

82200 to 82299

SERVICE ENGINE



SALES MANUAL

**MODEL 82200 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 16:** Gear Red. @ 12 o'clock.
- NOTE 17:** Gear Red. @ 3 o'clock.
- 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 43:** Original engine was equipped with a Rotating Screen. These parts can be transferred 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	82232	493633	94032	0035					15 34		01	3300	491041	
0115	82232	397251	No Replacement Repair With Individual Parts.						15		01	3300		
0121	82232	397252	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	397252	34					
					1	495484	1	99158						
0122	82232	492095	94032	0036				15 34		01	3300	491039		
0126	82252	493409	94052	0049				15 34		01	3300			
0133	82232	493633	94032	0035				15 34		01	3900	491041		
0134	82232	492095	94032	0036				15 34		01	3600	491039		
0135	82252	493409	94052	0049				15 34		All	3900			
0136	82232	492095	94032	0036				15 34		01	4000	491039		
0137	82232	493633	94032	0035				15 34		01	3500	491041		
0138	82232	493849	94032	0040				15 34		01	4000	491042		
0139	82232	493849	94032	0040				15 34		01	3600	491042		
0140	82232	397255	94032	0040				15 34		01	3600	491042		

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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	82252	493409	94052	0049					15 16 34		01	3600		
0142	82232	493633	94032	0035					15 34		01	3600	491041	
0143	82252	493409	94052	0049					15 34		01	3600		
0145	82252	493409	92252	0049					15 16 34		01	2500		
0146	82232	492095	94032	0036					15 34		01	4000	491039	
0147	82232	492095	94032	0036					15 34		01	4000	491039	
0148	82232	492095	94032	0036					15 34		All	4000	491039	
0149	82232	492095	94032	0036					15 34		01	3600	491039	
0150	82231	492095	94032	0036					15 34		99	3600	491039	
0151	82231	397252	94032	0035	1	495211	1	393812	15 34		99	3600		
					1	495355	1	397252	34					
					1	495484	1	99158						
0152	82231	493633	94032	0035					15 34		99	3600	491041	
0153	82232	492095	94032	0036					15 34		All	3600	491039	
0154	82232	397252	94032	0036	1	495211	1	393812	15 34		99	3600		
					1	495355	1	397252	34					
					1	495484	1	99158						
0155	82232	493633	94032	0035					15 34		99	3600	491041	
0156	82232	493633	94032	0035					15 34		01	3900	491041	
0157	82232	493849	94032	0040					15 34		01	3100	491042	
0158	82232	493633	94032	0035					15 34		01	3600	491041	
0159	82232	493849	94032	0040					15 34		01	4000	491042	
0160	82252	493409	94052	0049					15 34		01	3300		
0161	82232	397255	94032	0040					15 34		01	3600	491042	
0162	82231	492095	94032	0036					15 34		01	3600	491039	
0163	82232	493849	94032	0040					15 34		01	3300	491042	
0164	82232	493849	94032	0040					15 34		01	3300	491042	
0301	82232	493633	94032	0035					15 34		01	3300	491041	
0302	82252	493409	94052	0049					15 34		01	3300		
0310	82232	493849	94032	0040					15 34		01	4000	491042	
0311	82232	492095	94032	0036					15 34		01	4000	491039	

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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
0312	82232	493849	94032	0040					15 34		01	4000	491042	
0313	82232	492095	94032	0036					15 34		01	4000	491039	
0314	82232	493633	94032	0035					15 34		01	3600	491041	
0315	82232	493849	94032	0040					15 34		01	4000	491042	
0316	82252	493409	94052	0049					15 34		01	3600		
0317	82232	493633	94032	0035					15 34		01	3600	491041	
0318	82232	493849	94032	0040					15 34		01	3900	491042	
0319	82232	492095	94032	0036					15 34		01	4000	491039	
0320	82232	493633	94032	0035					15 34		01	3100	491041	
0321	82232	492095	No Replacement Repair With Individual Parts.						15				491039	
0322	82232	493849	94032	0040					15 34		01	3900	491042	
0323	82252	493409	94052	0049					15 16 34		01	3300		
0324	82232	493849	94032	0040					15 34		01	4000	491042	
0325	82231	397252	94032	0035	1	495211	1	393812	15		01	3600		
					1	495355	1	397252	34					
					1	495484	1	99158						
0326	82232	493633	94032	0035					15 34		01	3600	491041	
0327	82232	493633	No Replacement Repair With Individual Parts.						15		01	3600	491041	
0328	82231	493633	94032	0035					15 34		01	3300	491041	
0329	82232	493849	No Replacement Repair With Individual Parts.						15		01	4000	491042	
0330	82252	493409	94052	0049					15 34		01	3600		
0331	82232	493633	94032	0035					15 34		01	3900	491041	
0332	82232	493849	No Replacement Repair With Individual Parts.						15		01	3600	491042	
0333	82232	493633	94032	0035					15 34		01	3300	491041	
0334	82232	493849	94032	0040					15 34		01	3100	491042	
0335	82232	493633	94032	0035					15 34		01	3300	491041	
0336	82252	493409	94052	0049					15 34		01	3300		
0337	82252	493409	94052	0049					15 16 34		01	2700		
0338	82232	492095	94032	0036					15 34		01	4000	491039	
0339	82232	493633	94032	0035					15 34		01	3000	491041	
0340	82252	493409	94052	0049					15 16 34		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
0341	82252	493409	94052	0049					15 34		01	3600		
0342	82252	493409	94052	0049					15 17 34		01	3600		
0343	82232	493849	94052	0040					15 34		01	3600	491042	
0344	82232	492095	94032	0036					15 34		01	4000	491039	
0345	82232	493633	94032	0035					15 34		01	3000	491041	
0346	82232	493849	94032	0040					15 34		01	3000	491042	
0347	82232	493633	94032	0035					15 34		01	3600	491041	
0348	82232	492095	94032	0036					15 34		01	4000	491039	
0349	82232	492095	94032	0036					15 34		01	4000	491039	
0350	82231	492095	94032	0036					15 34		01	4000	491039	
0351	82232	493633	94032	0035					15 34		01	3200	491041	
0352	82232	493849	94032	0040					15 34		01	4000	491042	
0353	82232	493633	94032	0035					15 34		All	2600	491041	
0354	82232	493849	94032	0040					15 34		01	3600	491042	
0355	82232	493633	94032	0035					15 34		01	3900	491041	
0356	82232	493633	94032	0035					15 34		01	3600	491041	
0357	82232	493849	No Replacement Repair With Individual Parts.						15		01	4000	491042	
0358	82232	493633	92232	0035					15 34		01	3600	491041	
0359	82232	493633	No Replacement Repair With Individual Parts.						15		01	3600	491041	
0360	82252	493409	94052	0049					15 34		01	3600		
0361	82232	397252	94032	0035	1	495211	1	393812	15		01	3400		
					1	495355	1	397252	34					
					1	495484	1	99158						
0362	82232	493633	94032	0035					15 34		01	3900	491041	
0363	82232	493633	94032	0035					15 34		01	3600	491041	
0364	82232	492095	94032	0036					15 34		01	4000	491039	
0366	82232	493633	94032	0035					15 34		01	3600	491041	
0367	82252	493409	94052	0049					15 16 34		01	3600		
0368	82232	492095	94032	0036					15 34		01	3600	491039	
0369	82232	493633	94032	0035					15 34		01	4000	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
0370	82232	493633	94032	0035					15 34		01	3300	491041	
0371	82232	493633	94032	0035					15 34		01	3600	491041	
0372	82232	493633	94032	0035					15 34		01	2800	491041	
0373	82232	492095	94032	0036					15 34		01	4000	491039	
0374	82252	493409	94052	0049					15 34		01	3300		
0375	82232	492095	No Replacement Repair With Individual Parts.						15		01	3900	491039	
0376	82232	493849	94032	0040					15 34		01	3900	491042	
0377	82232	493849	94032	0040					15 34		01	3900	491042	
0378	82232	493633	94032	0035					15 34		01	3600	491041	
0379	82232	493633	94032	0035					15 34		01	4000	491041	
0380	82232	397252	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	397252	34					
					1	495484	1	99158						
0381	82232	493633	94032	0035					15 34		01	3300	491041	
0382	82252	493409	94052	0049					15 16 34		01	4000		
0384	82232	492095	94032	0036					15 34		01	4000	491039	
0385	82232	397252	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	397252	34					
					1	495484	1	99158						
0386	82232	493849	94032	0040					15 34		01	3600	491042	
0387	82212	493632	No Replacement Repair With Individual Parts.						15		01	3500		
0388	82232	397252	94032	0035	1	495211	1	393812	15		01	3300		
					1	495355	1	397252	34					
					1	495484	1	99158						
0389	82232	493433	94032	0035					15 34		01	3750	491041	
0390	82232	493433	94032	0035					15 34		01	3300	491041	
0391	82232	493433	94032	0035					15 34		01	3300	491041	
0392	82232	493767	94032	0040					15 34		01	3800	491042	
0393	82212	497232	No Replacement Repair With Individual Parts.						15		01	3600		
2035	82232	493633	94032	0035					15 34		All	3300	491041	
2036	82232	492095	94032	0036					15 34		01	4000	491039	
											02	3600		
											03	3600		
2040	82232	493849	94032	0040					15 34		01	3300	491042	
2049	82252	493409	94052	0049					15 34		All	3300		
2135	82232	493633	94032	0035					15 34		All	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
2136	82232	492095	94032	0036					15 34		01 02 03	4000 3600 3600	491039	
2140	82232	493849	94032	0040					15 34		01	3600	491042	
2149	82252	493409	94052	0049					15 34		All	3300		
2150	82232	493633	94032	0035					15 34		01	3300	491041	
2151	82232	492095	94032	0036					15 34		01	4000	491039	
2152	82252	493409	94032	0049					15 34		01	3300		
4002	82232	493849	94032	0040					15 34		01	3600	491042	
4003	82232	493849	94032	0040					15 34		All	3300	491042	
4004	82232	492095	94032	0036					15 34		All	4000	491039	
4005	82252	493409	94052	0049					15 34		All	3600		
4007	82232	493633	94032	0035					15 34		All	3300	491041	
4008	82232	492095	94032	0036					15 34		All	3600	491039	
4010	82252	493409	94052	0049					15 16 34		01	3300		
4011	82252	493409	94052	0049					15 34		01	3600		
4014	82232	397252	94032	0035	1	262289	1	262285	15 34		01 02	3600 3600		
					1	495211	1	393812						
					1	495355	1	397252						
					1	495484	1	99158						
4015	82232	493633	94032	0035					15 34		All	3300	491041	
4016	82232	493849	No Replacement Repair With Individual Parts.						15		01	4000	491042	
4018	82232	493849	94032	0040					15 34		01	3600	491042	
4019	82232	493849	94032	0040					15 34		01	3700	491042	
4020	82232	493633	94032	0035					15 34		01	2800	491041	
4021	82232	397252	94032	0035	1	262289	1	262290	15 43		01	3000		
					1	495211	1	393812						
					1	495355	1	397252						
								1	99158					
4022	82232	493633	94032	0035					15 34		01	3600	491041	
4023	82232	493633	94032	0035					15 34		01	3600	491041	
4024	82232	493849	94032	0040					15 34		01	3600	491042	
4025	82232	492095	94032	0036					15 34		01	3600	491039	

82200 to 82299

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
4035	82232	493633	94032	0035					15 34		01 02 03 04 05	3200 2600 2700 3200 3200	491041	
4036	82232	492095	94032	0036					15 34		All	4000	491039	
4045	82232	493633	94032	0035					15 34		01	3750	491041	
4049	82252	493409	94052	0049					15 34		All	3300		
4050	82252	493409	94052	0049					15 34		01	3600		
4084	82232	492095	94032	0036					15 34		01	4000	491039	
4090	82232	493633	94032	0035					15 34		01	3600	491041	
4091	82232	492095	94032	0036					15 34		01	3600	491039	
4092	82252	493409	94052	0049					15 16 34		01	4000		
4093	82212	493409	94052	0049					15 34		01	2700		
4844	82232	397251	No Replacement Repair With Individual Parts.						15		All	3750		
4845	82232	397251	No Replacement Repair With Individual Parts.						15		01	3150		
4846	82232	493633	No Replacement Repair With Individual Parts.						15		All	3200		
4847	82232	397251	No Replacement Repair With Individual Parts.						15		01	3150		
8044	82232	397251	No Replacement Repair With Individual Parts.						15		01 02 03	3700 3700 3150		
8111	82232	493633	No Replacement Repair With Individual Parts.						15		01	3300		
8115	82232	493633	No Replacement Repair With Individual Parts.						15		01	3300		
8116	82232	397251	No Replacement Repair With Individual Parts.						15		01	3100		
8130	82232	397251	No Replacement Repair With Individual Parts.						15		02	3750		
8244	82232	397251	No Replacement Repair With Individual Parts.						15		All	3700		
8301	82232	493633	No Replacement Repair With Individual Parts.						15		01	3300		
8305	82232	397251	No Replacement Repair With Individual Parts.						15		01	3150		
8306	82232	493633	No Replacement Repair With Individual Parts.						15		01	3300		
8307	82232	397251	No Replacement Repair With Individual Parts.						15		01	3700		
8308	82232	397251	No Replacement Repair With Individual Parts.						15		01	3150		
8309	82232	493633	No Replacement Repair With Individual Parts.						15		01	4000		