



**SERVICE BULLETIN RCA 2019-03-27**

**Date:** 27 March 2019

**Subject:** Reprint of Slick/Champion Aerospace SB1-19 and Lycoming MSB637

**Affected Aircraft:** All RV6/6A; RV7/7A; RV8/8A; RV9/9A; RV14/14A aircraft equipped with Slick 4300 impulse coupled magnetos with magneto serial numbers 16010001 thru 18050664.

**Note:** RV10 aircraft produced by Robin Coss Aviation are not fitted with impulse coupling magnetos and are therefore not affected by this service bulletin.

The following aircraft constructed or maintained by Robin Coss Aviation are affected by this service bulletin.

ZU-ADB	RV7	s/n 74604	ZU-ILO	RV8	s/n 83578
ZU-NTC	RV7a	s/n 72958	ZU-VDL	RV8	s/n 83572

**Required Action:** Inspection of magneto impulse coupling stop pins for movement.

**Time of Compliance:** Next maintenance event, or 400hr time in service of the magneto (whichever occurs first), then every 500hrs after initial inspection.

**Synopsis:** Lycoming Engines and Slick/Champion Aerospace issued MSB 637 and SB1-19 respectively which requires inspection of the impulse coupling stop pin for movement in the magneto housing. They have had reports of pins that have worked loose with one report of the stop pin having fallen out of the magneto. This pin could enter the gear train of the engine causing damage to the gear train, engine accessories and could cause catastrophic engine failure. On aircraft constructed by Robin Coss Aviation, this bulletin would apply to the left magneto only.

Service Bulletin	Date Issued	Revision Date	Revision
RCA 2019-03-27	27 March 2019	...	...



**Accomplishing Instructions:** Per attached Lycoming MSB637 as well as Slick/Champion Aerospace SB1-19.

**Warranty:** Engines which fall into Lycoming factory warranty period will be reimbursed for the removal and installation labour as well as a replacement magneto should the magneto fail the inspection.  
Engines which fall outside of Lycoming factory warranty will be reimbursed for a replacement magneto only should the magneto fail the inspection.

**Customers will be required to pay up front for any labour and parts used to comply with the bulletin and shall be reimbursed by Robin Coss Aviation once any warranty claims have been processed and refunded by Lycoming. Please note that this process may take several months.**

Service Bulletin	Date Issued	Revision Date	Revision
RCA 2019-03-27	27 March 2019	...	...



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## MANDATORY

# SERVICE BULLETIN

DATE: March 14, 2019 Service Bulletin No. 637  
 Engineering Aspects are  
 FAA Approved

SUBJECT: Reprint of Slick/Champion Aerospace Service Bulletin SB1-19  
 MODELS AFFECTED: All 4 and 6-cylinder Lycoming engines equipped with Slick 4300 or 6300 Series Impulse Coupled Magnetos.

TIME OF COMPLIANCE: Next maintenance event, or 400 hours total time in service of the magneto (whichever occurs first), then every 500 hours after the initial inspection.

**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. SB1-19 dated 02/08/2019, regarding Lycoming engine models with Slick 4300 or 6300 Series Impulse Coupled Magnetos (Serial Numbers between 16010001 thru 18050664 identified in Slick/Champion Aerospace Service Bulletin SB1-19) approved for use on Lycoming engines. These magnetos were manufactured between January 2016 and May 2018.

Slick/Champion Aerospace Service Bulletin No. SB1-19 dated 02/08/2019 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 637 is issued. However, compliance with this Service Bulletin is to be in accordance with the latest revision of the Slick/Champion Aerospace Service Bulletin No. SB1-19.

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

### Required Action

1. Identify all Slick 4300 or 6300 series Impulse coupled magnetos with serial numbers of 16010001 through 18050664 installed on Lycoming 4 and 6-cylinder engines.
2. Identify all Slick 4300 or 6300 series Impulse coupled magnetos with serial numbers of 16010001 through 18050664 in spares inventory.
3. Obey the instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB1-19.

### Warranty Instructions for Engines / Magnetos Within the Factory Warranty Period

Upon completion of instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB1-19 dated 02/08/2019:

If the magneto passes the inspection described in Slick/Champion Aerospace Service Bulletin No. SB1-19:

1. Re-install the magneto and time to the engine using appropriate methods and practices.
2. Contact an Authorized Lycoming Distributor and file a warranty claim for Removal and Installation Labor in accordance with the latest revision of *SSP-875 Removal and Installation Labor Allowance Guidebook*.



ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
03	14	19	--	--	--	1 of 10	--

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Service Bulletin	Date Issued	Revision Date	Revision
RCA 2019-03-27	27 March 2019	...	...

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 PO Box 832, Howard Place, 7450  
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 Reg No: 2008/024624/07, VAT No: 4190212367



If the magneto fails the inspection described in Slick/Champion Aerospace Service Bulletin No. SB1-19:

1. Contact an Authorized Lycoming Distributor to order a replacement magneto.
2. Upon receipt, install the replacement magneto.
3. Return the non-compliant magneto to Lycoming through the same Authorized Lycoming Distributor that ordered the replacement magneto and file a warranty claim for:
  - Reimbursement of the replacement magneto
  - Removal and Reinstallation Labor in accordance with the latest revision of *SSP-875 Removal and Installation Labor Allowance Guidebook*
  - Associated Standard Freight

**Warranty Instructions for Engines / Magnetos No Longer Within the Factory Warranty Period**

Upon completion of instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB1-19 dated 02/08/2019.

If the magneto passes the inspection described in Slick/Champion Aerospace Service Bulletin No. SB1-19:

1. Re-install the magneto and time to the engine using appropriate methods and practices.

If the magneto fails the inspection described in Slick/Champion Aerospace Service Bulletin No. SB1-19:

1. Contact an Authorized Lycoming Distributor to order a replacement magneto.
2. Upon receipt, install the replacement magneto.
3. Return the non-compliant magneto to Lycoming through the same Authorized Lycoming Distributor that ordered the replacement magneto and file a warranty claim for:
  - Reimbursement of the replacement magneto

If you have any questions, contact Lycoming Field Service by phone at 570-327-7222 or 877-839-7878.

ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR			
03	14	19	--	--	--	2 of 10	--	

Service Bulletin	Date Issued	Revision Date	Revision
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<b>SLICK</b> <small>by CHAMPION</small>	<b>Service Bulletin</b>	<b>SB1-19</b>																						
<p><b>TO:</b> Aircraft Manufacturers, Aircraft Engine Manufacturers, Distributors, Dealers, Engine Maintainers, Engine Overhaul Facilities, Owners and Operators of Slick Aircraft Magnetos.</p> <p><b>SUBJECT:</b> Mandatory inspection of impulse coupled Slick magnetos</p> <p><b>MAGNETO MODELS AFFECTED:</b> The following magneto models with serial numbers between 16010001 and 18050664: 4301, 4303, 4316, 4330, 4333, 4346, 4354, 4371, 4372, 4373, 4374, 4381, 4392, 6310, 6314, 6320, 6324, 6331, 6351, 6352, 6355, 6361, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399</p> <p><b>NOTE:</b> 16010001 = SN manufacture date of January 2016 and 18050664 = SN manufacture date of May 2018</p> <p><b>ENGINE MODELS AFFECTED:</b> 4300 series and 6300 series magnetos.</p> <p><b>AIRFRAME MODELS AFFECTED:</b> 4300 series and 6300 series magnetos.</p> <p><b>BACKGROUND INFORMATION:</b> There have been limited reports in which impulse coupling stop pins have moved relative to the factory placement within the magneto frame of Slick magnetos. There has been one report of a liberated stop pin. A liberated stop pin could potentially enter the gear train of the engine, resulting in damage to the gear train, damage to engine accessories and could ultimately cause catastrophic engine failure.</p> <p><b>COMPLIANCE:</b> Inspect affected magneto models for movement of impulse coupling stop pin at the next convenient maintenance interval, not to exceed the next 100 hours or 400 hours Time in Service (TIS), and every 500 hours thereafter. Alternatively, replace the affected magneto with an approved model magneto, outside the above serial number range, or compliant with the SB1-19 dimensions herein for the stop pin. Document service bulletin compliance as written entry in the applicable Aircraft and/or Engine logbook.</p> <p><b>PROOF OF COMPLIANCE:</b> Appropriate logbook entries. See SB1-19 COMPLIANCE and WARRANTY INFORMATION.</p> <p><b>MAINTENANCE PARTS AFFECTED:</b> None.</p>																								
<u>Proprietary Statement</u>																								
<p>The information contained in this document is proprietary property of Champion Aerospace LLC. Receipt or possession of this information does not confer, license or imply any rights to use, sell or manufacture from this information. No reproduction of publication, in whole or in part, shall be made without the express written consent of Champion Aerospace LLC. All information is covered under full protection of the United States copyright laws.</p> <p>Copyright ©2019, Champion Aerospace LLC. All rights reserved.</p> <p><small>SUBJECT TO THE EAR, ECRN 9E991, THIS INFORMATION IS SUBJECT TO THE EXPORT CONTROL LAWS OF THE UNITED STATES, SPECIFICALLY INCLUDING THE EXPORT ADMINISTRATION REGULATIONS (EAR), 15 C.F.R. PART 730-744. TRANSFER, RETRANSFER, OR DISCLOSURE OF THIS DATA BY ANY MEANS TO A NON-U.S. PERSON (INDIVIDUAL OR COMPANY), WHETHER IN THE UNITED STATES OR ABROAD, WITHOUT ANY REQUIRED EXPORT LICENSE OR OTHER APPROVAL FROM THE U.S. GOVERNMENT IS PROHIBITED, INCLUDING WITHOUT LIMITATION ANY DIVERSION TO A MILITARY END USER OR USE IN A MILITARY APPLICATION.</small></p>																								
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ISSUED			REVISED																					
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1 of 8																								

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	3 of 10	--
03	14	19	--	--	--		S.B. 637

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
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<b>SLICK</b> <small>by CHAMPION</small>	<b>Service Bulletin</b>	<b>SB1-19</b>																						
<p><b>PARTS REQUIRED PER BULLETIN:</b> Replacement magnetos as required.</p> <p><b>TOOLS REQUIRED:</b> T-118 mag timing pin, mag timing light, calibrated measuring device, and standard shop tools.</p> <p><b>WEIGHT CHANGE:</b> None.</p> <p><b>REQUIRED SERVICE LITERATURE:</b> Refer to the latest revision of Champion Slick F-1100 Master Service Manual, as applicable, when performing the detailed instructions contained in this Service Bulletin.</p> <p><b>WARRANTY INFORMATION:</b> <u>NOTE:</u> Labor is not included per Champion warranty policy.</p> <p>If the magneto is within the listed s/n range and fails the inspection within these DETAILED INSTRUCTIONS, the magneto should be returned for warranty consideration through the original point of sale. Champion Aerospace will not accept direct returns. Affected magnetos that fail the required inspections must be returned with proof of purchase to the original point of sale (either Authorized Champion Distributor or Aircraft Engine Manufacturer) for warranty consideration. Champion waives the published warranty limits for TIS and calendar period for parts affected by this Service Bulletin. Warranty Credits will only be processed to an Authorized Champion Distributor or Aircraft Engine Manufacturer after final receipt of magneto and confirmation of required measurement. Champion reserves the right to deny warranty and return magneto if measurements are subsequently found to be compliant with the Service Bulletin.</p> <p><b>DETAILED INSTRUCTIONS:</b></p> <ul style="list-style-type: none"> <li>• Warranty form must include name, shipping address, model number, serial number of the magneto(s) being returned and TIS information in the box with the magneto(s). (Distributors have warranty forms)</li> <li>• Do not leave drive gears installed on the magneto(s). Champion cannot guarantee return of these components             <ul style="list-style-type: none"> <li>A. Locate magneto serial number on magneto dataplate. If magneto serial number is determined to be within the range specified in this bulletin, remove the magneto from engine in accordance with the latest revision of the engine manufacturer's manual(s).</li> <li>B. Inspect the magneto to confirm the necessary recess/projection (based on individual magneto type) of the stop pin. If the stop pin installation depth is not in compliance with the dimension shown in Figures 1 through 6, the magneto must be replaced with a new or serviceable unit that is in compliance with this service bulletin.</li> <li>C. Repeat this inspection every 500 hours TIS, until end of product life.</li> </ul> </li> </ul>																								
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ISSUED			REVISED																					
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PAGE NO.	REVISION																							
2 of 8																								

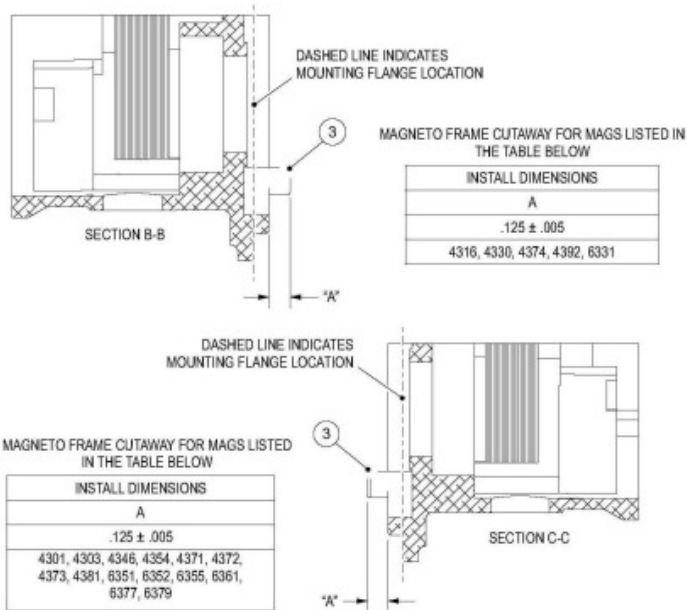
ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
03	14	19	--	--	--	4 of 10	--

S.B. 637

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
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**SLICK** by CHAMPION **SB1-19**  
**Service Bulletin**



USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTIONS B-B AND C-C. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT GREATER THAN 0.130 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

**FIGURE 1. MAGNETO FRAME CUTAWAY SECTIONS B-B AND C-C**

THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				3 of 8	

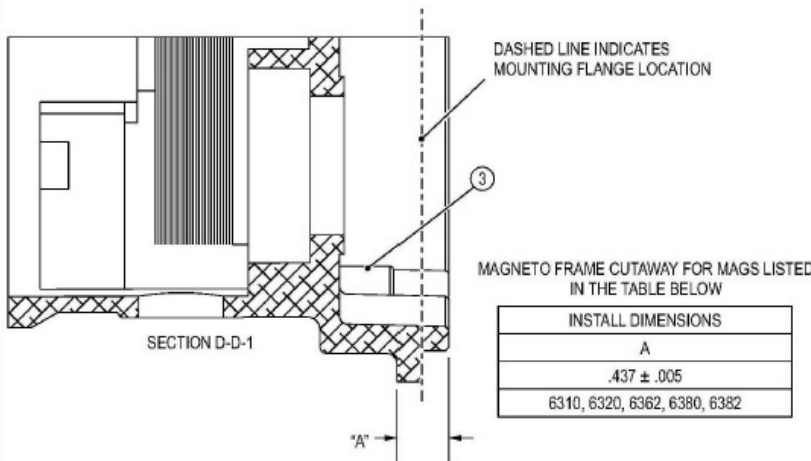
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ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR			
03	14	19	--	--	--	5 of 10	--	

Service Bulletin	Date Issued	Revision Date	Revision
RCA 2019-03-27	27 March 2019	...	...

**SLICK** by CHAMPION **SB1-19**

## Service Bulletin



DASHED LINE INDICATES MOUNTING FLANGE LOCATION

MAGNETO FRAME CUTAWAY FOR MAGS LISTED IN THE TABLE BELOW

INSTALL DIMENSIONS	
A	
.437 ± .005	
6310, 6320, 6362, 6380, 6382	

SECTION D-D-1

USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION D-D-1. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT LESS THAN 0.432 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

**FIGURE 2. MAGNETO FRAME CUTAWAY SECTION D-D-1**

THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				4 of 8	

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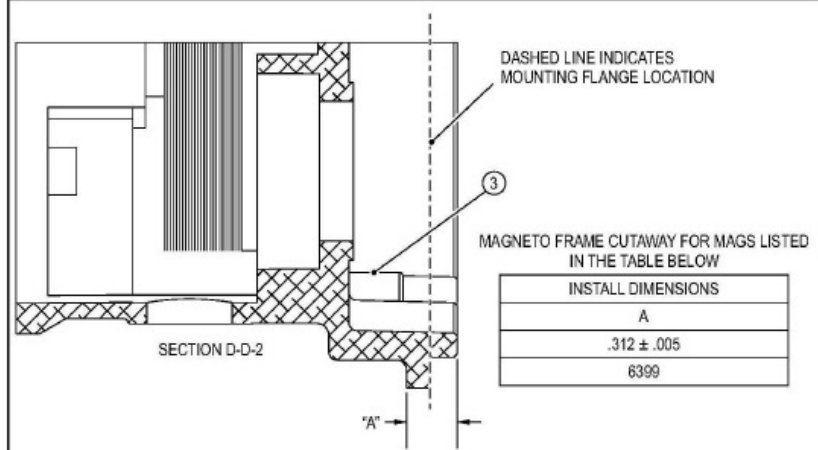
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MO	DAY	YEAR	MO	DAY	YEAR		
03	14	19	--	--	--	6 of 10	--

S.B. 637

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
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**SLICK** by CHAMPION **SB1-19**

## Service Bulletin



DASHED LINE INDICATES MOUNTING FLANGE LOCATION

MAGNETO FRAME CUTAWAY FOR MAGS LISTED IN THE TABLE BELOW

INSTALL DIMENSIONS	
A	
	.312 ± .005
	6399

SECTION D-D-2

"A"

USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION D-D-2. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT LESS THAN 0.307 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

**FIGURE 3. MAGNETO FRAME CUTAWAY SECTION D-D-2**

THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

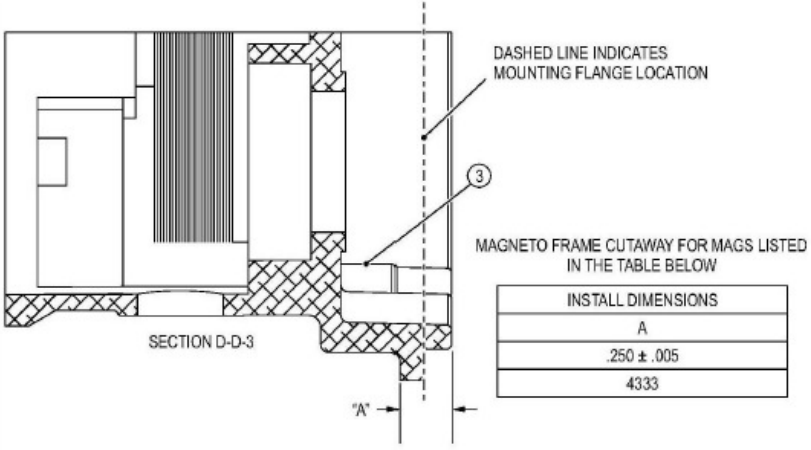
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02 06 19			5 of 8	

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
03	14	19	--	--	--	7 of 10	--

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
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**SLICK** BY CHAMPION **SB1-19**

### Service Bulletin



DASHED LINE INDICATES MOUNTING FLANGE LOCATION

MAGNETO FRAME CUTAWAY FOR MAGS LISTED IN THE TABLE BELOW

INSTALL DIMENSIONS	
A	
	.250 ± .005
	4333

SECTION D-D-3

"A"

USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION D-D-3. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT LESS THAN 0.245 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

**FIGURE 4. MAGNETO FRAME CUTAWAY SECTION D-D-3**

THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

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<small>MO DAY YR</small>	<small>MO DAY YR</small>		6 of 8	
02 06 19				

<small>ISSUED</small>			<small>REVISED</small>			<small>PAGE NO.</small>	<small>REVISION</small>
<small>MO</small>	<small>DAY</small>	<small>YEAR</small>	<small>MO</small>	<small>DAY</small>	<small>YEAR</small>		
03	14	19	--	--	--	8 of 10	--

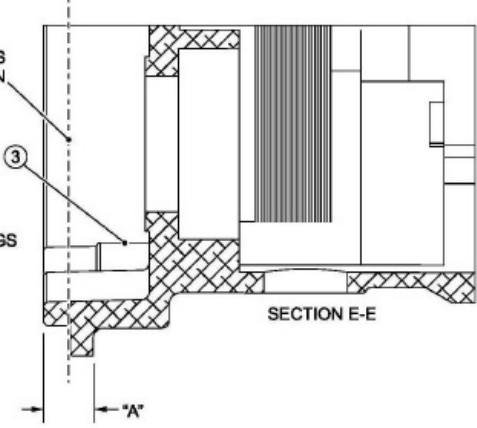
S.B. 637

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
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**SLICK** BY CHAMPION **SB1-19**

## Service Bulletin

DASHED LINE INDICATES MOUNTING FLANGE LOCATION



MAGNETO FRAME CUTAWAY FOR MAGS LISTED IN THE TABLE BELOW

INSTALL DIMENSIONS	
A	
.437 ± .005	
6314, 6324	

SECTION E-E

USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION E-E. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT LESS THAN 0.432 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

**FIGURE 5. MAGNETO FRAME CUTAWAY SECTION E-E**

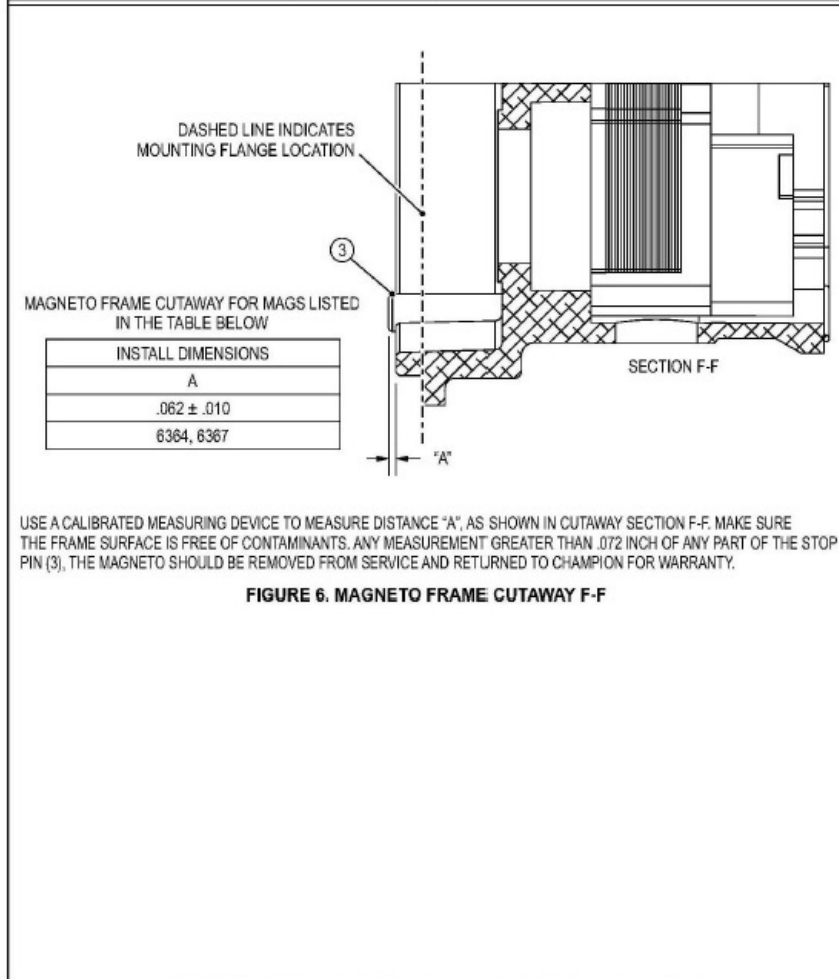
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ISSUED	REVISED	Champion Aerospace LLC 1230 Old Norris Road Liberty, SC/USA 29657 ©2019 Champion Aerospace LLC	PAGE NO.	REVISION
MO DAY YR 02 06 19	MO DAY YR 		7 of 8	

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	9 of 10	--
03	14	19	--	--	--		S.B. 637

<b>Service Bulletin</b> RCA 2019-03-27	<b>Date Issued</b> 27 March 2019	<b>Revision Date</b> ...	<b>Revision</b> ...
---	-------------------------------------	-----------------------------	------------------------

**SLICK** by CHAMPION **SB1-19**  
**Service Bulletin**



**FIGURE 6. MAGNETO FRAME CUTAWAY F-F**

THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

ISSUED		REVISED		Champion Aerospace LLC 1230 Old Norris Road Liberty, SC/USA 29657 ©2019 Champion Aerospace LLC	PAGE NO.	REVISION
MO	DAY	YR	MO		DAY	YR
02	06	19			8 of 8	

ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR	10 of 10	--	
03	14	19	--	--	--			

Service Bulletin	Date Issued	Revision Date	Revision
RCA 2019-03-27	27 March 2019	...	...