

305400 to 305499**SERVICE ENGINE****SALES MANUAL****MODEL 305400 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 48: Remove Fuel Tank Assembly from replacement engine.

NOTE 61: The original engine was equipped with Debris Gard. Transfer these parts to replacement engine.

NOTE 68: Transfer Flywheel and Alternator Assembly from original to replacement engine.

NOTE 72: Transfer Exhaust Ducting and/or Muffler Assembly from original engine to replacement engine.

NOTE 77: Transfer Fuel Pump and related parts from original engine to replacement engine.

NOTE 78: Transfer Fuel Tank Assembly from the original engine to the replacement engine.

NOTE 90: Transfer Oil Sensor to the replacement engine.

NOTE 95: Transfer Stub Shaft and/or Booster Fan Assembly to replacement engine.

NOTE 96: Transfer the Air Cleaner Assembly and related parts to the replacement engine.

NOTE 97: Transfer the Blower Housing, Rewind Assembly and related parts from the original engine to replacement engine.

NOTE 105: Transfer the Governor Spring and Governor Idle Spring to the replacement engine.

NOTE 107: Transfer the Main Governor Spring to the replacement engine.

NOTE 108: Transfer the Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service, or add new parts as required. In some cases it may be necessary to transfer the Oil Filter Adapter to the replacement engine.

NOTE 114: Transfer Regulator and Lead Wires 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
0005	305447	692163	STD.						15		All	3600		
0023	305447	692161	STD.						15		All	3600	494054	
									108					
0027	305442	692161	STD.						15		All	3600	494054	
									108					
0068	305447	692161	STD.						15		All	3600	494054	
0075	305447	692161	STD.						15		All	3600	494054	
									108					
0077	305447	692162	STD.						15		All	3600	494056	
									108					
0078	305447	692163	STD.						15		All	3750	494055	
									108					
0079	305447	692161	STD.						15		All	3600	494054	
0110	305447	841827	STD.						15		All	3600		
0111	30544A	841827	STD.						15		All	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
0112	305442	692163	305442	0027	1	692161	1	692163	15 48 77 90 107		All	3150	494055	
0113	305442	692163	305442	0027	1	692161	1	692163	15 77 90 107		All	3150	494055	
0114	305442	692161	305442	0027					15 77		All	3600	494054	
0115	305447	692163	305447	0078					15 78 107 108		All	3150	494055	
0116	305447	692163	305447	0078					15 107		All	3150	494055	
0117	305447	692161	305447	0075					15 114		All	3600	494054	
0118	305447	692161	305447	0068					15 77 108 114		All	3600	494054	
0120	305442	692161	305442	0027					15		All	3600	494054	
0124	305447	692162	305447	0023	1	692161	1	692162	15 108		All	3600	494056	
0135	305447	692161	No Replacement Repair With Short Block and/or Individual Parts								All	4000	494054	
0138	305447	692161	No Replacement Repair With Short Block and/or Individual Parts								All	3300	494054	
0139	305447	692161	305447	0075					15 68		All	3600	494054	
0145	305447	692163	305447	0005					15 108		All	3600		
0147	305447	692161	305447	0075					15 68 108		All	3600	494054	
0150	305447	692161	305447	0079					15 95 96 108		All	3400	494054	
0152	305447	692161	305447	0079					15 107 108		All	3000	494054	
0153	305447	692161	305447	0079					15		All	3600	494054	
0154	305447	692161	305447	0079					15 95 96 107 108		All	2800	494054	
0156	305442	692161	305442	0027					15 77 97 107 108		All	4000	494054	
0165	305447	692161	305447	0079					15 96 107 108		All	2700	494054	
0169	305446	692165	305447	0075	1	692161	1	692165	15		All	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
0170	305446	692165	305447	0075	1	692161	1	692165	15 107		All	3200		
0171	305447	692163	305447	0078					15 72 107		All	3150	494055	
0178	305447	692168	305447	0079	1	692161	1	692168	15 61 72 96 105		All	3200		
0181	305447	692161	305447	0075					15 68 108		All	3600	494054	
0190	305447	692161	305447	0023					15 108		All	3600	494054	
0191	305447	692161	305447	0075					15		All	3600	494054	
1409	305440	692163	STD.						15 108					
1410	305440	808975	STD.						15 108					