

82300 to 82499

SERVICE ENGINE



SALES MANUAL

**MODEL 82300 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 34:** If the replacement engine supersedes to or is a Model 90000 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 93400 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.
- NOTE 46:** Original engine was equipped with special Gear and Shaft Assembly. Transfer these parts 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:

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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	82332	493633	94032	0035					15 34		01	3300	491041	
0126	82352	493409	94052	0049					15 34		01	3600		
0130	82331	492095	94032	0036					15 34		All	3600	491039	
0131	82352	493409	94052	0049					15 34 46		01	3600		
0132	82332	492095	No Replacement Repair With Individual Parts.						15		01	3300	491039	
0133	82332	493633	94032	0035					15 34		01	3600	491041	
0134	82352	493409	94052	0049					15 34 46		01	3600		
0135	82332	493849	94032	0040					15 34		All	3600	491042	
0136	82352	493409	94052	0049					15 34 46		01	3600		
0137	82331	493633	94032	0035					15 34		01	3600	491041	
0138	82351	493633	94052	0049					15 34		01	3300		
0139	82331	493619	94032	0035	1	495211	1	393812	15 34		01	3600		
					1	495355	1	493619						
					1	495484	1	99158						
0140	82331	493633	94032	0035					15 34		01	3600	491041	

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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
0141	82331	492095	No Replacement Repair With Individual Parts.						15		01	3600	491039	
0142	82332	492095	No Replacement Repair With Individual Parts.						15		01	3600	491039	
0143	82331	492095	94032	0036					15		01	3300	491039	
									34					
0144	82332	397251	94032	0035	1	495211	1	393812	15		01	3300		
						1	495355	1	397251	34				
						1	495484	1	99158					
0145	82332	492095	94032	0036					15		01	3300	491039	
									34					
0146	82331	493633	94032	0035					15		01	3300	491041	
									34					
0147	82331	492095	94032	0036					15		All	3600	491039	
									34					
0148	82331	397252	94032	0036	1	495211	1	393812	15		01	3300		
						1	495355	1	397252	34				
						1	495484	1	99158					
0149	82332	492095	94032	0036					15		01	3600	491039	
									34					
0150	82332	493633	94032	0035					15		All	3300	491041	
									34					
0151	82332	397252	94032	0036	1	495211	1	393812	15		01	3300		
						1	495355	1	397252	34				
						1	495484	1	99158					
0152	82332	492095	94032	0036					15		01	3300	491039	
									34					
0153	82332	493633	94032	0035					15		01	3300	491041	
									34					
0154	82332	397252	No Replacement Repair With Individual Parts.						15		01	3600		
0155	82332	493633	94032	0035					15		01	3300	491041	
									34					
0156	82332	493633	94032	0035					15		01	3600	491041	
									34					
0157	82332	493849	94032	0036	1	495211	1	393812	15		01	3600		
						1	495355	1	493849	34				
						1	495484	1	99158					
0158	82332	493849	No Replacement Repair With Individual Parts.						15		01	3300		
0159	82332	493633	94032	0035					15		01	3600	491041	
									34					
0160	82332	492095	94032	0036					15		01	3300	491039	
									34					
0161	82332	493633	94032	0035					15		01	3600	491041	
									34					
0162	82331	493633	94032	0035					15		01	3300	491041	
									34					
0163	82332	493849	No Replacement Repair With Individual Parts.						15		01	3300		
0164	82332	493633	94032	0035					15		01	3100	491041	
									34					
0165	82332	493633	94032	0035					15		01	3600	491041	
									34					
0526	82331	492095	No Replacement Repair With Individual Parts.						15		01	3300	491039	
0527	82331	492095	94032	0036					15		01	3300	491039	
									34					
0528	82331	493633	94032	0036					15		01	3300	491041	
									34					
0529	82331	493633	No Replacement Repair With Individual Parts.						15		01	3300	491041	

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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
0530	82331	397252	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	397252	34					
					1	495484	1	99158						
0531	82331	397252	No Replacement Repair With Individual Parts.						15		01	3300		
0532	82331	493619	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	493619	34					
					1	495484	1	99158						
0537	82332	493633	94032	0035					15		01	3300	491041	
									34					
0538	82331	493619	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	493619	34					
					1	495484	1	99158						
0548	82351	493409	94052	0049					15		01	3300		
									34					
0549	82352	493409	94052	0049					15		01	3300		
									34					
2528	82331	493633	94032	0035					15		All	3300	491041	
									34					
2535	82332	493849	94032	0040					15		01	3300	491042	
									34					
2537	82332	493633	94032	0035					15		01	3300	491041	
									34					
2538	82332	493633	No Replacement Repair With Individual Parts.						15		01	3300	491041	
2547	82351	493409	94052	0049					15		All	3300		
									34					
2548	82352	493409	94052	0049					15		All	3300		
									34					
2549	82352	493409	94052	0049					15		All	3300		
									34					
4001	82332	493633	94032	0035					15		01	3600	491041	
									34					
4002	82332	493849	94032	0035	1	495211	1	393812	15		01	3600		
					1	495355	1	493849	34					
					1	495484	1	99158						
4003	82332	492095	94032	0036					15		All	4000	491039	
									34					
4004	82332	492095	94032	0036					15		All	3300	491039	
									34					
4005	82332	493633	94032	0035					15		01	3600	491041	
									34					
4006	82332	397252	No Replacement Repair With Individual Parts.						15		01	3600		
4007	82331	492095	94032	0036					15		All	3600	491039	
									34					
4008	82332	493633	94032	0035					15		01	3600	491041	
									34					
4035	82332	493849	94032	0040					15		01	3300	491042	
									34					
4037	82332	493633	94032	0035					15		All	3300	491041	
									34					
4049	82352	493409	94052	0049					15		All	3300		
									34					
4070	82432	397251	No Replacement Repair With Individual Parts.						15		01	3750		
											02	3150		
4073	82432	493633	94032	0035					15		01	3300		
									34					
8111	82432	493633	No Replacement Repair With Individual Parts.						15		01	3300		
8130	82432	397251	No Replacement Repair With Individual Parts.						15		01	3100		

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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
8131	82432	493633	No Replacement		Repair With Individual Parts.				15		01	3600		
8132	82432	397251	No Replacement		Repair With Individual Parts.				15		01	3100		
8133	82432	397251	No Replacement		Repair With Individual Parts.				15		01	3150		
8134	82432	397251	No Replacement		Repair With Individual Parts.				15		01	3150		
8573	82432	493633	No Replacement		Repair With Individual Parts.				15		01	3300		