

121400 to 121499**SERVICE ENGINE****SALES MANUAL****MODEL 121400 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 22: If the gear reduction parts are suitable for additional service, use model 121412 type no. 0014 and transfer the reduction parts from the original engine.

NOTE 48: Remove Fuel Tank Assembly from replacement engine.

NOTE 81: Transfer Governor Spring to replacement engine.

NOTE 82: Transfer Ground Wire Terminal and/or Stop Switch and Wire to 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 97: Transfer the Blower Housing, Rewind Assembly and related parts from the original engine to replacement engine.

NOTE 101: Transfer the Extended Oil Fill Tube and Dipstick Assembly to the replacement engine.

NOTE 115: Gear Red. @ 9 o'clock.

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:

121400 to 121499

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
0014	121412	694439	121312	0014					15		All	3600		
0021	121432		121332	0036					15		All	3600	693779	
0022	121432		121332	0036					15		All	3600	693779	
0023	121412	693887	121312	0023					15		All	3600	693782	
0024	121432		121332	0036					15		All	3600	693779	
0025	121432	693403	121332	0036					15		All	3600	693779	
									101					
0032	121432	693594	121332	0035					15		All	4000	693780	
									90					
0033	121432		121332	0033					15		All	3750		
0035	121432	693594	121332	0035					15		All	4000	693780	
0036	121432		121332	0036					15		All	3600	693779	
0038	121412	695237	121332	0033					15		All	3750		
0039	121432	693403	121332	0036					15		All	3600	693779	
									101					
0043	121412	693887	121312	0023					15		All	3600	693782	
0049	121452		121352	0049					15		All	3600	693783	
									22					
0050	121437	693403	121337	0050					15		All	3600	696265	
0060	121412		121312	0060					15		All	3800	696316	
0061	121432	693403	121332	0036					15		All	3600	693779	
0064	121432		121332	0036					15		All	3600	693779	

121400 to 121499

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
0066	121432		121332	0036					15		All	3600	693779	
0067	121432		121332	0036					15		All	3600	693779	
0070	121492	693887	121392	0070					15		All	3600	696317	
0075	121432	694450	121332	0033					15		All	3150		
0080	121432	694596	121332	0036	1	693403	1	694596	15		All	3600		
0109	121492	695763	121392	0070	1	693887	1	695285	15		All	3600		
					1	694831	1	695763	81					
									97					
0111	121412	693887	121312	0023					15		All	3600	693782	
0112	121432		121332	0036					15		All	3600	693779	
0113	121432		121332	0036					15		All	3300	693779	
0114	121432		121332	0036					15		All	3300	693779	
0118	121412	693887	121312	0023					15		All	3600	693782	
0119	121432		121332	0036					15		All	3600	693779	
0120	121432		121332	0036					15		All	3600	693779	
0121	121432		121312	0144					15		All	3600		
0122	121412	695237	121332	0033					15		All	3750		
									48					
0123	121432		121312	0145					15		All	3600	693781	
0124	121432		121332	0036					15		All	3600	693779	
0125	121432		121332	0036					15		All	3600	693779	
0126	121432		121332	0036					15		All	3600	693779	
									82					
									90					
0127	121432	693403	121332	0036					15		All	3600	693779	
0128	121432	693403	121332	0036					15		All	3600	693779	
									82					
0129	121432	693403	121332	0036					15		All	3600	693779	
									82					
									90					
0130	121432	693403	121332	0036					15		All	3600	693779	
									82					
									90					
0131	121432	693403	123332	0036					15		All	2900	693779	
0132	121432	693403	121332	0036					15		All	4000	693779	
0133	121432	694450	121332	0033					15		All	3150		
0134	121432	695764	121332	0035	1	693594	1	695764	15		All	4200		
									101					
0135	121432	695763	121332	0036	1	693403	1	695763	15	0135	All	3600		
0136	121412	695763	121312	0060					15		All	3600	696316	
									101					
0137	121412	695237	121332	0033					15		All	3150		
									48					
									81					
									90					
0138	121412	695237	121332	0033					90		All	3750		
0139	121492	693887	121392	0070	1	694831	1	695285	15	0139	All	3100		
									81					
0140	121412	695237	121332	0033					15		All	3750		
									48					
									90					
0141	121432	695763	121332	0036	1	693403	1	695763	15	0141	All	3700		
0142	121432	693594	121332	0035					15		All	3600	693780	
0143	121432	693594	121332	0035					15		All	4000	693780	
0144	121412	693595	121312	0144					15		All	3600		
0145	121412	693596	121312	0145					15		All	3600	693781	
0146	121432	693403	123332	0036					15		All	3600	693779	

121400 to 121499

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
0147	121432	693403	121332	0036					15 82		All	3600	693779	
0148	121412	693887	121312	0023					15		All	3600	693782	
0149	121432	693403	121332	0036					15 82		All	3600	693779	
0151	121432	693594	121332	0035					15 90		All	4000	693780	
0152	121412	693887	121312	0023					15		All	3600	693782	
0153	121432	693594	121332	0035					15 90 101		All	4000	693780	
0154	121432	693594	121332	0035					15 101		All	4200	693780	
0155	121432	693403	121332	0036					15		All	3600	693779	
0156	121432	694450	121332	0033					15		All	3150		
0157	121417	693887	121337	0050	1	692517	1	693204	15		All	4000		
					1	693403	1	693887						
					1	693605								
0158	121412	693887	121312	0023					15		All	3600	693782	
0159	121432	693594	121332	0035					15		All	4000	693780	
0160	121432	693403	121332	0036					15		All	3600	693779	
0161	121402	693387	123332	0036					15		All	3200	693779	
0162	121437	693403	121337	0050					15 90		All	3600	696265	
0163	121452	694439	121352	0049	1	693204	1	696261	15 22 115		All	3600		
0164	121432	693594	121332	0035					15 90		All	3600	693780	
0165	121432	693403	121332	0036					15 90		All	3600	693779	
0166	121432	693594	121332	0035					15		All	4000	693780	
0167	121432	694450	121332	0033					15		All	3150		
0168	121432	693594	121332	0035					15 88 90		All	4250	693780	
0169	121432	695764	121332	0035					15		All	4000		
0170	121432	693594	121332	0035					15 90		All	4000	693780	
0171	121432	693594	121332	0035					15 82 101		All	4250	693780	
0172	121432	693403	121332	0036					15		All	4000	693779	
0173	121492	693887	121392	0070					15		All	3800	696317	
0174	121432	693403	121332	0036					15		All	3600	693779	
0175	121412		121332	0033					15		All	3750		
0176	121452	694439	121352	0049					15 22 90		All	3600	693783	
0177	121412		121312	0060					15 101		All	4000	696316	
0178	121432	693594	121332	0035					15 88 90		All	4250	693780	
0179	121432	694450	121332	0033					15 90		All	3750		
0180	121432	693403	121332	0036					15 90		All	3600	693779	

121400 to 121499

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
0181	121412		121312	0060					15 101		All	3600	696316	
0182	121432	694450	121332	0033					15 90		All	3750		
0183	121412		121312	0060					15 101		All	3300	696316	
0184	121432	694450	121332	0033					15 90		All	3800		
0185	121452	694439	121352	0049					15 22		All	3600	693783	
0186	121432	693403	121332	0036					15 90		All	3600	693779	
0187	121432	693594	121332	0035					15 90		All	4250	693780	
0188	121452	694439	121352	0049					15 22		All	3600	693783	
0189	121432	694450	121332	0033					15 90		All	3150		
0190	121432	693403	121332	0036					15		All	3600	693779	
0191	121452	694439	121352	0049	1	693204	1	696261	15 22 115		All	3600		
0192	121432	695763	121332	0036	1	693403	1	695763	15 101		All	4000		
0193	121432	695763	121332	0036	1	693403	1	695763	15		All	3600		
0194	121402	693887	121332	0236					15 81 88		All	3200	693779	
0195	121432	693403	121332	0036							All	3200	693779	
0196	121437	693403	121337	0050					15		All	3600	696265	
0197	121432	693403	121332	0036					15		All	3600	693779	
0198	121432	694450	121332	0033					15 48		All	3750		
0199	121432	693403	121332	0036					15 48		All	3600	693779	
0200	121452	694439	121352	0049	1	693204	1	696261	15 22 115		All	3600		
0201	121412	693887	121312	0023					15		All	3200	693782	
0202	121432	694450	121332	0033					15 48		All	3750		
0203	121417	694450	121337	0050	1	693403	1	694450	15 48 81		All	3750		
0204	121437	694450	121337	0050	1	693403	1	694450	15 81 90		All	3750		
0206	121412	693887	121312	0023					15 81		All	3600	693782	
0207	121432	694450	121332	0033					15 81 88 90		All	3150		
0208	121432	694450	121332	0033					15 48 81 88 90		All	3150		

121400 to 121499

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
0209	121412	695237	121332	0033					15 48 81 88 90		All	3150		
0210	121412	695237	121332	0033					15 81 88 90		All	3150		
0211	121432	694450	121332	0033					15 48 88		All	3750		
0212	121412	695237	121332	0033					15 88 90 97		All	3750		
0213	121412	695237	121332	0033					15 81 88 90		All	3150		
0214	121412	695763	121312	0060					15 88 90 101		All	3600	696316	
0216	121402	693887	123332	0036					15 81 88		All	3200	693779	
0218	121452	694439	121352	0049					15 88 115		All	3600		
0220	121432	694450	121332	0033					15 88 90		All	3750		
0223	121412	693887	121312	0223					15		All	3800	693782	
0233	121432	694450	121332	0233					15		All	3750		
0235	121432	693594	121332	0235					15		All	4000	693780	
0236	121432	693403	121332	0236					15		All	3600	693779	
0247	121417	693595	121337	0050	1	693403	1	693595	15		All	3600		
0250	121437	693403	121337	0250					15		All	3600	693779	
0260	121412	695763	121312	0260					15		All	3800	696316	
0269	121412	693595	121312	0223	1	693887	1	693595	15		All	3600		