

543400 to 543499

SERVICE ENGINE



SALES MANUAL

**MODEL 543400 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 42:** Original engine was equipped special Remote Throttle Control or Governor Control. Transfer these parts to replacement engine.
- NOTE 43:** Original engine was equipped with a Rotating Screen. These parts can be transferred to the replacement engine.
- NOTE 44:** Original engine was equipped with Manual Friction or a Fixed Speed. Transfer these parts to the replacement engine.
- NOTE 70:** Transfer Booster Fan and/or Stub Shaft Assembly to the 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 90:** Transfer Oil Sensor to the replacement engine.
- NOTE 91:** Transfer Remote Choke Control Assembly from original engine to replacement engine.
- NOTE 93:** Transfer Starter Panel group and/or Starter Motor to 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 107:** Transfer the Main Governor Spring to the replacement engine.
- NOTE 121:** Transfer the Blower Housing , Oil Cooler Assembly and related parts from original engine to replacement engine.
- NOTE 126:** Transfer Manual Choke Control Assembly from the original engine to 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
0048	543477	809982	STD.						15		All	3600	699428	
0065	543477	809982	STD.						15		All	3600	699428	
0076	543477	841513	STD.						15		All	3600	790813	
0078	543477	841683	STD.						15		All	3750	790814	
									88					
0079	543477	841529	STD.						15		All	3600	790815	
0110	543477	809982	STD.						15		All	3600	699428	
0111	543477	809982	STD.						15		All	3600	699428	
0112	543477	809982	543477	0111					15		All	3600	699428	
									93					
0113	543477	809982	543477	0111					15		All	3800	699428	
									96					
0114	543477	841513	543477	0076					15		All	3800	790813	
									88					
									90					
									95					
									121					

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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	
0115	543477	841513	543477	0076					15 70 88		All	3600	790813		
0116	543477	841529	543477	0079					15 88		All	3600	790815		
0118	543477	841529	543477	0079					15		All	3600	790815		
0119	543477	809982	543477	0111					15		All	3600	699428		
0120	543477	809982	543477	0065					15 42 88		All	3600	699428		
0121	543477	809982	543477	0048					15 42 88		All	3600	699428		
0122	543477	809982	543477	0048					15 42 107		All	4000	699428		
0124	453477	841529	543477	0079					88		All	3600	790815		
0126	543477	841683	543477	0078					15 43 93 126		All	3750	790814		
0127	543477	841683	543477	0078					15		All	3750	790814		
0128	543477	809982	543477	0048					15 42 88		All	4000	699428		
0129	543477	841529	543477	0079					15 42 91 107		All	4000	790815		
0130	543477	809982	No Replacement Repair With Short Block and/or Individual Parts									All	4000	699428	
0131	543477	809982	543477	0048					15 42 91		All	3600	699428		
0132	543477	809982	543477	0111					15 88 93		All	3600	699428		
0137	543477	841683	No Replacement Repair With Short Block and/or Individual Parts									All	3150	790814	
0139	543477	841683	No Replacement Repair With Short Block and/or Individual Parts									All	3150	790814	
0141	543477	809982	No Replacement Repair With Short Block and/or Individual Parts									All	3600	699428	
0142	543477	841683	No Replacement Repair With Short Block and/or Individual Parts									All	3150	790814	