

ALERT BULLETIN

AB 2025:4/3-2

2/26/2025

2199313

TO: Champion Aerospace

INFO: FAA (AVP-1, AVP-200, AFS-260, AFS-800, AFS-200, AIR-360, AIR-780, MKC-AEG, ANM-100), AMFA, AOPA, ASAP, ATSG, GAMA, IAM, IBT, ICASS, NBAA, NTSB, PAMA, TWU

FROM: Becky L. Hooey, Director
NASA Aviation Safety Reporting System

SUBJ: Champion Aerospace Slick Magneto Issues

We recently received ASRS reports describing a safety concern that may involve your area of operational responsibility. We do not have sufficient details to assess either the factual accuracy or possible gravity of the report. It is our policy to relay the reported information to the appropriate authority for evaluation and any necessary follow-up. We feel you should be aware of the following:

ASRS received a report from a maintenance technician expressing concern about the quality and reliability of the Slick magneto manufactured by Champion Aerospace. Reporter stated that while performing an inspection of a Slick magneto they noticed loose rivets on both impulse couplings, a condition that could lead to total failure including a possible shrapnel event. Reporter further stated they consider this an ongoing issue and are concerned about the safety risks these issues pose.

To properly assess the usefulness of our alert message service, we would appreciate it if you would take the time to give us your feedback on the value of the information that we have provided. Please contact Dr. Becky Hooey at (408) 541-2854 or email at becky.l.hooey@nasa.gov.



Aviation Safety Reporting System
P.O. Box 189 | Moffett Field, CA | 94035-0189



ACN 2199313**DATE / TIME**

Date of Occurrence	202501
Local Time Of Day	1201 to 1800

PLACE

Locale	ZZZ.Airport
State	US
Altitude - AGL	0

AIRCRAFT / EQUIPMENT X

Make Model Name	No Aircraft
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COMPONENT 1

Aircraft Component	Magneto/Distributor
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PERSON 1

Function - Maintenance	Technician
ASRS Report Number	2199313

EVENTS

Anomaly	Aircraft Equipment Problem - Critical
Detector - Person	Maintenance
Result - General	Maintenance Action

NARRATIVE 1

Slick Magnetos manufactured by Champion Aerospace have a known defect listed under S/B 2-19B. The impulse coupling rivet is known to come loose on many Slick magnetos within the specified serial number range (16010001-18050664). While performing a 500-hour inspection on Champion Aerospace Slick magnetos (part# 4371 s/n: 21040XXX and part# 4371 s/n: 23030YYY) I found both impulse coupling assemblies with loose rivets. S/N 23030YYY was exceedingly close to total failure, which would result in throwing hardened steel parts into the accessory section of the engine. The particular magnetos in question in this report have been removed from service, all parts are accounted for, and there is no further risk to the aircraft these mags were installed on.

SYNOPSIS

Aircraft Maintenance Technician reported discovering defective magnetos related to a previous service bulletin on the issue, suggesting the problem may be ongoing and affecting a larger number of magnetos than specified within the original service bulletin.