

192400 to 192499

SERVICE ENGINE



SALES MANUAL

**MODEL 192400 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 6:** Drill and Retap end of Crankshaft 7/16"-20 (1" Deep). Use 25/64" Tap Drill.
- NOTE 15:** For all Go-Karts use only a Model 136200 series engine as a replacement, regardless of the original Model.
- NOTE 30:** If the replacement engine supersedes to or is a Model 200000 series engine, refer to the illustrations located after the conversion data for this model series. To make the crankshaft center line the same add 695154 spacer kit, other overall dimensions which differ, are shown in the illustrations. If after making a visual inspection and it is determined the Model 200000 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.
- NOTE 33:** If the replacement engine supersedes to or is a Model 210000 series engine, refer to the illustrations located after the conversion data for this model series. The overall dimensions which differ, are shown in the illustrations. If after making a visual inspection and it is determined the Model 210000 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.
- 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.

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 G:** Drill and re-tap end of Crankshaft 7/16"-20 (1-1/8" deep). Use 25/64" tap drill.

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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
0001	192417	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0005	192412	495790	205432	0038					15		01	3800	497538	
									30					
0006	192437	495790	No Replacement Repair With Individual Parts.						15		01	3800	497538	
0007	192412	495790	205432	0038					15		01	3800	497538	
									30					
0008	192432	495655	201432	0036					15		01	3600	497537	
									30					
0011	192432	495790	205432	0038					15		01	3800	497538	
									30					
0015	192402	495648	202432	0036					15		01	3600		
									33					
0023	192412	495884	202432	0036					15		01	3600	497542	
									30					
0025	192407	495648	202437	0041					15		01	3600		
									30					
0035	192432	495655	201432	0036					15		01	3600	497537	
									30					
0041	192437	495655	203437	0041					15		01	3600	497537	
									30					
0047	192432	495789	202432	0035					15		01	4000	497540	
									30					
0048	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		

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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
0049	192452	495633	202452	0049					15 33		01	3600	497539	
0050	192412	495790	205432	0038					15 33		01	3800	497538	
0065	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0070	192432	495790	205432	0038					15 30		01	3800	497538	
0112	192402	495648	202432	0036					15 30		01	3600		
0114	192432	495866	No Replacement Repair With Individual Parts.						15		01	3800		
0115	192417	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0116	192412	495790	205432	0038					15 30		01	3750	497538	
0118	192436	496779	No Replacement Repair With Individual Parts.						15		01	3600		
0119	192432	495790	205432	0038					15 30		01	3800	497538	
0120	192402	495648	202432	0036					15 30		01	3600		
0121	192402	495648	202432	0036					15 30		01	4000		
0122	192432	497146	No Replacement Repair With Individual Parts.						15		01	3750		
0123	192412	497146	No Replacement Repair With Individual Parts.						15		01	3600		
0124	192402	495648	202432	0036					15 30		01	4000		
0125	192437	497146	No Replacement Repair With Individual Parts.						15		01	3750		
0126	192432	495789	202432	0035					15 33		01	3600	497540	
0127	192402	495648	202432	0036					15 30		01	3600		
0128	192412	495884	202432	0036					15 30		01	4000	497542	
0129	192412	495790	205432	0038					15 30		01	3750	497538	
0130	192412	496682	No Replacement Repair With Individual Parts.						15		01	3800		
0131	192407	495648	202437	0041					15 30		01	3600		
0132	192402	495648	No Replacement Repair With Individual Parts.						15		01	3200		
0133	192432	495790	No Replacement Repair With Individual Parts.						15		01 02	3150 3150	497538	
0134	192412	495790	205432	0038					15 30		All	3750	497538	
0135	192432	495655	201432	0036					15 30		01	3600	497537	
0136	192432	495789	202432	0035					15 30		01	3200	497540	
0137	192412	495790	205432	0038					15 30		01	3750	497538	
0138	192432	495655	201432	0036					15 30		01	3700	497537	
0139	192436	496500	No Replacement Repair With Individual Parts.						15		01	3600		
0140	192412	495790	205432	0038					15 30		01	3750	497538	
0141	192417	495790	No Replacement Repair With Individual Parts.						15		01	3800	497538	
0143	192412	495790	205432	0038					15		01	3750	497538	
0144	192417	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0145	192402	495648	202432	0036					15 30		01	3300		

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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
0146	192412	495790	205432	0038					15 30		01	3150	497538	
0147	192432	495884	No Replacement Repair With Individual Parts.						15		01	3600		
0148	192437	495884	No Replacement Repair With Individual Parts.						15		01	3600		
0152	192412	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0153	192412	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0154	192437	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0156	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0159	192432	495884	202432	0036					15 30 48		01	3600		
0160	192412	495884	202432	0036					15 30		01	3600	497542	
0161	192437	495884	No Replacement Repair With Individual Parts.						15		01	3600		
0162	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0163	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0164	192437	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0165	192402	495648	202432	0036					15 30		01	3200		
0166	192432	495655	201432	0036					15 30		01	3600	497537	
0167	192412	495790	205432	0038					15 30		01	3750	497538	
0168	192412	495790	205432	0038					15 30		01	3750	497538	
0169	192415	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0170	192432	495655	201432	0036					15		01	3600	497537	
0171	192417	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0172	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0173	192432	495655	201432	0036					15 30		01	3150	497537	
0174	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0175	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0176	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0177	192412	495790	205432	0038					15 30		01	3750	497538	
0178	192432	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0179	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0180	192412	495790	205432	0038					15 30		01	3750	497538	
0181	192432	495655	201432	0036					15 30		01	3600	497537	
0182	192437	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0183	192437	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0184	192436	495790	No Replacement Repair With Individual Parts.						15		01	3750	497538	
0185	192412	495884	202432	0036					15 30		01	3600	497542	
0186	192412	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0187	192432	495866	No Replacement Repair With Individual Parts.						15		01	3600		
0188	192402	495648	202432	0036					15 30		01	3600		
0189	192432	495655	201432	0036					15 30		01	3800	497537	
0190	192412	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0191	192417	495790	205432	0038					15 30		01	3800	497538	
0192	192412	495788	No Replacement Repair With Individual Parts.						15		01	3600		

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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
0193	192432	495788	202432	0063					15 30		01	3600		
0194	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0195	192432	495790	No Replacement Repair With Individual Parts.						15		01	3150	497538	
0505	192412	495790	205432	0038					15 30		A1	3800	497538	
0515	192402	495648	202432	0036					15 30		A1	3600		
0516	192413	495884	No Replacement Repair With Individual Parts.						15		A1	3600	497542	
0523	192412	495884	202432	0036					15 30		A1	3600	497542	
0525	192407	495648	202437	0041					15 30		A1	3600		
0535	192432	495655	201432	0036					15 30		A1	3600	497537	
0541	192437	495655	203437	0041					15 30		A1	3600	497537	
0545	192407	495648	202437	0041					15 30		A1	3600		
0547	192432	495789	202432	0035					15 30		A1	4000	497540	
0549	192452	497539	202452	0049					15 30		A1	3600	497539	
0565	192432	495866	No Replacement Repair With Individual Parts.						15		A1	3600		
0570	192432	495790	205432	0038					15 30		A1	3800	497538	
0615	192417	495790	No Replacement Repair With Individual Parts.						15		A1	3750	497538	
0616	192412	495790	205432	0038					15 30		A1	3750	497538	
0622	192432	497146	No Replacement Repair With Individual Parts.						15		A1	3750		
0623	192412	497146	No Replacement Repair With Individual Parts.						15		A1	3600		
0624	192402	495648	202432	0036					15 30		A1	4000		
0625	192432	497146	No Replacement Repair With Individual Parts.						15		A1	3750		
0626	192412	499391	202432	0036					6 15 30		All	3800	497542	G
0627	192402	495648	202432	0036					15 30		A1	3600		
0628	192412	495884	202432	0036					15 30		A1	4000	497542	
0631	192407	495648	202437	0041					15 30		A1	3600		
0636	192432	495790	205432	0038					15 30		A1	3750	497538	
0637	192412	495790	205432	0038					15 30		A1	3800	497538	
0638	192432	495655	201432	0036					15 30		A1	3600	497537	
0643	192412	495790	205432	0038					15 30		A1	3750	497538	
0644	192417	495790	No Replacement Repair With Individual Parts.						15		A1	3750	497538	
0645	192402	495648	202432	0036					15 30		A1	3600		
0654	192437	495846	No Replacement Repair With Individual Parts.						15		A1	3600		
0656	192432	495846	No Replacement Repair With Individual Parts.						15		A1	3600		
0666	192432	495655	201432	0036					15 30		A1	3600	497537	

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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
0667	192412	495790	205432	0038					15 30		A1	3750	497538	
0668	192412	495790	No Replacement Repair With Individual Parts.						15		A1	3750	497538	
0669	192432	495655	201432	0036					15 30		A1	3600	497537	
0670	192437	495655	203437	0041					15 30		A1	3600	497537	
0671	192432	495655	201432	0036					15 30		A1	3600	497537	
0672	192412	495790	205432	0038					15 30		A1	3750	497538	
0673	192417	495790	No Replacement Repair With Individual Parts.						15		A1	3750	497538	
0674	192412	499391	202432	0036					6 15 30		A1	3800	497542	G
0691	192417	495790	No Replacement Repair With Individual Parts.						15		A1	3800	497538	
0694	192417	497590	No Replacement Repair With Individual Parts.						15		A1	3800	497538	
0696	192437	495788	202437	0033					15 30		A1	3600		
0697	192432	495788	202432	0063					15 30		All	3600		
0699	192432	495884	No Replacement Repair With Individual Parts.						15		A1	3600		
0700	192402	495648	202432	0036					15 30		A1	3600		
0702	192412	499391	202432	0036					6 15 30		A1	3800	497542	G
1005	192412	497590	205432	0038					15 30		E1	3800	497538	
1008	192432	495655	203432	0036					15 30		E1	3600	497537	
1011	192432	497590	205432	0038					15 30		E1	3750	497538	
1015	192402	495648	202432	0036					15 30		E1	3600		
1023	192412	495884	202432	0036					15 30		E1	3600	497542	
1025	192407	495648	202437	0041					15 30		E1	3600		
1035	192432	495655	201432	0036					15 30		E1	3600	497537	
1041	192437	495655	203437	0041					15 30		E1	3600	497537	
1047	192432	495789	202432	0035					15 30		E1	4000	497540	
1049	192452	495663	202452	0049					15 30		E1	3600	497539	
1063	192432	495788	202432	0063					15 30		All	3600		
1065	192432	495866	No Replacement Repair With Individual Parts.						15		E1	3600		
1070	192432	495790	205432	0038					15 30		E1	3800	497538	
1115	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3800	497538	
1116	192412	495790	205432	0038					15 30		E1	3800	497538	
1121	192402	495648	202432	0036					15 30		E1	4000		
1122	192432	497146	No Replacement Repair With Individual Parts.						15		E1	3750		

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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
1125	192437	497146	No Replacement Repair With Individual Parts.						15		E1	3750		
1126	192432	495789	203432	0035					15 30		E1	3600	497540	
1127	192402	495648	202432	0036					15 30		E1	3600		
1128	192412	495884	202432	0036					15 30		E1	3600	497542	
1129	192436	495790	No Replacement Repair With Individual Parts.						15		All	3750	497538	
1131	192407	495648	202437	0041					15 30		E1	3600		
1132	192402	495648	202432	0036					15 30		E1	3200		
1136	192432	495790	205432	0038					15 30		E1	3750	497538	
1137	192417	497590	202432	0036					15 41		E1	4000	497542	
1143	192412	495790	205432	0038					15 30		E1	3750	497538	
1144	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3750	497538	
1145	192402	495648	202432	0036					15 30		E2	3300		
1147	192432	495884	202432	0036					15 30 48		E1	3700	694240	
1148	192437	495884	No Replacement Repair With Individual Parts.						15		E1	3700		
1149	192417	495884	No Replacement Repair With Individual Parts.						15		E1	4000	497542	
1159	192432	495884	202432	0036					15 30 48		All	3700	694240	
1167	192412	495790	205432	0038					15 30		E1	3750	497538	
1168	192412	495790	No Replacement Repair With Individual Parts.						15		E1	3750	497538	
1172	192412	495790	205432	0038					15 30		E1	3650	497538	
1173	192432	495655	201432	0036					15 30		E2	3150	497537	
1175	192432	495790	No Replacement Repair With Individual Parts.						15		E2	3150	497538	
1181	192432	495655	201432	0036					15 30		E1	3600	497537	
1186	192412	495790	205432	0038					15 30		All	3150	497538	
1189	192432	495655	201432	0036					15 30		E1	3150	497537	
1190	192412	495790	No Replacement Repair With Individual Parts.						15		E1	3150	497538	
1191	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3800	497538	
1193	192432	495788	202432	0063					15 30		E1	3600		
1194	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3800	497538	
1195	192432	495790	205432	0038					15 30		E1	3150	497538	
1196	192402	495648	202432	0036					15 30		E1	3600		
1197	192402	495648	202432	0036					15 30		E1	3600		
1198	192412	499391	202432	0036					6 15 30		E1	3800	497542	G

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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
1200	192402	495648	202432	0036					15 30		E1	3600		
1203	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3800	497538	
1204	192432	495655	202432	0063					15 30		E1	3600		
1205	192402	499531	No Replacement Repair With Individual Parts.						15		E1	4000		
1206	192432	495789	202432	0035					15 30		E1	3600	497540	
1207	192412	499391	202432	0036					6 15 30		E1	3800	497542	G
1208	192432	495655	No Replacement Repair With Individual Parts.						15		E1	3200	497537	
1209	192402	495648	202432	0036					15 30		E1	3600		
1210	192417	495790	No Replacement Repair With Individual Parts.						15		E1	3800	497538	
1211	192402	499531	No Replacement Repair With Individual Parts.						15		E1	4000		
1212	192437	495655	203437	0041					15 30		E1	3600	497537	
1213	192432	495655	201432	0036					15 30		E1	3600	497537	
1214	192432	495884	202432	0036					15 30		E1	3600		
1215	192432	497146	No Replacement Repair With Individual Parts.						15		All	3750		
1216	192412	495790	No Replacement Repair With Individual Parts.						15		All	3750	497538	
1217	192412	495790	205432	0038					15 30		All	3750	497538	
1218	192437	495788	202437	0033					15 30		E1	3600		
1219	192432	495788	202432	0063					15 30		E1	3600		
1220	192412	499391	202432	0036					6 15 30		E1	3500	497542	G
1221	192407	495648	202437	0041					15 30		E1	3600		
1222	192436	495790	No Replacement Repair With Individual Parts.						15		All	3750	497538	
6167	192432	495884	202432	0036					15 30		01	3600		