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SERVICE INSTRUCTION

DATE: May 13, 2016

Service Instruction No. 1301B
(Supersedes Service Instruction No. 1301A)
Engineering Aspects are
FAA Approved

SUBJECT: Identification of Primer and Fuel Injector Lines

MODELS AFFECTED: All Lycoming aircraft engines

TIME OF COMPLIANCE: Any time a fuel line for a fuel injector, primer or fuel manifold are replaced

REASON FOR REVISION: Update part numbers

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

CAUTION: DO NOT SMOKE OR HAVE AN OPEN FIRE/FLAME OR USE ANY DEVICES THAT CAN MAKE SPARKS DURING THIS REPLACEMENT PROCEDURE. FLAMES OR SPARKS CAN IGNITE THE FUEL WHICH CAN CAUSE SERIOUS INJURY OR DEATH.

Fuel lines are to be examined, typically every 100 hours of engine operation or sooner if instructed. If a fuel line is damaged, it is to be replaced with a new fuel line. **Fuel lines are not to be repaired.**

Refer to the latest revision of Service Bulletin No. 342 for fuel line routing and inspection guidelines for fuel injected engines.

Table 1 identifies those fuel lines which could have paint marking to identify the type of fuel line (primer, fuel injector line, etc.) as well the dimensions of the fuel line inside diameter on the various Lycoming engine models. Table 2 identifies superseding and superseded part numbers for fuel lines.

Table 1
Fuel Line Identification

Fuel Line P/N	Identification Marking	Type of Fuel Line	Engine Model	Inside Diameter of Tubing	
				in.	mm
61581	Red paint	Primer	All models	0.0605 to 0.0775	1.5367 to 1.9685
61581-A	Red paint	Injector	IO-540-B & -E	0.0605 to 0.0775	1.5367 to 1.9685
73842	White paint	Injector	IO-360-B1A	0.0580 to 0.0600	1.4732 to 1.5240
76356*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76357*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76358*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76359*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76360*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76361*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
76362*	No marking	Injector	IO-720-A1A	0.0865 to 0.0995	2.1971 to 2.5773
LW-12098	No marking	Primer/Injector	All models	0.0865 to 0.0995	2.1971 to 2.5773
LW-13995	Yellow paint	Injector	IO-540-B & -E	0.0585 to 0.0715	1.4859 to 1.8161
LW-16948	Green paint	Injector	IO-360-B1A	0.0650 to 0.0690	1.6510 to 1.7526

* Special Riley installation.



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Table 2
Part Numbers for Fuel Line Replacements and Supersedures

Original P/N	Replaced By **	Superseded By ★	Superseded By
61581-1	LW-12098-1-153	LW-12098-0-160	
61581-2	LW-12098-1-116	LW-12098-0-120	LW-12098-0-130
61581-3	LW-12098-0-100		
61581-4	LW-12098-1-160	LW-12098-0-160	
61581-5	LW-12098-1-146	LW-12098-0-150	
61581-7	LW-12098-1-183	LW-12098-0-190	
61581-9	LW-12098-1-170	LW-12098-0-170	LW-12098-0-180
61581-10	LW-12098-0-050		
61581-12	LW-12098-1-284	LW-12098-0-280	
61581-14	LW-12098-2-194	LW-12098-0-200	LW-12098-0-210
61581-15	LW-12098-2-200	LW-12098-0-200	LW-12098-0-210
61581-16	LW-12098-2-224	LW-12098-0-230	LW-12098-0-240
61581-17A*	LW-12098-1-224	LW-12098-0-230	LW-12098-0-240
61581-18	LW-12098-0-100		
61581-19	LW-12098-0-160		
61581-20A*	LW-13995-0-284		
61581-21A*	LW-13995-0-271		
61581-23A*	LW-13995-0-224		
61581-24A*	LW-13995-0-202		
61581-25	LW-12098-1-261	LW-12098-0-260	
61581-26	LW-12098-0-134	LW-12098-0-140	
61581-27	LW-12098-2-230	LW-12098-0-230	LW-12098-0-240
61581-28	LW-12098-1-200	LW-12098-0-200	LW-12098-0-210
61581-29	LW-12098-2-210	LW-12098-0-210	
61581-32	LW-12098-1-320	LW-12098-0-320	
61581-35	LW-12098-4-124	LW-12098-0-130	
61581-40	LW-12098-0-130		
61581-41	LW-12098-0-160		
61581-42	LW-12098-0-092	LW-12098-0-100	
73224	LW-12098-2-200	LW-12098-0-200	LW-12098-0-210
73226	LW-12098-1-160	LW-12098-0-160	
73237	LW-12098-1-180	LW-12098-0-180	
73796	LW-12098-1-134	LW-12098-0-140	
73842	LW-16948		
73963	LW-12098-1-200	LW-12098-0-200	LW-12098-0-210
73964	LW-12098-1-170	LW-12098-0-170	
74413	LW-12098-1-230	LW-12098-0-230	LW-12098-0-240
74647	LW-12098-1-210	LW-12098-0-210	
74648	LW-12098-2-180	LW-12098-0-180	
74649	LW-12098-2-276	LW-12098-0-280	
74650	LW-12098-3-260	LW-12098-0-260	
74831	LW-12098-1-240	LW-12098-0-240	

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**Table 2 (Cont.)
Part Numbers for Fuel Line Replacements and Supersedures**

Original P/N	Replaced By **	Superseded By ★	Superseded By
74850	LW-12098-4-320	LW-12098-0-320	
74851	LW-12098-4-390	LW-12098-0-390	
74853	LW-12098-3-334	LW-12098-0-340	
75091	LW-12098-3-320	LW-12098-0-320	
75092	LW-12098-4-390	LW-12098-0-390	
75093	LW-12098-2-256	LW-12098-0-260	
75094	LW-12098-3-334	LW-12098-0-340	
75469	LW-12098-0-100		
75828	LW-12098-3-252	LW-12098-0-260	
75829	LW-12098-3-412	LW-12098-0-412	
75830	LW-12098-1-174	LW-12098-0-180	
75831	LW-12098-3-350	LW-12098-0-350	
75832	LW-12098-1-092	LW-12098-0-100	
76356	LW-12098-3-310	76356	
76357	LW-12098-3-340	76357	
76358	LW-12098-3-312	76358	
76359	LW-12098-3-294	76359	
76360	LW-12098-4-390	76360	
76361	LW-12098-3-386	76361	
76362	LW-12098-3-476	76362	
LW-10419	LW-12098-4-412	LW-12098-0-412	
LW-10420	LW-12098-4-350	LW-12098-0-350	
LW-11961	LW-12098-2-210	LW-12098-0-210	
-----	LW-12098-0-012		
-----	LW-12098-0-090		
-----	LW-12098-1-100	LW-12098-0-100	
-----	LW-12098-2-100	LW-12098-0-100	
-----	LW-12098-0-116	LW-12098-0-120	LW-12098-0-130
-----	LW-12098-0-124	LW-12098-0-130	
-----	LW-12098-2-134	LW-12098-0-140	
-----	LW-12098-0-153	LW-12098-0-160	
-----	LW-12098-1-153	LW-12098-0-160	
-----	LW-12098-3-160	LW-12098-0-160	
-----	LW-12098-2-170	LW-12098-0-170	
-----	LW-12098-0-180	LW-12098-0-170	
-----	LW-12098-0-170	LW-12098-0-180	
-----	LW-12098-0-183	LW-12098-0-190	
-----	LW-12098-2-190	LW-12098-0-190	
-----	LW-12098-2-216	LW-12098-0-220	
-----	LW-12098-2-226	LW-12098-0-230	LW-12098-0-240
-----	LW-12098-2-240	LW-12098-0-240	
-----	LW-12098-3-240	LW-12098-0-240	
-----	LW-12098-0-256	LW-12098-0-260	

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**Table 2 (Cont.)
Part Numbers for Fuel Line Replacements and Supersedures**

Original P/N	Replaced By **	Superseded By ★	Superseded By
-----	LW-12098-2-264	LW-12098-0-270	
-----	LW-12098-0-274	LW-12098-0-270	
-----	LW-12098-0-276	LW-12098-0-280	
-----	LW-12098-0-284	LW-12098-0-280	
-----	LW-12098-2-284	LW-12098-0-280	
-----	LW-12098-0-296	LW-12098-0-300	
-----	LW-12098-2-296	LW-12098-0-300	
-----	LW-12098-3-296	LW-12098-0-300	
-----	LW-12098-4-310	LW-12098-0-310	
-----	LW-12098-0-334	LW-12098-0-340	
-----	LW-12098-3-336	LW-12098-0-340	
-----	LW-12098-0-210	LW-12098-0-436	

- * The “A” suffix on the part number indicates these fuel lines are used as injector lines on IO-540-B and -E series engines
- ** Replacement made to simplify the part numbering of fuel line and permit easier identification.
- ★ To standardize fuel line part numbers for inventory purposes by removing the P/N 71811 sleeves from the fuel line assembly. When ordering fuel lines, you must order separately the same quantity of P/N LW-12598 fuel line sleeves as is installed on the line that you are replacing.

① ②

NOTICE: Example: LW-xxxxx-4-412

- ① The single digit in the middle of the part number as listed in the “Replaced by” column indicates the number of sleeves previously on the fuel line.
- ② The last three digits of the fuel line part number indicate length. (412 = 41 ²/₈ inches).

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