

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.

SUBJECT: Potential decreased service life of Slick 4-cylinder magneto distributor gear assemblies.

MAGNETO MODELS AFFECTED:

The following 4-cylinder magnetos with serial numbers between 13110001 thru 14070600, K3822 distributor block replacement kits, and K3008 distributor gear assemblies dated November 1, 2013 thru July 10, 2014:

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: 1311XXXX = SN manufacture date of November 2013 and 1407XXXX = SN manufacture date of July 2014

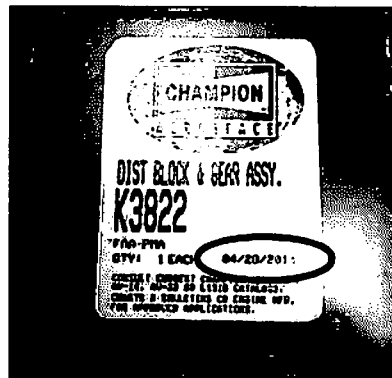


Figure 1. Replacement Kit Box Label

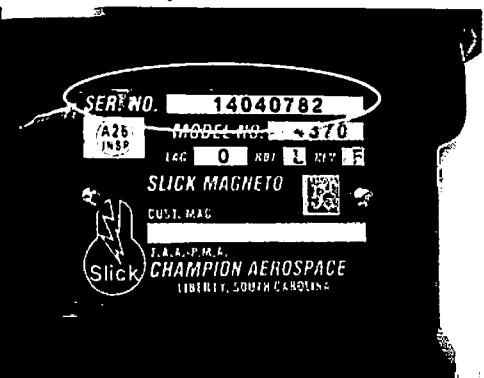


Figure 2. Magneto ID Label

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:

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 has been 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.

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While the subject magneto distributor gear assemblies met all acceptance criteria at the time of production, this Service Bulletin is being issued in order to eliminate any affected 4-cylinder magneto distributor gear assemblies (see below: **MAINTENANCE PARTS AFFECTED**). Champion Aerospace has since improved the new replacement K3008 distributor gear assembly, making the ultimate product more robust.

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



Figure 3. K3008 Distributor Gear

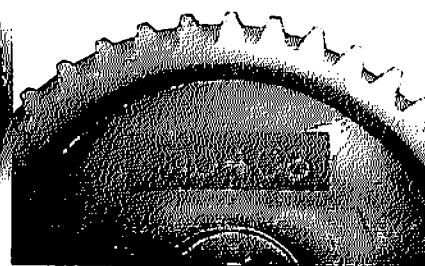


Figure 4. K3008 Distributor Gear Marked 510406 (Backside)

PROOF OF COMPLIANCE:

Appropriate logbook entries. See SB 1-15 "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 Nov. 1, 2013 thru July 10, 2014 installed as part of a repair
- Individual K3822 distributor block replacement kits dated November 1, 2013 thru July 10, 2014
- Individual K3008 distributor gear replacement kits dated November 1, 2013 thru July 10, 2014.

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.

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**REQUIRED SERVICE
LITERATURE:**

Refer to 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.

**WARRANTY
INFORMATION:**

NOTE: Labor is not included per Champion warranty policy.

If the magneto has failed for any reason and is within Champion 1-year, 500 hour time-in-service warranty period, the magneto must be returned to Champion for warranty consideration through the point of sale.

If the magneto is functioning correctly, the magneto 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 SB1-15 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). Champion estimates a maximum of (5) business day turnaround once the parts hit our dock. 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 the magneto is functioning correctly and is within the Champion 1-year, 500 hour time-in-service warranty period and the 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 until December 31, 2015.

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 until December 31, 2015.

**DETAILED
INSTRUCTIONS:**

REMOVE K3008 distributor gear assembly in subject magnetos and REPLACE with replacement K3008 distributor gear assembly at earliest convenient maintenance time, not to exceed the next 50 hours.

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

Champion Slick Piston Helpline: 904-772-1909

Champion Slick Technical Publication Website: www.championaerospacesubs.com

Champion Slick Piston Products Technical Support E-mail: slicksupport@champaero.com

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