemblies of 4-cylinder magnetos that can lead to decreased service life. Some of the returned products contained distributor gears exhibiting loosening of the electrode finger. This condition was observed in magnetos with a varying number of service hours. Typical symptoms are unusual RPM drop during magneto check, difficulty starting, and/or rough running engines.

While the subject magneto distributor gear assemblies met all acceptance criteria at the time of production, the previous Service Bulletin was issued in order to eliminate any affected 4-cylinder magneto distributor gear assemblies (see below: MAINTENANCE PARTS AFFECTED). Champion Aerospace improved the new replacement K3008 distributor gear assembly to address this issue. Champion Aerospace has made further improvements to the K3008 distributor gear assembly with the final change being the change from a Copper to a Monel distributor gear electrode as of August 2016, making the ultimate product more robust.

**COMPLIANCE:** REMOVE affected distributor gear assembly in subject magnetos and REPLACE with replacement distributor gear assembly, K3008, as soon as possible, not to exceed the next 50 hours. Document Service Bulletin compliance as written entry in applicable Aircraft and/or Engine logbook.



**Figure 3. Affected K3008 Distributor Gear With Copper Electrode**



**Figure 4. K3008 Distributor Gear Marked 510406 (Backside)**

\* Changes from SB1-15 initial release in red

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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
07	02	15	11	12	18

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PAGE NO.

REVISION

2 of 4

A

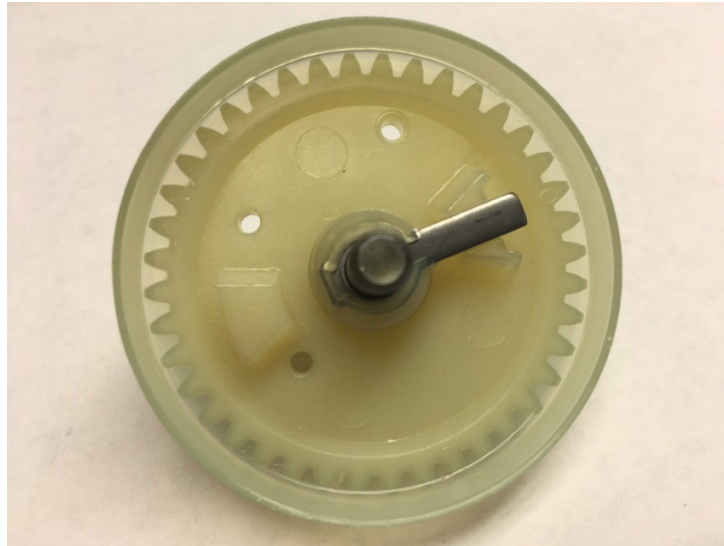


Figure 5. K3008 Distributor Gear With Monel Electrode

**PROOF OF COMPLIANCE:**

Appropriate logbook entries. See SB 1-15A "COMPLIANCE" and "WARRANTY INFORMATION". Make sure that the removed affected part is returned to Champion through the normal warranty process.

**MAINTENANCE PARTS AFFECTED:**

- Any 4200 series, 4300 series or 4700 series (LASAR) magnetos which have had the distributor block assembly replaced with a K3822 distributor block replacement kit dated **Sept. 26, 2008 thru Sept. 1, 2016** installed as part of a repair
- Individual K3822 distributor block replacement kits dated **Sept. 26, 2008 thru Sept. 1, 2016**
- Individual K3008 distributor gear replacement kits dated **Sept. 26, 2008 thru Sept. 1, 2016**

**PARTS REQUIRED PER BULLETIN:**

Replacement K3008 distributor gear assemblies. (The K3008 distributor gear assembly is a subassembly of the K3822 distributor block assembly.)

**TOOLS REQUIRED:**

T-150 E-gap tool, T-118 mag timing pin, mag timing light, and standard shop tools.

**WEIGHT CHANGE:**

None.

**REQUIRED SERVICE LITERATURE:**

Refer to the latest revision of Champion Slick F-1100 Master Service Manual or L-1500 LASAR Master Service Manual, as applicable, when performing the detailed instructions contained in this Service Bulletin.

\* Changes from SB1-15 initial release in red

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MO	DAY	YR	MO	DAY	YR			
07	02	15	11	12	18	3 of 4	A	

**RETURN/REPLACEMENT INFORMATION:**

**NOTE:** Labor is not included per Champion warranty policy.

Affected magnetos must be returned to Champion for rework and returned at no-charge. Return directions follow.

- Ship prepaid to:  
Champion Aerospace LLC  
1230 Old Norris Road  
Liberty, SC/USA 29657  
ATTN: Slick SB1-15A Returns
- Include name, shipping address, model number, serial number of the magneto(s) being returned and time-in-service information in the box with the magneto(s). The estimated turnaround time for returned parts is (5) business days after Champion receives the parts. The same magneto will be returned to the listed shipping address with new distributor gear installed.

**NOTE:** Do not leave engine components (i.e., drive gears, couplers, etc.) installed on magnetos. Champion cannot guarantee the return of these components.

Alternatively, if operator does not wish to return the entire magneto for repair, then the affected distributor gear assembly may be returned to Champion through the normal warranty process including proof of purchase. A credit for a replacement K3008 distributor gear assembly will be issued to the customer via the distributor.

If the magneto has had the distributor block or distributor gear replaced with parts affected by this Service Bulletin, then the affected distributor gear assembly must be returned to Champion through the normal warranty process including proof of purchase. A credit for a replacement K3008 distributor gear assembly will be issued to the customer via the distributor.

**DETAILED INSTRUCTIONS:**

REMOVE K3008 distributor gear assembly in subject magnetos and REPLACE with replacement K3008 distributor gear assembly **as soon as possible**, not to exceed the next 50 hours.

**NOTE:** This repair does not affect normal inspection and maintenance intervals as defined in the latest revision of the F-1100 Master Service Manual or L-1500 LASAR Master Service Manual.

\* Changes from SB1-15 initial release in red

Champion Slick Piston Helpline: 904-772-1909

Champion Slick Technical Publication Website: [www.championaerospacepubs.com](http://www.championaerospacepubs.com)

Champion Slick Piston Products Technical Support E-mail: [slicksupport@champaero.com](mailto:slicksupport@champaero.com)

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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
07	02	15	11	12	18	4 of 4	A
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