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

SERVICE BULLETIN NO. 1459A

PIPER CONSIDERS COMPLIANCE MANDATORY

Date: September 28, 2026 (S) (M)

Service Bulletin (SB) 1459A supersedes SB 1459 in its entirety. Aircraft that were previously made compliant with SB 1459 are in compliance with SB 1459A.

SUBJECT:

LYCOMING SERVICE BULLETIN NO 640, 'REPRINT OF SLICK/CHAMPION AEROSPACE SERVICE BULLETIN SB2-19B'

REASON FOR REVISION:

SB 1459A expands the Models Affected and Serial Numbers Affected.

MODELS AFFECTED:	SERIAL NUMBERS AFFECTED:
PA-22-108 Colt	22-8000 thru 22-9848
PA-22/PA-22-135/150/160 Tri-Pacer / Caribbean	22-1 thru 22-7642
PA-23/PA-23-160 Apache	23-1 thru 23-2046
PA-23-235 Apache	27-505 thru 27-622
PA-23-250 Aztec	27-1 thru 27-504, 27-2000 thru 27-4866, 27-7304917 thru 27-8154030
PA-24-180/250/260 Comanche	24-1 thru 24-3687, 24-4000 thru 24-5028
PA-28-140 Cherokee 140	28-20001 thru 28-26946, 28-7125001 thru 28-7725290
PA-28-150/160 Cherokee 150/160	28-01, 28-03, 28-1 thru 28-4377
PA-28-180 Cherokee 180	28-E10, 28E-13, 28-671 thru 28-5859, 28-7105001 thru 28-7505260
PA-28-151 Cherokee Warrior	28-7415001 thru 28-7715314
PA-28-161 Cherokee Warrior II	28-7716001 thru 28-8616057, 2816001 thru 2816109
PA-28-161 Warrior III	2816110 thru 2816119, 2842001 thru 2842420
PA-28-161 Cadet	2841001 thru 2841350, 2841360 thru 2841365
PA-28-181 Archer II	28-7690001 thru 28-8690056, 2890001 thru 2890205
PA-28-181 Archer III	2890206 thru 2890231, 2843001 thru 2843949, 2881001 thru 2881039, 2881040 thru 2881430
PA-28-181 Piper Pilot	2881041, 28020001 thru 28020011
PA-28-235 Cherokee 235	28-10001 thru 28-11378, 28-7110001 thru 28-7710089
PA-28-236 Dakota	28-7911001 thru 28-8611009, 2811001 thru 2811050
PA-28R-180 Arrow	28R-30005 thru 28R-31270, 28R-7130001 thru 28R-7130013
PA-28R-200 Arrow / Arrow II	28R-35001 thru 28R-35820, 28R-7135001 thru 28R-7635462

ATA/JASC: 7414

(OVER)

MODELS AFFECTED (cont.):	**SERIAL NUMBERS AFFECTED** (cont.):
PA-28R-201 Arrow III / Arrow	28R-7737001 thru 28R-7837317, 2837001 thru 2837061, 2844001 thru 2844185
PA-28R-201T Turbo Arrow III	28R-7703001 thru 28R-7803373, 2803001 thru 2803012
PA-28RT-201 Arrow IV	28R-7918001 thru 28R-8218026
PA-28RT-201T Turbo Arrow IV	28R-7931001 thru 28R-8631005, 2831001 thru 2831038
PA-30 Twin Comanche	30-1 thru 30-2000
PA-39 Twin Comanche C/R	39-1 thru 39-155
PA-31 Navajo	31-1 thru 31-861, 31-7300901 thru 31-7400989, 31-7400991 thru 31-8312019
PA-31-300 Navajo	31-228 thru 31-511
PA-31-325 Navajo	31-7400990, 31-7512001 thru 31-8312019
PA-31-350 Navajo Chieftain	31-5001, 31-5003, 31-7305005 thru 31-8452021
PA-31-350 T-1020	31-8253001 thru 31-8553002
PA-31P Pressurized Navajo	31P-3 thru 31P-80, 31P-7300110 thru 31P-7730012
PA-31P-350 Mojave	31P-8414003 thru 31P-8414050
PA-32-301FT Piper 6X	3232001 thru 3232074
PA-32-301XTC Piper 6XT	3255001 thru 3255051
PA-32R-300 Lance	32R-7680003 thru 32R-7880068
PA-32R-301 Saratoga	32-8006003 thru 32-8606023, 3206001 thru 3206055, 3206060
PA-32R-301 Saratoga SP / II HP	32R-8013001 thru 32R-8613005, 3213001 thru 3213103, 3246001 thru 3246244
PA-32R-301T Turbo Saratoga	32R-8029001 thru 32R-8629006, 3229001 thru 3229003
PA32R-301T Saratoga II TC	3257001 thru 3257493
PA-32R-301T Turbo Saratoga	32-8024002 thru 32-8424002
PA-32RT-300 Lance II	32R-7885002 thru 32R-7985105
PA-32RT-300T Turbo Lance II	32R-7887002 thru 32R-7987126
PA-34-200 Seneca	34-7250001 thru 34-7450220
PA-34-200T Seneca II	34-7570001 thru 34-8170092
PA-38-112 Tomahawk / Tomahawk II	38-78A0001 thru 38-82A0122
PA-44-180 Seminole	44-7995001 thru 44-8195026, 4495001 thru 4495013, 4496001 thru 4496517
PA-44-180T Turbo Seminole	44-8107001 thru 44-8207020
PA-46-310P Malibu	46-8408001 thru 46-8608068, 4608001 thru 4608140
PA-46-350P Malibu Mirage	4622001 thru 4622200, 4636001 thru 4636775
PA-46R-350T Malibu Matrix	4692001 thru 4692214

COMPLIANCE TIME: As specified in the attached Lycoming Service Bulletin (SB) No. 640.

APPROVAL: The content of this service document has been reviewed and determined to be in accordance with applicable Federal Aviation Regulations.

PURPOSE: Lycoming has released SB No. 640, 'Reprint of Slick/Champion Aerospace Service Bulletin SB1-19B', as notification of required action for mandatory compliance with the Slick/Champion bulletin.

INSTRUCTIONS:

Comply with Lycoming Service Bulletin No. 640, 'Reprint of Slick/Champion Aerospace Service Bulletin SB2-19B', attached.

MATERIAL REQUIRED: Refer to Lycoming Service Bulletin No. 640, 'Reprint of Slick/Champion Aerospace Service Bulletin SB2-19B', attached.

AVAILABILITY OF PARTS: See Lycoming SB No. 640.

EFFECTIVITY DATE: This service bulletin is effective on November 2, 2026.

SUMMARY: Please contact your Service Center to make arrangements for compliance with this service bulletin in accordance with the compliance time indicated.

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.
Attn: Technical Publications
2926 Piper Drive
Vero Beach, FL 32960
or:
Publications@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)
Fax +1 (570) 327-7101
Email Technicalsupport@lycoming.com
www.lycoming.com

MANDATORY

SERVICE BULLETIN

DATE: April 21, 2026

Service Bulletin No. 640
Engineering Aspects are
FAA Approved

SUBJECT: Reprint of Slick/Champion Aerospace Service Bulletin SB2-19B

MODELS AFFECTED: All Lycoming 4 and 6-cylinder engines equipped with Impulse Coupled Magnetos identified in the Magneto Models Affected section of the attached Slick/Champion Aerospace Service Bulletin SB2-19B.

TIME OF COMPLIANCE: Refer to the Compliance section of the attached Slick/Champion Aerospace Service Bulletin SB2-19B

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 provides Instructions for Continued Airworthiness (ICA).

Due to lack of field response and to raise awareness, this Service Bulletin is notification of required action for mandatory compliance with Slick/Champion Aerospace Service Bulletin No. SB2-19B dated 05/28/2024, regarding Slick 4200, 4300, and 4700 series (LASAR) magnetos or Slick 6200, 6300, and 6700 series (LASAR) magnetos with serial numbers between 15021147 and 19020180 approved for use on Lycoming engines. These magnetos were manufactured between Feb. 26, 2015 and Feb. 1, 2019.

Slick/Champion Aerospace Service Bulletin No. SB2-19B dated 05/28/2024 is reprinted in its entirety as follows and is current at the time Lycoming Service Bulletin No. 640 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. SB2-19B.

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 4200, 4300, and 4700 series (LASAR) magnetos or Slick 6200, 6300, and 6700 series (LASAR) magnetos with serial numbers between 15021147 and 19020180 installed on Lycoming 4 and 6-cylinder engines.
2. Identify all Slick 4200, 4300, and 4700 series (LASAR) magnetos or Slick 6200, 6300, and 6700 series (LASAR) magnetos with serial numbers between 15021147 and 19020180 in spares inventory.
3. Obey the instructions in the attached Slick/Champion Aerospace Service Bulletin No. SB2-19B.

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

General Aviation Manufacturers Association

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YEAR	MO	DAY	YEAR	1 of 6	--
04	21	26	--	--	--		

©2026 Avco Corporation. All Rights Reserved.
Lycoming Engines is a division of Avco Corporation.

SLICK by CHAMPION

Service Bulletin

SB2-19B

TO: Aircraft Manufacturers, Aircraft Engine Manufacturers, Distributors, Dealers, Engine Maintainers, Engine Overhaul Facilities, Owners and Operators of Slick Aircraft Magnetos.

SUBJECT: Mandatory inspection of impulse coupled Slick by Champion magnetos.

MAGNETO MODELS AFFECTED: The following magneto models with serial numbers between 15021147 and 19020180: 4301, 4303, 4316, 4330, 4333, 4354, 4371, 4372, 4373, 4374, 4381, 4392, 4755, 6310, 6314, 6320, 6324, 6331, 6351, 6355, 6361, 6362, 6364, 6367, 6377, 6379, 6380, 6382, 6399, 6755. In addition, any 4200/6200 series impulse coupled magneto which had the impulse coupling changed with an impulse coupling manufactured between February 2015 and February 2019.

NOTE: 15021147 = S/N manufacture date of February 2015
19020180 = S/N manufacture date of February 2019

Impulse coupling replacement kits manufactured between Feb. 26, 2015 and Feb. 1, 2019. If it is not possible to confirm the manufactured date of the impulse coupling that is installed on a given magneto from maintenance records, the magneto must be removed from the engine in order to have the impulse coupling inspected.

ENGINE MODELS AFFECTED: Engines utilizing Slick 4200, 4300, and 4700 series (LASAR) magnetos.
Engines utilizing Slick 6200, 6300, and 6700 series (LASAR) magnetos.

AIRFRAME MODELS AFFECTED: Aircraft utilizing Slick 4200, 4300, and 4700 series (LASAR) magnetos.
Aircraft utilizing Slick 6200, 6300, and 6700 series (LASAR) magnetos.

BACKGROUND INFORMATION: There have been limited reports in which impulse coupling rivets have loosened relative to the factory placement. A loose or broken rivet could potentially enter the gear train of the engine resulting in damage to the gear train or damage to engine accessories and could potentially cause catastrophic engine failure.

This service bulletin has been updated to add the "TIO" engines to category 2 and make both alternative methods of compliance applicable to either category 1 or 2.

Proprietary Statement

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.

Copyright ©2024, Champion Aerospace LLC. All rights reserved.

SUBJECT TO THE EAR, ECCN 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.

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 not to exceed 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. or If applicable, replace impulse magneto with FAA-PMA approved retard-breaker Slick by Champion magneto and SureSTART ignition booster.
Category 2	Affected Magnetos installed on Lycoming O/IO/TIO-540 Engines with 5th Order Counter weight	Within the next 25 hours TIS but not to exceed 100 hours total TIS	Every 100 hours TIS	

PROOF OF COMPLIANCE:

Appropriate logbook entries. Magnetos returned to Champion Aerospace for repair will be stamped with the letter "B" on the dataplate. See SB2-19B COMPLIANCE and WARRANTY INFORMATION.

MAINTENANCE PARTS AFFECTED:

Any 4200/4300/4700 series or 6200/6300/6700 series impulse coupled magnetos which have had the impulse coupling replaced with impulse coupling replacement kit dated Feb. 26, 2015 through Feb. 1, 2019.

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:

Champion Aerospace reserves the right to reject warranty for any returns that:

1) Are not manufactured within the affected range
2) Are subsequently found to pass the required inspection
3) Are not returned with a Warranty Form.

Affected magnetos that fail the required inspection within the DETAILED INSTRUCTIONS (rivets are found loose) must have all drive gears and accessories removed prior to shipping the magneto with impulse coupling to Champion Aerospace for repair. Champion will repair the magneto by installing a new impulse coupling and return it to the customer at no-charge. No other repairs or inspections will be performed during this process. Affected impulse coupling kits may be returned for a no cost replacement. Customer is required to cover all inbound freight expense and ship the affected unit with an accompanying return to:

©2024 Champion Aerospace LLC

Champion Authorized Warranty Center
21 Creative Place
Montrose, CO 81401
ATTN: SB2-19B Returns

DETAILED INSTRUCTIONS:

1. 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).



LETTER "B" INDICATES REPAIRED MAGNETO



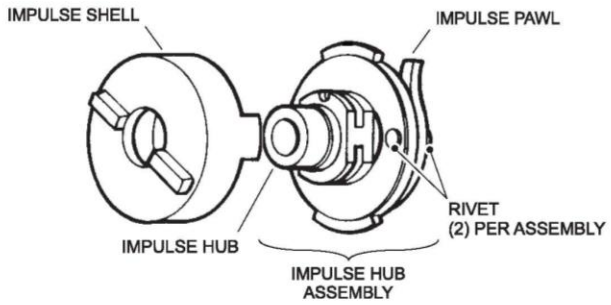
SERIAL NUMBER LOCATED ON MAGNETO DATAPLATE



MANUFACTURED DATE LOCATED ON IMPULSE COUPLING REPLACEMENT KIT

2. Remove, disassemble, and clean the impulse coupling per current revision of applicable magneto manual and per current revision of F-1100 Master Service Manual or L-1500 LASAR Master Service Manual.

3. Inspect the impulse coupling per the maintenance manual. If <u>any</u> movement is found in the rivets, the impulse coupling must be rejected. Reference WARRANTY INFORMATION for resolution options.



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 ALL 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.

   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.

   WARNING: Slick impulse couplings are manufactured as matched assemblies. Under no circumstances should a sub-assembly 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

©2024 Champion Aerospace LLC

SB2-19B Repair Authorization Form

This form must be completed in full and returned with the affected magneto (option 2 only). Please contact the Champion Support at pistonsupport@champaero.com 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.

Ship to information: Champion Authorized Warranty Center, 21 Creative Place, Montrose, CO 41801

Contact Information:

Name: _____

Phone and/or Email: _____

Return Shipping Address: _____

_____

_____

_____

Magneto Information:

Model Number: _____

Serial Number: _____

Time-in-Service: _____

Engine Model: _____

SPARK ✦ IGNITE ✦ EXCITE

1230 Old Norris Rd • Liberty, SC • 26957