

220400 to 220499**SERVICE ENGINE****SALES MANUAL****MODEL 220400 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 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.

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:

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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
0111	220432	261497	205432	0036					15 30		All	3600		
0112	220432	261509	205432	0035					15 30		All	3600		
0113	220432	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0120	220437	261502	205437	0041					15 30		01	3600		
0130	220435	261510	No Replacement Repair With Individual Parts.						15		01	3700		
0131	220432	261510	No Replacement Repair With Individual Parts.						15		01	3700		
0132	220435	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0133	220432	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0134	220435	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0135	220432	261510	No Replacement Repair With Individual Parts.						15		01	1800		
0136	220432	261510	No Replacement Repair With Individual Parts.						15		All	3600		
0137	220432	261510	No Replacement Repair With Individual Parts.						15		01	3800		
0138	220432	261510	No Replacement Repair With Individual Parts.						15		All	3700		
0139	220432	261509	205432	0035					15 30		01	3950		
0140	220435	261510	No Replacement Repair With Individual Parts.						15		01	3700		
0142	220431	261497	205432	0036					15 30		01	3600		
0143	220431	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0144	220437	261510	No Replacement Repair With Individual Parts.						15		01	3800		
0145	220432	261510	No Replacement Repair With Individual Parts.						15		01	3000		
0146	220432	261510	No Replacement Repair With Individual Parts.						15		01	3700		
0147	220432	261510	No Replacement Repair With Individual Parts.						15		All	3700		
0148	220437	261510	No Replacement Repair With Individual Parts.						15		01	3700		

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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
0149	220432	261509	205432	0035					15 30		01	3800		
0150	220437	261509	205432	0035					15 30		01	3800		
0151	220432	261510	No Replacement Repair With Individual Parts.						15		01	3750		
0152	220432	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0153	220432	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0154	220432	261497	205432	0036					15 30		01	3600		
0155	220432	261510	No Replacement Repair With Individual Parts.						15		01	3600		
0156	220431	261509	205432	0035					15 30		01	2900		
0157	220432	261497	205432	0036					15 30		01	3700		
0158	220416	261497	No Replacement Repair With Individual Parts.						15		01	3600		
2035	220432	261497	205432	0036					15 30		01	3600		
2037	220432	261509	205432	0035					15 30		01	3600		
2070	220432	261510	No Replacement Repair With Individual Parts.						15		All	3700		
2073	220437	261510	No Replacement Repair With Individual Parts.						15		All	3700		

MODEL 200000

