

SLICK Service Bulletin

PROPRIETARY STATEMENT

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

SB1-15A

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

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ENGINE MODELS AFFECTED:

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

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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 Figure 4. K3008 Distributor Gear **Gear With Copper Electrode**

Marked 510406 (Backside)

* Changes from SB1-15 initial release in red

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by CHAMPION			
	Figure 5. K3008 Distributor Gear With M	onel Electrod	e
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COMPLIANCE:	Appropriate logbook entries. See SB 1-15A "COMPLI INFORMATION". Make sure that the removed aff Champion through the normal warranty process.		
MAINTENANCE PARTS AFFECTED:	 Any 4200 series, 4300 series or 4700 series (have had the distributor block assembly replace block replacement kit dated Sept. 26, 2008 thru part of a repair 	d with a K382	22 distributor
	 Individual K3822 distributor block replacement thru Sept. 1, 2016 	kits dated <mark>Se</mark>	pt. 26, 2008
	 Individual K3008 distributor gear replacement I thru Sept. 1, 2016 	kits dated <mark>Se</mark>	pt. 26, 2008
PARTS REQUIRED PER BULLETIN:	Replacement K3008 distributor gear assemblies. (T assembly is a subassembly of the K3822 distributor		
TOOLS REQUIRED:	T-150 E-gap tool, T-118 mag timing pin, mag timing tools.	light, and st	andard shop
WEIGHT CHANGE:	None.		
REQUIRED SERVICE LITERATURE:	Refer to the latest revision of Champion Slick F-110 or L-1500 LASAR Master Service Manual, as applica detailed instructions contained in this Service Bullet * Changes from SB1-15 initial release in red	able, when pe	
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by CHAMPION				
RETURN/REPLACEMENT INFORMATION:	NOTE: Labor is not included per Champion warrant	ty policy.		
	Affected magnetos must be returned to Champion f no-charge. Return directions follow.	or rework and	d returned at	
	 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.			
<u>NOTE</u> : 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 fo a replacement K3008 distributor gear assembly will be issued to the custome 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 gea assembly must be returned to Champion through the normal warranty process including proof of purchase. A credit for a replacement K3008 distributor gea assembly will be issued to the customer via the distributor.			
DETAILED INSTRUCTIONS:				
<u>NOTE</u> : 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.				
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