

**380400 to 380499**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 380400 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 20:** If necessary, cut off 1-7/16" on Flywheel side of Crankshaft to make Crankshaft same length as in original engine; transfer Flush Rotating Blower Housing Screen group and/or starter pulley from original engine to replacement engine.
- NOTE 23:** If the original engine is equipped with a Six Pin Wiring Harness transfer to the replacement engine.
- NOTE 41:** Original engine was equipped for or with a 12 volt or 120 volt Gear Drive Starter and/or with alternator only. Transfer all related parts as required.
- NOTE 68:** Transfer Flywheel and Alternator Assembly from original to replacement engine.
- NOTE 69:** Transfer Blower Housing, Flywheel and Booster Fan Group to replacement engine.
- NOTE 70:** Transfer Booster Fan and/or Stub Shaft Assembly to the replacement engine.
- NOTE 72:** Transfer Exhaust Ducting and/or Muffler Assembly from original engine to replacement engine.
- NOTE 90:** Transfer Oil Sensor to the replacement engine.
- NOTE 94:** Transfer Static Guard from original engine to replacement engine.
- NOTE 96:** Transfer the Air Cleaner Assembly and related parts to the replacement engine.
- NOTE 99:** Transfer the Blower Housing to the replacement engine.
- NOTE 105:** Transfer the Governor Spring and Governor Idle 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.

**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
0024	380447	691139	386447	0048					15 69 108		All	3600	695391	
0042	380447	692173	386447	0078					15 69 108		All	3750	695392	
0043	380447	691139	386447	0048					15 41 69 108		All	3600	695391	
0048	380447	691139	386447	0048					15 69 108		All	3600	695391	
0065	380447	692171	386447	0065					15 69 108		All	3600	695390	

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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
0075	380447	691139	386447	0048					15 20 69 108		All	3600	695391	
0076	380447	692170	386447	0077					15 69 108		All	3600		
0077	380447	692170	386447	0077					15 69 108		All	3600		
0078	380447	692173	386447	0078					15 69 108		All	3750	695392	
0079	380447	692171	386447	0079					15 69 108		All	3600	695390	
0112	380447	809827	No Replacement Repair With Individual Parts.						15		All	3600		
0113	380447	691139	386447	0048					23 69 105 108		All	4000	695391	
0114	380447	692171	386447	0079					23 69 94 105 108		All	2700	695390	
0116	380447	692171	386447	0065					15 69 108		All	3600	695390	
0118	380447	691139	386447	0048					15 20 23 69 108		All	3600	695391	
0119	380447	691139	386447	0048					15 20 23 69 108		All	3600	695391	
0120	380447	691139	386447	0048					15 69 72 94 108		All	3800	695391	
0125	380447	692171	386447	0065					15 69 108		All	3600	695390	
0126	380447	692171	386447	0065					15 69 108		All	3600	695390	
0127	380447	692171	386447	0065					15 69 108		All	3600	695390	
0128	380447	692171	386447	0065					15 69 108		All	3600	695390	
0129	380447	692173	386447	0078					15 69 108		All	3750	695392	

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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
0130	380442	692171	386447	0065					15 69 108		All	3600	695390	
0131	380447	692171	386447	0065					15 69 108		All	3600	695390	
0132	380447	692173	386447	0078					15 20 69 108		All	3750	695392	
0133	380447	693073	386447	0079	1	692171	1	693073	15 69 108		All	3600		
0134	380447	692170	386447	0077					69 105 108		All	4000		
0135	380447	692173	386447	0078					15 69 105 108		All	3150	695392	
0136	380447	691139	386447	0048					15 69 108		All	3600	695391	
0137	380447	691139	386447	0048					15 69 108		All	3600	695391	
0139	380447	692173	386447	0078					15 69 108		All	3750	695392	
0140	380447	692171	386447	0079					15 69 108		All	3600	695390	
0141	380447	692171	386447	0065					15 69 108		All	3600	695390	
0142	380447	693073	386447	0065	1	692171	1	693073	15 69 108		All	4000		
0143	380447	691139	386447	0048					15 20 69 108		All	3600	695391	
0144	380447	692171	386447	0065					15 69 108		All	3600	695390	
0145	380447	691139	386447	0048					15 69 108		All	3600	695391	
0146	380447	692171	386447	0065					68 69 108		All	3600	695390	
0147	380447	692173	386447	0078					20 69 108		All	3750	695392	
0148	380447	691139	386447	0048					15 20 69 108		All	3600	695391	

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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
0149	380447	691139	386447	0048					15 69 108		All	3600	695391	
0150	380447	692173	386447	0078					15 69 105 108		All	3150	695392	
0151	380447	691139	386447	0048					15 20 23 69 105 108		All	2600	695391	
0152	380447	692173	386447	0078					15 23 69 105 108		All	3150	695392	
0153	380447	691139	386447	0048					15 23 69 72 94 108		All	3800	695391	
0154	380447	691139	386447	0048					15 20 23 69 108		All	3600	695391	
0155	380447	692171	386447	0065					15 23 69 108		All	3800	695390	
0158	380447	692161	386447	0065					15 69 108		All	3600	695390	
0161	380447	692173	386447	0065	1	692171	1	692173	15 69 108		All	3150	695392	
0163	380447	691139	386447	0048					15 20 69 105 108		All	2600	695391	
0164	380447	692171	386447	0065					15 20 69 105 108		All	3600	695390	
0165	380447	691139	386447	0079	1	692171	1	691139	15 69 72 94		All	3800	695391	
0166	380447	809845	386447	0065					15 69		All	3600	695390	
0171	380447	809845	386447	0171					15 69		All	3600		
0173	380447	809834	386447	0048					15 69 108		All	3600	695391	

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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	
0174	380447	809844	386447	0020					15 69		All	3600			
0175	380447	809834	386447	0048					15 69 96 99 108		All	3800	695391		
0177	380447	809844	386447	0079					15 69 90 94 96		All	3600	695390		
0217	380447	809844	No Replacement Repair With Short Block and/or Individual Parts									All	3750	695390	