

Service Bulletin

SB2-19A

TO:	Aircraft Manufacturers, Aircraft Engine Manufacturers, Dis Maintainers, Engine Overhaul Facilities, Owners and Oper Magnetos.	tributors, Dealerrators of Slick /	ers, Engine Aircraft			
SUBJECT:	Mandatory inspection of impulse coupled Slick by Champi	on magnetos.				
MAGNETO MODELS AFFECTED:	The following magneto models with serial numbers betwee 4301, 4303, 4316, 4330, 4333, 4354, 4371, 4372, 4373, 43 6314, 6320, 6324, 6331, 6351, 6355, 6361, 6362, 6364, 63 6399, 6755. In addition, any 4200/6200 series impulse cou impulse coupling changed with an impulse coupling manuf 2015 and February 2019.	374, 4381, 4392 367, 6377, 6379 upled magneto	2, 4755, 6310,), 6380, 6382, which had the			
	NOTE: 15021147 = S/N manufacture date of February 2 19020180 = S/N manufacture date of February 2	2015 2019				
	Impulse coupling replacement kits manufactured between 2019. If it is not possible to confirm the manufactured date that is installed on a given magneto from maintenance rec removed from the engine in order to have the impulse cou	of the impulse ords, the magn	coupling eto must be			
ENGINE MODELS AFFECTED:	Engines utilizing Slick 4200, 4300, and 4700 series (LASA Engines utilizing Slick 6200, 6300, and 6700 series (LASA	R) magnetos. R) magnetos.				
AIRFRAME MODELS AFFECTED:	Aircraft utilizing Slick 4200, 4300, and 4700 series (LASAF Aircraft utilizing Slick 6200, 6300, and 6700 series (LASAF	२) magnetos. R) magnetos.				
BACKGROUND INFORMATION:	There have been limited reports in which impulse coupling to the factory placement. A loose or broken rivet could pote the engine resulting in damage to the gear train or damag could potentially cause catastrophic engine failure.	entially enter the	e gear train of			
	This service bulletin has been updated to add the "TIO' make both alternative methods of compliance applicab	' engines to ca de to either ca	itegory 2 and tegory 1 or 2.			
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COMPLIANCE:		Description	Initial Inspection	Recurring Inspection	Alternative Method of Compliance/Terminating Action			
	Category 1	All affected magnetos except those covered in Category 2	Within the next 100 hours Time in Service (TIS) but <u>not to exceed</u> 400 hours total TIS	Every 400 hours TIS until terminating action	Replace with approved model magneto or impulse coupling replacement kit outside the affected serial number or date range. Document compliance.			
	Category 2	Affected Magnetos installed on Lycoming O/IO/TIO-540 Engines with 5th Order Counter weight	Within the next 25 hours TIS but <u>not to</u> <u>exceed</u> 100 hours total TIS	Every 100 hours TIS	or If applicable, replace impulse magneto with FAA-PMA approved retard-breaker Slick by Champion magneto and SureSTART ignition booster.			
PROOF OF COMPLIANCE:	Appropriate logbook entries. Magnetos returned to Champion Aerospace for repair will be stamped with the letter "B" on the dataplate. See SB2-19A COMPLIANCE and WARRANTY INFORMATION.							
MAINTENANCE PARTS AFFECTED:								
PARTS REQUIRED PER BULLETIN:	Replacement impulse coupling as required.							
TOOLS REQUIRED:	T-118 magneto timing pin, T-106 I/C puller, T-155 I/C rivet gauge, magneto 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.							
WARRANTY INFORMATION:	Affected ma (rivets are f	ne DETAILED INSTRUCTIONS solution:						
	<u>Option 1</u> :	Replacem Initiate a w will provide reserves	ent Kit through an au arranty return with th e a warranty form for the right to reject w	thorized Ch e Distributor completion arranty for	nstall an Impulse Coupling ampion Aerospace Distributor. for warranty credit. Distributor Champion Aerospace any returns that are:			
		2) Ares	ot manufactured wi ubsequently found ot returned with a V	to pass the	e required inspection.			
	Option 2	with impuls repair the the custom during this	se coupling to Cham Magneto by installing er at no-charge. No o process. Customer i	pion Aerosp a new Imp ther repairs of is required to	ive gears and ship the magneto ace for repair. Champion will ulse Coupling and return it to or inspections will be performed o cover all inbound freight accompanying return form to:			
THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE								

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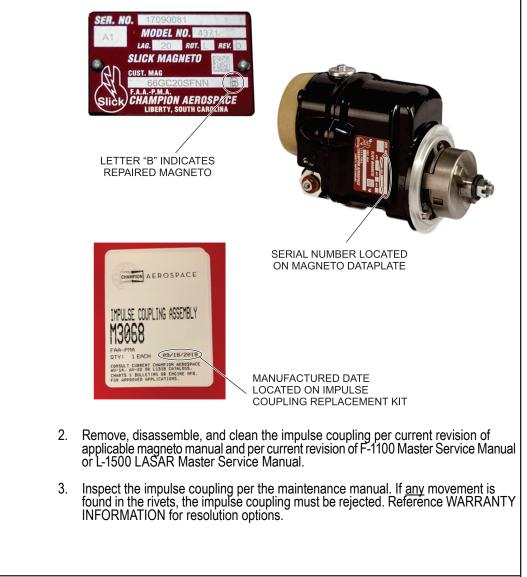
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SB2-19A Returns Champion Aerospace Repair Station 1230 Old Norris Rd Liberty, SC 29657 USA

The magneto must have all drive gears, tach pickups, or other accessories removed and must be shipped with a completed return authorization form. Magnetos not shipped with the completed return form or magnetos returned with drive gears or accessories installed will be rejected for repair and returned to the customer. Repaired magnetos will be stamped with the letter "B" on the dataplate to document compliance.

DETAILED INSTRUCTIONS:

 Locate magneto serial number on magneto dataplate or purchase date of replacement impulse coupling kits. If the magneto serial number or impulse coupling purchase date is determined to be within the range specified in this bulletin and the dataplate is not stamped with the letter "B" per the WARRANTY description above, remove the magneto from engine in accordance with the latest revision of the engine manufacturer's manual(s).

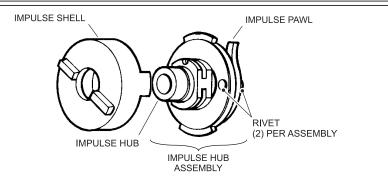


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- 4. Repeat this recurring inspection per the requirements listed in the COMPLIANCE section.
- 5. In no instance shall a repair of the impulse coupling be attempted for loose rivets.
- 6. Liberally oil <u>ALL</u> new or removed impulse couplings with clean engine oil prior to installation. Make sure all castellated drive nuts are torqued to 120-320 in-lbs. Reference Champion Service Letter SL1-17 for additional information.
 - <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.
 - WARNING: Slick impulse couplings are manufactured as matched assemblies. Under no circumstances should a subassembly part from one impulse coupling be used with the mating part from another impulse coupling. The maintenance practice of mixing subassembly parts, even within the same impulse coupling assembly model numbers, is not approved and can lead to impulse coupling failure and subsequent magneto and engine stoppage.

Champion Slick Technical Publication Website: www.championaerospace.com/champion-technical-publications Champion Slick Piston Products Technical Support E-mail: slicksupport@champaero.com

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SB2-19 Repair Authorization Form

This form must be completed in full and returned with the affected magneto (option 2 only). Please contact the Champion Piston Help Line at 1-904-772-1909 or <u>slicksupport@champaero.com</u> with any questions regarding eligibility or the return process.

Questions / Eligibility:

1.	Has the required inspection been performed on this magneto?	🗌 Yes 🗌 No
2.	Did this unit fail the required inspection (rivets were found loose)?	🗆 Yes 🗌 No
3.	Is the magneto within the affected range?	🗆 Yes 🗌 No
4.	Have you removed any drive gears or other attached accessories?	🗌 Yes 🗌 No

Unit is not authorized to return for repair if you have answered "no" to any of the above questions.

Contact Information:

Name:	
Phone and/or Email:	
Return Shipping Address:	
Magneto Information:	
Model Number:	
Serial Number:	
Time-in-Service:	
Engine Model:	

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