

381400 to 381499

SERVICE ENGINE



SALES MANUAL

**MODEL 381400 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 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 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 81:** Transfer Governor Spring to replacement engine.
- NOTE 87:** Transfer Main and Idler Governor Springs.
- 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 94:** Transfer Static Guard from original engine to replacement engine.
- NOTE 97:** Transfer the Blower Housing , Rewind Assembly and related parts from the original engine to replacement engine.
- NOTE 100:** Transfer the Booster Fan and/or Stub Shaft Assembly to the replacement engine.
- NOTE 101:** Transfer the Extended Oil Fill Tube and Dipstick Assembly 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 maybe 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
0044	381447	691139	380447	0048					15 108		All	3600	695391	
0048	381447	691139	380447	0048					15 108		All	3600	695391	
0058	381447	692173	380447	0078					15 108		All	3750	695392	
0064	381447	692171	380447	0079					15 87 108		All	3300	695390	
0075	381447	692171	STD.						15 108		All	3600	695390	
0077	381447	692170	380447	0077					15 108		All	3600		
0096	381447	692171	381447	0075					15 108		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
0110	381447	692171	381447	0075					15 87 108		All	4000	695390	
0111	381447	692173	380447	0078					15 87 108		All	3150	695392	
0112	381447	692173	380447	0078					87 108		All	3150	695392	
0114	381447	692171	381447	0075					15 108		All	3600	695390	
0118	381447	692171	381447	0075					15 108		All	3600	695390	
0119	381447	692171	380447	0079					15 100 108		All	3600	695390	
0120	381447	691139	380447	0048					15 20 108		All	3600	695391	
0121	381447	692171	381447	0075					15 41 108		All	3600	695390	
0131	381447	692173	380447	0078					15 20 108		All	3750	695392	
0133	381447	692171	381447	0075					15 41 108		All	3600	695390	
0134	381447	691139	380447	0048					15 108		All	3600	695391	
0135	381447	692171	381447	0075					15 41 108		All	3600	695390	
0136	381447	691139	380447	0048					15 105 108		All	3100	695391	
0137	381447	692173	380447	0078					15 87 108		All	3150	695392	
0138	381447	692173	380447	0078					15 87 108		All	3150	695392	
0139	381447	692173	380447	0078					15 68 87 108		All	3150	695392	
0140	381447	692173	380447	0078					15 108		All	3750	695392	
0141	381447	692173	380447	0078					15 20 94 108		All	3750	695392	
0142	381447	692171	380447	0079					15 72 94 108		All	3800	695391	
0143	381447	692173	380447	0078					15 108		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	
0144	381447	692171	380447	0079					15 70 108		All	3600	695390		
0145	381447	691139	380447	0048					15 87 94 108		All	3100	695391		
0146	381447	809845	380447	0079	1	809844	1	809845	15 20		All	3600			
0148	381447	692173	380447	0078					15 87 108		All	3150	695392		
0149	381447	692171	380447	0079					15 70 108		All	3600	695390		
0151	381447	809844	380447	0079					15 70 108		All	3600	695390		
0152	381447	809845	No Replacement Repair With Individual Parts.							15		All	3600		
0154	381447	809813	380447	0078					15 105 108		All	3150	695392		
0156	381447	809844	380447	0079					15 108		All	3600	695390		
0181	381447	692171	381447	0075					15 108		All	3600	695390		
0183	381447	809844	381447	0272					15 88 97		All	3600			
0193	381447	692173	380447	0078					15 105 108		All	3150	695392		
0196	381447	692173	380447	0078					15 87 108		All	3150	695392		
0228	381447	692170	381447	0075					15 108		All	3600	695390		
0230	381447	692173	380447	0078					15 87 108		All	3150	695392		
0233	381447	692171	380447	0079					15 105 108		All	3800	695390		
0241	381447	691139	380447	0048					15 41 108		All	3600	695391		
0242	381447	692171	381447	0075					15 41 108		All	3600	695390		
0252	381446	692171	381447	0075					15 108		All	3600	695390		
0253	381447	692171	381447	0075					15 41 108		All	3600	695390		
0255	381447	691139	380447	0048					15 20 108		All	3600	695391		
0256	381447	692171	381447	0075					15 108		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	
0257	381447	691139	380447	0048					15 108		All	3600	695391		
0258	381447	692171	380447	0079					15 108		All	3600	695390		
0259	381447	808824	381447	0075	1	692170	1	808824	87 108		All	3200			
0260	381447	691139	380447	0048					15 108		All	3600	695391		
0261	381447	691139	380447	0048					15 108		All	3600	695391		
0262	381447	691139	380447	0048					15 20 108		All	3600	695391		
0263	381447	692171	380447	0079					15 108		All	3600	695390		
0264	381447	692171	380447	0079					15 108		All	3600	695390		
0265	381447	692173	380447	0078					15 108		All	3750	695392		
0266	381447	692173	380447	0078					15 105 108		All	3150	695392		
0267	381447	692173	380447	0078					15 20 108		All	3750	695392		
0268	381447	692173	380447	0078					15 108		All	3750	695392		
0269	381447	691139	380447	0048					15 87 108		All	4000	695391		
0270	381447	692171	380447	0079					15 90 108		All	3600	695390		
0271	381447	693073	380447	0077	1	692170	1	693073	15 108		All	3600			
0272	381447	809844	STD.						15 108		All	3600			
0274	381447	693073	380447	0077	1	692170	1	693073	15 108		All	3600			
0275	381447	809813	380447	0075	1	809834	1	692173	81 94 108		All	3750	695392		
0277	381447				No Replacement Repair With Short Block and/or Individual Parts							All	3150	695392	
0279	381447	692171			No Replacement Repair With Short Block and/or Individual Parts							All	3800	695390	
0306	381447	692171	380447	0079					15 90 94 101		All	3600	695390		