

# SLICK

# Service Bulletin

**SB1-12**  
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**TO:** Aircraft Manufacturers, Aircraft Engine Manufacturers, Distributors, Dealers, Engine Overhaul Facilities, Owners and Operators of Slick Aircraft Products Magnetos.

**SUBJECT:** A condition in the point assemblies of Slick single point magnetos that might lead to decreased service life.

**MAGNETO MODELS**

**AFFECTED:** The following Impulse Coupled and Direct Drive Magnetos with Serial Numbers between 11110001 thru 12030902; and M3081 Point Kits dated 11/01/2011 thru 3/22/2012.

4301, 4302, 4309, 4316, 4330, 4333, 4370, 4371, 4372, 4373, 4374, 4381  
6310, 6313, 6314, 6320, 6324, 6331, 6340, 6350, 6351, 6355, 6360, 6361, 6362, 6364,  
6367, 6379, 6382, 6399

**NOTE: The Serial Numbers contained in the list at the end of this Service Bulletin have already been upgraded to comply with this Service Bulletin.**

**NOTE: 1111XXXX = SN manufacture date of November 2011 and 1203XXXX = SN manufacture date of March 2012.**

**ENGINE MODELS**

**AFFECTED:** Engines utilizing Slick 4200 / 6200 OR 4300 / 6300 series Impulse and Direct Drive magnetos.

**AIRFRAME MODELS**

**AFFECTED:** Aircraft utilizing Slick 4200 / 6200 OR 4300 / 6300 series Impulse and Direct Drive magnetos.

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	1 of 8	NONE	

# SLICK Service Bulletin

# SB1-12

(corrected copy)

## BACKGROUND

**INFORMATION:** Champion Aerospace has identified a condition in the point assemblies of single point magnetos that may lead to decreased service life. This issue was identified based on an extremely limited number of product returns. The component assemblies met all acceptance criteria at the time of production. Champion has since made improvements to the process and acceptance criteria to make the new product more robust. On some product manufactured prior to this change, we have seen additional returns of point contacts that exhibit accelerated wear in magnetos with low service hours, prompting the issue of this Service Bulletin. Typical symptoms are unusual RPM drop during magneto check, difficulty starting, rough running engine, and/or unstable point timing upon installation.

**COMPLIANCE:** Replace magneto or affected point assemblies in subject magnetos at earliest convenient maintenance time not to exceed the next scheduled maintenance period. If magnetos have more than 100 hours Time In Service (TIS) the points can be replaced at the next regular maintenance interval.

**PROOF OF COMPLIANCE:** Appropriate logbook entries.

## MAINTENANCE

**PARTS AFFECTED:** Any 4200 / 6200 or 4300 / 6300 series Impulse Coupled or Direct Drive Magnetos which have had the M3081 Point Kits replaced with points dated 11/01/2011 thru 3/22/2012 installed as part of a repair; and individual M3081 Point Kits dated 11/01/2011 thru 3/22/2012.

## PARTS REQUIRED

**PER BULLETIN:** Replacement magnetos and or replacement M3081 Point Kits.

**TOOLS REQUIRED:** T-155 E-gap tool, T-118 mag timing pin, mag timing light and standard shop tools.

**WEIGHT CHANGE:** None.

## REQUIRED SERVICE

**LITERATURE:** Refer to the Champion Slick F-1100 Master Service Manual as applicable when performing the detailed instructions contained in this bulletin.

## WARRANTY

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

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

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	2 of 8	NONE	

If the magneto is functioning correctly and is within the Champion 1-year, 500 hour time-in-service warranty period, the magneto may be returned to Champion for rework and returned at no-charge. Return directions follow.\* Ship prepaid to:

Champion Aerospace  
1230 Old Norris Rd.  
Liberty, SC 29657

Attention Slick SB1-12 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 (5) business day turnaround once the parts hit our dock. The same magneto will be returned to the listed shipping address with new points installed.

**NOTE: Do not leave engine components (i.e., drive gears, couplers, etc.) installed on magnetos. Champion cannot guarantee 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 M3081 Points Kit may be returned to Champion through the normal warranty process including proof of purchase. A credit for a replacement M3081 Points Kit will be issued to the customer via the distributor.

If the magneto is out of the Champion warranty period and has had points replaced with parts affected by this Service Bulletin, then the affected M3081 Points Kit may be returned to Champion through the normal warranty process including proof of purchase. A credit for a replacement M3081 Points Kit will be issued to the customer via the distributor until 12/31/2012.

**DETAILED INSTRUCTIONS:**

Replace point assemblies in subject magnetos at earliest convenient maintenance time not to exceed the next scheduled maintenance period. If magnetos have more than 100 hours the points can be replaced at the next regular maintenance interval.

**NOTE: This repair does not affect normal inspection and maintenance intervals as defined in the F1100 Master Service Manual.**

Champion Slick Piston Helpline: 904-772-1909

Champion Slick Technical Publication Web-site: [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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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	3 of 8	NONE	

# SLICK Service Bulletin

# SB1-12

(corrected copy)

These Serial Numbers have already been upgraded to comply with this Service Bulletin.

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
4301	11120903	4301	11120956	4301	12020779
4301	11120904	4301	11120957	4301	12020780
4301	11120905	4301	11120958	4301	12020781
4301	11120906	4301	11120967	4301	12020782
4301	11120907	4301	11120968	4301	12020791
4301	11120908	4301	11120969	4301	12020792
4301	11120909	4301	11120970	4301	12020793
4301	11120910	4301	11120971	4301	12020794
4301	11120911	4301	11120972	4301	12020795
4301	11120912	4301	11120973	4301	12020796
4301	11120913	4301	11120974	4301	12020797
4301	11120914	4301	11120975	4301	12020798
4301	11120915	4301	11120976	4301	12020799
4301	11120916	4301	11120977	4301	12020800
4301	11120917	4301	11120978	4301	12020801
4301	11120918	4301	12020727	4301	12020802
4301	11120919	4301	12020728	4301	12020979
4301	11120920	4301	12020729	4301	12030081
4301	11120921	4301	12020730	4301	12030082
4301	11120922	4301	12020731	4301	12030083
4301	11120923	4301	12020732	4301	12030084
4301	11120924	4301	12020733	4301	12030093
4301	11120925	4301	12020734	4301	12030094
4301	11120926	4301	12020743	4301	12030095
4301	11120927	4301	12020744	4301	12030096
4301	11120928	4301	12020745	4301	12030842
4301	11120929	4301	12020746	4301	12030843
4301	11120930	4301	12020751	4301	12030844
4301	11120931	4301	12020752	4301	12030845
4301	11120932	4301	12020753	4301	12030846
4301	11120933	4301	12020754	4301	12030847
4301	11120934	4301	12020755	4301	12030848
4301	11120935	4301	12020756	4301	12030849
4301	11120936	4301	12020757	4301	12030850
4301	11120937	4301	12020758	4301	12030851
4301	11120938	4301	12020759	4301	12030852
4301	11120939	4301	12020760	4301	12030853
4301	11120940	4301	12020761	4301	12030854
4301	11120941	4301	12020762	4301	12030855
4301	11120942	4301	12020763	4301	12030856
4301	11120947	4301	12020764	4301	12030857
4301	11120948	4301	12020765	4301	12030858
4301	11120949	4301	12020766	4301	12030859
4301	11120950	4301	12020767	4301	12030860
4301	11120953	4301	12020768	4301	12030861
4301	11120954	4301	12020769	4301	12030862
4301	11120955	4301	12020770	4301	12030863

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	4 of 8	NONE	

# SLICK Service Bulletin

# SB1-12

(corrected copy)

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Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
4301	12030864	4370	12020161	4370	12020707
4301	12030865	4370	12020162	4370	12020708
4302	12030551	4370	12020163	4370	12020709
4302	12030552	4370	12020164	4370	12020710
4302	12030553	4370	12020247	4370	12021042
4302	12030554	4370	12020248	4370	12030135
4302	12030555	4370	12020249	4370	12030136
4309	12020517	4370	12020250	4370	12030137
4309	12020518	4370	12020251	4370	12030151
4310	12020065	4370	12020252	4370	12030152
4330	12020388	4370	12020253	4370	12030157
4330	12020389	4370	12020254	4370	12030158
4330	12020390	4370	12020259	4370	12030159
4330	12030363	4370	12020260	4370	12030160
4330	12030364	4370	12020261	4370	12030161
4330	12030365	4370	12020262	4370	12030162
4330	12030366	4370	12020263	4370	12030163
4330	12030894	4370	12020264	4370	12030164
4330	12030895	4370	12020265	4370	12030671
4330	12030896	4370	12020266	4370	12030672
4330	12030897	4370	12020267	4370	12030673
4330	12030898	4370	12020268	4370	12030674
4330	12030899	4370	12020269	4371	12020835
4330	12030900	4370	12020270	4371	12021408
4330	12030901	4370	12020271	4371	12021409
4333	11120730	4370	12020272	4371	12021410
4333	11120731	4370	12020273	4371	12021411
4333	12020666	4370	12020274	4371	12021423
4333	12021396	4370	12020279	4371	12021483
4333	12021397	4370	12020280	4371	12030009
4333	12021398	4370	12020281	4371	12030010
4333	12021399	4370	12020282	4371	12030011
4348	12011583	4370	12020283	4371	12030012
4370	12011100	4370	12020284	4371	12030017
4370	12011101	4370	12020285	4371	12030018
4370	12011102	4370	12020286	4371	12030019
4370	12011103	4370	12020287	4371	12030020
4370	12011108	4370	12020288	4371	12030021
4370	12011109	4370	12020289	4371	12030022
4370	12011110	4370	12020290	4371	12030023
4370	12011111	4370	12020671	4371	12030024
4370	12011120	4370	12020672	4371	12030025
4370	12011121	4370	12020673	4371	12030026
4370	12011122	4370	12020674	4371	12030027
4370	12011123	4370	12020683	4371	12030028
4370	12020135	4370	12020698	4371	12030029
4370	12020136	4370	12020703	4371	12030030

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	5 of 8	NONE	

# SLICK Service Bulletin

# SB1-12

(corrected copy)

These Serial Numbers have already been upgraded to comply with this Service Bulletin.

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
4371	12030031	4372	12030301	4381	12030656
4371	12030032	4372	12030302	4381	12030657
4371	12030033	4372	12030303	4381	12030658
4371	12030034	4372	12030304	4381	12030659
4371	12030035	4372	12030395	4381	12030660
4371	12030036	4372	12030396	4381	12030661
4371	12030037	4372	12030397	4381	12030662
4371	12030038	4372	12030398	4382	12021260
4371	12030039	4373	12021354	4382	12021261
4371	12030040	4373	12030185	4382	12021262
4371	12030041	4373	12030186	4382	12021263
4371	12030042	4373	12030188	4382	12021264
4371	12030043	4373	12030189	4382	12021265
4371	12030044	4373	12030190	4382	12021266
4371	12030045	4373	12030191	4382	12021267
4371	12030046	4373	12030192	4382	12021268
4371	12030047	4374	12030309	4382	12021269
4371	12030048	4374	12030310	4382	12021270
4371	12030049	4381	12020944	4382	12021271
4371	12030050	4381	12020945	4387	12021292
4371	12030051	4381	12020946	4387	12021293
4371	12030052	4381	12020947	4387	12021508
4371	12030057	4381	12020948	4387	12021509
4371	12030058	4381	12020949	4387	12021510
4371	12030059	4381	12020950	4387	12021511
4371	12030060	4381	12020951	4387	12021512
4371	12030061	4381	12030447	4387	12021513
4371	12030062	4381	12030448	4387	12021514
4371	12030063	4381	12030449	4387	12021515
4371	12030064	4381	12030450	6310	12011709
4371	12030065	4381	12030451	6310	12021312
4371	12030066	4381	12030452	6310	12021313
4371	12030067	4381	12030453	6310	12021314
4371	12030068	4381	12030454	6310	12021315
4371	12030069	4381	12030643	6310	12030220
4371	12030070	4381	12030644	6310	12030460
4371	12030071	4381	12030645	6310	12030462
4371	12030072	4381	12030646	6310	12030794
4371	12030423	4381	12030647	6310	12030795
4371	12030424	4381	12030648	6310	12030796
4371	12030425	4381	12030649	6310	12030797
4371	12030426	4381	12030650	6310	12030798
4371	12030431	4381	12030651	6310	12030799
4371	12030433	4381	12030652	6310	12030800
4371	12030441	4381	12030653	6310	12030801
4371	12030442	4381	12030654	6310	12030802
4372	12030300	4381	12030655	6310	12030803

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	6 of 8	NONE	

# SLICK Service Bulletin

# SB1-12

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These Serial Numbers have already been upgraded to comply with this Service Bulletin.

Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
6310	12030804	6320	12011048	6324	12020957
6310	12030805	6320	12011053	6324	12020960
6310	12030806	6320	12011054	6324	12020961
6310	12030807	6320	12011431	6324	12020962
6310	12030808	6320	12011432	6324	12020963
6310	12030809	6320	12020537	6324	12030481
6310	12030810	6320	12020538	6324	12030482
6310	12030811	6320	12020553	6324	12030483
6310	12030812	6320	12020554	6324	12030484
6310	12030813	6320	12021366	6324	12030485
6310	12030814	6320	12021367	6324	12030486
6310	12030815	6320	12021368	6340	12011187
6310	12030816	6320	12021369	6340	12011188
6310	12030817	6320	12021386	6340	12011189
6310	12030818	6320	12021387	6340	12011190
6310	12030819	6320	12030623	6350	11121211
6310	12030820	6320	12030624	6350	12030223
6310	12030821	6320	12030625	6350	12030694
6310	12030822	6320	12030626	6350	12030695
6310	12030823	6320	12030627	6350	12030696
6310	12030824	6320	12030628	6350	12030697
6310	12030825	6320	12030629	6350	12030698
6310	12030826	6320	12030630	6350	12030699
6310	12030827	6320	12030633	6350	12030700
6310	12030828	6320	12030634	6350	12030701
6310	12030829	6320	12030635	6350	12030702
6310	12030830	6320	12030636	6350	12030703
6310	12030831	6320	12030637	6350	12030704
6310	12030832	6320	12030638	6350	12030705
6310	12030833	6320	12030639	6350	12030706
6310	12030834	6320	12030640	6350	12030707
6310	12030835	6320	12030641	6350	12030708
6310	12030836	6320	12030642	6350	12030709
6310	12030837	6320	12030679	6350	12030710
6310	12030838	6320	12030680	6350	12030711
6310	12030839	6320	12030681	6350	12030712
6310	12030840	6320	12030682	6350	12030713
6310	12030841	6320	12030683	6351	12011765
6313	12021557	6320	12030684	6351	12011767
6314	12030664	6320	12030685	6351	12021076
6314	12030665	6320	12030686	6351	12021077
6314	12030666	6320	12030687	6351	12021078
6314	12030667	6320	12030688	6351	12021079
6314	12030668	6320	12030689	6351	12021080
6314	12030669	6320	12030690	6351	12021081
6314	12030670	6324	12020922	6351	12021082
6320	12010655	6324	12020956	6351	12030535

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	7 of 8	NONE	

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# SB1-12

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Part Number	Serial Number	Part Number	Serial Number	Part Number	Serial Number
6351	12030536	6361	12030770	6397	12021537
6351	12030537	6361	12030771	6397	12021538
6351	12030538	6361	12030772	6397	12021539
6355	12030742	6361	12030773	6397	12021540
6355	12030743	6361	12030878	6397	12021541
6355	12030744	6361	12030879	6397	12021542
6355	12030745	6361	12030882	6397	12021543
6355	12030746	6361	12030889	6397	12021544
6355	12030747	6361	12030890	6397	12021545
6355	12030748	6361	12030891	6397	12021546
6355	12030749	6361	12030892	6397	12021547
6360	12030786	6361	12030893	6397	12021548
6360	12030787	6364	12030281	6399	12010501
6360	12030788	6364	12030282	6399	12010503
6360	12030789	6364	12030283		
6360	12030790	6364	12030284		
6360	12030791	6364	12030285		
6360	12030792	6364	12030291		
6360	12030793	6364	12030292		
6361	12030360	6367	12020576		
6361	12030361	6367	12020577		
6361	12030362	6367	12020578		
6361	12030363	6395	12021525		
6361	12030364	6395	12021526		
6361	12030365	6395	12021527		
6361	12030366	6395	12021528		
6361	12030367	6395	12021529		
6361	12030750	6395	12021530		
6361	12030751	6395	12021531		
6361	12030752	6395	12021532		
6361	12030753	6396	12021593		
6361	12030754	6396	12021594		
6361	12030755	6396	12021595		
6361	12030756	6396	12021596		
6361	12030757	6396	12021597		
6361	12030758	6396	12021598		
6361	12030759	6396	12021599		
6361	12030760	6396	12021600		
6361	12030761	6396	12021601		
6361	12030762	6396	12021602		
6361	12030763	6396	12021603		
6361	12030764	6396	12021604		
6361	12030765	6396	12021605		
6361	12030766	6396	12021606		
6361	12030767	6396	12021607		
6361	12030768	6396	12021608		
6361	12030769	6396	12021609		

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MO	DAY	YR	MO	DAY	YR			
09	06	12	-	-	-	8 of 8	NONE	