

Service Information Letter - Fuel Systems

Small Reciprocating
Engines

No. 19, Rev. 1

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SUBJECT: Material Change to Fluorosilicone.

PURPOSE: To provide service stations with a list of part numbers affected by material change to Fluorosilicone.

- A. With the advent of the diaphragm and packing material changing to Fluorosilicone material, bulletins have been published covering the various units affected and the parts that apply to those units.
- B. We have received many requests for information concerning replacement or superseded parts. A comprehensive listing is impractical because not all parts are affected in every application. Listing by exception is impractical because it would be too unwieldy to use.
- C. However, this S.I.L. lists information pertaining to diaphragms currently being used in commercial main fuel controls, fuel injectors and carburetors which were affected by changes in material. This listing includes the following information:
 - (1) Indicates if the part number is an assembly or an individual component of an assembly.
 - (2) If it is an assembly, the diaphragm component is identified.
 - (3) If it is an individual component, the assembly is identified.
 - (4) Indicates the replacement part number.
 - (5) Indicates whether the part is saleable.
- D. Notes for Saleable, Component Part Number and Assembly Part Number columns.
 - (1) A part number is listed as "Saleable" for one of the following reasons:
 - (a) If a component of an assembly can be installed in an end item as the part number or when it is part of a separable assembly when all components have been made procurable.
 - (b) If an assembly part number can be installed in an end item and there are no prohibitions against its use.



- (2) Being listed as "Saleable" does not mean the part is available as a stock number.
- (3) In many cases, both assemblies and their components are listed as saleable due to changes made in design which permits replacement of diaphragm only. These are covered by service bulletins where riveted design has been replaced by a locking screw attachment.
- (4) A few assemblies have gone through a series of mandatory design changes. In these cases, only the final assembly number is shown as saleable. The older part numbers must not be used.

E. Material Changes.

- (1) Many applications have gone through a number of material changes because of:
 - (a) Unavailability of basic compounds;
 - (b) Improved performance; or
 - (c) Potential unavailability of Buna-N rubber if oil shortage occurs.
- (2) Many older diaphragms have Fluorosilicone rubber replacements which have never yet been produced because inventories of the old part were adequate and basic compounds were still available. Both old and new part numbers are shown as saleable; however, the new part may not yet be available.

F. Certain part numbers have gone through several stages of replacement. In these cases, the "comments" column refers to another part number.

G. Always use the applicable overhaul manual, IPL and applicable bulletins as the final guide as to diaphragm numbers required.

BENDIX DIAPHRAGM INFORMATION

Part Number	Type Assy Comp	Usage Ini GTEC Carble	Sale Carble	Component Part Number	Assembly Part Number	Replaced By	Comments
P-61343	X		X	390302			
137705	X		X				
137707	X		X				
196094	X	X	Yes	196097			
196097	X	X	No		196094		
198855	X	X	Yes				
2520328	X	X	Yes	2521519			
2520439	X	X	Yes		2525013		
2520708	X	X	Yes	2520711		2540919	Ref. Bull. RS74 Components saleable.
2520711	X	X	No		2520708	2540887	
2520823	X	X	No			2525361	(see 2525361)
2520887	X	X	No	2520888		2523067	(see 2523067)
2520888	X	X	No		2520887		
2520890	X	X	No			2523068	(see 2523068)
2520891	X	X	No		2520890		
2521519	X	X	No		2520328		
2521708	X		X	383454		2540920	Components saleable.
2521720	X	X	X	367645	2521721, 2539208	2540888	
2521721	X	X	X	2521720		2540921	
2521778	X	X	No		2521779	2540889	
2521779	X	X	No	2521778		2540922	
2522322	X	X	No			2540895	
2522445	X	X	Yes				
2523027	X	X	No		2538313		
2523065	X	X	No			2523322	
2523066	X	X	No			2523320	

Part Number	Type	Usage		Sale- Carriage	Component Part Number	Assembly Part Number	Replaced By	Comments
		Assy Comp	Ini					
2523067	X	X	X	No			2523307	(see 2523307)
2523068	X	X	X	No			2523426	(see 2523426)
2523123	X		X	Yes		2523125		
2523125	X		X	Yes	2523123			
2523307	X	X	X	No	2523320		2529471	(see 2529471)
2523320	X	X	X	No		2523307		
2523322	X	X	X	No		2523426		
2523426	X	X	X	No	2523322		2529470	(see 2529470)
2523571	X	X	X	No		2529470, 2538295		
2523592	X	X	X	No	2523571		2529470	(see 2529470)
2523866	X	X	X	Yes				
2523956	X	X	X	No	2523965		2525312	(see 2525312)
2523957	X	X	X	No			2529298	(see 2529298)
2523964	X	X	X	No		2538407, 2539691		
2523965	X	X	X	No		2523956		
2525013	X		X	Yes	2520439			
2525311	X	X	X	No		2525312		
2525312	X	X	X	No	2525311		2529293	(see 2529293)
2525361	X	X	X	No			2526388	
2526388	X	X	X	Yes				
2526415	X	X	X	No		2529471, 2539559		
2526477	X		X	Yes				
2529254	X		X	Yes	2529255			
2529255	X	X	X	No		2529254		
2529291	X	X	X	No		2529293, 2539806		

Part Number	Type	Usage		Sale- Carriage	Component Part Number	Assembly Part Number	Replaced By	Comments
		Ini	GTG					
2529293	X	X		No	2529291		2539806	(see 2539806)
2529298	X	X		No	2523964		2538407	
2529470	X	X		No	2523571		2538295	
2529471	X	X		No	2526415		2539559	(see 2539559)
2529924	X	X		Yes				DP-F controls only
2537023	X	X		No	2537024		2539814	(see 2539814)
2537024	X	X		No		2537023, 2538528, 2539814		
2537026	X	X		No	2537027		2538313	
2537027	X	X		No		2537026, 2538313		
2537053	X	X		No			2539152	
2537695	X	X		Yes				
2537747	X	X		Yes				
2538295	X	X		Yes	2523571			
2538313	X	X		Yes	2537027			
2538407	X	X		No	2523964		2539616	(see 2539616)
2538419	X	X		No	2529291		2539806	(see 2539806)
2538420	X	X		Yes	2539607			
2538420	X	X		Yes				
2538528	X	X		Yes	2537024		2539691 on RSA-10B1 P/L 2524275-11, P/L 2524505 only	
2538969	X		X	No		2538986, 2538987	2539814	(see 2539814)
2538986	X		X	No			2540890	
2538987	X		X	No	2538969		2540923	
2539152	X	X		Yes	2538969		2540924	
2539208	X	X		No	2521720, 367645		2540925	
2539559	X	X		No	2526415		2541801	

Part Number	Type Assy Comm	Usage		Sale Init/CTFC/Carb/able	Component Part Number	Assembly Part Number	Replaced By	Comments
		Init	CTFC/Carb/able					
2539607		X	X	No		2538420, 2539616		
2539616	X		X	No	2539607		2538420	
2539691	X		X	Yes	2523964			
2539806	X		X	No	2529291		2541803	
2539814	X		X	No	2537024		2541802	
2540053		X	X	Yes				
2540441		X	X	No		2540442		
2540442	X		X	Yes	2540441			
2540866		X		No		2540871		
2540867		X	X	No		2540872		
2540868		X	X	Yes				
2540869		X	X	Yes				
2540871	X		X	Yes	2540866			
2540872	X		X	Yes	2540867			
2540876		X	X	No		2540897		
2540877		X	X	Yes				Ref. Bulletin RS81
2540878		X	X	Yes				
2540879		X	X	No		2540915		
2540880		X	X	Yes		2540916		Ref. Bulletin RS72
2540881		X	X	Yes				
2540882		X		Yes		2540896, 2540898; 2540899; 2540900; 2540901; 2540906; 2540911, 2540917; 2540920		See component column to find assys.
2540883		X		No		2540909		
2540884		X		No		2540918		
2540885		X		No		2540908, 2540912		
2540886		X		No		2540903, 905, 913		

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Part Number	Type Assy Comp	Usage		Sale Carbale	Component Part Number	Assembly Part Number	Replaced By	Comments
		Ini	GTEC					
2540887	X	X		Yes		2540919		Ref. Bulletin RS74
2540888	X	X	X	Yes		2540921, 2540925		Ref. Bulletin RS73
2540889	X	X		No		2540922		
2540890	X		X	No		2540923, 2540924, 2540928		
2540895	X	X		Yes				
2540896	X			Yes	2540882			Components saleable
2540897	X		X	Yes	2540876			
2540898	X		X	Yes	2540882			Components saleable
2540899	X		X	Yes	2540882			Components saleable
2540900	X		X	Yes	2540882			Components saleable
2540901	X			Yes	2540882			Components saleable
2540902	X		X	Yes	2540882			Components saleable
2540903	X		X	Yes	2540886			
2540904	X		X	Yes	2540882			Components saleable
2540905	X		X	Yes	2540886			
2540906	X		X	Yes	2540882			Components saleable
2540908	X		X	Yes	2540885			
2540909	X		X	Yes	2540883			
2540911	X		X	Yes	2540882			Components saleable
2540912	X		X	Yes	2540885			
2540913	X		X	Yes	2540886			
2540914	X	X		Yes	2540877			
2540915	X	X		Yes	2540879			
2540916	X	X		Yes	2540880			
2540917	X		X	Yes	2540882			Components saleable

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Part Number	Type	Usage	Salvageable	Component Part Number	Assembly Part Number	Replaced By	Comments
2540918	X		X	2540884			
2540919	X	X	Yes	2540887			Components saleable
2540920	X		X	2540882			Components saleable
2540921	X		X	2540888			
2540922	X	X	Yes	2540889			
2540923	X		X	2540890			
2540924	X		Yes	2540890			
2540925	X		X	2540888			
2540926	X		No		2540929, 367150		
2540927	X		X	2540926	2540927	2540924	
2540928	X		X	2540890			
2540929	X		No	2540926		2540923	
2541801	X	X	Yes	2526415			
2541802	X	X	Yes	2537024			
2541803	X	X	Yes	2529291			
2542368	X		No		2542369		
2542369	X		Yes	2542368			
2630374	X		X		2630376		
2630375	X		X	2630374			
2630381	X		X	2630379			
2630387	X		X				
2630391	X		X		2630392		
2630595	X		X	2630552			
2630596	X		X	2630552			

BENDIX DIAPHRAGM INFORMATION

Part Number	Type	Assy Comp	Usage	Salv	Component Part Number	Assembly Part Number	Replaced By	Comments
2633097		X	X	No				
2642713	X		X	Yes	2642712			
2642722	X		X	Yes				
2644993	X		X	Yes		366317/365231 VI & Diaph.		
343451	X		X	Yes				
360817	X		X	No		360825		
360825	X		X	Yes	360817			
364446	X		X	No	383237		2521721	
364950	X		X	No		364966	2540876	
364955	X		X	Yes	383454		2540896	Components saleable
364966	X		X	Yes	364950		2540897	
364969	X		X	Yes	383454		2540898	Components saleable
365365	X		X	No		365366		
365366	X		X	Yes	365365			
365598	X		X	No	384701		2538987	(see 2538987)
365843	X		X	No			2642722	
365938	X		X	Yes	383454		2540899	Components saleable
366150	X		X	Yes	383454		2540900	Components saleable
366225	X		X	Yes	383454		2540901	Components saleable
366258	X		X	Yes	383454		2540902	Components saleable
366264	X		X	Yes	384714		2540903	
366296	X		X	Yes	383454		2540904	Components saleable
366343	X		X	Yes	384714		2540905	
366363	X		X	Yes	366370			

BENDIX DIAPHRAGM INFORMATION

Part Number	Type		Usage		Sale- able	Component Part Number	Assembly Part Number	Replaced By	Comments
	Asy	Comp	Int	GTFC					
367675	X		X		Yes	367686		2540915	
367686		X	X		No		367675	2540879	
367758	X		X		Yes	367759		2540916	
367759		X	X		Yes		367758	2540880	Ref. Bulletin RS72
367760		X	X		Yes			2540881	
383440	X				Yes	383237		2539208	(see 2539208)
383454		X			Yes		2521708, 364955, 364960, 364983, 366150, 366225, 366258, 366264, 366296, 366628, 366975, 384675	2540882	
383975		X			No		366876	2540883	
383979		X			No		385026	2540884	
384675	X				Yes	383454		2540917	Components saleable
384700	X				Yes	384701		2538986	(see 2538986)
384701		X			No		367118, 365598, 384700	2540926	
384710	X				No	384711	366983, 366752, 384710	366485	
384711		X			No			2540885	
384714		X			No		367111, 366343, 366264	2540886	
385026	X				Yes	383979		2540918	
390302	X				No		P-61343		
394354		X			No			365843	(see 365843)
394539		X			Yes				
394589		X			No			2630387	
394598		X			Yes		396026		
394646	X				Yes	394616			
394956		X			Yes		364258, 398060, 397946		
396719		X			Yes				

BENDIX DIAPHRAGM INFORMATION

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