

93300 to 93399

SERVICE ENGINE  **SALES MANUAL**

**MODEL 93300 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 17:** Gear Red. @ 3 o'clock.
- NOTE 73:** Transfer Flywheel Assembly to the replacement engine.
- NOTE 81:** Transfer Governor Spring to replacement engine.
- NOTE 88:** Transfer Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service or add new parts as required
- NOTE 97:** Transfer the Blower Housing , Rewind Assembly and related parts from the original engine to replacement engine.
- NOTE 113:** Gear Red. @ 6 o'clock.

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 R:** Cut off 1-7/16" on Flywheel end of Crankshaft.

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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
0002	93312	497232	STD.						15		All	3300		
0016	93302	492880	STD.						15		All	3300	495914	R
0017	93302	497232	STD.						15		All	3300	495915	R
0022	93312	492880	STD.						15		All	3600	495920	R
0030	93332	690821	STD.						15		All	3600	497652	R
0035	93332	690821	STD.						15		All	3300	497652	R
0036	93332	492095	STD.						15		All	4000	497653	R
0040	93332	497232	STD.						15		All	4000	497654	R
0049	93352	493599	STD.						15		All	3300	497655	R
0100	93302	497232	93302	0017					15		All	3300	495915	R
									88					
0110	93302	691474	93302	0016	1	492880	1	691474	15	0110	All	3600		
									73					
									81					
									88					
0111	93332	690821	93332	0035					15		All	3100	497652	R
									88					
									97					
0112	93332	492095	93332	0036					15		All	4000		
									88					
0113	93302	691474	93302	0016	1	492880	1	690361	15	0113	All	3600		
								1	691474	73				
									81					
									88					

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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
0114	93302	492880	93302	0016					15 73 81 88		All	3600	495914	R
0115	93302	497232	93302	0017					15 81 88		All	2850	495915	R
0116	93332	690821	93332	0035					15 81 88		All	4000	497652	R
0117	93352	493599	93352	0049					15 81 113		All	3600	497655	R
0118	93352	493599	93352	0049					15 17 81		All	3600	497655	R
0119	93302	497232	93302	0017					15		All	3300	495915	R
0121	93302	497232	93302	0017					15 81 88 97		All	3000	495915	R
0122	93332	690821	93332	0035					15 88		All	3400	497652	R
0123	93352	493599	93352	0049					15 17 81 97		All	2800	497655	R
0128	93332	497232	93332	0040					15 88		All	4000	497654	R
0129	93332	497232	93332	0040					15 88		All	4000	497654	R
0130	93352	493599	93352	0049					15 88		All	3300	497655	R
0131	93332	492095	93332	0036					15 88 97		All	3800	497653	R
0132	93332	690821	93332	0035					15 81 88		All	4000	497652	R
0133	93312	791414	93312	0022	1	790309	1	790355	15 88 97		All	3000	495920	R
0134	93312	791414	93312	0022					15 73 81 88		All	3000	495920	R
0135	93332	492095	93332	0036					15 97		All	4000	497653	R
0139	93352	493599	93352	0049					15 17		All	3300	497655	R
0140	93332	690821	93332	0035					15 88 97		All	3100	497652	R
0142	93312	497232	93312	0002					15 81 88		All	3600		
0143	93332	690821	93332	0035					15 81 97		All	3600	497652	R

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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
0144	93312	791414	93312	0022					15 88		All	3600	495920	R
0145	93302	791414	93302	0016					15 81 88 97		All	3600	495914	R
0147	93332	690821	93332	0035					15 97		All	3300	497652	R
0148	93302	791414	93302	0016					15 81 88 97		All	3000	495914	R
0149	93332	690821	93332	0030					15		All	3600	497652	R
0150	93302	791414	93302	0016					15 88 97		All	3300	495914	R
0151	93352	493599	93352	0049					15 88		All	3300	497655	R
0152	93332	690821	93332	0030					15 81 97		All	4000	497652	R
0157	93312	791414	93312	0022					15 81 88 97		All	2800	495920	R
0167	93332	690821	93332	0035					15 81 88 97		All	3600	497652	R