

**613400 to 613499**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 613400 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 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 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 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 maybe necessary to transfer the Oil Filter Adapter to the replacement engine.
- NOTE 127:** Transfer the Blower Housing , Speed Sensor Assembly and related parts from the original engine 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
0048	613477	841839	STD.						15		All	3600	791244	
0076	613477	842268	STD.						15		All	3800		
0079	613477	841844	STD.						15		All	3600	791245	
0111	613477	841839	STD.						15		All	3600	791244	
0113	613477	841839	613477	0048					15		All	3600	791244	
									108					
0114	613477	841844	No Replacement Repair With Short Block and/or Individual Parts								All	3600	791245	
0117	613477	841844	613477	0079					15		All	3600	791245	
0118	613477	841844	613477	0079					15		All	3600	791245	
0119	613477		613477	0111					15		All	3600		
									93					
									108					
0120	613477	841839	613477	0048					15		All	3600	791244	
									42					
0121	613477	841839	No Replacement Repair With Short Block and/or Individual Parts								All	4000	791244	
0122	613477	841839	613477	0048					15		All	4000	791244	
									42					
									107					
									108					
0123	613477		613477	0048					15		All	3600	791244	
									96					

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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	
0125	613477	841839	613477	0048					15 42 108		All	3600	791244		
0126	613477	842268	613477	0076					15 88 90 95		All	3800			
0128	613477	841839	No Replacement Repair With Short Block and/or Individual Parts									All	4000	791244	
0129	613477	841844	613477	0079					15 127		All	3600	791245		
0130	613477	841844	613477	0079					15 42 108 127		All	3800	791245		
0131	613477	841839	613477	0111					15 43 108		All	3600	791244		
0132	613477	841839	613477	0111					15 108		All	3800	791244		