



SERVICE BULLETIN RCA 2019-03-26

Date: 26 March 2019

Subject: Reprint of Slick/Champion Aerospace SB1-15A and Lycoming MSB622A

Affected Aircraft: All RV6/6A; RV7/7A; RV8/8A; RV9/9A; RV14/14A aircraft equipped with 4200, 4300, or 4700 (LASAR) magnetos with magneto serial numbers 08090001 thru 16071072 as well as any K3822 distributor block replacement kits, and K3008 distributor gear assemblies dated September 26, 2008 through September 1, 2016 installed in any magneto during maintenance.

The following aircraft constructed or maintained by Robin Coss Aviation are affected by this service bulletin. Please note that this list may not include all aircraft affected by the bulletin as maintenance history is not available for all aircraft constructed by Robin Coss Aviation hence the affectivity of this bulletin is per statement above.

V5-URV	RV8	s/n 83384	V5-UVR	RV7	s/n 1331
ZU-DJH	RV7a	s/n 7560	ZU-FJS	RV9	s/n 91960
ZU-FLT	RV9a	s/n 92006	ZU-FLU	RV9a	s/n 91997
ZU-FMH	RV9a	s/n 91991	ZU-FVY	RV7a	s/n 74090
ZU-FWA	RV7	s/n 73819	ZU-FXS	RV7a	s/n 74134
ZU-ICM	RV7	s/n 72244	ZU-IKR	RV14a	s/n 140240
ZU-ILO	RV8	s/n 83578	ZU-NTC	RV7a	s/n 72958
ZU-OTW	RV7a	s/n 74308	ZU-PLD	RV14	s/n 140108
ZU-PPG	RV9a	s/n 92214	ZU-SAN	RV9a	s/n 91338
ZU-SER	RV8	s/n 83276	ZU-TAS	RV7	s/n 71907
ZU-TTV	RV7	s/n 74380	ZU-TWO	RV7a	s/n 74380
ZU-UYS	RV7a	s/n 74349	ZU-VDL	RV8	s/n 83572
ZU-VRA	RV9a	s/n 91998	ZU-VRF	RV14a	s/n 140003
ZU-WEG	RV7	s/n 73828	ZU-YAZ	RV8	s/n 83327

Required Action: Replacement of distributor gear K3008 per Slick SB1-15A

Time of Compliance: Next maintenance event, not to exceed 50hrs

Synopsis: Lycoming Engines and Slick/Champion Aerospace issued MSB 622 and SB1-15 respectively in July 2015 which required the replacement of the K3008 distributor gear on a small band of affected magnetos with serial numbers between 13110001 and 14070600 due to the fact that the electrode finger was loosening. The revised service bulletin MSB 622A and SB1-15A expands the affectivity of the magneto serial number list and now includes all magnetos with serial numbers 08090001 thru 16071072 and includes magnetos which may have had a distributor gear replaced under SB1-15.

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Symptoms of a loose electrode finger include unusual RPM drop during magneto check, difficulty starting, and/or rough running engine.

Accomplishing Instructions: Per attached Lycoming MSB622A as well as Slick/Champion Aerospace SB1-15A.

Warranty: As per page 4 of SB1-15A labour is not included in the Champion warranty policy however they will provide credit for the parts. This is unfortunately only given if you return the affected part with proof of purchase to them. The costs involved in shipping the item back to the USA normally ends up being more than the cost of the new part.

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MANDATORY SERVICE BULLETIN

DATE: March 13, 2019 Service Bulletin No. 622A
(Supersedes Service Bulletin No. 622)
Engineering Aspects are
FAA Approved

SUBJECT: Reprint of Slick/Champion Aerospace Service Bulletin SB1-15A
MODELS AFFECTED: All Lycoming engines equipped with Slick 4200, 4300, or 4700 Series (LASAR) magnetos.

TIME OF COMPLIANCE: Next maintenance event, not to exceed 50 hours

REASON FOR REVISION: Release of Slick/Champion Service Bulletin SB1-15A

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. SB1-15A dated 11/12/2018, regarding Lycoming engine models with Slick 4200, 4300, or 4700 Series (LASAR) Magnetos (Serial Numbers between 08090001 thru 16071072 identified in Slick/Champion Aerospace Service Bulletin SB1-15A) approved for use on Lycoming engines.

Slick/Champion Aerospace Service Bulletin No. SB1-15A dated 11/12/2018 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 622A is issued. However, compliance with this Service Bulletin is to be in accordance with the latest revision of the Slick Service Bulletin.

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

Due to the Slick Service Bulletin SB1-15A having an expanded date range (September 26, 2008 – September 1, 2016) and the possibility of magneto replacement during that time period, Lycoming is unable to publish an accurate list of potentially affected engine serial numbers. To maintain the highest level of safety possible, Lycoming is requiring the following action.

Required Action

NOTICE: Compliance with Slick/Champion Service Bulletin SB1-15A, or the current revision, is required, even if the magneto distributor gear assembly was replaced per instructions in the original Slick/Champion Service Bulletin SB1-15.

1. Identify all Slick 4200, 4300, or 4700 series magnetos with serial numbers of 08090001 through 16071072 installed on your Lycoming 4-cylinder engine.
2. Identify all K3822 distributor block replacement kits, and K3008 distributor gear assemblies dated September 26, 2008 through September 1, 2016 installed in the magneto or in spares inventory.
3. Obey the instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB1-15A.



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SLICK
by CHAMPION
SLICK Service Bulletin
SB1-15A

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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, 4318, 4324, 4330, 4331, 4333, 4342, 4344, 4345, 4346, 4347, 4348, 4353, 4354, 4370, 4371, 4372, 4373, 4374, 4377, 4381, 4392, 4755, 4761, 4768, 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.



* Changes from SB1-15 initial release in red

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SLICK <small>by CHAMPION</small>	SLICK Service Bulletin	SB1-15A
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 2018, 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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<p>Figure 5. K3008 Distributor Gear With Monel Electrode</p>																								
PROOF OF COMPLIANCE:	<p>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.</p>																							
MAINTENANCE PARTS AFFECTED:	<ul style="list-style-type: none"> • 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:	<p>Replacement K3008 distributor gear assemblies. (The K3008 distributor gear assembly is a subassembly of the K3822 distributor block assembly)</p>																							
TOOLS REQUIRED:	<p>T-150 E-gap tool, T-118 mag timing pin, mag timing light, and standard shop tools.</p>																							
WEIGHT CHANGE:	<p>None.</p>																							
REQUIRED SERVICE LITERATURE:	<p>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.</p> <p><i>* Changes from SB1-15 initial release in red</i></p>																							
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SLICK <small>by CHAMPION</small>	SLICK Service Bulletin	SB1-15A		
RETURN/REPLACEMENT INFORMATION:				
<p>NOTE: Labor is not included per Champion warranty policy.</p> <p>Affected magnetos must be returned to Champion for rework and returned at no-charge. Return directions follow.</p> <ul style="list-style-type: none"> • 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. <p>NOTE: Do not leave engine components (i.e., drive gears, couplers, etc.) installed on magnetos. Champion cannot guarantee the return of these components.</p> <p>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.</p> <p>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.</p>				
DETAILED INSTRUCTIONS:				
<p>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.</p> <p>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.</p> <p style="color: red; text-align: center;">* Changes from SB1-15 initial release in red</p> <p style="text-align: center;">Champion Slick Piston Helpline: 904-772-1509 Champion Slick Technical Publication Website: www.championaerospacepubs.com Champion Slick Piston Products Technical Support E-mail: slicksupport@champspro.com</p>				
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