

146400 to 146499**SERVICE ENGINE****SALES MANUAL****MODEL 146400 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 1:** Cut off PTO shaft so it is 1-3/4" long from shoulder to outer end.
- NOTE 7:** Drill and retap PTO end of Crankshaft 7/16"-20 (1-1/8" deep). Use 25/64" tap drill.
- NOTE 15:** For all Go-Karts use only a Model 136200 series engine as a replacement, regardless of the original Model.
- NOTE 16:** Gear Red. @ 12 o'clock.
- NOTE 17:** Gear Red. @ 3 o'clock.
- NOTE 21:** If the Gear Reduction parts are suitable for additional service, use Model 196412 Type No. 1024.
- NOTE 30:** If the replacement engine supersedes to or is a Model 200000 series engine, refer to the illustrations located after the conversion data for this model series. To make the crankshaft center line the same add 695154 spacer kit, other overall dimensions which differ, are shown in the illustrations. If after making a visual inspection and it is determined the Model 200000 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.
- 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 57:** The original engine was equipped for or with a 12 or 120 volt Gear Drive Starter. Transfer Starter parts to replacement engine or add 394952 12 volt or 396507 120 volt Starter Kit.
- NOTE 113:** Gear Red. @ 6 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:

NOTE K: Add 211592 Cylinder Head.

146400 to 146499

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
0010	146401	260607	202432	0036					15 30		All	3600		
0015	146402	260607	202432	0036					15 30		All	3600		
0035	146432	260425	201432	0036					15 30		All	3600		
0036	146432	260432	No Replacement Repair With Individual Parts.						15		All	3600		
0037	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0049	146452	260389	202452	0049					15 30		All	3600		
0055	146412	260358	No Replacement Repair With Individual Parts.						15		All	3800		
0070	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
0075	146451	260389	202452	0049					15 30		All	3600		
0110	146401	260607	202432	0036					15 30		All	3600		
0111	146402	260607	202432	0036					15 30		All	3600		
0112	146404	260607	202437	0041					15 30		All	3600		

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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	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0116	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0120	146451	260389	202452	0049					15		All	3600		
									30					
0121	146452	260389	202452	0049					15		All	3600		
									30					
0130	146431	260425	201432	0036					15		All	3600		
									30					
0131	146431	260425	201432	0036					15		All	3600		
									30					
0132	146431	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0133	146402	260607	202432	0036					15		All	3600		
									30					
0134	146452	260389	202452	0049					15		All	2800		
									17					
									30					
0135	146401	260607	202432	0036					15		All	3800		
									30					
0136	146402	260607	202432	0036					15		All	4000		
									30					
0137	146432	260663	202432	0035					15		All	3600		
									30					
0138	146402	260607	202432	0036					15		All	4000		
									30					
0139	146451	260389	202452	0049					15		All	3600		
									17					
									30					
0140	146402	260607	202432	0036					15		All	4000		
									30					
0141	146402	260607	202432	0036					15		All	3900		
									30					
0142	146402	260607	202432	0036					15		All	4000		
									30					
0143	146402	260607	202432	0036					15					
									30					
0144	146431	260425	201432	0036					15		All	3600		
									30					
0145	146432	260425	201432	0036					15		All	3600		
									30					
0146	146402	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0147	146401	260607	202437	0041					15		All	3800		
									30					
0148	146402	260607	202432	0036					15		All	3800		
									30					
0149	146432	260425	201432	0036					15		All	3600		
									30					
0150	146431	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0151	146452	260389	202452	0049					1					
									15					
									17					
									30					
0152	146432	260358	No Replacement Repair With Individual Parts.						15		All	3950		
0153	146431	260423	No Replacement Repair With Individual Parts.						15		All	3800		
0154	146431	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0155	146402	260607	202432	0036					15		All	4000		
									30					
0156	146402	260607	202432	0036					15		All	3600		
									30					

146400 to 146499

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
0157	146432	260359	No Replacement Repair With Individual Parts.						15		All	4000		
0158	146412	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0159	146452	260389	202452	0049					15 30		All	3800		
0160	146402	260607	202432	0036					15 30		All	4000		
0161	146402	260607	202432	0036					15 30		All	3800		
0162	146402	260607	202432	0036					15 30		All	4000		
0163	146402	260607	202432	0036					15 30		All	3000		
0164	146402	260607	202432	0036					15 30		All	3800		
0165	146432	260425	201432	0036					15 30		All	3000		
0167	146452	260389	202452	0049					1 15 30		All	4000		
0168	146402	260607	No Replacement Repair With Individual Parts.						15		All	4000		
0169	146432	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0170	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
0171	146452	260389	202452	0049					15 17 30		All	3800		
0172	146402	260607	202432	0036					15 30		All	4000		
0173	146434	260425	203437	0041					15 30		All	3000		
0174	146402	260607	202432	0036					15 30		All	4000		
0175	146451	260389	202452	0049					1 15 30 113					
0176	146402	260607	202432	0036					15 30		All	4000		
0177	146401	260607	202432	0036					15 30		All	3600		
0178	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0179	146402	260607	202432	0036					15 30		All	3400		
0180	146404	260607	202437	0041					15 30		All	4000		
0181	146412	260358	No Replacement Repair With Individual Parts.						15		All	3000		
0182	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0183	146402	260607	202432	0036					15 30		All	4000		
0184	146414	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0185	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0186	146432	260425	201432	0036					15 30		All	3600		
0187	146402	260607	202432	0036					15 30		All	4000		
0188	146431	260425	201432	0036					15 30		All	3600		
0189	146451	260389	202452	0049					15 30		All	3800		

146400 to 146499

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
0190	146451	260389	202452	0049					15 17 30		All	3400		
0191	146432	260865	No Replacement Repair With Individual Parts.						15		All	3600		
0192	146401	260607	202432	0036					15 30		All	3600		
0193	146402	260607	202432	0036					15 30		All	4000		
0194	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0196	146452	260389	202452	0049					15 30		All	4000		
0197	146402	260607	202432	0036					15 30		All	4000		
0198	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0199	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0200	146401	260607	202432	0036					15 30		All	4000		
0201	146402	260607	202432	0036					15 30		All	3800		
0202	146404	260607	202437	0041					15 30		All	4000		
0203	146402	260607	202432	0036					15 30		All	4000		
0204	146451	260389	202452	0049					1 15 17 30		All	3200		
0205	146402	260607	202432	0036					15 30		All	4000		
0206	146432	260425	201432	0036					15 30		All	3600		
0207	146432	260425	201432	0036					15 30		All	3800		
0208	146432	260425	No Replacement Repair With Individual Parts.						15		All	4000		
0209	146432	260432	No Replacement Repair With Individual Parts.						15		All	2700		
0210	146432	260425	201432	0036					15 30		All	4000		
0211	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0212	146402	260607	202432	0036					15 30		All	3200		
0213	146401	260607	202432	0036					15 30		All	3200		
0214	146402	260607	202432	0036					15 30		All	3600		
0215	146432	260865	201432	0036					15 30		All	3600		
0216	146402	260607	202432	0036					15 30		All	4000		
0217	146432	260425	201432	0036					15 30		All	3000		
0218	146402	260607	202432	0036					15 30		All	3600		
0219	146432	260425	201432	0036					15 30		All	3800		
0220	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0221	146431	260425	201432	0036					15 30		All	3800		
0222	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		

146400 to 146499

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
0223	146402	260607	202432	0036					15 30		All	4000		
0224	146432	260425	201432	0036					15 30		All	4000		
0225	146432	260425	201432	0036					15 30		All	3600		
0226	146431	260425	201432	0036					15 30		All	3800		
0227	146432	260359	No Replacement Repair With Individual Parts.						15		All	4000		
0228	146452	260389	202452	0049					15 30		All	3600		
0229	146452	260389	202452	0049					15 17 30		All	4000		
0230	146402	260607	202432	0036					15 30		All	3600		
0231	146402	260607	202432	0036					15 30		All	4000		
0232	146400	260607	202432	0036					15 30		All	4000		
0233	146402	260607	202432	0036					15 30		All	3600		
0234	146432	260425	No Replacement Repair With Individual Parts.						15		All	3800		
0235	146402	260607	202432	0036					15 30		All	3600		
0236	146452	260389	202452	0049					15 30		All	4000		
0237	146434	260425	203437	0041					15 30		All	3600		
0238	146452	260389	202452	1049					15 16 30		All	3000		
0239	146414	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0240	146432	260425	201432	0036					15 30		All	4000		
0241	146402	260607	202432	0036					15 30		All	3600		
0242	146402	260607	202432	0036					15 30		All	3800		
0243	146402	260607	202432	0036					15 30		All	4000		
0244	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0245	146402	260607	202432	0036					15 30		All	3300		
0246	146432	260663	202432	0035					15 30		All	3950		
0247	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
0248	146451	260389	202452	0049					15 16 30		All	3800		
0249	146402	260607	202432	0036					15 30		All	3600		
0250	146431	260423	No Replacement Repair With Individual Parts.						15		All	4000		
0251	146434	260508	No Replacement Repair With Individual Parts.						15		All	3600		
0252	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0253	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0254	146432	260425	201432	0036					15 30		All	4000		

146400 to 146499

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
0255	146452	260389	202452	0049					15 30		All	3800		
0256	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0257	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
0510	146401	260607	202432	0036					15 30		All	3600		
0515	146402	260607	202432	0036					15 30		All	3600		
0535	146432	260425	201432	0036					15 30		All	3600		
0536	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
0537	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0538	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0539	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0549	146452	260389	202452	0049					15 30		All	3600		
0555	146412	260358	No Replacement Repair With Individual Parts.						15		All	3800		
0570	146432	260359	No Replacement Repair With Individual Parts.						15		All	3700		
0575	146451	260389	202452	0049					15 30		All	3600		
0610	146401	260607	202432	0036					15 30		All	3600		
0611	146402	260607	202432	0036					15 30		All	3600		
0612	146403	260607	No Replacement Repair With Individual Parts.						15		All	3600		
0613	146404	260607	202437	0041					15 30		All	3600		
0614	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
0615	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0616	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0620	146451	260389	202452	0049					15 30		All	3600		
0621	146452	260389	202452	0049					15 30		All	3600		
0622	146452	260389	202452	0049					15 30		All	3600		
0631	146402	260607	No Replacement Repair With Individual Parts.						15		All	3800		
0632	146403	260607	No Replacement Repair With Individual Parts.						15		All	3800		
0633	146451	260389	202452	0049					15 17 30		All	3200		
0634	146431	260425	201432	0036					15 30		All	3600		
0635	146402	260607	202432	0036					15 30		All	4000		
0636	146402	260607	202432	0036					15 30		All	4000		
0637	146402	260607	202432	0036					15 30		All	4000		
0638	146402	260607	202432	0036					15 30		All	3600		
0639	146402	260607	202432	0036					15 30		All	4000		
0640	146402	260607	202432	0036					15 30		All	3300		
0641	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
0642	146431	260425	201432	0036					15 30		All	3600		

146400 to 146499

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
0643	146432	260425	201432	0036					15 30		All	3600		
0644	146432	260425	201432	0036					15 30		All	3600		
0645	146432	260425	201432	0036					15 30		All	3000		
0646	146402	260607	202432	0036					15 30		All	3600		
0647	146432	260663	202437	0041					15 30		All	3950		
0648	146401	260607	202432	0036					15 30		All	3800		
0649	146402	260607	202432	0036					15 30		All	4000		
0650	146432	260425	201432	0036					15 30		All	4000		
0651	146451	260389	202452	0049					15 17 30		All	3600		
0652	146402	260607	202432	0036					15 30		All	4000		
0653	146431	260423	No Replacement Repair With Individual Parts.						15		All	3800		
0654	146431	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0655	146451	260389	202452	0049					15 17 30		All	3400		
0656	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0657	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0658	146401	260607	202432	0036					15 30		All	3600		
0659	146402	260607	202432	0036					15 30		All	3900		
0660	146402	260607	202432	0036					15 30		All	3600		
0661	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0662	146401	260607	202432	0036					15 30		All	4000		
0663	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0664	146432	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0665	146432	260425	201432	0036					15 30		All	3800		
0666	146402	260607	202432	0036					15 30		All	3600		
0667	146412	260358	No Replacement Repair With Individual Parts.						15		All	3800		
0668	146402	260607	202432	0036					15 30		All	4000		
0669	146451	260389	202452	0049					1 15 17 30					
0670	146431	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0671	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
0672	146432	260425	201432	0036					15 30		All	3600		
0673	146432	260865	201432	0036					15 30		All	3600		

146400 to 146499

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
0674	146451	260389	202452	0049					15 30 113		All	3450		
0675	146451	260389	202452	0049					1 15 30 113					
0676	146432	260425	202432	0036					15 30		All	4000		
0677	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0678	146432	260663	202432	0035					15 30		All	3600		
0679	146402	260607	202432	0036					15 30		All	3600		
0680	146432	260425	201432	0036					15 30		All	3000		
0681	146432	260425	No Replacement Repair With Individual Parts.						15		All	4000	K	
0682	146451	260389	202452	0049					15 30		All	3800		
0683	146452	260389	202452	0049					15 30		All	3600		
0684	146432	260423	No Replacement Repair With Individual Parts.						15		All	3800		
0685	146452	260389	202452	0049					15 30		All	4000		
0686	146432	260359	No Replacement Repair With Individual Parts.						15		All	1800		
0687	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
0688	146402	260607	202432	0036					15 30		All	3400		
0689	146402	260607	202432	0036					15 30		All	4000		
0690	146404	260607	No Replacement Repair With Individual Parts.						7 15		All	4000		
0691	146402	260607	202432	0036					15 30		All	4000		
0692	146452	260389	202452	0049					1 15 30 113					
0693	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0694	146412	260667	No Replacement Repair With Individual Parts.						15		All	3900		
0695	146402	260607	202432	0036					15 30		All	3600		
0696	146402	260607	202432	0036					15 30		All	4000		
0697	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0698	146401	260607	202432	0036					15 30		All	3600		
0699	146452	260389	202452	0049					15 17 30		All	3300	390633	K
0700	146402	260607	202432	0036					15 30		All	3600		
0701	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0702	146432	260425	201432	0036					15 30		All	3600		
0703	146452	260389	202452	0049					15 17 30		All	2800		

146400 to 146499

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
0704	146432	260358	No Replacement Repair With Individual Parts.						15		All	3950	299771	
0705	146414	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0706	146412	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0707	146402	260607	202432	0036					15 30		All	4000		
0708	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0709	146452	260389	202452	0049					15 30 113		All	3500		
0710	146451	260389	202452	0049					15 16 30		All	3800		
0711	146401	260607	202432	0036					15 30		All	3600		
0712	146432	260425	201432	0036					15 30		All	3800		
0713	146402	260607	202432	0036					15 30		All	3600		
0714	146431	260423	No Replacement Repair With Individual Parts.						15		All	2700		
0715	146452	260389	202452	0049					1 15 30		All	4000		
0716	146432	260359	No Replacement Repair With Individual Parts.						15		All	4000		
0717	146401	260607	202432	0036					15 30		All	3600		
0718	146434	260425	203437	0041					15 30		All	3600		
0719	146432	260609	No Replacement Repair With Individual Parts.						15		All	3600		
0720	146402	260607	202432	0036					15 30		All	4000		
0721	146451	260389	202452	0049					15 30		All	4000		
0722	146401	260607	202432	0036					15 30		All	3600		
0723	146431	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0724	146452	260389	202452	0049					15 30		All	4000		
0725	146452	260389	202452	0049					1 15 30		All	3800		
0726	146402	260607	202432	0036					15 30		All	4000		
0727	146432	260425	No Replacement Repair With Individual Parts.						15		All	3300		
0728	146402	260607	202432	0036					15 30		All	3600		
0729	146402	260607	202432	0036					15 30		All	3600		
0730	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0731	146432	260425	201432	0036					15 30		All	3600		
0732	146402	260607	202432	0036					15 30		All	4000		
0733	146432	260423	No Replacement Repair With Individual Parts.						15		All	3900		
0734	146431	260865	201432	0036					15 30		All	3200		
0735	146452	260389	202452	0049					15 16 30		All	3600		

146400 to 146499

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
0736	146452	260389	202452	0049					15 16 30		All	4000		
0737	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0738	146411	260729	No Replacement Repair With Individual Parts.						15		All	2900		
0739	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0740	146452	260389	202452	0049					15 30		All	3800		
0741	146402	260607	202432	0036					15 30		All	3800		
0742	146402	260607	202432	0036					15 30		All	4000		
0743	146432	260663	202432	0035					15 30		All	3600		
0744	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0745	146402	260607	202432	0036					15 30		All	3800		
0746	146412	260358	No Replacement Repair With Individual Parts.						15		All	3600		
0747	146432	260425	201432	0036					15 30		All	3600		
0748	146431	260425	No Replacement Repair With Individual Parts.						15		All	4000		
0749	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0750	146452	260389	202452	0049					15 30		All	3600		
0751	146432	260663	No Replacement Repair With Individual Parts.						15		All	3600		
0752	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0753	146432	260425	201432	0036					15 30		All	3600		
0754	146402	260607	202432	0036					15 30		All	3800		
0755	146402	260472	No Replacement Repair With Individual Parts.						15		All	3200		
0756	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0757	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
0758	146402	260607	202432	0036					15 30		All	4000		
0759	146404	260607	No Replacement Repair With Individual Parts.						15		All	4000		
0760	146431	260358	No Replacement Repair With Individual Parts.						15		All	3300	299771	
0761	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0762	146401	260607	202432	0036					15 30		All	3600		
0763	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
0764	146432	260667	No Replacement Repair With Individual Parts.						15		All	3900		
0766	146412	260472	No Replacement Repair With Individual Parts.						15		All	3600		
0767	146404	260607	No Replacement Repair With Individual Parts.						15		All	3600		
0768	146401	260607	202432	0036					15 30		All	4000		
0769	146431	260425	No Replacement Repair With Individual Parts.						15		All	4000		
0770	146401	260607	202432	0036					15 30		All	3600		
0771	146402	260472	No Replacement Repair With Individual Parts.						15		All	3200		
0772	146431	260425	201432	0036					15 30		All	3600	K	
0773	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0774	146451	260389	No Replacement Repair With Individual Parts.						15		All	3300		
0775	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
0776	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	

146400 to 146499

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
0777	146402	260607	202432	0036					15 30		All	3600		
0778	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
0779	146431	260425	201432	0036					15 30		All	3600		
0780	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
0781	146404	260607	202432	0036					15 30		All	3600		
0782	146401	260667	No Replacement Repair With Individual Parts.						15		All	3600		
0783	146432	260425	201432	0036					15 30		All	3900		
0784	146434	260508	No Replacement Repair With Individual Parts.						15		All	3600		
0785	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
0786	146431	260358	No Replacement Repair With Individual Parts.						15		All	3300	299771	
0787	146402	260607	202432	0036					15 30		All	3800		
0788	146451	260389	202452	0049					15 17 30		All	3000		
0789	146431	260609	No Replacement Repair With Individual Parts.						15		All	3600		
1015	146402	260607	202432	0036					15 30		All	3600		
1035	146432	260425	201432	0036					15 30		All	3600		
1036	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
1037	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1038	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1039	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1049	146452	260389	202452	0049					15 30		All	3600		
1070	146432	260359	No Replacement Repair With Individual Parts.						15		All	3700		
1110	146401	260607	202432	0036					15 30		All	3600		
1111	146402	260607	202432	0036					15 30		All	3600		
1112	146403	260607	202432	0036					15 30		All	3600		
1113	146404	260607	202437	0041					15 30		All	3600		
1114	146402	260607	202432	0036					15 30		All	3600		
1115	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1116	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1117	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1118	146432	260432	No Replacement Repair With Individual Parts.						15		All	3600		
1119	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1120	146451	260389	202452	0049					15 30		All	3600		
1121	146452	260389	202452	0049					15 30		All	3600		
1123	146407	260607	202437	0041					15 30		All	3600		
1124	146437	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1125	146457	260389	No Replacement Repair With Individual Parts.						15		All	3600		
1130	146402	260607	202432	0036					15 30		All	4000		
1131	146402	260607	202432	0036					15 30		All	3000		

146400 to 146499

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
1132	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1133	146432	260425	201432	0036					15 30		All	3900		
1134	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1135	146402	260607	202432	0036					15 30		All	3600		
1136	146431	260425	201432	0036					15 30		All	3600		
1137	146431	260425	201432	0036					15 30		All	3600		
1138	146431	260423	No Replacement Repair With Individual Parts.						15		All	3600		
1139	146401	260607	202432	0036					15 30		All	3600		
1140	146432	260425	201432	0036					15 30		All	3000		
1141	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1142	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1143	146434	260508	No Replacement Repair With Individual Parts.						15		All	3600		
1144	146451	260389	202452	0049					15 17 30					
1145	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1146	146451	260389	202452	0049					15 17 30		All	3200		
1147	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1148	146451	260389	202452	0049					15 17 30		All	3600		
1149	146431	260425	201432	0036					15 30		All	3800		
1150	146401	260667	No Replacement Repair With Individual Parts.						15		All	3600		
1151	146431	260609	No Replacement Repair With Individual Parts.						15		All	3600		
1152	146402	260472	No Replacement Repair With Individual Parts.						15		All	3200		
1153	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1154	146432	260425	201432	0036					15 30		All	3600		
1155	146402	260607	202432	0036					15 30		All	3800		
1156	146401	260607	202432	0036					15 30		All	3600		
1157	146431	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1158	146402	260607	202432	0036					15 30		All	3600		
1159	146412	260472	No Replacement Repair With Individual Parts.						15		All	4000		
1160	146402	260607	202432	0036					15 30		All	3800		
1161	146431	260472	No Replacement Repair With Individual Parts.						15		All	4000		
1162	146452	260389	No Replacement Repair With Individual Parts.						15		All	3600		
1163	146401	260607	202432	0036					15 30		All	3600		
1164	146432	260358	No Replacement Repair With Individual Parts.						15		All	4000	299771	
1165	146434	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1166	146431	260425	No Replacement Repair With Individual Parts.						15		All	4000		
1167	146452	260389	202452	0049					15 17 30		All	2800		

146400 to 146499

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
1168	146452	260389	202452	0049					15 30		All	3800		
1169	146432	260359							15		All	3800		
1170	146401	260607	202432	0036					15 30		All	4000		
1171	146432	260425	201432	0036					15 30		All	3900		
1172	146451	260389	202452	0049					15 16 30					
1173	146432	260667	No Replacement Repair With Individual Parts.						15		All	3900		
1174	146411	260729	No Replacement Repair With Individual Parts.						15		All	2900		
1175	146401	260607	202432	0036					15 30		All	4000		
1176	146401	260607	202432	0036					15 30		All	2400		
1177	146402	260607	202432	0036					15 30		All	2500		
1178	146402	260607	202432	0036					15 30		All	3800		
1179	146451	260389	No Replacement Repair With Individual Parts.						15		All	3300		
1180	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1181	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
1182	146402	260607	202432	0036					15 30		All	3600		
1183	146404	260607	202437	0041					15 30		All	4000		
1184	146432	260508	No Replacement Repair With Individual Parts.						15					
1185	146432	260359	No Replacement Repair With Individual Parts.						15		All	4000		
1186	146431	260425	201432	0035					15 30		All	3600		
1187	146451	260389	202452	0049					15 17 30		All	3600		
1188	146432	260425	201432	0036					15 30		All	3800	K	
1189	146402	260607	202432	0036					15 30		All	4000		
1190	146452	260389	202452	0049					15 30		All	4000		
1191	146402	260607	202432	0036					15 30		All	4000		
1192	146431	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1193	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1194	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1195	146402	260607	202432	0036					15 30		All	3000		
1196	146401	260607	202432	0036					15 30		All	3600		
1197	146402	260607	202432	0036					15 30		All	3600		
1198	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1199	146451	260389	202452	0049					15 30		All	3600		
1200	146404	260607	202437	0041					15 30		All	3600		
1201	146432	260472	No Replacement Repair With Individual Parts.						15		All	3300		

146400 to 146499

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
1202	146451	260389	202452	0049					15 17 30		All	3200		
1203	146451	260389	202452	0049					1 15 17 30					
1204	146404	260607	202437	0041					15 30		All	3600		
1205	146431	260425	No Replacement Repair With Individual Parts.						15		All	4000		
1206	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1207	146431	260425	201432	0036					15 30					
1208	146402	260472	No Replacement Repair With Individual Parts.						15		All	3200		
1209	146432	260423	No Replacement Repair With Individual Parts.						15		All	3800		
1210	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1211	146432	260425	201432	0036					15 30		All	3000		
1212	146407	260607	202437	0041					15 30		All	3500		
1213	146407	260607	No Replacement Repair With Individual Parts.						15		All	3200		
1214	146402	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1215	146402	260607	202432	0036					15 30		All	3600		
1216	146432	260472	No Replacement Repair With Individual Parts.						15		All	4000		
1217	146452	260389	202452	0049					15 17 30		All	2800		
1218	146402	260607	No Replacement Repair With Individual Parts.						15		All	4000		
1219	146431	260425	201432	0036					15 30		All	3600		
1220	146431	260358	No Replacement Repair With Individual Parts.						15		All	3800	299771	
1221	146402	260607	202432	0036					15 30		All	3500		
1222	146402	260607	202432	0036					15 30		All	4000		
1223	146402	260607	202432	0036					15 30		All	3800		
1224	146402	260607	202432	0036					15 30		All	3600		
1225	146412	260358	No Replacement Repair With Individual Parts.						15		All	3800		
1226	146401	260607	No Replacement Repair With Individual Parts.						15		All	3800		
1227	146402	260607	202432	0036					15 30		All	4000		
1538	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1539	146432	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1610	146401	260607	202432	0036					15 30		All	3600		
1611	146402	260607	202432	0036					15 30		All	3600		
1612	146403	260607	No Replacement Repair With Individual Parts.						15		All	3600		
1613	146404	260607	202437	0041					15 30		All	3600		
1614	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
1615	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1616	146432	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1617	146432	260425	201432	0036					15 30		All	3600		

146400 to 146499

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
1618	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
1619	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1620	146451	260389	202452	0049					15 30		All	3600		
1621	146452	260389	202452	0049					15 30		All	3600		
1623	146407	260607	202437	0041					15 30		All	3600		
1624	146437	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1625	146457	260389	No Replacement Repair With Individual Parts.						15		All	3600		
1630	146402	260607	202432	0036					15 30		All	4000		
1631	146402	260607	202432	0036					15 30		All	3000		
1632	146432	260472	No Replacement Repair With Individual Parts.						15		All	4000		
1633	146402	260607	No Replacement Repair With Individual Parts.						15		All	4000		
1634	146451	260389	202452	0049					1 15 17 30					
1635	146451	260389	202452	0049					15 17 30		All	3200		
1636	146451	260389	202452	0049					15 30 113					
1637	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1638	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1639	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1640	146411	260729	No Replacement Repair With Individual Parts.						15		All	2900		
1641	146402	260607	202432	0036					15 30		All	3600		
1642	146402	260607	202432	0036					15 30		All	4000		
1643	146431	260425	201432	0036					15 30		All	3600		
1644	146451	260389	202452	0049					1 15 17 30					
1645	146401	260607	202432	0036					15 30		All	3600		
1646	146451	260389	No Replacement Repair With Individual Parts.						15		All	3300		
1647	146402	260607	202432	0036					15 30		All	4000		
1648	146451	260389	202452	0049					15 17 30		All	3600		
1649	146402	260607	202432	0036					15 30		All	3000		
1650	146451	260389	202452	0049					15 16 30		All	3600		
1651	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1652	146431	260425	201432	0036					15 30		All	3600		
1653	146431	260425	202432	0036					15 30		All	3600		

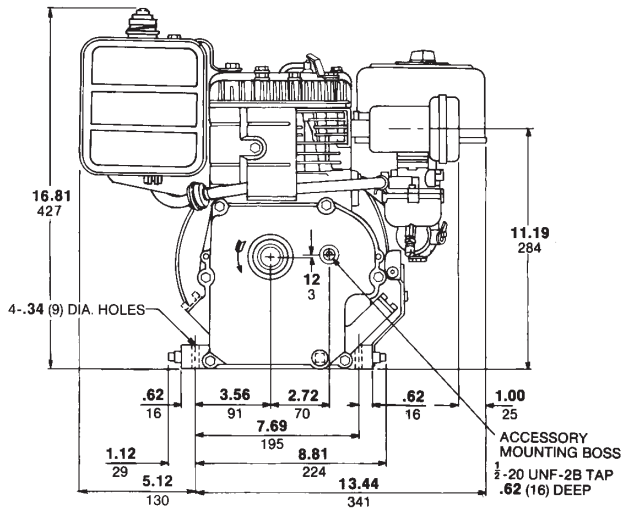
146400 to 146499

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
1654	146452	260389	No Replacement Repair With Individual Parts.						15		All	3600		
1655	146431	260425	No Replacement Repair With Individual Parts.						15		All	4000		
1656	146431	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1657	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1658	146431	260425	201432	0036					15 30		All	3800		
1659	146402	260472	No Replacement Repair With Individual Parts.						15		All	3800		
1660	146402	260607	202432	0036					15 30		All	3800		
1661	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1662	146412	260358	No Replacement Repair With Individual Parts.						15		All	3800		
1663	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1664	146401	260607	202432	0036					15 30		All	3600		
1665	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1666	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1667	146402	260472	No Replacement Repair With Individual Parts.						15		All	3200		
1668	146451	260389	202452	0049					15 30		All	3600		
1669	190401	260667	No Replacement Repair With Individual Parts.						15		All	3600		
1670	146431	260425	201432	0036					15 30		All	3600	K	
1671	146432	260425	201432	0036					15 30		All	3000		
1672	146432	260472	No Replacement Repair With Individual Parts.						15		All	3300		
1673	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1674	146432	260359	No Replacement Repair With Individual Parts.						15		All	3700		
1675	146434	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1676	146431	260358	No Replacement Repair With Individual Parts.						15		All	3600	299771	
1677	146402	260607	202432	0036					15 30		All	2500		
1678	146432	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1679	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
1680	146402	260607	202432	0036					15 30		All	4000		
1681	146452	260389	202452	0049					15 30		All	4000		
1682	146402	260607	No Replacement Repair With Individual Parts.						15		All	3600		
1683	146431	260423	No Replacement Repair With Individual Parts.						15		All	3600		
1684	146401	260607	202432	0036					15 30		All	2400		
1685	146431	260425	201432	0036					15 30		All	3600		
1686	146402	260607	202432	0036					15 30		All	3600		
1687	146432	260425	201432	0036					15 30		All	3000		
1688	146401	260607	202432	0036					15 30		All	4000		
1689	146402	260607	202432	0036					15 30		All	3600		
1690	146432	260472	No Replacement Repair With Individual Parts.						15		All	4000		
1691	146432	260423	No Replacement Repair With Individual Parts.						15		All	3600		
1692	146432	260423	No Replacement Repair With Individual Parts.						15		All	3800		
1693	146431	260425	201432	0036					15 30		All	3800		
1694	146431	260358	No Replacement Repair With Individual Parts.						15		All	4000	299771	

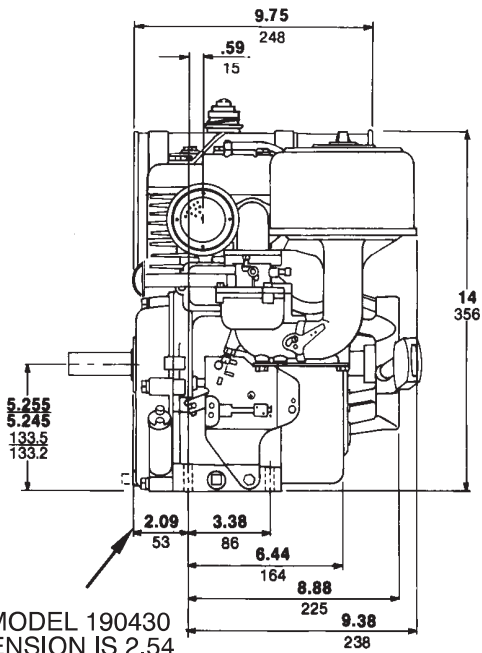
146400 to 146499

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
1695	146402	260607	202432	0036					15 30		All	3200		
1697	146451	260389	202452	0049					1 15 17 30					
1698	146432	260425	201432	0036					15 30		All	3900		
1699	146401	260607	202432	0036					15 30		All	4000		
1700	146432	260425	201432	0036					15 30		All	3800		
1701	146432	260508	No Replacement Repair With Individual Parts.						15		All	3600		
1702	146434	260508	No Replacement Repair With Individual Parts.						15		All	3600		
1703	146432	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1704	146402	260607	202432	0036					15 30		All	3800		
1705	146404	260607	No Replacement Repair With Individual Parts.						15		All	4000		
1706	146437	260425	No Replacement Repair With Individual Parts.						15		All	3600		
1707	146407	260607	No Replacement Repair With Individual Parts.						15		All	3200		
1708	146432	260359	No Replacement Repair With Individual Parts.						15		All	3600		
1710	146431	260359	No Replacement Repair With Individual Parts.						15		All	3800		
1711	146402	260607	202432	0036					15 30		All	4000		
1712	146432	260359	No Replacement Repair With Individual Parts.						15		All	3100		
1713	146401	260607	202432	0036					15 30		All	3800		
1714	146452	260389	No Replacement Repair With Individual Parts.						15		All	3300		
1715	146402	260607	202432	0036					15 30		All	3200		
1716	146431	260865	201432	0036					15 30		All	3800		
1717	146432	260425	201432	0036					15 30				K	

MODEL 146400



ON MODEL 190430
DIMENSION IS 2.54



ON MODEL 190430
DIMENSION IS 2.54

MODEL 200000

