

MANDATORY**SEL-74-06****TITLE**

IGNITION - TRANSMITTAL OF CONTINENTAL MOTORS SB19-02A, LYCOMING SB 637, AND CHAMPION AEROSPACE SLICK SERVICE BULLETIN SB1-19

EFFECTIVITY**Group A: Airplanes that were delivered with possible suspect magnetos.****Cessna Models****MODEL****SERIAL NUMBERS**

172S

172S11484, 172S11696, 172S11698 thru
172S11705, 172S11707 thru 172S11731,
172S11736 thru 172S11777, 172S12001,
172S12002, 172S12004 thru 172S12014,
172S12016 thru 172S12027, 172S12037 thru
172S12048, 172S12050 thru 172S12052,
172S12055, 172S12056, 172S12059 thru
172S12063, 172S12065 thru 172S12077,
172S12079 thru 172S12081, 172S12083,
172S12086 thru 172S12118, 172S12120,
172S12121, 172S12123, 172S12124,
172S12126 thru 172S12131, 172S12133 thru
172S12137, 172S12139 thru 172S12149,
172S12151 thru 172S12158, 172S12160,
172S12162 thru 172S12165, 172S12167 thru
172S12181

182T

18282432, 18282433, 18282443, 18282447,
18282449, 18282450, 18283001 thru 18283048,
18283050, 18283052

T206H

T20609229 thru T20609233, T20609235 thru
T20609237, T20609239 thru T20609258,
T20609501 thru T20609551, T20609553**Beechcraft Model****MODEL****SERIAL NUMBERS**

G36

E-4090, E-4093, , E-4095 thru E-4106, E-4108
thru E-4124**Group B: Airplanes that installed a magneto as spares after delivery.****Cessna Models****MODEL****SERIAL NUMBERS**

120-140

8000 thru 15075

140A

15200 thru 15724

150

17001 thru 17999, 59001 thru 59018

150A

628, 15059019 thru 15059350

February 5, 2020

SEL-74-06
Page 1 of 10

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MANDATORY

SEL-74-06

150B	15059351 thru 15059700
150C	15059701 thru 15060087
150D	15060088 thru 15060772
150E	644, 15060773 thru 15061532
150F	15061533 thru 15064532
150G	15064533 thru 15067198
150H	15067199 thru 15069308
150J	15069309 thru 15071128
150K	15071129 thru 15072003
150L	15072004 thru 15075781
150M	15075782 thru 15079405
A150K	A1500001 thru A1500226
A150L	A1500227 thru A1500523
A150M	A1500524 thru A1500734, 15064970
A-150L	A-1501001 thru A-1501039
A-A150L	A-A1500001 thru A-A1500009
F150F	F150-0001 thru F150-0067
F150G	F150-0068 thru F150-0219
F150H	F150-0220 thru F150-0389
F150J	F150-0390 thru F150-0529
F150K	F15000530 thru F15000658
F150L	F15000659 thru F15001143
F150M	F15001144 thru F15001428
FA150K	FA1500001 thru FA1500081
FA150L	FA1500082 thru FA1500120
FRA150L	FRA1500121 thru FRA1500261
FRA150M	FRA1500262 thru FRA1500336
152	15279406 thru 15286033
A152	A1520681, A1520735 thru A1521049
F152	F15201429 thru F15201980
FA152	FA1520337 thru FA1520425
162	16200001 thru 16200237, 16200302
170	18000 thru 18729
170A	18730 thru 20266
170B	20267 thru 27169
172	28000 thru 29999, 36000 thru 36999, 46001 thru 46754

MANDATORY**SEL-74-06**

172A	625, 46755 thru 47746
172B	17247747 thru 17248734
172C	17248735 thru 17249544
172D	17249545 thru 17250572
172E	17250573 thru 17251822
172F	17251823 thru 17253392
172F (T-41A)	17251947 thru 17253392
172G	17253393 thru 17254892
172G (T-41A)	17254405 thru 17254544
172H	17254893 thru 17256512
172H (T-41A)	17256280 thru 17256346
172I	17256513 thru 17257161
172K	17257162 thru 17259223
172K (T-41A)	17259003 thru 17259015
172L	17259224 thru 17260758
172M	17256493, 17260759 thru 17267584
172N	17267585 thru 17274009
172P	17274010 thru 17276673
172Q	17275869 thru 17276259
172RG	172RG0001 thru 172RG1191
172R	17280001 thru 17281250, 18281252 thru 17281339, 17281341 thru 17281402, 17281404 thru 17281622
172S	172S8001 thru 172S12452
P172D	P17257120 thru P17257188
FP172	FP172-001 thru FP172-0003
F172D	F172-0001 thru F172-0018
F172E	F172-0019 thru F172-0085
F172F	F172-0086 thru F172-0179
F172G	F172-0180 thru F172-0319
F172H	F172-0320 thru F172-0654, F17200655 thru F17200754
F172K	F17200755 thru F17200804
F172L	F17200805 thru F17201034
F172M	F17201035 thru F17201514
F172N	F17201515 thru F17202039
F172P	F17202040 thru F17202254
FR172E	FR17200001 thru FR17200060

MANDATORY

SEL-74-06

FR172F	FR17200061 thru FR17200145
FR172G	FR17200146 thru FR17200225
FR172H	FR17200226 thru FR17200350
FR172J	FR17200351 thru FR17200590
FR172K	FR17200591 thru FR17200675
R172E (T-41B, T-41C)	R172-0001 thru R172-0335
R172F (T-41D)	R172-0336 thru R172-0409
R172G (T41C, T-41D)	R1720410 thru R1720444
R172H (T41D)	R1720445 thru R1720625
R172J	P17257189
R172K	680, R1722000 thru R1723454
175	55001 thru 56238
175A	619, 56239 thru 56777
175B	17556778 thru 17557002
175C	17557003 thru 17557119
177	17700001 thru 17701164
177A	17701165 thru 17701370
177B	17701371 thru 17702752
177RG	177RG0001 thru 177RG1366
F177RG	F177RG0001 thru F177RG0177
180	614, 30000 thru 32661
180A	32662 thru 32999, 50001 thru 50355
180B	50356 thru 50661
180C	624, 50662 thru 50911
180D	18050912 thru 18051063
180E	18051064 thru 18051183
180F	18051184 thru 18051312
180G	18051313 thru 18051445
180H	18051446 thru 18052284
180J	18052285 thru 18052489, 18052491 thru 18052770
180K	18052490, 18052771 thru 18053203
182	613, 33000 thru 33842
182A	33843 thru 34753, 34755 thru 34999, 51001 thru 51556
182B	34754, 51557 thru 51622, 51624 thru 52358
182C	631, 52359 thru 53007

MANDATORY**SEL-74-06**

182D	51623, 18253008 thru 18253598
182E	18253599 thru 18254423
182F	18254424 thru 18255058
182G	18255059 thru 18255844
182H	634, 18255846 thru 18256684
182J	18255845, 18256685 thru 18257625
182K	18257626 thru 18257698, 18257700 thru 18258505
182L	18258506 thru 18259305
182M	18257699, 18259306 thru 18260055
182N	18260056 thru 18260825
182P	675, 18260826 thru 18263478, 18263480 thru 18265175
182Q	18263479, 18265176 thru 18267301, 18267303 thru 18267715
182R/T182	18267302, 18267716 thru 18268541
182R	643, 18268542 thru 18268615
182S	18280041, 18280001 thru 18280944
T182T	T18208354, T18208001 thru T18209100
182T	18280945 thru 18283085
R182	R18200002 thru R18200583
R182/TR182	R18200584 thru R18202041
A182J	A182-0001 thru A182-0056
A182K	A182-0057 thru A182-0096
A182L	A182-0097 thru A182-0116
A182N	A182-0117 thru A182-0148
F182P	F18200001 thru F18200025
F182Q	F18200026 thru F18200169
FR182	FR18200001 thru FR18200070
185	185-0001 thru 185-0237
185A	185-0238 thru 185-0512
185B	185-0513 thru 185-0653
185C	185-0654 thru 185-0776
185D	185-0777 thru 185-0967
185E/A185E	185-0968 thru 185-1149
A185E	185-1150 thru 185-1934, 18501833 thru 18002090
A185F	18502091 thru 18504448

MANDATORY

SEL-74-06

188/A188	651, 188-0001 thru 188-0572
A188/A188A	18800573 thru 18800832
188B	18800833 thru 18802348
A188B	18800833 thru 18803973, 18800967T thru 18803973T
T188C	T18802839T, T18803307T, T18803308T, T18803325T thru T18803974T
A-A188B	A-A1880001 thru A-A1880034
210-5 (205)	205-0001 thru 205-0480
210-5A (205A)	205-0481 thru 205-0577
206	206-0001 thru 206-0275
U206	U206-0276 thru U206-0437
U206A/TU206A	U206-0438 thru U206-0656
U206B/TU206B	U206-0657 thru U206-0914
U206C/TU206C	U206-0915 thru U206-1234
U206D/TU206D	U206-1235 thru U206-1444
U206E/TU206E	U20601445 thru U20601700
U206F/TU206F	U20601701 thru U20603521
U206G/TU206G	676, U20603522 thru U20607020
P206	P206-0002 thru P206-0160
P206A/TP206A	P206-0161 thru P206-0306
P206B/TP206B	P206-0307 thru P206-0419
P206C/TP206C	P206-0420 thru P206-0519
P206D/TP206D	P206-0520 thru P206-0603
P206E/TP206E	P206-00001, P20600604 thru P20600647
206H	20608001 thru 20608353
T206H	T20608001 thru T20609611
207/T207	20700001 thru 20700362
207A/T207A	20700363 thru 20700788
210	57001 thru 57575
210A	21057576 thru 21057840
210B	21057841 thru 21058085
210C	21058086 thru 21058220
210D	21058221 thru 21058510
210E	21058511 thru 21058715
210F	21058716 thru 21058818
210G	21058819 thru 21058936

MANDATORY**SEL-74-06**

210H	21058937 thru 21059061
210J	21059062 thru 21059199
210K/T210K	21059200 thru 21059502
210L/T210L	21059503 thru 21061573
210M/T210M	21061042, 21061574 thru 21062954
210N/T210N	21062955 thru 21064897
210R/T210R	21064898 thru 21065009
P210N	P21000001 thru P21000834
P210R	P21000835 thru P21000874
T210F	T210-0001 thru T210-0197
T210G	T210-0198 thru T210-0307
T210H	T210-0308 thru T210-0392
T210J	21058140, T210-0393 thru T210-0454
T240	T24000001 thru T24002146
300 (LC40-550FG)	40001 thru 40079
350 (LC42-550FG)	42001 thru 42084, 42501 thru 42569, 421001 thru 421020
400 (LC41-550FG)	41002 thru 41108, 41501 thru 41533, 41563 thru 41800, 411001 thru 411161

Beechcraft Models**MODEL****SERIAL NUMBERS**

23	M-1, M-2, M-4 thru M-554
A23	M-3, M-555 thru M-900
A23A	M-901 thru M-1094
B23	M-1095 thru M-1284
C23	M-1285 thru M-2392
A23-19	MB-1 thru MB-288
19A	MB-289 thru MB-460
M19A	MB-461 thru MB-480
B19	MB-481 thru MB-905
A23-24	MA-1 thru MA-363
A24	MA-364 thru MA-368
A24R	MC-2 thru MC-150
B24R	MC-152 thru MC-448, MC-450, MC-451
C24R	MC-449, MC-452 thru MC-795
35-33	CD-1 thru CD-224, CD-233, CD-234, CD-236, CD-241, CD-246 thru CD-250
35-A33	CD-225 thru CD-232, CD-235, CD-237 thru CD-240, CD-242, CD-245, CD-251 thru CD-387

MANDATORY

SEL-74-06

35-B33	CD-388 thru CD-813
35-C33	CD-814 thru CD-1118
35-C33A	CE-1 thru CE-179
E33	CD-1119 thru CD-1234
F33	CD-1235 thru CD-1254
G33	CD-1255 thru CE-1304
E33A	CE-180 thru CE-289
E33C	CJ-1 thru CJ-25
F33A	CE-290 thru CE-1791
F33C	CJ-26 thru CJ-179
35	D-1 thru D-1500
35R	R-1 thru R-13
A35	D-1501 thru D-2200, D-15001
B35	D-2201 thru D-2680
C35	D-2681 thru D-3292, D-3294 thru D-3400
D35	D-3401 thru D-3698
E35	D-3293, D-3699 thru D-3998
F35	D-3999 thru D-4375, D-4377 thru D-4391
G35	D-4376, D-4392 thru D-4865, D-15002
H35	D-4866 thru D-5061, D-5063 thru D-5330
J35	D-5062, D-5331 thru D-5725
K35	D-5726 thru D-6161
M35	D-6162 thru D-6561
N35	D-6562 thru D-6841
P35	D-6842 thru D-7139, D-7141 thru D-7309
S35	D-7140, D-7310 thru D-7976
V35	D-7977 thru D-8598
V35A	D-8599 thru D-9068
V35B	D-9069 thru D-10403
36	E-1 thru E-184
A36	E-185 thru E-3629, E-3631 thru E-3635
A36TC	EA-1 thru EA-241, EA-243 thru EA-272
B36TC	EA-242, EA-273 thru EA-697
G36	E-3630, E-3636 thru E-4134
77	WA-1 thru WA-312

REASON

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

MANDATORY**SEL-74-06**

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.

DESCRIPTION

This service document transmits Continental Motors SB19-02A, Lycoming SB 637, and Champion Aerospace SLICK Service Bulletin SB1-19A which has instructions for doing an inspection of the stop pin on suspect magneto.

COMPLIANCE

MANDATORY. 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.

A service document published by Textron Aviation may be recorded as *completed* in an aircraft log only when the following requirements are satisfied:

- 1) The mechanic must complete all of the instructions in the service document, including the intent therein.
- 2) The mechanic must correctly use and install all applicable parts supplied with the service document kit. Only with written authorization from Textron Aviation can substitute parts or rebuilt parts be used to replace new parts.
- 3) The mechanic or airplane owner must use the technical data in the service document only as approved and published.
- 4) The mechanic or airplane owner must apply the information in the service document only to aircraft serial numbers identified in the *Effectivity* section of the document.
- 5) The mechanic or airplane owner must use maintenance practices that are identified as acceptable standard practices in the aviation industry and governmental regulations.

No individual or corporate organization other than Textron Aviation is authorized to make or apply any changes to a Textron Aviation-issued service document or flight manual supplement without prior written consent from Textron Aviation.

Textron Aviation is not responsible for the quality of maintenance performed to comply with this document, unless the maintenance is accomplished at a Textron Aviation-owned Service Center.

CONSUMABLE MATERIAL

No specialized consumable materials are required to complete this service document.

TOOLING

NAME	NUMBER	MANUFACTURER	USE
T-118 Mag Timing Pin		Commercially Available	For magneto timing.
Mag Timing Pin		Commercially Available	For magneto timing.

REFERENCES

Applicable Model Maintenance/Service Manual

Continental Aerospace Technologies Service Bulletin SB19-02A (Revision A or latest revision)

Lycoming Service Bulletin No. 637 (or latest revision)

Slick Champion Aerospace Service Bulletin SB1-19 (or latest revision)

NOTE: To make sure all publications used are complete and current. Refer to www.txtavsupport.com.

MANDATORY**SEL-74-06****PUBLICATIONS AFFECTED**

None

ACCOMPLISHMENT INSTRUCTIONS

1. Look at the airplane or engine maintenance log to determine if a suspect Slick Impulse coupled magneto identified in the Slick Champion Aerospace Service Bulletin SB1-19 or latest revision.
 - A. If a suspect Impulse coupled magneto is installed, go to Step 2.
 - B. If a suspect Impulse coupled magneto is not installed, sign off this service document as complete, go to Step 8.
2. Review the engine log book for documentation of prior compliance with the service bulletins listed:
 - Continental Aerospace Technologies Service Bulletin SB19-02A (Revision A or latest revision)
 - Lycoming Service Bulletin No. 637 (or latest revision)
 - Slick Champion Aerospace Service Bulletin SB1-19 (or latest revision)

NOTE: Revision A of the Continental Motors SB15-4, Lycoming SB 622A , and Slick/Champion Aerospace Service Bulletin SB1-15 have extended the serial range for the Magnetos with Revision A. Because of the extended serial range, Revision A or later revision must be reviewed and complied.

- A. If Continental Motors SB15-4A, or Lycoming SB 622A, and Slick/Champion Aerospace Service Bulletin SB1-15A (or latest revision) has not been complied with, go to Step 3.
 - B. If Continental Motors SB15-4A, or Lycoming SB 622A, and Slick/Champion Aerospace Service Bulletin SB1-15A (or latest revision) has been complied with, go to Step 8.
3. Prepare the airplane for maintenance.
 - A. Make sure that the airplane is electrically grounded.
 - B. Make sure that all switches are in the OFF/NORM position.
 - C. Disconnect electrical power from the airplane.
 - (1) Disconnect external electrical power.
 - (2) Disconnect the airplane battery.
 - D. Attach maintenance warning tags to the battery and external power receptacle that have **"DO NOT CONNECT ELECTRICAL POWER - MAINTENANCE IN PROGRESS"** written on them.
4. Remove the engine cowling. (Refer to the applicable Model Maintenance/Service Manual.)
5. Refer to the referenced service documents to complete the magneto inspection.
 - Continental Aerospace Technologies Service Bulletin SB19-02A (Revision A or latest revision).
 - Lycoming Service Bulletin No. 637 (or latest revision).
 - Slick Champion Aerospace Service Bulletin SB1-19 (or latest revision).
6. Install the engine cowling. (Refer to the applicable Model Maintenance/Service Manual.)
7. Remove the maintenance warning tags and connect the airplane battery.
8. Make an entry in the airplane logbook that states compliance and method of compliance with this service document.

MATERIAL INFORMATION

For parts information, refer to the applicable service document that follows:

Continental Aerospace Technologies Service Bulletin SB19-02A (Revision A or latest revision)

Lycoming Service Bulletin No. 637 (or latest revision)

Slick Champion Aerospace Service Bulletin SB1-19 (or latest revision)

TITLE

IGNITION - TRANSMITTAL OF CONTINENTAL MOTORS SB19-02A, LYCOMING SB 637, AND CHAMPION AEROSPACE SLICK SERVICE BULLETIN SB1-19

TO:

To aircraft owner of the models that follow:

Cessna Models: 120-140, 140A, 150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, 150L, 150M, A150K, A150L, A150M, A-150L, A-A150L, F150F, F150G, F150H, F150J, F150K, F150L, F150M, FA150K, FA150L, FRA150L, FRA150M, 152, A152, F152. FA152, 162, 170, 170A, 170B, 172, 172A, 172B, 172C, 172D, 172E, , 172F, 172F (T-41A), 172G, 172G (T-41A), 172H, 172H (T-41A), 172I, 172K, 172K (T-41A), 172L, 172M, 172N, 172P, 172Q, 172RG, 172R, 172S, P172D, FP172, F172D, F172E, F172F, F172G, F172H, F172K, F172L, F172M, F172N, 172P, FR172E, FR172F, FR172G, FR172H, FR172J, FR172K, R172E (T-41B,T-41C), R172F (T-41D), R172G (T-41C, T-41D), R172H (T-41D), R172J, R172K, 175, 175A, 175B, 175C, 177, 177A, 177B, 177RG, F177RG, 180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K, 182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R/T182, 182R, 182S, T182T, 182T, R182, R182/TR182, A182J, A182K, A182L, A182N, F182P, F182Q, FR182, 185, 185A, 185B, 185C, 185D, 185E/A185E, A185E, A185F, 188/A188, A188/A188A, 188B, A188B, T188C, A-A188B, 210-5 (205), 210-5A (205A), 206, U206, U206A/TU206A, U206B/TU206B, U206C/TU206C, U206D/TU206D, U206E/TU206E, U206F/TU206F, U206G/TU206G, P206, P206A/TP206A, P206B/TP206B, P206C/TP206C, P206D/TP206D, P206E/TP206E, 206H, T206H, 207/T207, 207A/T207A, 210, 210A, 210B, 210C, 210D, 210E, 210F, 210G, 210H, 210J, 210K/T210K, 210L/T210L, 210M/T210M, 210N/T210N, 210R/T210R, P210N, P210R, T210F, T210G, T210H, T210J, T240, 300 (LC40-550FG), 350 (LC42-550FG), 400 (LC41-550FG).

Beechcraft Models: 23, A23, A23A, B23, C23, A23-19, 19A, M19A, B19, A23-24, A24, A24R, B24R, C24R, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, E33, F33, G33, E33A, E33C, F33A, F33C, 35, 35R, A35, B35, C35, D35, E35, F35, G35, H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 36, A36, A36TC, B36TC, G36, 77.

REASON

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.

COMPLIANCE

MANDATORY. 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.

LABOR HOURS

For planning purposes only:

WORK PHASE

Magneto Stop Pin Inspection

LABOR-HOURS

2.0 per magneto for the Initial Inspection

NOTE: The subsequent stop pin inspections will align with the recurring 500 hour magneto inspection.

February 5, 2020

SEL-74-06
Page 1 of 2

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MATERIAL AVAILABILITY

For parts information, refer to the applicable service document that follows:

Continental Aerospace Technologies Service Bulletin SB19-02A (Revision A or latest revision)

Lycoming Service Bulletin No. 637 (or latest revision)

Slick Champion Aerospace Service Bulletin SB1-19 (or latest revision)

WARRANTY

This service document is *mandatory*. Eligible airplanes may qualify for parts and labor coverage to the extent noted in the *Labor Hours* and *Material Availability* sections of this document.

Eligibility: Airplanes identified within the serial number effectivity of this service document must have active Engine warranty coverage on the original issue date of this document and the coverage must be active on the day the work is accomplished.

Parts Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities, operators, or other maintenance facilities may submit a claim for the parts required to accomplish this service document as defined in the *Material Availability* section of this document.

Labor Coverage: Textron Aviation-owned and Textron Aviation-authorized Service Facilities rated to perform maintenance on the specific model of Beechcraft, Cessna Aircraft may submit a claim for the labor necessary to accomplish this service document as defined in the *Labor Hours* section of this document.

Credit Application: After this service document has been accomplished, a claim must be submitted to Textron Aviation within 30 days of the service document completion. Claims for compliance of this service document are to be filed as a W4 type claim.

Please submit your claim form online at ww2.txtav.com/Parts or email the completed Textron Aviation Claim Form to warranty@txtav.com. If submitted on-line a Return Authorization will be provided. If a paper claim is submitted your claim will be entered into the system and a Return Authorization will be sent to you.

The Return Authorization must accompany any required return parts (see *Material Availability*), to the point of purchase.

Parts to be returned to Textron Aviation Parts Distribution should be forwarded to:

Textron Aviation Parts Distribution
Warranty Administration
285 South Greenwich Road
Bldg B89, Docks 1-4
Wichita, KS 67206
USA

Expiration: February 5, 2021 (after this date the owner/operator assumes the responsibility for compliance costs)

Textron Aviation reserves the right to void continued airplane warranty coverage for the parts affected by this service document until the service document is accomplished.

NOTE: As a convenience, service documents are now available online to all our customers through a simple, free-of-charge registration process. If you would like to sign up, please visit the Customer Access link at www.txtavsupport.com to register.

SERVICE BULLETIN

Compliance Will Enhance Safety

SUBJECT: Champion Aerospace Slick Service Bulletin SB1-19

PURPOSE: Mandatory inspection of impulse coupled Slick magnetos.

COMPLIANCE: Reference detailed compliance requirements as directed by the attached Champion Aerospace Slick Service Bulletin SB1-19.

MODELS

AFFECTED: New and rebuilt O-200-A, B, D, X; IO-240-A, B; IO-360-KB; LTSIO-360-KB, RB; TSIO-360-CB, FB, GB, KB, LB, MB, RB, SB; O-470-R, S, U; IO-470-C, F, J, K, L, N, S, V, VO; IO-520-A, BA, BB, C, CB, D, F, J, L, M; LTSIO-520-AE; TSIO-520-AE, AF, BE, C, CE, DB, G, H, M, P, R, T, UB; IO-550-B, C, D, F, L; and TSIO-550-C, E

I. GENERAL INFORMATION

Continental Motors (CMI) recommends customer compliance, as specified in Champion Aerospace Slick Service Bulletin SB1-19.

II. WARRANTY

Direct all questions regarding the actions required by the attached Service Bulletin to:

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

ISSUED	REVISED	 P.O. Box 90 Mobile, AL 251-436-8299	PAGE NO	DOC NO	REVISION
2019-03-07			1 of 2	SB19-02	

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ISSUED	REVISED		PAGE NO	DOC NO	REVISION
2019-03-07		P.O. Box 90 Mobile, AL 251-436-8299	2 of 2	SB19-02	

Service Bulletin

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 magnetos

MAGNETO MODELS

AFFECTED: 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

NOTE: 16010001 = SN manufacture date of January 2016 and
18050664 = SN manufacture date of May 2018

ENGINE MODELS

AFFECTED: 4300 series and 6300 series magnetos.

AIRFRAME MODELS

AFFECTED: 4300 series and 6300 series magnetos.

BACKGROUND INFORMATION:

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.

COMPLIANCE: 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.

PROOF OF COMPLIANCE:

Appropriate logbook entries. See SB1-19 COMPLIANCE and WARRANTY INFORMATION.

MAINTENANCE PARTS AFFECTED:

None.

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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				1 of 8	

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 Liberty, SC/USA 29657
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Service Bulletin

**PARTS REQUIRED
PER BULLETIN:**

Replacement magnetos as required.

TOOLS REQUIRED:

T-118 mag timing pin, mag timing light, calibrated measuring device, and standard shop tools.

WEIGHT CHANGE:

None.

**REQUIRED SERVICE
LITERATURE:**

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.

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

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.

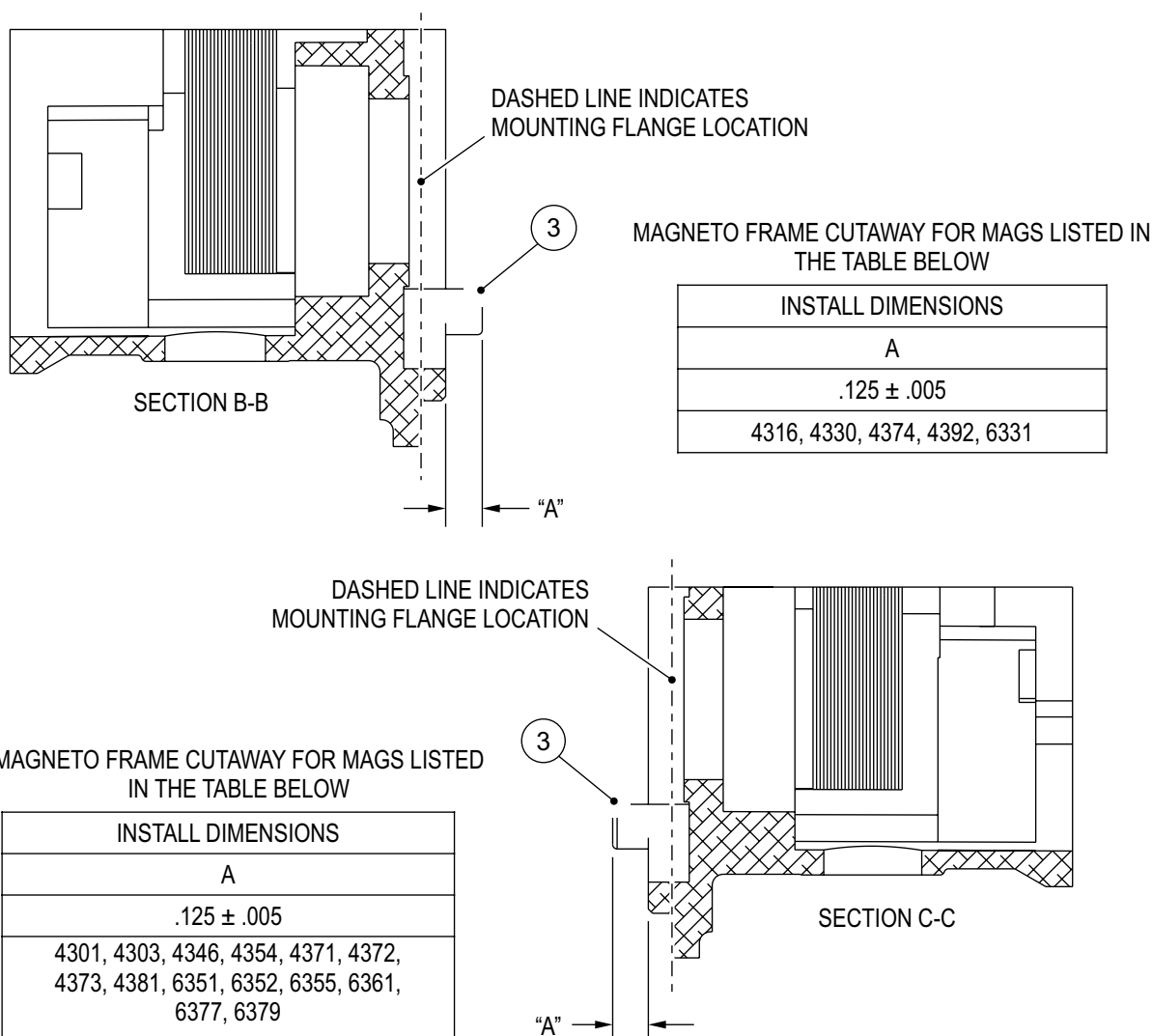
**DETAILED
INSTRUCTIONS:**

- 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)
- Do not leave drive gears installed on the magneto(s). Champion cannot guarantee return of these components
 - 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).
 - 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.
 - C. Repeat this inspection every 500 hours TIS, until end of product life.

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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	MO	DAY	YR		2 of 8	
02	06	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

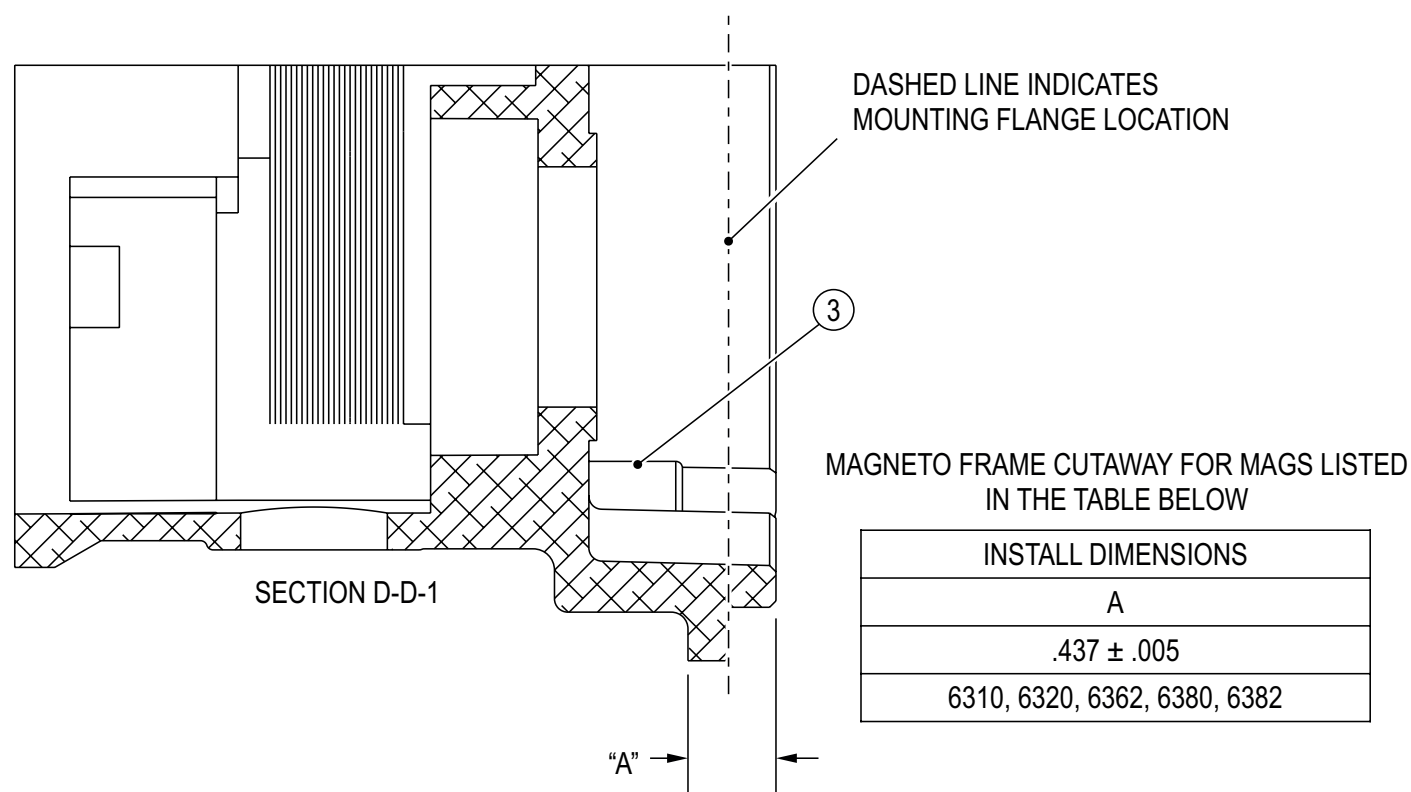
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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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PAGE NO.	REVISION
3 of 8	

Service Bulletin



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.

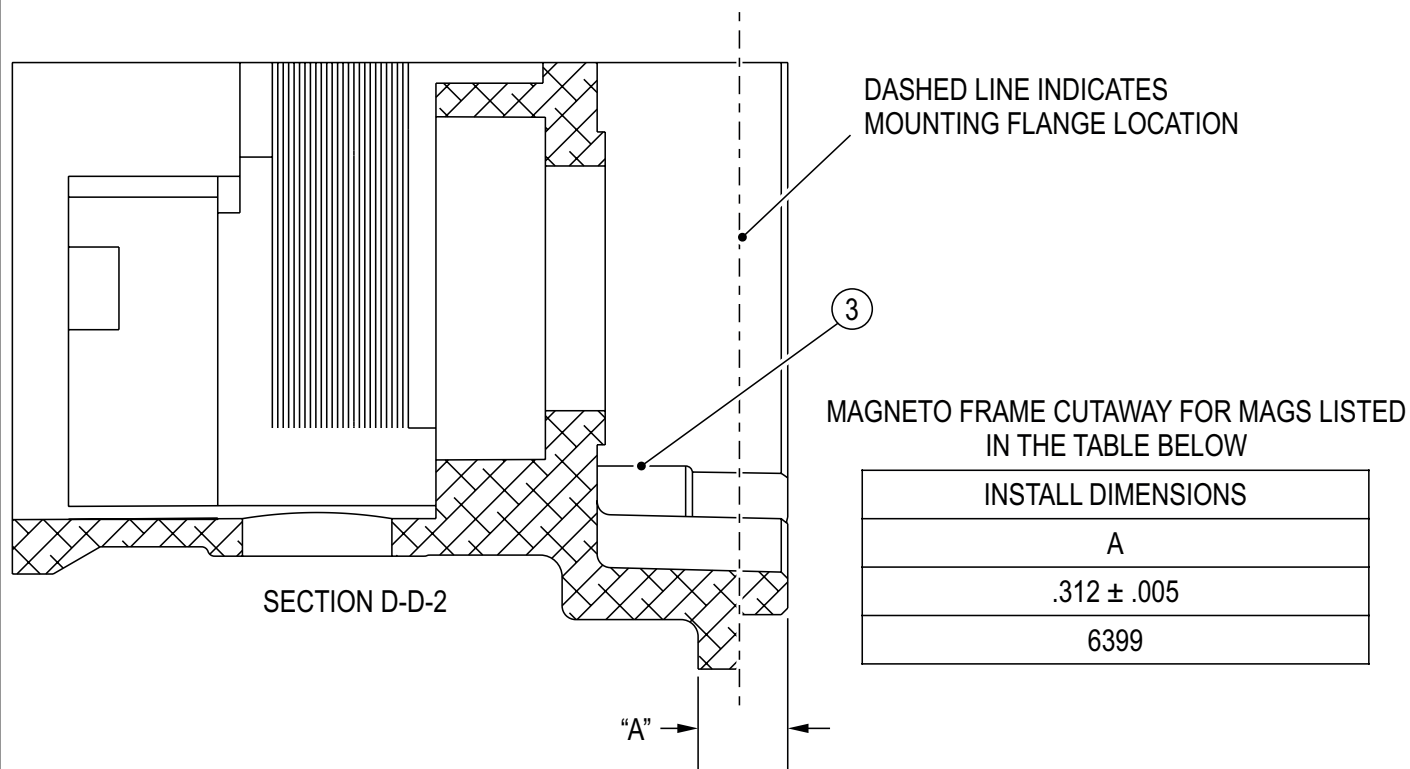
FIGURE 2. MAGNETO FRAME CUTAWAY SECTION D-D-1

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

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Service Bulletin



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.

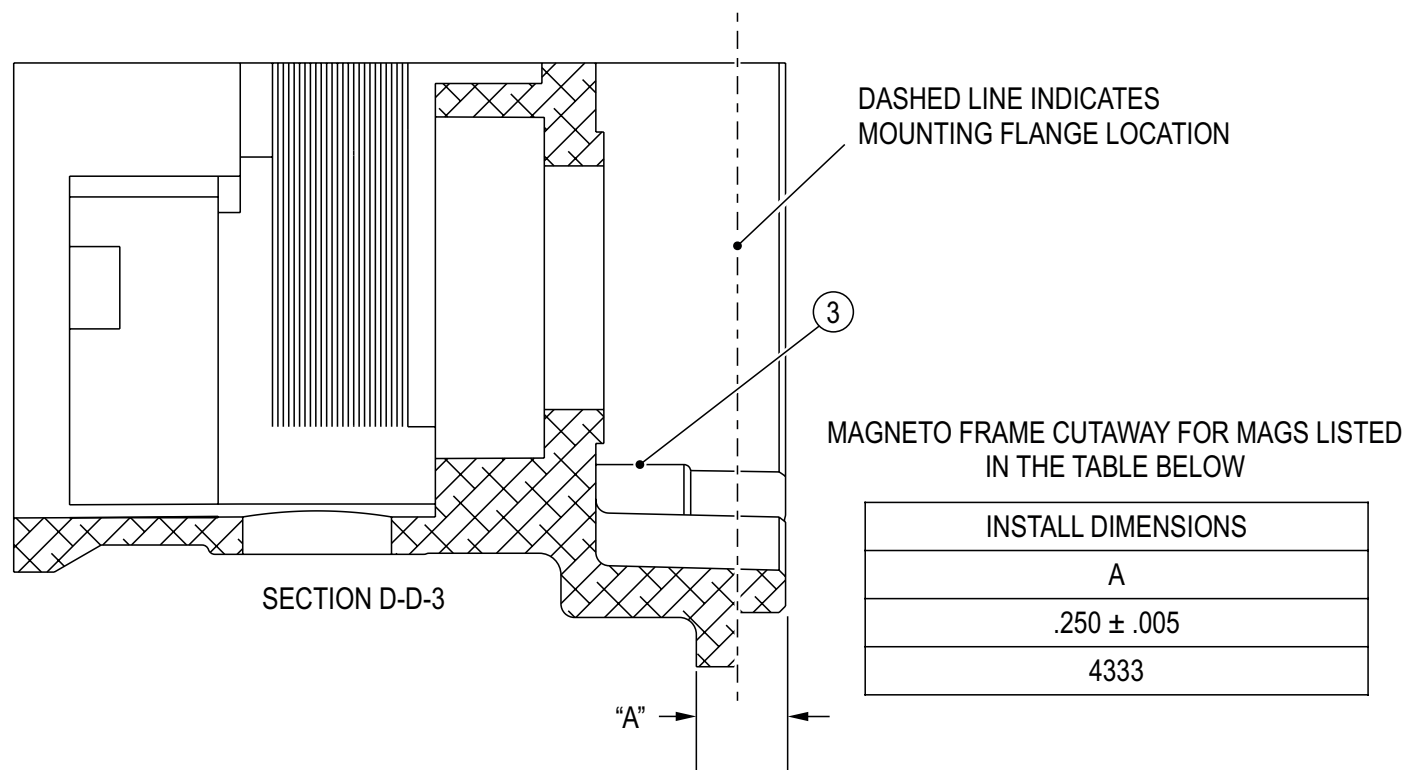
FIGURE 3. MAGNETO FRAME CUTAWAY SECTION D-D-2

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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				5 of 8	

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Service Bulletin



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

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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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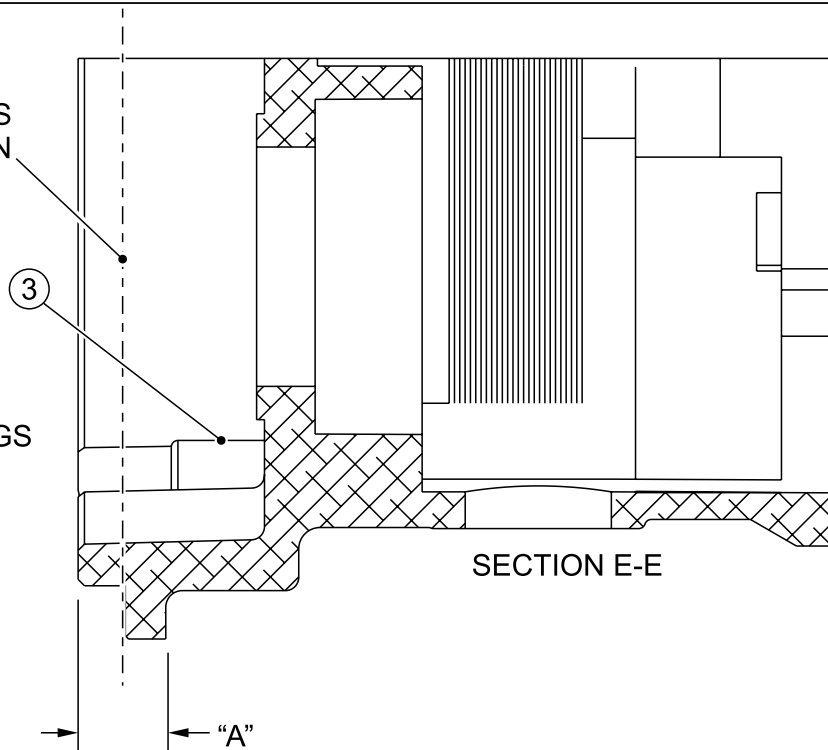
PAGE NO.	REVISION
6 of 8	

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



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

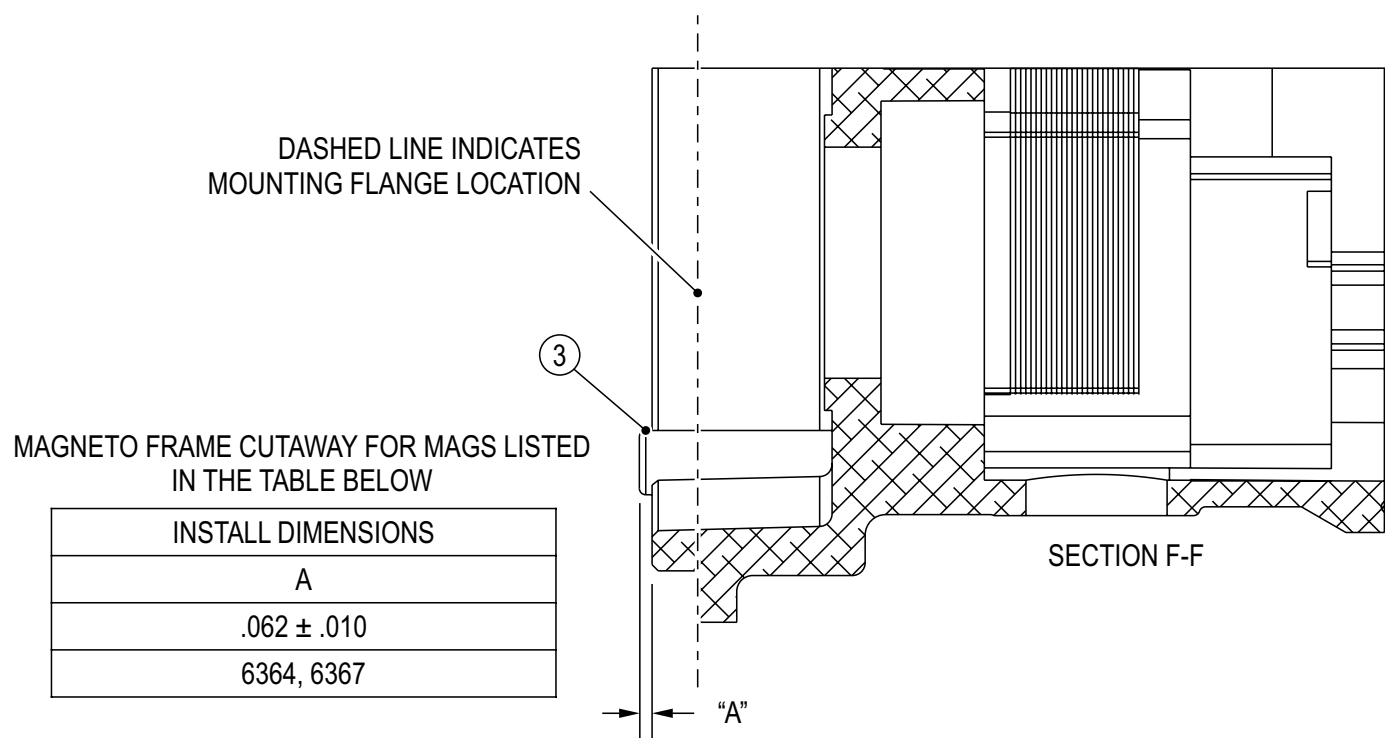
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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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PAGE NO.	REVISION
7 of 8	

Service Bulletin



USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION F-F. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT GREATER THAN .072 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

FIGURE 6. MAGNETO FRAME CUTAWAY F-F

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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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PAGE NO.

REVISION

8 of 8



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Email Technicalsupport@lycoming.com
www.lycoming.com

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*.



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

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	2 of 10	--	
03	14	19	--	--	--			

Service Bulletin

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 magnetos

MAGNETO MODELS

AFFECTED: 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

NOTE: 16010001 = SN manufacture date of January 2016 and
18050664 = SN manufacture date of May 2018

ENGINE MODELS

AFFECTED: 4300 series and 6300 series magnetos.

AIRFRAME MODELS

AFFECTED: 4300 series and 6300 series magnetos.

BACKGROUND INFORMATION:

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.

COMPLIANCE:

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.

PROOF OF COMPLIANCE:

Appropriate logbook entries. See SB1-19 COMPLIANCE and WARRANTY INFORMATION.

MAINTENANCE PARTS AFFECTED:

None.

Proprietary Statement

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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				1 of 8	

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

Service Bulletin

PARTS REQUIRED**PER BULLETIN:** Replacement magnetos as required.**TOOLS REQUIRED:** T-118 mag timing pin, mag timing light, calibrated measuring device, and standard shop tools.**WEIGHT CHANGE:** None.**REQUIRED SERVICE****LITERATURE:** 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.**WARRANTY****INFORMATION:** NOTE: Labor is not included per Champion warranty policy.

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.

DETAILED**INSTRUCTIONS:**

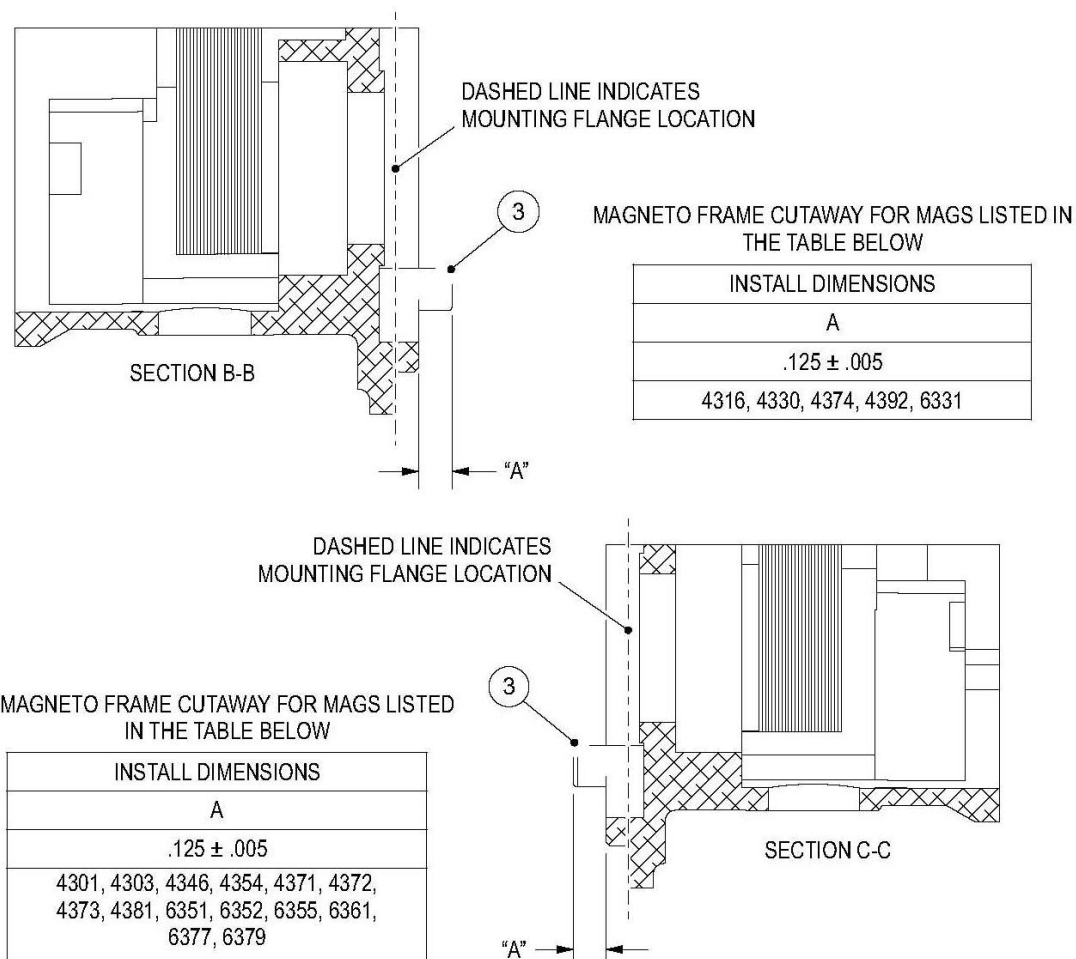
- Warranty form must include name, shipping address, model number, serial number of the magneto(s) being returned and TIS information in the box with the magneto(s). (Distributors have warranty forms)
- Do not leave drive gears installed on the magneto(s). Champion cannot guarantee return of these components
- 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).
- 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.
- C. Repeat this inspection every 500 hours TIS, until end of product life.

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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	MO	DAY	YR			
02	06	19					2 of 8	

ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR	4 of 10	--	
03	14	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

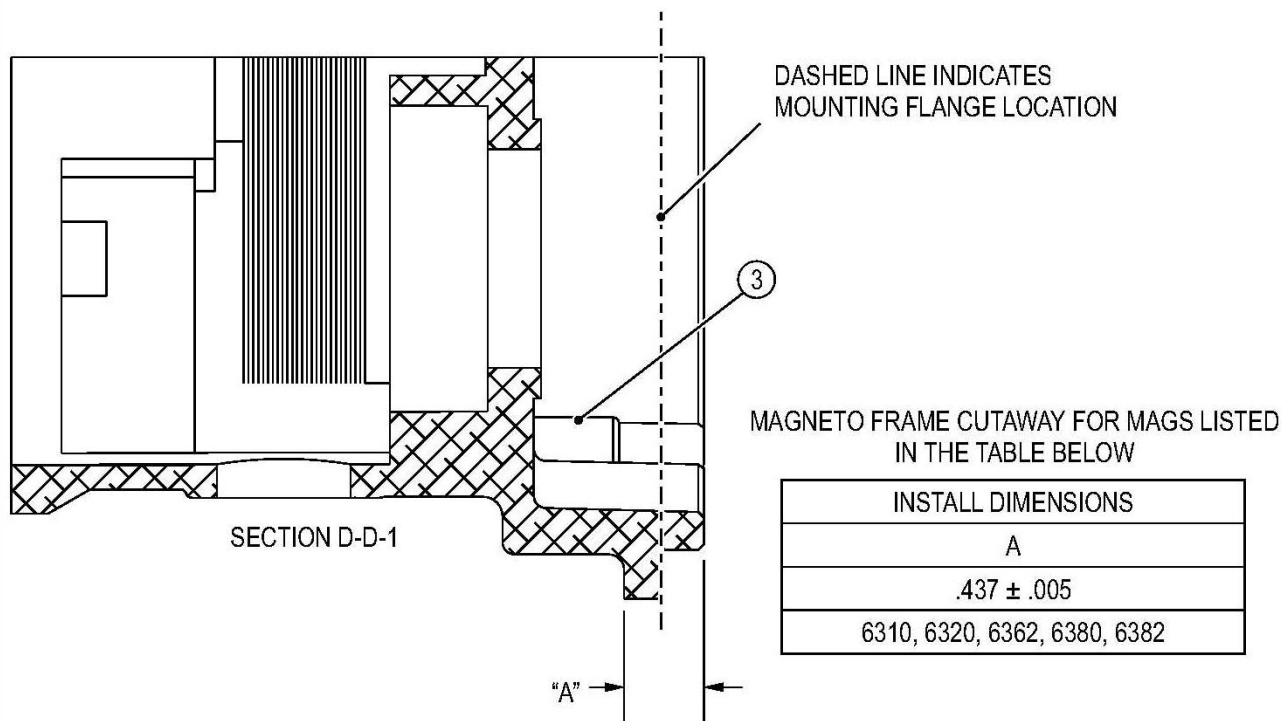
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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				3 of 8	

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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



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

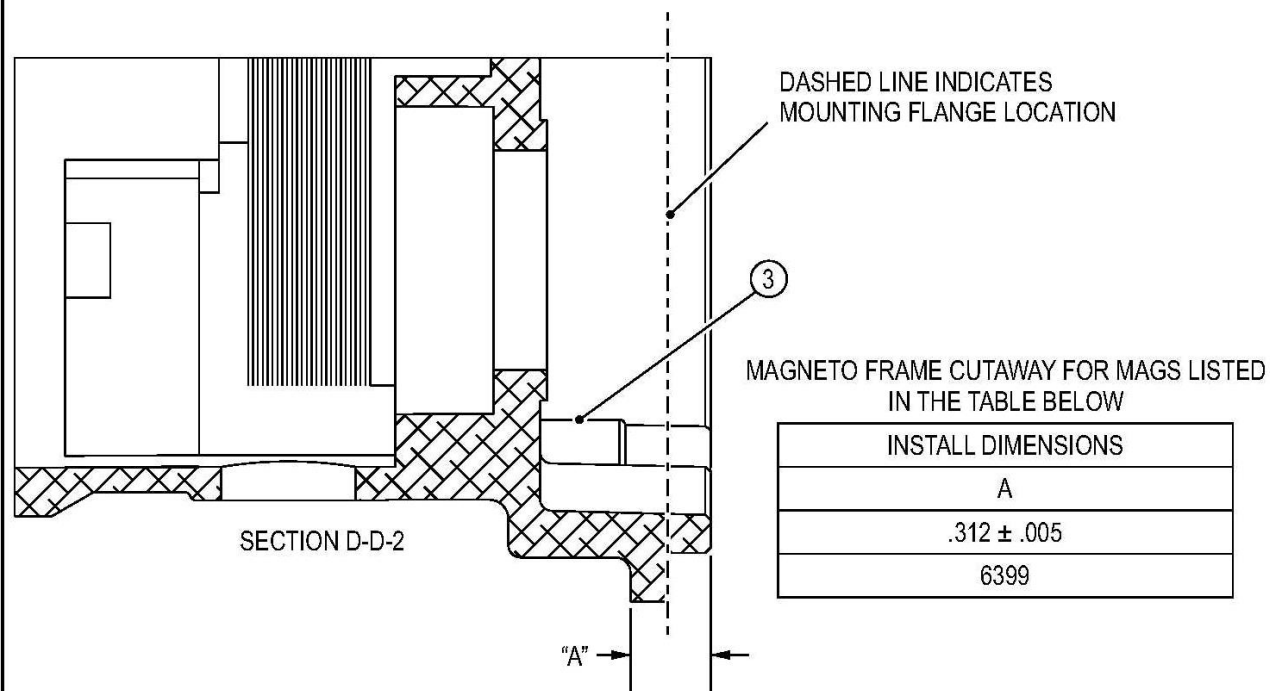
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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				4 of 8	

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ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR	6 of 10	--	
03	14	19	--	--	--			

Service Bulletin



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

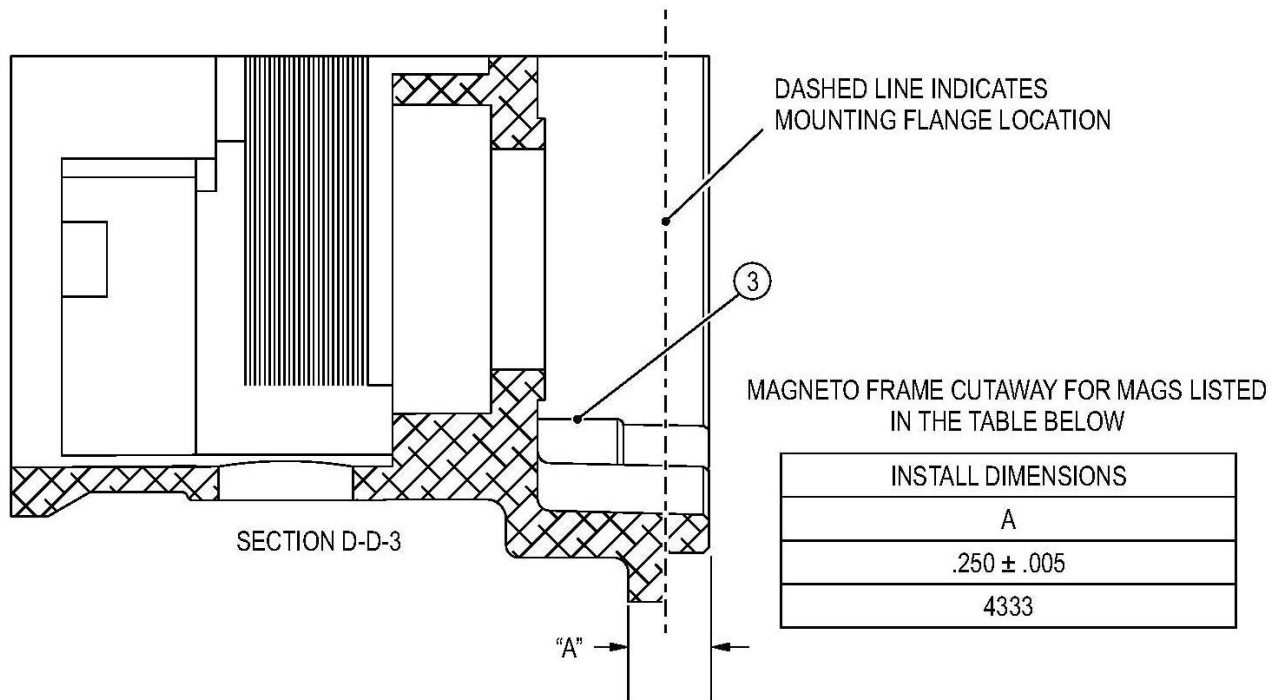
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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				5 of 8	

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ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR			
03	14	19	--	--	--	7 of 10	--	

Service Bulletin



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.

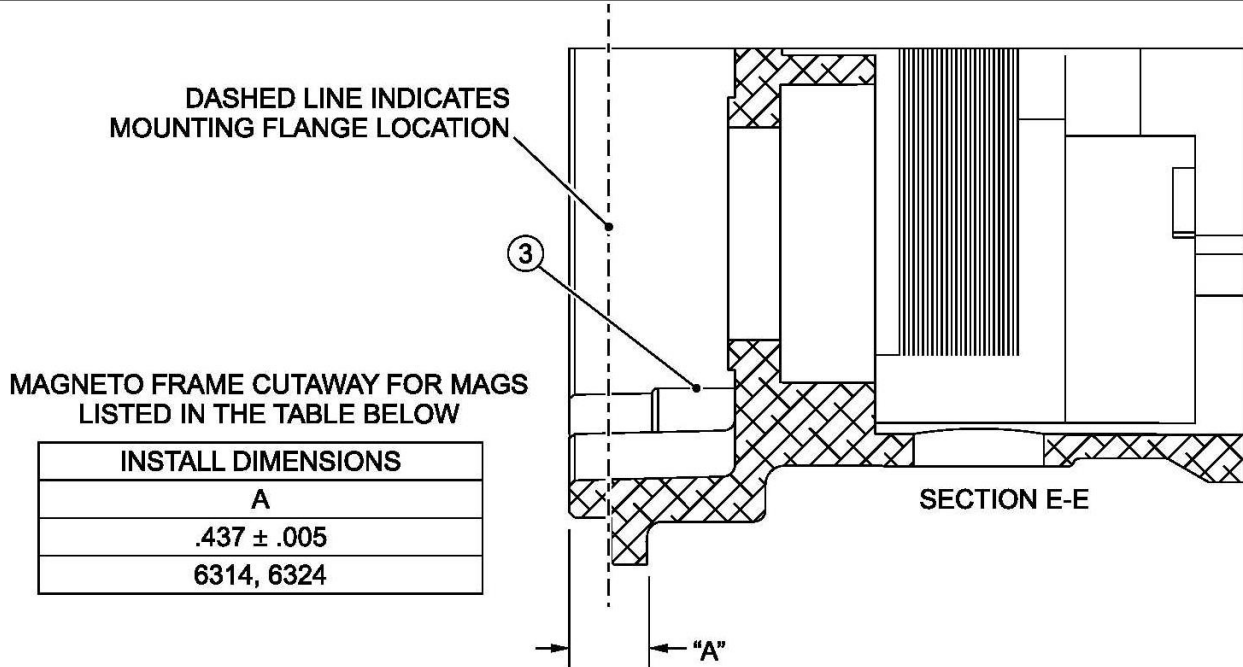
FIGURE 4. MAGNETO FRAME CUTAWAY SECTION D-D-3

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ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				6 of 8	

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ISSUED			REVISED			PAGE NO.	REVISION	S.B. 637
MO	DAY	YEAR	MO	DAY	YEAR	8 of 10	--	
03	14	19	--	--	--			



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

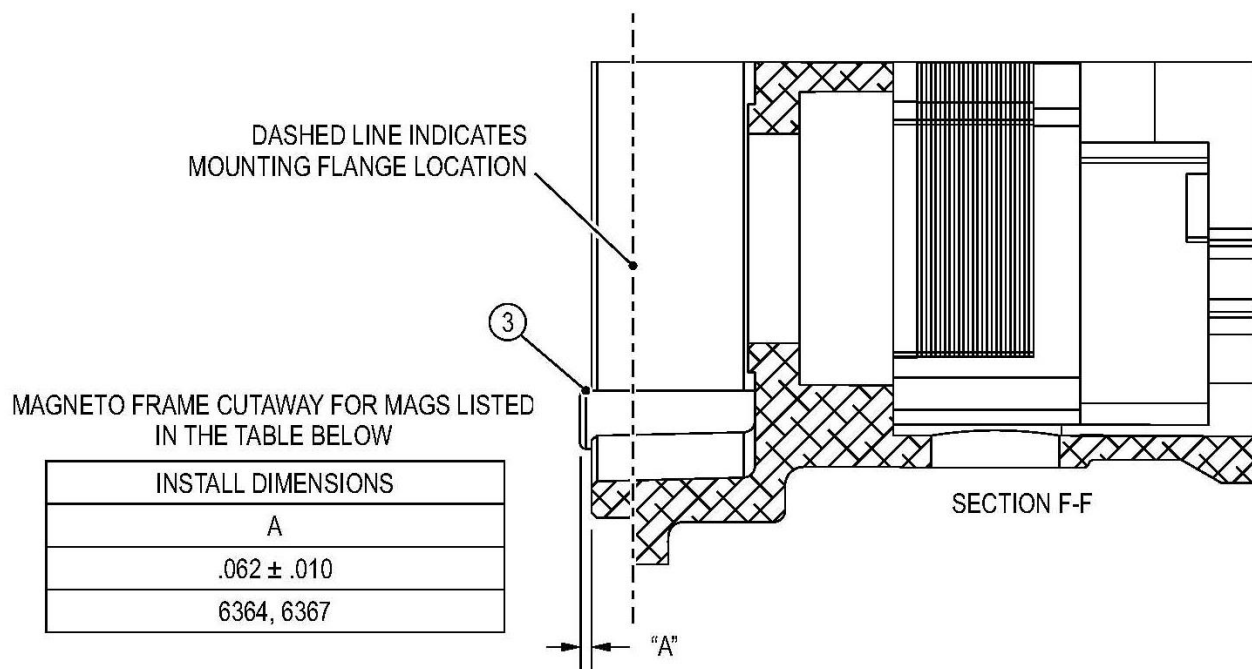
THIS DOCUMENT SUBJECT TO THE CONTROLS AND RESTRICTIONS ON THE FIRST PAGE

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				7 of 8	

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

Service Bulletin



USE A CALIBRATED MEASURING DEVICE TO MEASURE DISTANCE "A", AS SHOWN IN CUTAWAY SECTION F-F. MAKE SURE THE FRAME SURFACE IS FREE OF CONTAMINANTS. ANY MEASUREMENT GREATER THAN .072 INCH OF ANY PART OF THE STOP PIN (3), THE MAGNETO SHOULD BE REMOVED FROM SERVICE AND RETURNED TO CHAMPION FOR WARRANTY.

FIGURE 6. MAGNETO FRAME CUTAWAY F-F

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				8 of 8	

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

Service Bulletin

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 magnetos

MAGNETO MODELS

AFFECTED: 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

NOTE: 16010001 = SN manufacture date of January 2016 and
18050664 = SN manufacture date of May 2018

ENGINE MODELS

AFFECTED: 4300 series and 6300 series magnetos.

AIRFRAME MODELS

AFFECTED: 4300 series and 6300 series magnetos.

BACKGROUND INFORMATION:

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.

COMPLIANCE: 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.

PROOF OF COMPLIANCE:

Appropriate logbook entries. See SB1-19 COMPLIANCE and WARRANTY INFORMATION.

MAINTENANCE PARTS AFFECTED:

None.

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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	MO	DAY	YR		1 of 8	
02	06	19						

Service Bulletin

**PARTS REQUIRED
PER BULLETIN:**

Replacement magnetos as required.

TOOLS REQUIRED:

T-118 mag timing pin, mag timing light, calibrated measuring device, and standard shop tools.

WEIGHT CHANGE:

None.

**REQUIRED SERVICE
LITERATURE:**

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.

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

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.

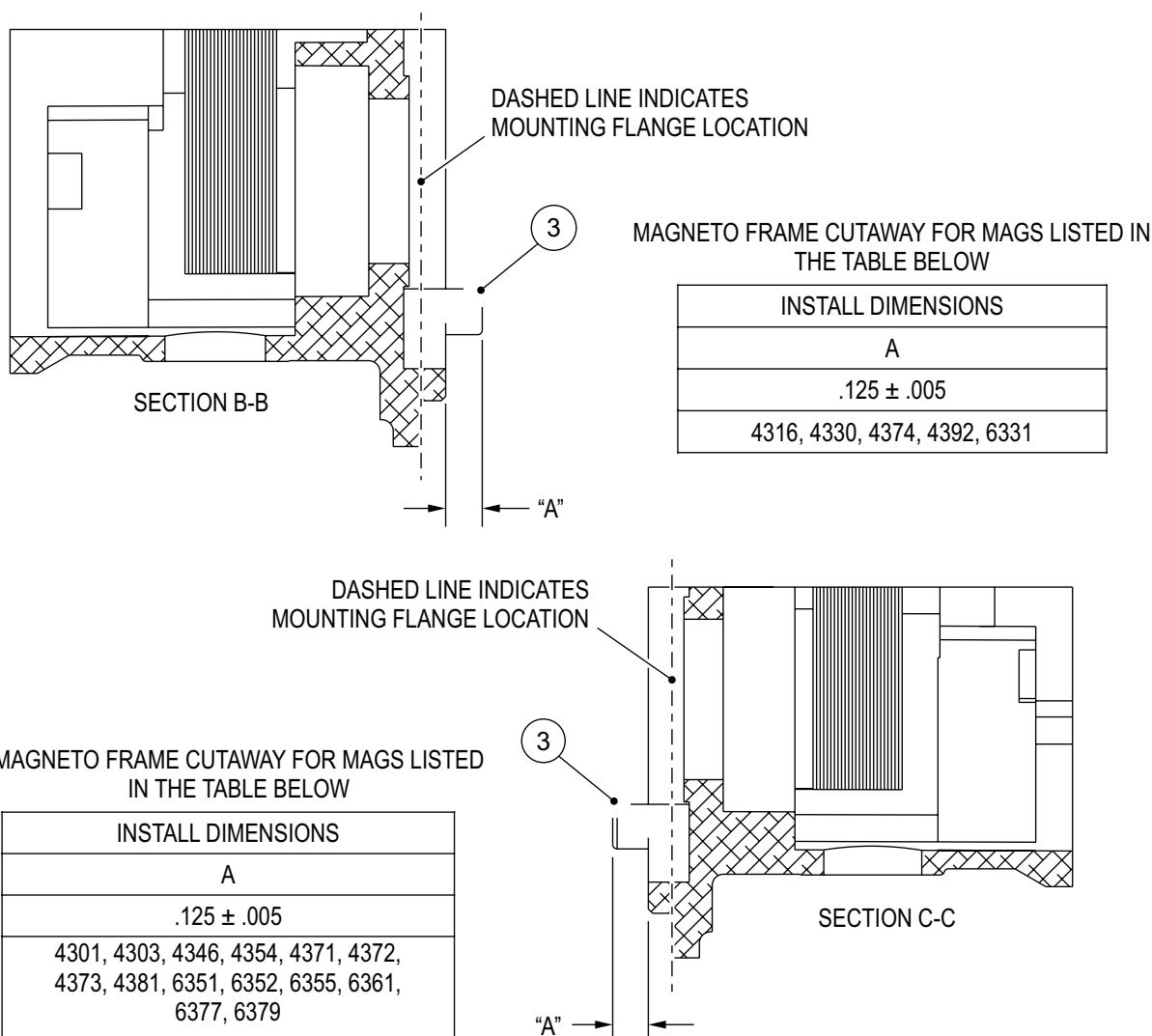
**DETAILED
INSTRUCTIONS:**

- 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)
- Do not leave drive gears installed on the magneto(s). Champion cannot guarantee return of these components
 - 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).
 - 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.
 - C. Repeat this inspection every 500 hours TIS, until end of product life.

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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	MO	DAY	YR		2 of 8	
02	06	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

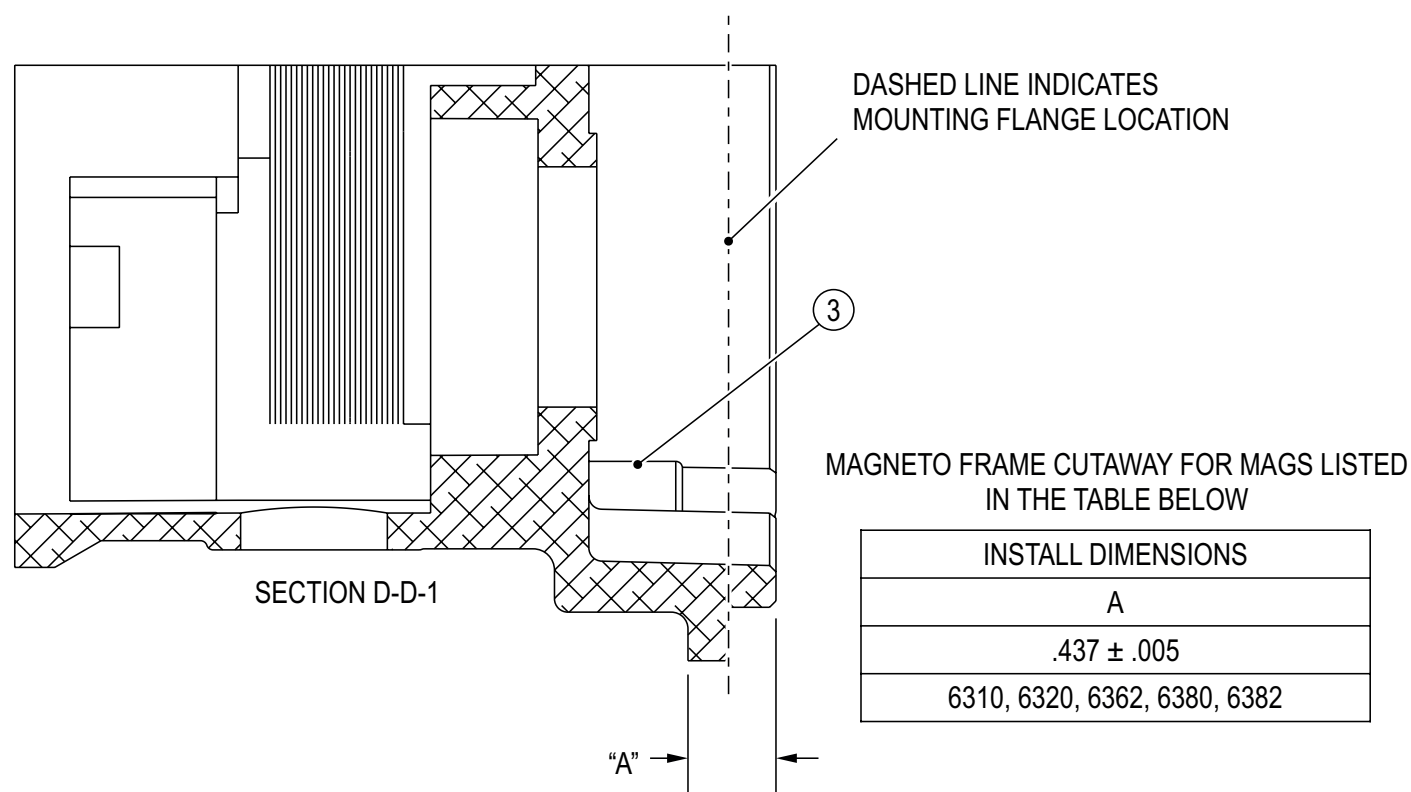
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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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PAGE NO.	REVISION
3 of 8	

Service Bulletin



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.

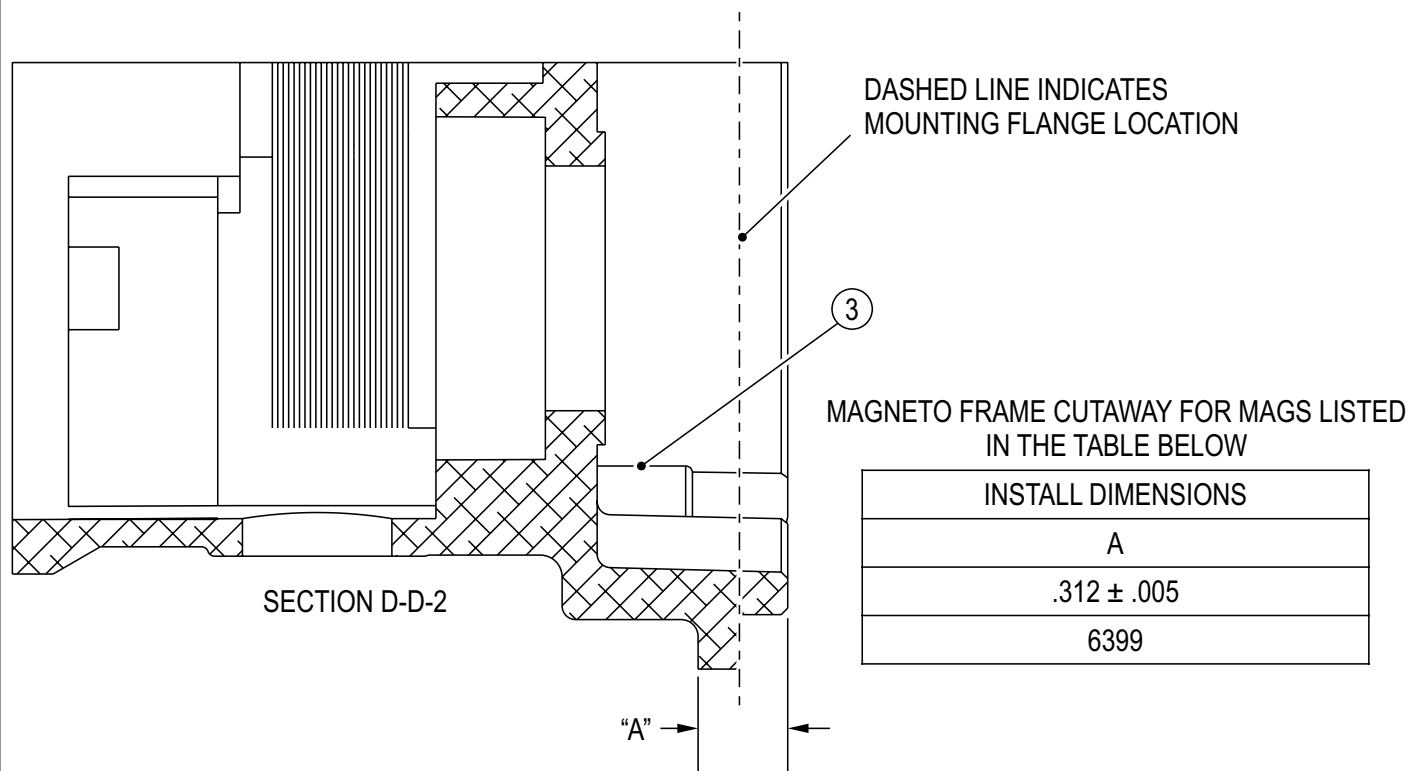
FIGURE 2. MAGNETO FRAME CUTAWAY SECTION D-D-1

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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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.

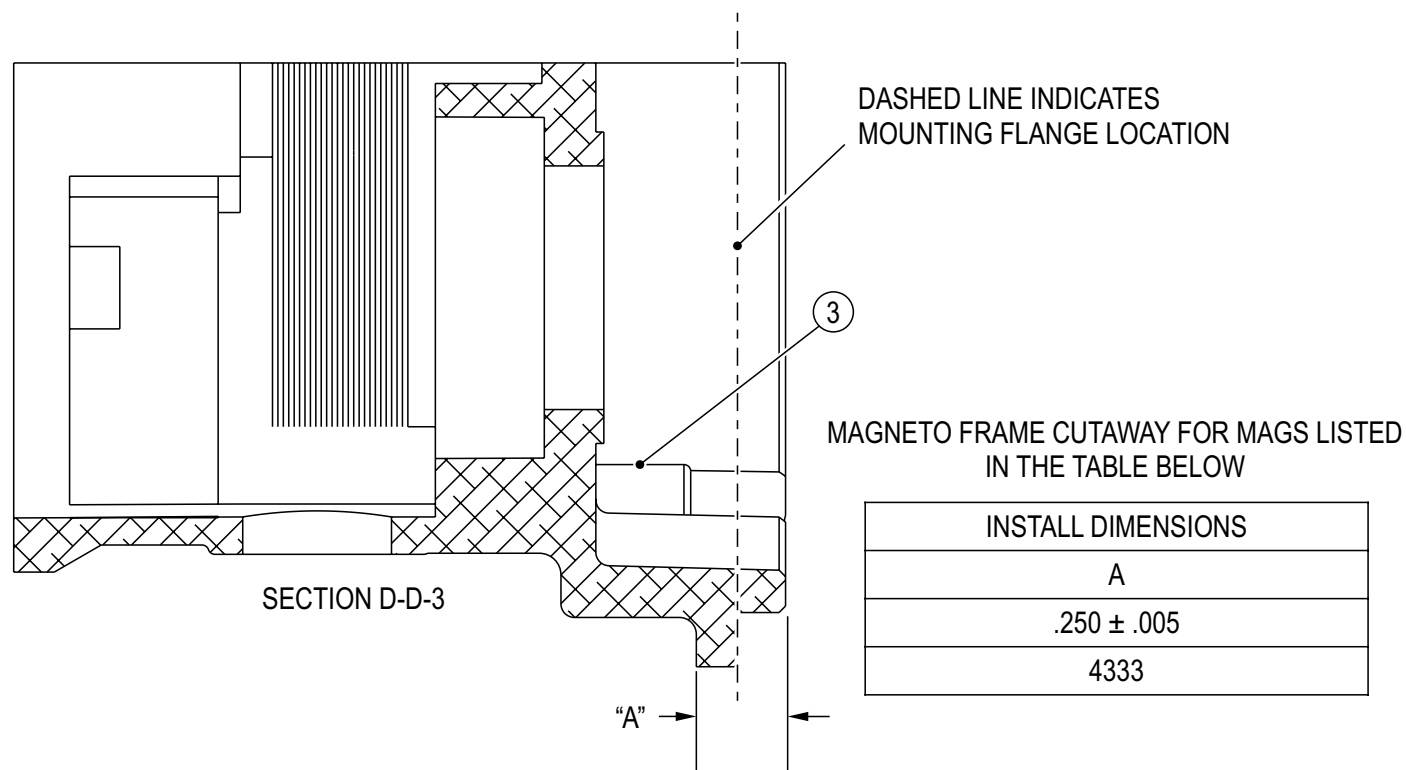
FIGURE 3. MAGNETO FRAME CUTAWAY SECTION D-D-2

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

ISSUED			REVISED			PAGE NO.	REVISION
MO	DAY	YR	MO	DAY	YR		
02	06	19				5 of 8	

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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

ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
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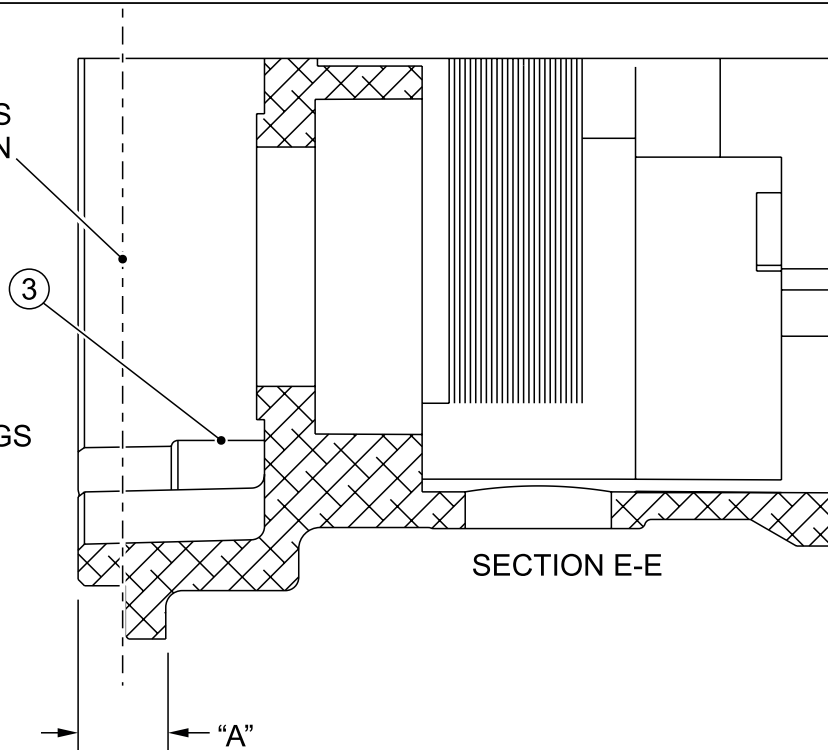
PAGE NO.	REVISION
6 of 8	

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



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

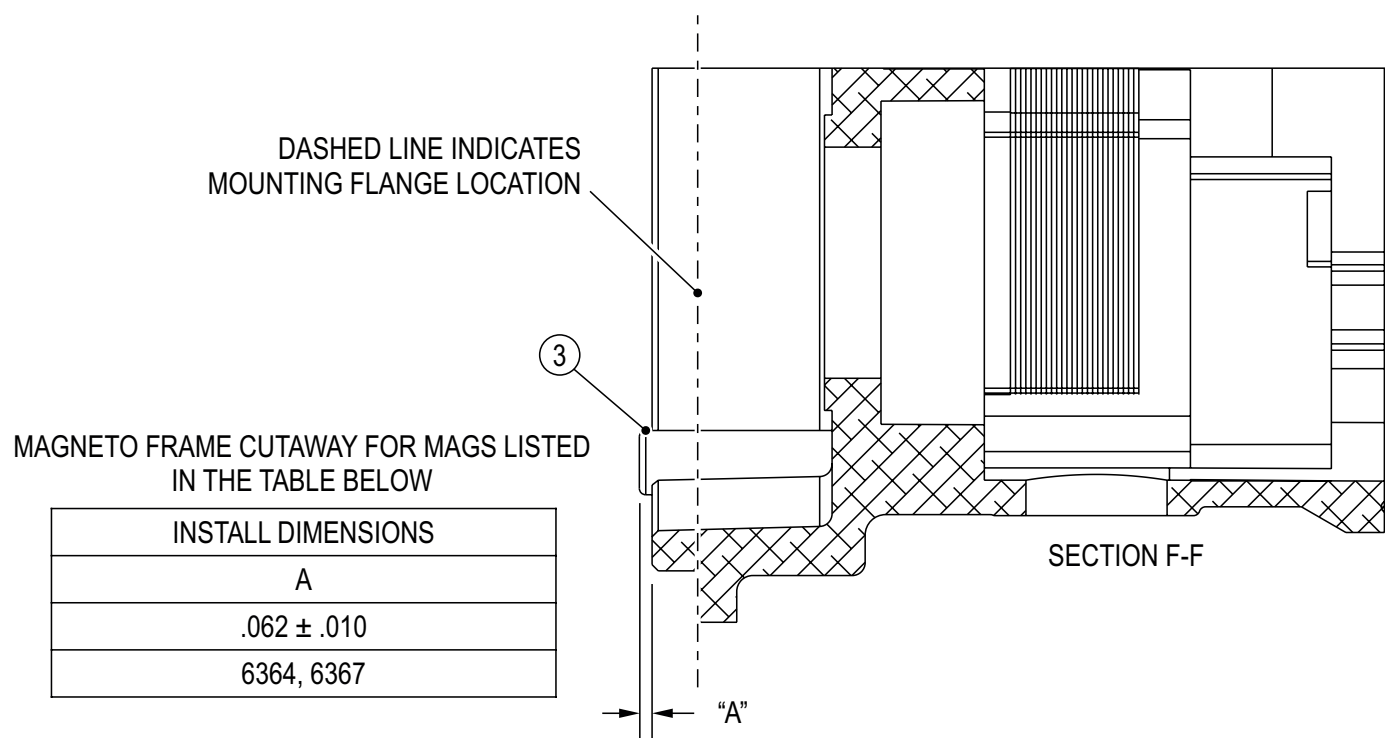
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02	06	19			

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PAGE NO.	REVISION
7 of 8	

Service Bulletin



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FIGURE 6. MAGNETO FRAME CUTAWAY F-F

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ISSUED			REVISED		
MO	DAY	YR	MO	DAY	YR
02	06	19			

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PAGE NO.

REVISION

8 of 8