

**146700 to 146799**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 146700 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 33:** If the replacement engine supersedes to or is a Model 210000 series engine, refer to the illustrations located after the conversion data for this model series. The overall dimensions which differ, are shown in the illustrations. If after making a visual inspection and it is determined the Model 210000 series engine cannot be used because of equipment interference, the original engine should be repaired with a short block and/or individual parts.

**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:

**146700 to 146799**

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
0015	146702	260356	215702	0015					33		All	4000		
0016	146702	260356	215902	0020					33		All	3600		
0017	146702	260356	215902	0020					33		All	4000		
0018	146702	260356	No Replacement Repair With Individual Parts.								All	3600		
0019	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
0110	146701	260356	215902	0020					33		All	4000		
0111	146702	260356	215902	0020					33		All	4000		
0120	146702	260356	215902	0020					33		All	4000		
0121	146701	260356	No Replacement Repair With Individual Parts.								All	4000		
0122	146702	260356	215902	0020					33		All	4000		
0123	146702	260356	215902	0020					33		All	3500		
0124	146702	260970	No Replacement Repair With Individual Parts.								All	3700		
0126	146702	260506	No Replacement Repair With Individual Parts.								All	4000		
0127	146702	260356	215902	0020							All	3100		
0128	146702	260356	215902	0020					33		All	3100		
0129	146702	260356	215902	0020					33		All	4000		
0131	146702	260356	215902	0020					33		All	4000		
0132	146704	260506	No Replacement Repair With Individual Parts.								All	4000		
0133	146701	260356	No Replacement Repair With Individual Parts.								All	3700		
0134	146701	260356	215902	0020					33		All	3700		
0135	146702	260356	215902	0020					33		All	3500		
0136	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
0137	146701	260356	No Replacement Repair With Individual Parts.								All	3700		
0138	146702	260356	215902	0020					33		All	4000		
0139	146702	260506	No Replacement Repair With Individual Parts.								All	3700		
0140	146702	260356	215902	0020					33		All	4000		
0141	146702	260356	215702	0015					33		All	3700		
0142	146702	260356	215902	0020					33		All	4000		
0143	146702	260356	215702	0015					33		All	3100		

146700 to 146799

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	146702	260356	215702	0015					33		All	3600		
0147	146702	260356	215902	0020					33		All	3800		
0148	146701	260356	No Replacement Repair With Individual Parts.								All	4000		
0149	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
0150	146702	260506	No Replacement Repair With Individual Parts.								All	4000		
0151	146702	260356	215702	0015					33		All	3100		
0152	146704	260506	No Replacement Repair With Individual Parts.								All	3900		
0153	146702	260506	No Replacement Repair With Individual Parts.								All	3900		
0154	146702	260356	215902	0020					33		All	4000		
0155	146701	260356	No Replacement Repair With Individual Parts.								All	4000		
0156	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
0158	146702	260356	215902	0020					33		All	4000		
0159	146702	260356	215902	0020					33		All	3100		
0160	146701	260536	No Replacement Repair With Individual Parts.								All	4000		
0161	146702	260506	No Replacement Repair With Individual Parts.								All	3600		
0162	146702	260356	215902	0020					33		All	4000		
0163	146702	260356	215902	0020					33		All	4000		
0164	146702	260356	215902	0020					33		All	3200		
0165	146702	260356	215902	0020					33		All	4000		
0515	146702	260356	215702	0015					33		All	4000		
0516	146702	260356	215902	0020					33		All	3600		
0517	146702	260356	215902	0020					33		All	4000		
0610	146701	260356	215902	0020					33		All	4000		
0611	146702	260356	215902	0020					33		All	4000		
0612	146703	260356	No Replacement Repair With Individual Parts.								All	4000		
0613	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
0614	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
0625	146702	260356	215702	0015					33		All	3150		
0626	146702	260356	215702	0015					33		All	4000		
0628	146702	260356	215702	0020					33		All	4000		
0629	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
0630	146701	260356	No Replacement Repair With Individual Parts.								All	4000		
0631	146702	260356	215902	0020					33		All	4000		
0632	146702	260356	215702	0015					33		All	3100		
0633	146702	260498	No Replacement Repair With Individual Parts.								All	3800		
0634	146702	260356	215702	0015					33		All	4000		
0635	146702	260356	215902	0020					33		All	3700		
0636	146702	260356	215902	0020					33		All	4000		
0637	146702	260356	215902	0020					33		All	4000		
0639	146702	260356	215902	0020					33		All	4000		
0640	146701	260356	215902	0020					33		All	3700		
0641	146702	260356	215902	0020					33		All	3300		
0642	146702	260356	215902	0020					33		All	4000		
0643	146702	260356	215902	0020					33		All	4000		
0644	146702	260498	No Replacement Repair With Individual Parts.								All	4000		
0645	146702	260356	215902	0020					33		All	3600		
0646	146704	260356	No Replacement Repair With Individual Parts.								All	3200		
0647	146702	260356	215702	0015					33		All	3200		
0648	146702	260356	215902	0020					33		All	4000		
0649	146702	260356	215702	0015					33		All	3500		
0650	146702	260356	215702	0015							All	4000		
0651	146702	260356	215702	0015					33		All	4000		
0652	146702	260506	No Replacement Repair With Individual Parts.								All	3800		
0653	146702	260356	215902	0020					33		All	4000		
0654	146702	260506	No Replacement Repair With Individual Parts.								All	4000		
0655	146702	260356	215902	0020					33		All	3600		

146700 to 146799

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
0656	146702	260356	215902	0020					33		All	3100		
0657	146702	260356	215702	0015							All	4000		
0658	146702	260506	No Replacement Repair With Individual Parts.								All	4000		
0659	146702	260356	215702	0015					33		All	3600		
0660	146701	260356	No Replacement Repair With Individual Parts.								All	3800		
0661	146702	260356	215902	0020					33		All	4000		
0662	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
0663	146702	260356	215702	0015					33		All	3600		
0664	146701	260356	No Replacement Repair With Individual Parts.								All	3800		
1015	146702	260356	215702	0015					33		All	4000		
1016	146702	260356	215902	0020					33		All	3600		
1017	146702	260356	215902	0020					33		All	4000		
1110	146701	260356	215902	0020					33		All	4000		
1111	146702	260356	No Replacement Repair With Individual Parts.								All	4000		
1112	146703	260356	No Replacement Repair With Individual Parts.								All	4000		
1113	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
1114	146705	260356	No Replacement Repair With Individual Parts.								All	4000		
1115	146707	260356	215707	0025					33		All	4000		
1120	146702	260356	No Replacement Repair With Individual Parts.								All	3800		
1121	146702	260506	No Replacement Repair With Individual Parts.								All	3600		
1122	146702	260356	215702	0015					33		All	3100		
1123	146702	260356	215902	0020					33		All	3400		
1124	146702	260356	215902	0020					33		All	4000		
1125	146702	260356	215902	0020					33		All	3300		
1126	146702	260356	215902	0020					33		All	3100		
1127	146701	260356	215902	0020					33		All	3700		
1128	146702	260506	No Replacement Repair With Individual Parts.								All	3500		
1129	146702	260356	215902	0020					33		All	4000		
1130	146702	260970	No Replacement Repair With Individual Parts.											
1131	146702	260356	215902	0015					33		All	3150		
1132	146702	260356	215902	0020					33		All	4000		
1133	146702	260356	215902	0020					33		All	4000		
1134	146701	260536	No Replacement Repair With Individual Parts.								All	3800		
1135	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
1137	146702	260356	215902	0020					33		All	3700		
1138	146702	260356	215702	0015					33		All	4000		
1139	146702	260498	No Replacement Repair With Individual Parts.								All	3800		
1140	146701	260356	215902	0020					33		All	3700		
1142	146702	260356	215902	0020					33		All	4000		
1143	146702	260356	215902	0020					33		All	3300		
1144	146702	260356	215702	0015					33		All	4000		
1145	146702	260536	No Replacement Repair With Individual Parts.								All	3800		
1146	146702	260356	215902	0020					33		All	4000		
1147	146702	260506	No Replacement Repair With Individual Parts.								All	4000		
1148	146701	260356	No Replacement Repair With Individual Parts.								All	3700		
1149	146705	260356	215707	0025					33		All	3600		
1150	146702	260356	215702	0015					33		All	3600		
1151	146707	260356	215707	0025					33		All	3600		
1152	146702	260356	No Replacement Repair With Individual Parts.								All	3600		
1153	146702	260356	215702	0015					33		All	3800		
1154	146707	260356	215707	0025					33		All	3800		
1610	146701	260356	215702	0020					33		All	4000		
1611	146702	260356	215902	0020					33		All	4000		
1612	146703	260356	No Replacement Repair With Individual Parts.								All	4000		
1613	146704	260356	No Replacement Repair With Individual Parts.								All	4000		
1614	146705	260356	No Replacement Repair With Individual Parts.								All	4000		

**146700 to 146799**

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	
1615	146707	260356	215707	0025					33		All	4000			
1625	146702	260356	No Replacement Repair With Individual Parts.									All	3600		
1626	146701	260356	215902	0020					33		All	3700			
1627	146705	260356	215707	0025					33		All	3600			
1628	146702	260356	215902	0020					33		All	3800			
1629	146707	260356	215707	0025					33		All	3800			
1630	146702	260356	No Replacement Repair With Individual Parts.									All	3800		
1631	146702	260356	215702	0015					33		All	3000			
1632	146702	260356	215902	0020					33		All	3600			
1633	146707	260356	215707	0025					33		All	3600			
1634	146702	260356	215702	0015					33		All	4000			
1635	146705	260356	215907	0028					33		All	3800			
1636	146702	260356	215902	0020					33		All	4000			
1639	146702	260506	No Replacement Repair With Individual Parts.									All	4000		