



Piper Aircraft, Inc.
 2926 Piper Drive
 Vero Beach, FL, U.S.A. 32960

SERVICE NO. 1284B BULLETIN

**PIPER CONSIDERS
 COMPLIANCE MANDATORY**

Date: April 12, 2019

(S)

Service Bulletin (SB) 1284B supersedes SB 1284A in its entirety. Aircraft that were previously made compliant with SB 1284 must be made compliant with SB 1284B. Aircraft that were previously made compliant with SB 1284A are in compliance with SB 1284B.

SUBJECT:

LYCOMING SERVICE BULLETIN NO. 622A

REASON FOR REVISION:

SB 1284B corrects erroneous effectivities.

MODELS AFFECTED:

- PA-22/-108/-135 Super Cub
- PA-22-150/-160 Tri-Pacer
- PA 23-150/-160 Apache
- PA-24-180 Comanche
- PA-28-140 Cherokee
- PA-28-150/-160 Cherokee
- PA-28-151 Warrior
- PA-28-161 Cadet
- PA-28-161 Warrior II
- PA-28-161 Warrior III
- PA-28-180 Cherokee/Archer
- PA 28-181 Archer II
- PA-28-181 Archer III
- PA-28-235 Pathfinder
- PA-28R-180 Arrow
- PA-28R-200 Arrow/II
- PA-28R-201 Arrow III

- PA-28RT-201 Arrow IV
- PA-30/-39 Twin Comanche
- PA-34-200 Seneca
- PA-38-112 Tomahawk
- PA-44-180 Seminole

- PA-44-180T Turbo Seminole

SERIAL NUMBERS AFFECTED:

- All
- All
- All
- All
- All
- All
- All
- All
- All
- 2816110 through 2816119; 2842001 through 2842420
- All
- All
- 2890206 through 2890231; 2843001 through 2843862
- All
- All
- All
- 28R-7737002 through 28R-7837317; 2837001 through 2837061; 2844001 through 2844179
- All
- All
- All
- All
- 44-7995001 through 44-8195026; 4495001 through 4495013; 4496001 through 4496410
- All

ATA/JASC: 7414

(OVER)

COMPLIANCE TIME: Refer to Lycoming Service Bulletin (SB) No. 622A

PURPOSE: Lycoming has released SB No. 622A, "Reprint of Slick/Champion Aerospace Service Bulletin SB1-15A," as notification of required action for mandatory compliance with the Slick/Champion bulletin.

INSTRUCTIONS:
Comply with Lycoming Service Bulletin No. 622A, "Reprint of Slick/Champion Aerospace Service Bulletin SB1-15A," attached.

MATERIAL REQUIRED: Refer to Lycoming SB No. 622A, "Reprint of Slick/Champion Aerospace Service Bulletin SB1-15A," attached.

AVAILABILITY OF PARTS: See Lycoming SB No. 622A

EFFECTIVITY DATE: This service bulletin is effective upon receipt.

NOTE: Please notify the factory of any address/ownership corrections. Changes should include aircraft model, serial number, and current owner's name and address.

Corrections and/or changes should be directed to:

PIPER AIRCRAFT, INC.
Att'n: Customer Service
2926 Piper Drive
Vero Beach, FL 32960
or:
CustomerService@piper.com
Please include in subject line: "Aircraft ownership update"



652 Oliver Street
 Williamsport, PA 17701 U.S.A.
 Telephone +1 (877) 839-7878 (U.S. and Canada)
 Telephone +1 (570) 327-7222 (International)
 Facsimile +1 (570) 327-7101
 Email Technicalsupport@lycoming.com
www.lycoming.com

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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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, 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: **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.



Figure 1. Replacement Kit Box Label Date Code



Figure 2. Magneto ID Label Date Code

* Changes from SB1-15 initial release in red

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Champion Aerospace LLC
1230 Old Norris Road
Liberty, SC/USA 29657
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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 2016, 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)

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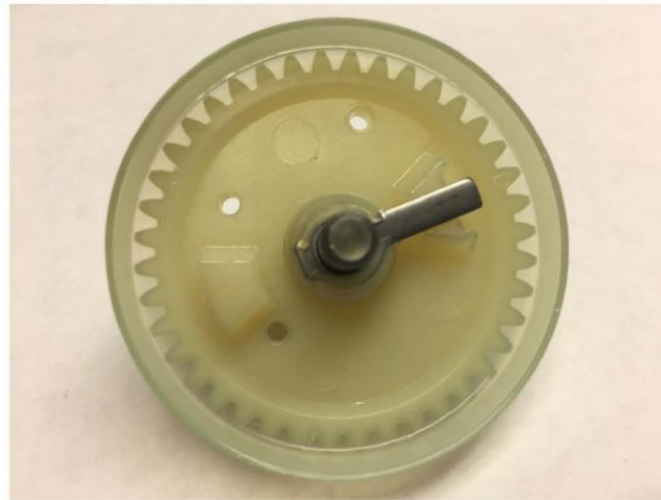


Figure 5. K3008 Distributor Gear With Monel Electrode

PROOF OF COMPLIANCE: 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.

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 **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: 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.

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.

* Changes from SB1-15 initial release in red

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**RETURN/REPLACEMENT
INFORMATION:**

NOTE: Labor is not included per Champion warranty policy.

Affected magnetos 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 SB1-15A 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.

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 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.

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.

**DETAILED
INSTRUCTIONS:**

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.

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.

* Changes from SB1-15 initial release in red

Champion Slick Piston Helpline: 904-772-1909

Champion Slick Technical Publication Website: www.championaerospacepubs.com

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

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