

**96900 to 96999**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 96900 SERIES ENGINES REPLACED WITH  
 STANDARD SERVICE ENGINES**

In most cases, the Original Type numbers shown may be replaced by a Service Type Number without making any changes. Necessary changes of engine parts such as crankshafts, reduction parts, blower housings, etc., are noted. Other differences, such as mufflers, elbows, deflectors, etc., are not listed but are very important for safety and engine performance. Be sure the exhaust system on the replacement engine duplicates the system originally selected by the equipment manufacturer. Parts that are suitable for additional use should be transferred. Before making any conversion, check the data shown in the column labeled "REMOVE, ADD and NOTE." See if the changes, which are shown, are actually necessary on the application in question. Often a standard service engine will be a WORKABLE replacement without converting to such things as a special fuel tank or starter position.

If the crankshaft number does not appear in the "Original Engine" column, consult the Illustrated Parts List for the correct service replacement crankshaft number.

**Engine Replacement Notes:**

**NOTE 73:** Transfer Flywheel Assembly to the replacement engine.

**NOTE 88:** Transfer Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service or add new parts as required

**Short Block Notes:**

The SHORT BLOCK part number shown, is the assembly which can be used to rebuild the Original Type Number. If a letter appears after the short block number, it indicates the short block must be modified. The change denoted by each letter is as follows:

**NOTE FF:** Change Drive Shaft in Short Block. Remove 230948. Add 230831.

**NOTE II:** Change Drive Shaft in Short Block. Remove 230831. Add 230948.

**NOTE PP:** Change Drive Shaft in Short Block. Remove 230831. Add 231213.

**96900 to 96999**

Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block		
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes	
0105	96902	492748	9M902	0015					88		All	3200	398210		
0106	96902	492086	9M902	0016					88		All	3200	398211		
0107	96902	492748	9M902	0015							All	3600	398210		
0108	96902	492748	9M902	0015							All	3300	398210		
0109	96902	492086	9M902	0016							All	3200	398211		
0110	96902	492748	9M902	0015					73 88		All	3200	398210		
0111	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398214	
0112	96902	492748	9M902	0015					73		All	3000	398210		
0113	96902	492748	9M902	0015							All	3500	398210		
0114	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398214	
0115	96902	492748	9M902	0015					88		All	3200	398210		
0116	96902	492748	9M902	0015					88		All	3600	398210		
0117	96902	492748	9M902	0015							All	3300	398210		
0118	96902	492748	9M902	0015							All	3300	398210		
0119	96902	492086	9M902	0016							All	3200	398211		
0120	96902	492086	9M902	0016							All	3200	398211		
0121	96902	492748	9M902	0015							All	3300	398210		
0122	96902	492086	9M902	0016							All	3600	398211		
0123	96902	492086	9M902	0016					73 88		All	3200	398211		
0124	96902	494564	9M902	0018							All	3600	398213		
0125	96902	492748	9M902	0015					88		All	3200	398210		
0126	96902	494564	9M902	0018							All	3200	398213		
0127	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	PP
0128	96906	494564	No Replacement Repair With Short Block and/or Individual Parts									All	3500	398213	
0129	96902	492086	9M902	0016							All	3600	398211		
0130	96902	492748	9M902	0015					88		All	3200	398210		

96900 to 96999

Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block		
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes	
0153	96902	492086	9M902	0016					88		All	3200	398211		
0154	96902	492086	9M902	0016					73		All	3500	398211		
									88						
0155	96902	492086	9M902	0016					73		All	3200	398211		
									88						
0156	96902	494564	9M902	0018							All	3600	398213		
0157	96902	492748	9M902	0015					73		All	3500	398210		
									88						
0158	96902	493618	9M902	0018					73		All	3600	398213		
									88						
0159	96902	492748	9M902	0015					73		All	3600	398210		
0160	96902	492748	9M902	0015							All	3200	398211		
0213	96902	492086	9M902	0016							All	3600	398211		
3104	96902	492748	9M902	0015							All	3200	398210		
3106	96902	492086	9M902	0016							All	3200	398211		
3111	96902	492086	9M902	0016							All	3100	398211		
3112	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398216	
3113	96902	492748	9M902	0015							All	3200	398210		
3114	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	
3115	96902	492748	9M902	0015							All	3100	398210		
3116	96902	492748	9M902	0015							All	3200	398210		
3117	96902	492748	9M902	0015					88		All	3200	398210		
3118	96902	492086	9M902	0016							All	3400	398211		
3119	96902	492748	9M902	0015							All	3100	398210		
3120	96902	493846	9M902	0018							All	3100	398213		
3121	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398217	
3122	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	FF
3123	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	
3124	96902	493846	9M902	0018							All	3100	398213		
3125	96902	493846	9M902	0018							All	3100	398213		
3126	96902	492086	9M902	0016							All	3100	398211		
3127	96902	492086	9M902	0016							All	3100	398211		
3128	96902	492086	9M902	0016							All	3100	398211		
3129	96902	492748	9M902	0015							All	3100	398210		
3130	96902	492748	9M902	0015							All	3100	398210		
3131	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	PP
3132	96902	492748	9M902	0015							All	3200	398210		
3133	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3000	398215	FF
3134	96982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	FF
3135	96902	492748	9M902	0015							All	3400	398210		
3136	96902	492748	9M902	0015							All	3100	398210		
3137	96902	493846	9M902	0018							All	3100	398213		
3138	96902	493618	No Replacement Repair With Short Block and/or Individual Parts									All	3300	398212	
3139	96902	493618	No Replacement Repair With Short Block and/or Individual Parts									All	3300	398212	
3140	96902	492748	9M902	0015							All	3100	398210		
3141	96902	492748	9M902	0015							All	3100	398210		
3142	96902	492086	9M902	0016							All	3100	398211		
3143	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398216	II
3144	96902	492086	9M902	0016							All	3100	398211		
3145	96902	492086	9M902	0016							All	3100	398211		
3146	96902	493846	9M902	0018							All	3100	398213		
3147	96902	492748	9M902	0015							All	3200	398210		
3148	96902	492086	9M902	0016							All	3100	398211		
3149	96982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398217	II
3150	96902	493846	9M902	0018							All	3300	398213		
3151	96902	492748	9M902	0015							All	3300	398210		

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Original Engine			Make From		Remove		Add		Note	Change to Type	Trim	RPM	Short Block	
Type	Model	Crank	Model	Type #	Qty	Part #	Qty	Part #					Part #	Notes
3152	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215	FF	
3154	96902	492748	9M902	0015					88		All	3500	398210	
3155	96902	492748	9M902	0015							All	3200	398210	
3156	96902	492086	9M902	0016					88		All	3200	398211	
3157	96902	492086	9M902	0016							All	3100	398211	
3158	96902	492748	9M902	0015							All	3200	398210	
3159	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215	PP	
3162	96902	492086	9M902	0016					88		All	3000	398211	
3163	96902	492748	9M902	0015					88		All	3200	398210	
3164	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215	PP	
3175	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3200	398215	FF	
3180	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3200	398214		
3184	96902	492748	9M902	0015					73		All	3200	398210	
3185	96902	492748	9M902	0015							All	3200	398210	
4001	96902	492748	9M902	0015					88		All	3100	398210	
4002	96902	492748	9M902	0015							All	3500	398210	
4003	96902	493846	9M902	0018							All	3100	398213	
4004	96902	492748	9M902	0015	1	495046	1	496278			All	3200	398210	
4005	96902	492086	9M902	0016	1	495046	1	496278			All	3200	398211	
7000	96902	492748	9M902	0015							All	3200	398210	
7001	96902	492086	9M902	0016							All	3100	398211	
7015	96902	492748	9M902	0015							All	3100	398210	
7016	96902	492086	9M902	0016							All	3100	398211	
7018	96902	493846	9M902	0018							All	3100	398213	
7050	96982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215		
7051	96982	492086	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398214		