

SERVICE INFORMATION LETTER

Contains Useful Information Pertaining To Your Aircraft Engine

SIL 03-2B

Technical Portions FAA
Approved
Supersedes M85-7

Reason For

Revision : Correction to engine / spark plug application Table 2 and 3.

SUBJECT: CURRENTLY ACTIVE APPROVED SPARK PLUG APPLICATION

PURPOSE: Provide listing of currently approved spark plugs for TCM Engines

COMPLIANCE: As Required when replacing spark plugs.

MODELS

AFFECTED: ALL

GENERAL INFORMATION:

The following Tables number 1, 2, 3, and 4 list the most commonly used spark plugs by engine model. Additional listings of approved spark plugs may be found in the engine's FAA Type Certificate Data Sheet and the spark plug manufacturer's data.


Refer to the spark plug manufacturer's data for spark plug servicing information and required specialized tools. Spark plugs must be removed, cleaned, inspected, gapped and position rotated every 100 hours. Refer to Chart 1 for spark plug rotation sequence. Always install a new spark plug gasket when servicing spark plugs or installing new spark plugs. Chart 2 provides spark plug electrode gap specifications using an alpha code referenced in Table 1, 2 and 3.

CAUTION: Failure to install a new spark plug gasket each time the spark plug (s) are installed may result in incomplete sealing of the combustion chamber, loss of spark plug heat transfer, spark plug over heating, possible pre-ignition / detonation and internal engine damage.

GENERAL INSTALLATION PROCEDURES:

In the event spark plug manufacturer's instructions are not available the following procedure may be used.

1. Always install spark plugs with new copper gasket.
2. Sparingly apply anti-seize to the spark plug threads. **DO NOT APPLY ANTI-SEIZE TO THE FIRST THREAD.**
3. Always use a six point deep socket.
4. Thread spark plug by hand into cylinder to within one or two threads of the gasket. If this is not possible, cylinder head threads or spark plug threads need to be cleaned.
5. Torque spark plugs to 300 to 360 inch pounds using a currently calibrated torque wrench.
6. Handle spark plug leads with clean, dry hands.

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7. Before installing the spark plug lead connector, wipe it clean using a lint-free cloth moistened with MEK, acetone, wood alcohol or naphtha.
8. Ensure that inside of spark plug barrel is clean and dry.
9. Insert spark plug lead connector into spark plug barrel with fingers in a straight line with the spark plug.
10. Screw connector nut into place until finger tight.
11. Tighten an additional 1/8 turn with the correct size open end wrench while holding the spark plug lead ferrule stationary.

WARNING: DO NOT INSTALL OR USE ANY SPARK PLUG THAT HAS BEEN DROPPED OR HAS ANY MECHANICAL DAMAGE.

Chart 1
SPARK PLUG ROTATION CHARTS

6 CYLINDER ENGINE
SPARK PLUG ROTATION

FROM CYLINDER NUMBER	TO CYLINDER NUMBER
1 TOP	6 BOTTOM
1 BOTTOM	6 TOP
2 TOP	5 BOTTOM
2 BOTTOM	5 TOP
3 TOP	4 BOTTOM
3 BOTTOM	4 TOP
4 TOP	3 BOTTOM
4 BOTTOM	3 TOP
5 TOP	2 BOTTOM
5 BOTTOM	2 TOP
6 TOP	1 BOTTOM
6 BOTTOM	1 TOP

4 CYLINDER ENGINE
SPARK PLUG ROTATION

FROM CYLINDER NUMBER	TO CYLINDER NUMBER
1 TOP	4 BOTTOM
1 BOTTOM	4 TOP
2 TOP	3 BOTTOM
2 BOTTOM	3 TOP
3 TOP	2 BOTTOM
3 BOTTOM	2 TOP
4 TOP	1 BOTTOM
4 BOTTOM	3 TOP

CHART 2
SPARK PLUG ELECTRODE GAP

SPARK PLUG GAP CHART	
GAP CODE	ELECTRODE GAP
A	.015 - .018
B	.016 - .021
C	.017 - .020
D	.018 - .021
E	.019 - .022
①	NO GAP AVAILABLE


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TABLE 1
SPARK PLUG APPLICATION

MANUFACTURER SPARK PLUG MANUFACTURER PART NUMBER	AUBURN SPARK PLUG CO. - AC SPARK PLUG CO.						SPITFIRE SERIES						SMITH INDUSTRIES															
	HSR-86	HSR-83 P	HSR-93	HSR-88	A-88	SR-83 P	SR-93	SR-87	HSR-87	AC-271	AC-273	AC-291	AC-281	AC-283	AC-293	273	HSR-86	SR-87	HSR-87	HSR-88	RSH35-8R/1	RSH101R	RSH35-8R	RSE23-3R	RSH23-3R	RSE35-8R/1	RSE23-3R/1	RSH23-3R/1
TCM Part Number	626364	626363	635861	626362	539432	625350	635862	627449	627450	63532	630533	635589	632738	632740	635860	649910	649912	649913	649914	649915	646090	639609	641977	642097	642098	646089	646091	646092
BARREL SIZE	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	3/4-20
Recommended Electrode Gap	A	A	A	E	E	A	A	E	E	A	A	A	A	A	A	A	A	E	E	E	C	D	C	C	C	C	C	C
A-40; A-50			X	X	X															X								
A-65; A-75			X	X	X															X								X
A-80			X	X	X															X								
A-100																				X								
W-670; R-670		X	X	X	X	X		X	X										X									X
C-75; C-85		X	X	X	X	X														X								X
C-90		X	X	X	X	X														X								X
O-200-A,B,C		X	X	X	X	X														X								X
C-115; C-125		X	X	X	X	X														X								X
C-145; O-300-A,B,C,D		X	X	X	X	X														X								X
GO-300-A,B,C,D,E,F		X	X	X	X	X			X																			X
E-165; E-185		X	X	X	X	X														X								X
E-225		X	X	X	X	X														X								X
O-470-2	X																X											X
O-470-4,11,13,13A,15	X	X	X	X		X														X								X



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TABLE 1
SPARK PLUG APPLICATION (Continued)

MANUFACTURER	AUBURN SPARK PLUG CO. - AC SPARK PLUG CO.												SPITFIRE SERIES						SMITH INDUSTRIES									
	HSR-86	HSR-83 P	HSR-93	HSR-88	A-88	SR-83 P	SR-93	SR-87	HSR-87	AC-271	AC-273	AC-291	AC-281	AC-283	AC-293	273	HSR-86	SR-87	HSR-87	HSR-88	RSH35-8R/1	RSH101R	RSH35-8R	RSE23-3R	RSH23-3R	RSE35-8R/1	RSE23-3R/1	RSH23-3R/1
SPARK PLUG MANUFACTURER PART NUMBER	626364	626363	635861	626362	539432	625350	635862	627449	627450	63532	630533	635589	632738	632740	635860	649910	649912	649913	649914	649915	646090	639609	641977	642097	642098	646089	646091	646092
TCM Part Number																												
BARREL SIZE	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20
Recommended Electrode Gap	A	A	A	E	E	A	A	E	E	A	A	A	A	A	A	A	A	E	E	E	C	D	C	C	C	C	C	C
IO-550-A,B,C,D,E,F,I,N,P,R																												
TSIO-550-A,B,C,E																												
IOF-550-B,C,D,E,F,L,N,P,R																												
O-470-A,E,J,K,L,R,S		X	X	X	X	X	X	X	X									X	X	X								
O-470-B,G,H,M,N,P	X	X	X			X	X	X	X									X	X	X								
IO-470-C,G,R,P,T		X	X			X	X	X	X									X	X	X								
O-470-U,T																												
IO-470-D,E,F,H,I,M,N,S,U,V										X	X	X	X	X	X	X					X	X	X	X	X	X	X	X
FSO-470-A																												
FSO-526-A,C																												
GSO-526-A																												
IO-470-J,K		X	X	X	X	X	X																					
IO-360-A,AB,C,CB,DB,ES, G,GB,H,HB,J,JB,K,KB	X	X	X			X	X																					
TSIO-470-B,C,D																												
GIO-470-A																												
IO-346-A,B		X	X	X		X	X	X	X																			
LIO-470-A	X	X	X	X		X	X	X	X																			

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TABLE 1
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MANUFACTURER	AUBURN SPARK PLUG CO. - AC SPARK PLUG CO.										SPITFIRE SERIES				SMITH INDUSTRIES																						
	HSR-86	HSR-83 P	HSR-93	HSR-88	A-88	SR-83 P	SR-93	SR-87	HSR-87	AC-271	AC-273	AC-291	AC-281	AC-283	AC-293	273	HSR-86	SR-87	649913	HSR-87	649914	HSR-88	646090	RSH101R	RSH35-8R	RSE23-3R	RSH23-3R	RSE35-8R/1	646091	646092	RSE23-3R/1	RSH23-3R/1					
SPARK PLUG MANUFACTURER PART NUMBER	3/4-20	3/4-20	5/8-24	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	5/8-24	3/4-20			
TCM Part Number	626364	626363	635861	626362	539432	625350	635862	627449	627450	63532	630533	635589	632738	632740	635860	649910	649912	649913	649914	649915	646090	639609	641977	642097	642098	646089	646091	646092	RSE23-3R/1	RSH23-3R/1							
BARREL SIZE	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	3/4-20	5/8-24	5/8-24	5/8-24	5/8-24	3/4-20	3/4-20	5/8-24	3/4-20					
Recommended Electrode Gap	A	A	A	E	E	A	A	E	E	A	A	A	A	A	A	A	A	E	E	E	C	C	C	C	C	C	C	C	C	C	C	C	C				
IO-520-A,B,BA,BB,C,CB,D,,F, J,K,L,,M,MB,N,NB										X		X	X	X	X	X																					
LJO-520-P																																					
IO-360-B		X				X																															
L/TSIO-520-B,C,D,DE,E,EB,G, H,,J,B,K,KB,L,,LB,M,N,NB,P, R,,T,U,UB,VB,WB,AE,BE,CE											X		X	X	X	X																					
GTSIO-520,,D,F,,G,H,K,L,,M,N											X																										
TSIO-360-A,B	X	X	X																																		
6-285-B,C,BA,CA																																					
6-320-B & T6-320-A																																					
L/TSIO-360-A,,AB,B,BB,C,CB, D,DB, E,EB,F,FB,G,GB,H,HB, JB,KB,LB,MB,RB,SB	X	X	X																																		
TSIOL-550-A																																					
TSIOL-550-B																																					
TSIOL-550-C																																					
IO-240-A,B; IOF-240-B																																					

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TABLE 2
SPARK PLUG APPLICATION

MANUFACTURER	B. G. CORPORATION												CHAMPION SPARK PLUG COMPANY																								
	SPARK PLUG MANUFACTURER PART NUMBER	2305	BG-482	BG-417	BG-706 S	BG-SU485	BG-707 SR	BG-613S	BG-707S	RB-485S	BG-706	BG-706R	BG-706SR	BG-919SR	BG-919SRS	BG-RB955S	REM40E	REM37BY	RHM40E	M41E	RHB32E	RHB37E	RHM38E	REM38E	RHU27E	REM38S	RHM38S	RHB36S	RHB32S	RHU32E	RHU32S						
TCM Part Number		N/A	530203	20902	520129	520128	520119	530574	530170	530744	530204	626296	627341	627342	627643	655707	627978	635149	634675	N/A	630049	628325	636344	646629	646630	646631	646632	654709	654708								
BARREL SIZE		UNSHLD	5/8 24	UNSHLD	5/8 24	5/8 24	5/8 24	5/8 24	UNSHLD	5/8 24	5/8 24	5/8 24	5/8 24	5/8 24	5/8 24	5/8 24	3/4 -20	UNSHLD	3/4 -20	3/4 -20	3/4 -20	5/8 24	3/4 -20	5/8 24	3/4 -20	3/4 -20	3/4 -20	3/4 -20	3/4 -20	3/4 -20							
Recommended Electrode Gap		⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕	⊕						
A-40; A-50		X	X						X	X	X							X	X	X	X																
A-65; A-75		X	X					X	X	X								X	X	X	X																
A-80		X	X						X									X	X	X	X																
A-100																																					
W-670; R-670		X	X	X				X										X	X	X	X																
C-75; C-85			X					X	X	X	X							X	X	X	X																
C-90			X					X	X	X	X							X	X	X	X																
O-200-A,B,C			X					X	X	X	X							X	X	X	X																
C-115; C-125			X					X	X	X	X							X	X	X	X																
C-145; O-300-A,B,C,D			X					X	X	X	X							X	X	X	X																
GO-300-A,B,C,D,E,F								X	X	X	X							X	X	X	X																
E-165; E-185			X					X	X	X	X							X	X	X	X																
E-225			X					X	X	X	X							X	X	X	X																
O-470-2																																					
O-470-4,11,13,13A,15			X					X																													



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TABLE 3
SPARK PLUG APPLICATION (Continued)

MANUFACTURER SPARK PLUG MANUFACTURER PART NUMBER	AUTOLITE BY UNISON								RED SEAL												
	UREM40E	UREM42E	URHM40E	UREM38E	URHM38E	URHM42E	UREB37E	URHB37E	URHB32E	SA-190	SF-190	SF-190	SF-230	SF-230	SF-270	SF-270	LF-310	LJ-310	LJ-630	SF-270-P	SF-270-P
TCM Part Number	55899	55901	55914	55902	55915	55918	55904	55906	55908	632501	632503	632504	632507	632508	632511	632512	632515	632516	632520	632514	632513
BARREL SIZE	5/8-24	5/8-24	3/4-20	5/8-24	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	UNSHLD	5/8-24	3/4-20	5/8-24	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	3/4-20	5/8-24
Recommended Electrode Gap	B	B	B	B	B	B	B	B	B	D	D	D	D	D	A	A	A	A	A	A	A
IO-550-A,B,C,D,E,F,L,N,P,R									X												
TSIO-550-A,B,C,E																					
IOF-550-B,C,D,E,F,L,N,P,R																					
O-470-A,E,I,K,L,R,S	X	X	X	X	X	X	X	X			X		X	X							
O-470-B,G,H,M,N,P	X	X	X	X	X	X	X	X					X	X	X					X	X
IO-470-C,G,R,P,T	X	X	X	X	X	X	X	X							X	X				X	X
O-470-U,T										X											
IO-470-D,E,F,H,L,M,N,S,U,V																					
FSO-470-A																					
FSO-526-A,C													X								
GSO-526-A																					
IO-470-J,K	X	X	X	X	X	X	X	X				X	X	X							
IO-360-A,AB,C,CB,D,DB,E,G, GB,H,HB,J,JB,K,KB															X	X					
TSIO-470-B,C,D																			X		
GIO-470-A																			X		
IO-346-A,B	X	X	X	X	X	X	X	X					X	X	X					X	X
LIO-470-A	X	X	X	X	X	X	X	X													X

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TABLE 3
SPARK PLUG APPLICATION (Continued)

MANUFACTURER SPARK PLUG MANUFACTURER PART NUMBER	AUTOLITE BY UNISON						RED SEAL																				
	UREM40E	UREM42E	URHM40E	UREM38E	URHM38E	URHM42E	UREB37E	URHB37E	URHB32E	SA-190	SE-190	SI-190	SE-230	SE-230	SE-270	SI-270	LE-310	LJ-310	LJ-630	SE-270-P	SI-270-P						
TCM Part Number	5/8-24	5/8-24	3/4-20	5/8-24	3/4-20	5/8-24	3/4-20	5/8-24	3/4-20	655908	655906	655904	655918	655915	655914	655902	655915	655918	655908	655911	655912	655915	655916	655920	655913	655914	
BARREL SIZE	B	B	B	B	B	B	B	B	B	3/4-20	3/4-20	5/8-24	3/4-20	3/4-20	5/8-24	5/8-24	3/4-20	3/4-20	3/4-20	5/8-24	3/4-20	5/8-24	3/4-20	5/8-24	3/4-20	5/8-24	
Recommended Electrode Gap										X									X					X			
IO-520-A,B,BA,BB,C,CB,D,E, F,J,K,L,M,MB,N,NB LIO-520-P																											
IO-360-B	X	X	X	X	X	X	X	X	X																		
L/TSIO-520-B,C,D,DB,E,EB,G, H,I,JB,K,KB,L,LB,M,N,NB,P,R, T,U,UB,VB,WB,AE,BE,CE																											
GTSIO-520-C,D,F,G,H,K,L,M,N																											
TSIO-360-A,B																											
6-285-B,C,BA,CA																											
6-320-B & T6-320-A																											
L/TSIO-360-A,AB,B,BB,C,CB, D,DB,E,EB,F,FB,G,GB,H,HB, JB,KB,LB,MB,RB,SB																											
TSIOL-550-A																											
TSIOL-550-B																											
TSIOL-550-C																											
IO-240-A,B; IOF-240-B																											

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TABLE 4
SPARK PLUG APPLICATION

MANUFACTURER	BENDIX AUTO-LITE CORPORATION												
	SPARK PLUG MANUFACTURER PART NUMBER	SH20A	SH15	SH200A	SH26	SH260	SH150	PH26	PH260	SL300A	SL350	PL350	HI5
TCM Part Number	627892	632460	632461	632462	632463	632467	635146	635147	627991	632465	635148	632274	
BARREL SIZE	5/8 -24	5/8 -24	3/4 -20	5/8 -24	3/4 -20	3/4 -20	3/4 -20	3/4 -20	3/4 -20	3/4 -20	3/4 -20	UNSHLD	
Recommended Electrode Gap	A	E	A	A	A	E	A	A	A	A	A	E	
A-40; A-50													
A-65; A-75	X	X											X
A-80	X	X											X
A-100		X											X
W-670; R-670	X	X											
C-75; C-85	X	X											X
C-90	X	X											X
O-200-A,B,C	X	X					X	X					X
C-115; C-125	X	X											X
C-145; O-300-A,B,C,D	X	X											X
GO-300-A,B,C,D,E,F	X						X	X					X
E-165; E-185	X	X											X
E-225	X	X											X
O-470-2													
O-470-4,11,13,13A,15	X	X											


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TABLE 4
SPARK PLUG APPLICATION (Continued)

MANUFACTURER	BENDIX AUTO-LITE CORPORATION												
	SPARK PLUG MANUFACTURER PART NUMBER	SH20A	SH15	SH200A	SH26	SH260	SH150	PH26	PH260	SL300A	SL350	PL350	HI5
TCM Part Number	627892	632460	632461	632462	632463	632467	635146	635147	627991	632465	635148	632274	
BARREL SIZE	5/8 -24	5/8 -24	3/4 -20	5/8 -24	3/4 -20	3/4 -20	3/4 -20	5/8 -24	3/4 -20	3/4 -20	3/4 -20	UNSHLD	
Recommended Electrode Gap	A	E	A	A	A	E	A	A	A	A	A	E	
IO-550-A,B,C,D,E,F,I,L,N,P,R											X		
TSIO-550-A,B,C,E													
IOF-550-B,C,D,E,F,L,N,P,R													
O-470-A,E,J,K,L,R,S	X	X											
O-470-B,G,H,M,N,P	X					X	X						
IO-470-C,G,R,P,T							X	X					
O-470-U,T										X			
IO-470-D,E,F,H,L,M,N,S,U,V													
FSO-470-A													
FSO-526-A,C									X				
GSO-526-A													
IO-470-J,K	X	X											
IO-360-A,AB,C,CB,D,DB,E,G, GB,H,HB,J,JB,K,KB						X	X	X					
TSIO-470-B,C,D										X			
GIO-470-A											X		
IO-346-A,B	X	X					X	X					
LIO-470-A							X	X					



ISSUED			REVISED			PAGE NO	REVISION
MO	DAY	YEAR	MO	DAY	YEAR		
02	07	2003	10	26	2004	13 of 14	B
 Teledyne Continental Motors, Inc. P.O. Box 90 Mobile Alabama • 251-438-3411						SIL 03-2	

TABLE 4
SPARK PLUG APPLICATION (Continued)

MANUFACTURER	BENDIX AUTO-LITE CORPORATION														
	SPARK PLUG MANUFACTURER PART NUMBER	TCM Part Number	BARREL SIZE	Recommended Electrode Gap	IO-520-A,B,BA,BB,C,CB,D,E,F, J,K,L,M,MB,N,NB LIO-520-P	IO-360-B	L/TSIO-520-B,C,D,DB,E,EB,G, H,J,JB,K,KB,L,LB,M,N,NB,P,R, T,U,UB,YB,WB,AE,BE,CE	GTSIO-520-C,D,F,G,H,K,L,M,N	TSIO-360-A,B	6-285-B,C,BA,CA 6-320-B & T6-320-A	L/TSIO-360-A,AB,BB,C,CB, D,DB,E,EB,F,FB,G,GB,H,HB, JB,KB,LB,MB,RB,SB	TSIOL-550-A	TSIOL-550-B	TSIOL-550-C	IO-240-A,B; IOF-240-B
	SH20A	627892	5/8 -24	A		X									
	SH15	632460	5/8 -24	E											
	SH200A	632461	3/4 -20	A											
	SH26	632462	5/8 -24	A											
	SH260	632463	3/4 -20	A											
	SH150	632467	3/4 -20	E											
	PH26	635146	3/4 -20	A					X						
	PH260	635147	5/8 -24	A					X						
	SL300A	627991	3/4 -20	A											
	SL350	632465	3/4 -20	A	X			X							
	PL350	635148	3/4 -20	A	X			X							
	HI5	632274	UNSHLD	E											

ISSUED			REVISED			PAGE NO		REVISION	
MO	DAY	YEAR	MO	DAY	YEAR	14 of 14		B	
02	07	2003	10	26	2004	SIL 03-2			



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