

294400 to 294499

SERVICE ENGINE



SALES MANUAL

**MODEL 294400 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 15:** For all Go-Karts use only a Model 136200 series engine as a replacement, regardless of the original Model.
- NOTE 23:** If the original engine is equipped with a Six Pin Wiring Harness transfer to the replacement engine.
- NOTE 41:** Original engine was equipped for or with a 12 volt or 120 volt Gear Drive Starter and/or with alternator only. Transfer all related parts as required.
- NOTE 48:** Remove Fuel Tank Assembly from replacement engine.
- NOTE 69:** Transfer Blower Housing, Flywheel and Booster Fan Group to replacement engine.
- NOTE 70:** Transfer Booster Fan and/or Stub Shaft Assembly to the replacement engine.
- NOTE 72:** Transfer Exhaust Ducting and/or Muffler Assembly from original engine to replacement engine.
- NOTE 77:** Transfer Fuel Pump and related parts from original engine to replacement engine.
- NOTE 96:** Transfer the Air Cleaner Assembly and related parts to the replacement engine.
- NOTE 105:** Transfer the Governor Spring and Governor Idle Spring to the replacement engine.
- NOTE 108:** Transfer the Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service, or add new parts as required. In some cases it maybe necessary to transfer the Oil Filter Adapter to the replacement engine.

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:

294400 to 294499

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
0030	294447	807589	305447	0079					15 69 108		All	3600	494054	
0040	294447	807589	305447	0079	1	805460	1	805462	15 69 108		01 02	3200 3200	494054	
0064	294447	807589	305447	0079	1	805460	1	805462	15 69 108		All	3300	494054	
0107	294447	807589	305447	0023					15 69 108		01	3600	494054	
0108	294447	807589	305447	0079					15 69 108		01	3600	494054	
0109	294447	807589	305447	0079					15 69 108		01	3600	494054	
0111	294447	807589	305447	0079					15 69 108		01	3300	494054	

294400 to 294499

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
0313	294447	807589	305447	0023					15 69 108		01	3600	494054	
0314	294447	807745	305447	0023	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0315	294442	807589	305442	0027					15 69 108		01	3600	494054	
0316	294447	807589	305447	0023					15 69 108		01	3600	494054	
0318	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0319	294447	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0320	294442	807745	305442	0027	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0325	294447	807590	356447	0077					15 69 108		01	3600	494056	
0326	294447	807589	305447	0075	1	805453	1	805454	15 69 108		01	3600	494054	
					1	805460	1	805459						
0340	294447	807589	305447	0079	1	805460	1	805462	15 69 108		01	3200	494054	
0342	294447	807745	305447	0078					15 69 108		01 02	3750 3750	494055	
0346	294447	807589	305447	0075					15 69 108		01 02	3600 3600	494054	
0347	294442	807589	305442	0027					15 69 108		01 02	3600 3600	494054	
0348	294447	807589	305447	0068					15 69		01 02	3600 3600	494054	
0354	294447	807745	305447	0023	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0358	294447	807589	305447	0023					15 69 108		01 02	3600 3600	494054	
0359	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0360	294442	807745	305442	0027	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0361	294442	807745	305442	0027	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						

294400 to 294499

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
0363	294442	807589	305447	0075					15 69 108		01	3600	494054	
0364	294447	807589	305447	0079	1	805460	1	805462	15 69 108		All	3300	494054	
0365	294442	807589	305442	0027					15 69 108		01 02	3600 3600	494054	
0370	294442	807589	305442	0027					15 69 108		01 02	3600 3600	494054	
0371	294442	807589	305447	0075					15 69 108		01	3600	494054	
0374	294447	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0375	294447	807589	305447	0075					15 69 108		01 02	3600 3600	494054	
0376	294447	807589	305447	0023					15 69 108		01	3600	494054	
0377	294447	807590	305447	0077					15 69 108		01	3600	494056	
0378	294447	807745	305447	0078					15 69 108		01	3750	494055	
0379	294447	807590	305447	0077					15 69 108		01	3600	494056	
0385	294447	807589	305447	0023					15 69 108		01 02	3600 3600	494054	
0408	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0409	294442	807745	305442	0027	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0410	294447	807589	305447	0079					15 69 108		01	3600	494054	
0411	294442	807589	305442	0027					15 69 108		01	3600	494054	
0412	294447	807589	305447	0079	1	805460	1	805462	15 69 108		01	3300	494054	
0413	294447	807589	305447	0079					15 69 72 108		01	3600	494054	
0414	294440	807589	305447	0079					15 69 96 108		01	3600	494054	

294400 to 294499

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
0416	294442	807589	305447	0075					15 69 108		01	3800	494054	
0417	294447	807745	305447	0023	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0418	294447	807745	305447	0023	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0419	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0420	294440	807589	305447	0079					15 69 96 108		01	3600	494054	
0421	294447	807745	305447	0023	1	692161	1	692163	15 69 108		01	3150	494054	
					1	805453	1	805451						
					1	805460	1	805456						
0422	294447	807589	305447	0023	1	805460	1	805464	15 69 108		01	2600	494054	
0423	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0424	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0425	294442	807745	305447	0078	1	805450	1	805451	15 69 108		01	3150	494055	
					1	805455	1	805456						
0426	294442	807745	305447	0078	1	805455	1	805451	15 69 108		01	3150	494055	
					1	805460	1	805456						
0427	294442	807745	305442	0027	1	692161	1	692163	15 69 108		01	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
0428	294446	807806	305447	0075	1	692161	1	692165	15 69 96 108		01	3600		
0429	294447	807745	305447	0078	1	805455	1	805451	15 69 108		01	3150	494055	
					1	805460	1	805456						
0430	294447	807589	305447	0023					15 69 108		01	3600	494054	
0431	294447	807589	305447	0023					15 69 108		01	3600	494054	
0432	294447	807589	305447	0023	1	805460	1	805463	15 69 108		01	3000	494054	
0433	294442	807745	305447	0078	1	805455	1	805451	15 69 108		01	3150	494055	
					1	805460	1	805456						

294400 to 294499

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
0434	294447	807745	305447	0078	1	805455	1	805451	15		01	3150	494055	
					1	805460	1	805456	69					
									108					
0435	294442	807745	305447	0078	1	805455	1	805451	15		01	3150	494055	
					1	805460	1	805456	69					
									108					
0437	294447	807589	305447	0079					15		All	3600	494054	
									69					
									70					
									108					
0438	294447	807745	305447	0078	1	805455	1	805451	15		01	3150	494055	
					1	805460	1	805456	69					
									108					
0439	294442	807745	305447	0078	1	805455	1	805451	15		01	3150	494055	
					1	805460	1	805456	69					
									108					
0440	294447	807745	305447	0023	1	692161	1	692163	15		01	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					
0441	294446	807589	305447	0075					15		01	3600	494054	
									69					
									108					
0442	294447	807589	305447	0023					15		01	3600	494054	
									69					
									72					
									108					
0443	294442	807745	305442	0027	1	692161	1	692163	15		01	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					
0444	294447	807745	305447	0023	1	692161	1	692163	15		01	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					
0445	294447	807589	305447	0079					15		01	3600	494054	
									69		02	3600		
									72					
									108					
0446	294442	807590	305447	0077					15		01	3600	494056	
									69					
									108					
0447	294447	807589	305447	0075					15		01	3600	494054	
									69					
									108					
0448	294447	807745	305447	0078					15		01	3750	494055	
									69					
									108					
0449	294446	807806	305447	0075	1	805460	1	805456	15		01	3600		
					1	808417	1	808421	69					
									96					
									108					
0450	294447	807589	305447	0075					15		01	3600	494054	
									69					
									108					
0457	294442	807745	305442	0027	1	692161	1	692163	15		01	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					
0458	294442	807745	305442	0027	1	692161	1	692163	15		01	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					

294400 to 294499

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
0461	294442	807745	305447	0078	1	805450	1	805451	15		01	3150	494055	
					1	805455	1	805456	69		02	3150		
									108					
0462	294446	807806	305447	0075	1	692161	1	692165	15		01	2650		
					1	805460	1	805456	69					
									96					
									108					
0478	294440	807589	305447	0079					15		01	3600	494054	
									69					
									96					
									108					
0479	294442	807589	305447	0023					15		01	3600	494054	
									69					
									108					
0480	294442	807589	305447	0023					15		01	3400	494054	
									69					
									108					
0481	294442	692161	305442	0027					15		All	3400	494054	
									69					
									108					
0490	294442	807589	305442	0027					15		01	3600	494054	
									69					
									72					
									108					
1013	294447	807589	305447	0023					15		A1	3600	494054	
									69					
									108					
1014	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					
1015	294442	807589	305442	0027					15		A1	3600	494054	
									69					
									108					
1018	294442		305447	0078	1	805450	1	805451	15		All	3150	494055	
					1	805455	1	805456	69					
									108					
1019	294447		305447	0078	1	805450	1	805451	15		A1	3150	494055	
					1	805455	1	805456	69		E1	3150		
									108					
1020	294442		305442	0027					15		A1	3600	494054	
									69		E1	3600		
									108					
1025	294447		305447	0077					15		A1	3600	494056	
									69		E1	3600		
									108					
1026	294447		305447	0075					15		A1	3600	494054	
									69		E1	3600		
									108					
1027	294447		305447	0005					15		A1	3600		
									69		E1	3600		
									108					
1028	294447		305447	0079					15		A2	3300	494054	
									41		E2	3300		
									69					
									108					
1029	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055	
					1	805453	1	805451	69					
					1	805460	1	805456	108					

294400 to 294499

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
1042	294447		305447	0078	1	805450	1	805451	15		A1	3750	494055	
					1	805455	1	805456	69		E1	3750		
									108					
1046	294447		305447	0075					15		A2	3600	494054	
									69		E2	3600		
									108					
1047	294442	807589	305442	0027					15		A1	3600	494054	
									69		A2	3600		
									108					
1048	294447	807589	305447	0068					15		A1	3600	494054	
									69		A2	3600		
1049	294442		305442	0027					15		A1	3600	494054	
									69		E1	3600		
									108					
1054	294447	807745	305447	0023	1	805453	1	692163	15		A1	3150	495055	
					1	805460	1	805451	69					
					1	808417	1	805456	108					
1055	294442	807589	305442	0027					15		A1	3600	494054	
									69					
									108					
1056	294447		305447	0023					15		A1	3600	494054	
									69		E1	3600		
									108					
1058	294447		305447	0068					15		All	3600	494054	
									69					
									108					
1059	294442	807745	305447	0078	1	805450	1	805451	15		A1	3150	494055	
					1	805455	1	805456	69					
									108					
1060	294442	807745	305447	0023	1	805453	1	805451	15		A1	3150	494055	
					1	805460	1	805456	69					
					1	808417	1	808419	108					
1061	294442	807745	305442	0027	1	805453	1	805451	15		A1	3150	494055	
					1	805460	1	805456	69					
					1	808417	1	808419	108					
1063	294442	807589	305447	0075					15		A1	3600	494054	
									69					
									108					
1064	294447		305447	0075	1	805460	1	805462	15		A1	3300	494054	
									69		E1	3300		
									108					
1065	294442	807589	305442	0027					15		A1	3600	494054	
									69		A2	3600		
									108					
1070	294442	807589	305442	0027					15		A1	3600	494054	
									69		A2	3600		
									108					
1074	294447		305447	0078	1	805450	1	805451	15		A1	3150	494055	
					1	805455	1	805456	69		E1	3150		
									108					
1075	294447		305447	0075					15		All	3600	494054	
									69					
									108					
1076	294447	807589	305447	0023					15		A1	3600	494054	
									69					
									108					
1077	294447		305447	0077					15		A1	3600	494056	
									69		E1	3600		
									108					

294400 to 294499

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
1078	294447		305447	0078					15 69 108		A1	3750	494055	
1085	294442		305447	0023					15 69 108		All	3600	494054	
1086	294447	807589	305447	0075					15 69 108		All	3600	494054	
1108	294442	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055	
					1	805455	1	805456						
1109	294442	807745	305442	0027	1	805453	1	805451	15 69 108		A1	3150	494055	
					1	805460	1	805456						
					1	808417	1	808419						
1110	294447		305447	0079					15 69 70 72 108		A1 E1	3600 3600	494054	
1111	294442	807589	305442	0027					15 69 108		A1	3600	494054	
1113	294446	807589	305447	0075					15 69 108		A1	3600	494054	
1115	294442	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055	
					1	805455	1	805456						
1116	294447	807589	305447	0023					15 69 108		A1	3600	494054	
1117	294447	807745	305447	0023	1	692161	1	692165	15 69 108		A1	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1118	294447	807745	305447	0023	1	692161	1	692165	15 69 108		A1	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1119	294442	807589	305442	0027					15 41 69 108		A1	3600	494054	
1120	294440	807589	305447	0079					15 69 96 108		A1	3600	494054	
1121	294447	807745	305447	0023	1	692161	1	692165	15 69 108		A1	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1122	294447		305447	0023					15 69 108		A1 E1	3600 3600	494054	
1123	294442		305447	0078	1	805450	1	805451	15 69 108		A1 E1	3150 3150	494055	
					1	805455	1	805456						
1124	294442	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055	
					1	805455	1	805456						

294400 to 294499

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
1125	294442	807745	305442	0027	1	692161	1	692165	15		A1	3150	494055	
						1	805453	1	805451	69				
						1	805460	1	805456	108				
1126	294442	807745	305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69				
										108				
1127	294442	807745	305442	0027	1	692161	1	692165	15		A1	3150	494055	
						1	805450	1	805451	69				
						1	805460	1	805456	108				
1128	294446	807806	305447	0075	1	692161	1	692165	15		A1	3600		
									69					
									96					
									108					
1129	294447	807745	305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69				
										108				
1130	294447	807589	305447	0023					15		A1	3600	494054	
									41					
									69					
									108					
1131	294447	807589	305447	0023					15		A1	3600	494054	
									69					
									108					
1132	294447	807589	305447	0023	1	805460	1	805464	15		A1	3000	494054	
									69					
									108					
1133	294442	807745	305447	0078	1	805450	1	805451	15		A1	3200	494055	
						1	805455	1	805456	69				
										108				
1134	294447		305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69	E1	3150		
										108				
1135	294442		305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69	E1	3150		
										108				
1136	294442	807745	305442	0027	1	692161	1	692163	15		A1	3150	494055	
						1	805453	1	805451	69				
						1	805460	1	805456	108				
1137	294447	807589	305447	0079					15		A1	3600	494054	
									69					
									70					
									108					
1138	294447		305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69	E1	3150		
										108				
1139	294442	807745	305447	0078	1	805450	1	805451	15		A1	3150	494055	
						1	805455	1	805456	69				
										108				
1140	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055	
						1	805460	1	805451	69				
						1	805463	1	805456	108				
1141	294446	807589	305447	0075					15		A1	3600	494054	
									69					
									108					
1142	294447	807589	305447	0023					15		A1	3600	494054	
									69					
									72					
									108					

294400 to 294499

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	
1143	294442	807745	305442	0027	1	692161	1	692163	15		A1	3150	494055		
						1	805460	1	805451	69					
						1	805463	1	805456	108					
1144	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055		
						1	805453	1	805451	69					
						1	805460	1	805456	108					
1145	294447		305447	0079					15		All	3600	494054		
									69						
									72						
									108						
1146	294446		305447	0075	1	692161	1	692165	15		A1	3200			
						1	805460	1	805463	69		E1	3200		
									108						
1147	294447	807589	305447	0075					15		A1	3600	494054		
									69						
									108						
1148	294447	807745	305447	0078					15		A1	3750	494055		
									69						
									108						
1149	294446	807806	305447	0075	1	692161	1	692165	15		A1	3200			
						1	807860	1	805456	69					
									108						
1150	294447	807589	305447	0075					15		A1	3600	494054		
									69						
									108						
1151	294447	807589	305447	0023					15		A1	3600	494054		
									41						
									69						
									108						
1152	294442	807589	305442	0027					15		A1	3600	494054		
									69						
									108						
1153	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055		
						1	805453	1	805451	69					
						1	805460	1	805456	108					
1154	294442	807589	305442	0027	1	805460	1	805456	15		A1	2800	494054		
									69						
									108						
1155	294447		No Replacement Repair With Short Block and/or Individual Parts									A1	3600	494054	
											E1	3600			
1156	294447	807745	305447	0023	1	692161	1	692163	15		A1	3150	494055		
						1	805453	1	805451	69					
						1	805460	1	805456	108					
1157	294442	807745	305442	0027	1	692161	1	692163	15		A1	3150	494055		
						1	805453	1	805451	69					
						1	805460	1	805456	108					
1158	294442	807745	305442	0027	1	692161	1	692163	15		A1	3150	494055		
						1	805453	1	805451	69					
						1	805460	1	805456	108					
1159	294442	807745	305447	0078	1	805450	1	805451	15		A1	3150	494055		
						1	805455	1	805456	69					
									108						
1161	294442		305447	0078	1	805450	1	805451	15		All	3150	494055		
						1	805455	1	805456	69					
									108						
1162	294446	807806	305447	0075	1	692161	1	692165	15		A1	2650			
						1	805460	1	805464	69					
									108						

294400 to 294499

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		
1163	294447	807589	305447	0079	1	805460	1	805464	15 69 108		A1	2700	494054			
1165	294447		305447	0023	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055			
1166	294442	807745	305442	0027	1	692161	1	692163	15 69 108		A1	3150	494055			
1167	294447	807589	305447	0075	1	805460	1	805463	15 69 108		A1	3000	494054			
1168	294447	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055			
1169	294442		305442	0027					15 69 108		All	3600	494054			
1170	294447	807745	305447	0023	1	692161	1	692163	15 69 108		A1	3150	494055			
1171	294442		305442	0027	1	692161	1	692163	15 69 108		A1	3150	494055			
1172	294442		305442	0027	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055			
1173	294447	807589	305447	0023					15 41 69 108		A1	3600	494054			
1174	294447	807589	305447	0023					15 41 69 108		A1	3600	494054			
1175	294447	807589	305447	0079	1	805460	1	805464	15 41 69 108		A1 E1	2700 2700	494054			
1176	294446		305447	0075	1	692161	1	692165	15 69 108		A1 E1	3000 3000				
1177	294447	807589	305447	0023					15 69 108		A1	3600	494054			
1178	294440	807589	No Replacement Repair With Short Block and/or Individual Parts										A1	3800	494054	
1179	294442		305442	0027					15 69 108		A1 E1	3600 3600	494054			
1181	294442	807589	305442	0027	1	805460	1	805456	15 69 108		A1 E1	2800 2800	494054			
1182	294447	807589	305447	0023					15 69 72		A1	3600	494054			
1183	294447		305447	0023	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055			

294400 to 294499

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
1184	294442	807589	305442	0027					15 69 108		A1	3600	494054	
1185	294442	807745	305442	0027	1	692161	1	692163	15 69 108		A1	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1186	294447	807589	305447	0075					15 69 108		A1	3600	494054	
1187	294447		305447	0023	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1188	294447	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055	
					1	805455	1	805456						
1189	294446		305447	0075					15 69 108		A1 E1	3600 3600	494054	
1190	294442	807589	305442	0027					15 69 72 108		A1	3600	494054	
1191	294442	807589	305442	0027					15 69 72 108		A1	3600	494054	
1192	294446	807806	305442	0027	1	692161	1	692165	15 41 69 108		A1	2650	494054	
					1	805460	1	805464						
1193	294446	807806	305442	0027	1	692161	1	692165	15 41 69 108		A1	3600		
1194	294442	807589	305442	0027					15 69 108		A1	3600	494054	
1195	294442		305442	0027	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1196	294447		305447	0079					15 69 70 72 108		A1 E1	3600 3600	494054	
1197	294447		305447	0075					15 69 108		A1 E1	3600 3600	494054	
1198	294447	807745	305447	0078	1	805450	1	805451	15 69 108		A1	3150	494055	
					1	805455	1	805456						
1199	294442		305442	0027	1	692161	1	692163	15 69 108		A1 E1	3150 3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1200	294447	807589	305447	0075					15 69 72 108		E1	3800	494054	

294400 to 294499

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
1201	294447	692161	No Replacement Repair With Individual Parts.						15					
1202	294446	807806	No Replacement Repair With Individual Parts.						15		A1	2650		
											E1	2650		
1203	294447		No Replacement Repair With Individual Parts.						15		A1	3000	494054	
											E1	3000		
1204	294447		305447	0023	1	692161	1	692163	15		A1	3150	494055	
					1	805453	1	805451	69		E1	3150		
					1	805460	1	805456	108					
1205	294447		305447	0075					15		A1	3600	494054	
									41		E1	3600		
									69					
									70					
									108					
1207	294447	807589	305447	0075					15		A1	3600	494054	
									69					
									108					
1208	294447	807586	305447	0079	1	692161	1	692159	15		A1	3300		
									69					
									108					
1209	294447	807589	305447	0075					15		A1	3600	494054	
									69					
									108					
1210	294447	807745	305447	0005					15		A1	3600		
									69					
									108					
1211	294446		305447	0023	1	805453	1	692166	15		A1	3100		
					1	805460	1	805451	69		E1	3100		
					1	807628	1	805459	108					
					1	808417	1	807884						
1212	294442		305442	0023	1	805453	1	692163	15		A1	3150	494055	
					1	805460	1	805451	69					
					1	808417	1	805456	108					
1213	294447		305447	0023					15		A1	3600	494054	
									41		E1	3600		
									69					
									108					
1214	294447	807589	305447	0023					15		A1	3600	494054	
									41					
									69					
									108					
1217	294442		305442	0027					15		E1	3600	494054	
									69					
									108					
1218	294447		305447	0079					15		E1	3600	494054	
									69					
									70					
									96					
									108					
1219	294447	692163	305447	0078					15		All	3750	494055	
									69					
									108					
1220	294447	692160	305447	0078	1	692163	1	692160	15		All	3750		
									23					
									69					
									108					
1221	294442	692163	305447	0078					15		All	3150	494055	
									69					
									105					
									108					

294400 to 294499

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
1222	294447	692161	No Replacement Repair With Individual Parts.					15			All	3600		
1223	294447	692161	No Replacement Repair With Individual Parts.					15			All	3600		
1224	294447	807589	305447	0023					15		A1	3600	494054	
									41		E1	3600		
									69					
									108					
1230	294447	807589	305447	0075					15		A1	3600	494054	
									41					
									69					
									108					
1231	294446	692165	305447	0068	1	805460	1	692165	15		E1	2800		
					1	807589	1	805464	69					
									108					
1235	294447		305447	0075					15		A1	3600	494054	
									41		E1	3600		
									69					
									108					
1236	294447	807745	305447	0023	1	807453	1	692163	15		A1	3150	494055	
					1	807460	1	805451	41					
					1	808417	1	805456	69					
									108					
1237	294447		305447	0075					15		A1	3600	494054	
									41		E1	3600		
									69					
									108					
1238	294447		305447	0023	1	807453	1	692163	15		A1	3150	494055	
					1	807460	1	805451	69		E1	3150		
					1	808417	1	805456	108					
1239	294447		305447	0075					15		A1	3600	494054	
									41					
									69					
									108					
1240	294447		305447	0078	1	805450	1	805451	15		E1	3150	494055	
					1	805455	1	805456	69					
									108					
1241	294447	692161	305447	0023	1	805453	1	805451	15		E1	3000	494054	
					1	805460	1	805456	41					
									69					
									108					
1242	294447	692163	305447	0078	1	805450	1	805451	15		E1	3150	494055	
					1	805455	1	805456	69					
									108					
1243	294447	692161	305447	0075					15		E1	3600	494054	
									41					
									69					
									108					
1244	294447	692161	305447	0075					15		E1	3600	494054	
									41					
									69					
									108					
1245	294446	692161	305447	0075					15		E1	3600	494054	
									69					
									108					
1246	294446	692161	305447	0075					15		E1	3600	494054	
									69					
									108					
1247	294447	692161	305447	0075					15		E1	3600	494054	
									69					
									108					

294400 to 294499

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
1249	294442	692161	305442	0027	1	805460	1	805464	15 69 108		E1	2800	494054	
1250	294442	692161	305442	0027	1	805460	1	805464	15 69 108		E1	2800	494054	
1251	294447	692161	305447	0075					15 41 69 108		E1	3600	494054	
1252	294447	692161	305447	0079	1	805460	1	805464	15 69 70 96 108		E1	2700	494054	
1253	294447	692161	305447	0068					15 41 69		E1	3600	494054	
1254	294442	692163	305442	0027	1	805453	1	805451	15 69 108		E1	3150	494055	
					1	805460	1	805456						
					1	808417	1	808419						
1255	294447	692161	305447	0075					15 69 108		E1	3600	494054	
1256	294447	692163	305447	0005					15 69 108		E1	3600		
1257	294447	692163	305447	0078					15 69 108		E1	3750	494055	
1258	294447	692163	305447	0078					15 69 108		E1	3750	494055	
1259	294447	692163	305447	0005					15 69 108		E1	3600		
1260	294447	692163	305447	0078					15 69 108		E1	3750	494055	
1261	294447	692161	305447	0075	1	805453	1	805462	15 41 69 108		E1	3300	494054	
					1	805460	1	806105						
1262	294447	692161	305447	0075					15 69 108		E1	3600	494054	
1263	294446	692161	305447	0075					15 69 108		All	3600	494054	
1264	294442	692161	305442	0027					15 69 105 108		All	2800	494054	
1265	294447	692163	305447	0023	1	692161	1	692163	15 69 108		All	3150	494055	
					1	805453	1	805451						
					1	805460	1	805456						
1266	294447	692163	305447	0005					15 69 108		All	3600		

294400 to 294499

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
1267	294447	692163	305447	0078					15 69 105 108		All	3150	494055	
1268	294447	692161	305447	0075					15 69 108		All	3600	494054	
1269	294447	692161	305447	0068					15 69 105 108		All	3000	494054	
1272	294442	692161	305442	0027					15 48 69 77 108		All	3600	494054	
1277	294447	692161	305447	0023					15 48 69 108		All	3600	494054	
1278	294447	692161	305447	0075					15 69 108		All	3600	494054	