

**253700 to 253799**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 253700 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:

**253700 to 253799**

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	253702	491647	217902	0015					33		All	3600			
0016	253702	491647	217902	0020					33		All	3600			
0020	253702	491647	217902	0015					33		01	3600			
0025	253707	491647	217907	0025					33		01	3600			
0026	253707	491647	217907	0028					33		01 02	3500 3600			
0027	253707	491646	No Replacement Repair With Individual Parts.									01	3200		
0028	253707	491647	21B907	0028					33		All	3600			
0030	253707	491647	No Replacement Repair With Individual Parts.									All	3100		
0031	253703	491647	No Replacement Repair With Individual Parts.									01	3100		
0032	253703	491647	No Replacement Repair With Individual Parts.									01	3100		
0111	253702	491647	217902	0015					33		01	3600			
0118	253707	491647	217907	0025					33		01	3600			
0130	253707	491647	217907	0025					33		01	3400			
0131	253707	491647	217907	0025					33		01	3300			
0132	253707	491647	217907	0025					33		01	3600			
0133	253702	491647	217902	0015					33		01	3600			
0134	253702	491647	217902	0015					33		01	3600			
0135	253702	491647	217902	0015					33		01	3500			
0136	253707	491647	217907	0025					33		01	3700			
0137	253707	491647	217907	0025					33		01	3250			
0138	253702	491647	217902	0015					33		All	3600			
0139	253707	491647	217907	0019					33		01	3600			
0140	253702	491647	217902	0015					33		01	3600			
0141	253707	491647	217907	0025					33		01	3600			
0142	253707	491647	217907	0028					33		01	3600			
0143	253707	491647	217907	0028					33		01	3500			
0144	253707	491647	No Replacement Repair With Individual Parts.									01	3600		

253700 to 253799

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	
0145	253707	491647	217907	0025	1	393800	1	392595	33		01	3700			
							1	392606							
0146	253702	491647	217902	0015					33		01	3600			
0147	253707	491647	21B907	0028					33		01	3600			
0148	253702	491647	217902	0020					33		All	3600			
0149	253707	491647	21B907	0028					33		All	3600			
0150	253707	491647	21B907	0028					33		All	3600			
0151	253706	491647	No Replacement Repair With Individual Parts.									01	3600		
0152	253706	491647	No Replacement Repair With Individual Parts.									01	3200		
0153	253707	491647	21B907	0028					33		01	3600			
0154	253707	491647	217907	0025					33		01	3400			
0155	253707	491647	No Replacement Repair With Individual Parts.									All	3400		
0156	253702	491647	217902	0015					33		01	3400			
0157	253707	491647	217907	0025					33		01	3400			
0158	253707	491647	217907	0025					33		All	3300			
0159	253707	491647	217907	0019					33		01	3300			
0160	253707	491647	21B907	0028					33		01	3500			
0161	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0162	253702	491647	217902	0020					33		01	3600			
0163	253707	491646	No Replacement Repair With Individual Parts.									01	3500		
0165	253702	491647	217902	0020					33		01	3600			
0166	253707	491647	No Replacement Repair With Individual Parts.									01	3600		
0167	253707	491647	217907	0025					33		01	3400			
0168	253707	491647	21B907	0028					33		01	3500			
0169	253707	491647	21B907	0028					33		01	3600			
0170	253707	491647	217907	0025					33		All	3500			
0171	253707	491647	217907	0025	1	393800	1	392595	33		01	3400			
0172	253707	491646	No Replacement Repair With Individual Parts.									01	3500		
											02	3200			
0173	253707	491647	21B907	0028					33		01	3500			
											02	3250			
0174	253702	491647	217902	0020					33		01	3600			
0175	253702	491647	217902	0020					33		01	3600			
0176	253707	491647	21B907	0028	1	393800	1	393295	33		01	3600			
							1	394890							
0177	253707	491647	21B907	0028					33		01	3300			
0178	253707	491647	217907	0028					33		01	3400			
0179	253707	491647	217907	0028					33		01	3000			
0180	253706	491647	No Replacement Repair With Individual Parts.									01	3200		
0181	253707	491646	No Replacement Repair With Individual Parts.									01	3400		
0182	253702	491647	No Replacement Repair With Individual Parts.									01	3300		
0183	253707	491646	No Replacement Repair With Individual Parts.									All	3400		
0184	253707	491647	21B907	0028					33		01	3000			
0185	253707	491647	21B907	0028					33		01	3000			
0186	253707	491647	217907	0028					33		01	3600			
0187	253707	491647	217907	0028					33		01	3400			
0188	253707	491647	21B907	0028					33		01	3200			
0189	253707	491647	No Replacement Repair With Individual Parts.									01	3600		
0190	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0191	253707	491647	No Replacement Repair With Individual Parts.									01	3600		
0192	253702	491647	217902	0020					33		01	3600			
0193	253707	491647	217907	0028					33		01	3600			
0194	253707	491647	217907	0025					33		01	3600			
0195	253707	491647	217907	0019					33		01	3300			
0196	253707	491647	217907	0019					33		01	3200			

253700 to 253799

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	
0197	253707	491647	217907	0025					33		01	3400			
0198	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0199	253707	491647	21B907	0028					33		01	3000			
0200	253707	491647	217907	0019	1	393800	1	392595	33		01	3500		1 392606	
0201	253707	491647	217907	0025					33		01	3400			
0202	253707	491647	217907	0025					33		01	3100			
0204	253707	491647	21B907	0028	1	393800	1	392595	33		01	3400			
0205	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0206	253707	491647	217907	0019					33		01	3400			
0208	253707	491647	217907	0025					33		01	3300			
0209	253707	491647	217907	0025	1	393800	1	392595	33		01	3300			
0210	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0211	253707	491647	21B907	0028					33		01	3500			
0212	253707	491647	217907	0025					33		01	3400			
0213	253707	491647	217907	0025					33		01	3400			
0214	253702	491647	217902	0020					33		01	3600			
0215	253707	491647	21B907	0028					33		01	3600			
0216	253707	491646	No Replacement Repair With Individual Parts.									01	3500		
0217	253707	491647	21B907	0028					33		01	3500			
0218	253707	491647	217907	0019					33		01	3400			
0219	253707	491647	217907	0025					33		01	3600			
0220	253707	491647	217907	0028					33		01	3250			
0221	253707	491647	217907	0028					33		01	3350			
0222	253707	491647	217907	0025	1	393800	1	392595	33		01	3400			
0223	253706	491647	No Replacement Repair With Individual Parts.									01	3200		
0224	253707	491647	21B907	0028					33		01	3400			
0225	253707	491647	No Replacement Repair With Individual Parts.									01	3600		
0226	253707	491647	21B907	0028					33		01	3600			
0227	253707	491647	21B907	0028					33		01	3500			
0228	253707	491646	No Replacement Repair With Individual Parts.									01	3500		
0229	253707	491647	217907	0025					33		01	3500			
0230	253707	491646	No Replacement Repair With Individual Parts.									01	3200		
0231	253707	491647	217907	0019					33		01	3600			
0246	253707	491647	No Replacement Repair With Individual Parts.									01	3400		
0247	253707	491647	217907	0025					33		01	3300			
0248	253707	491647	217907	0019					33		01	3500			
0249	253707	491647	217907	0025					33		01	3300			
0250	253707	491647	No Replacement Repair With Individual Parts.									01	3400		
0251	253707	491647	21B907	0028					33		01	3600			
0252	253707	491647	21B907	0028					33		01	3600			
0253	253707	491647	217907	0025					33		01	3500			
0254	253707	491647	21B907	0028					33		01	3600			
0270	253707	491647	No Replacement Repair With Individual Parts.									01	3400		
0315	253702	491647	217902	0015					33		01	3600			
0316	253702	491647	217902	0020					33		All	3600			
0318	253707	491647	No Replacement Repair With Individual Parts.									01	3400		
0325	253707	491647	217907	0025					33		01	3600			
0326	253707	491647	217907	0028					33		01	3500			
0327	253707	491646	No Replacement Repair With Individual Parts.									01	3200		
0328	253707	491647	21B907	0028					33		All	3600			
0400	253707	491647	217907	0025					33		01	3600			
0405	253702	491647	No Replacement Repair With Individual Parts.									01	3600		
0406	253707	491647	217907	0025					33		01	3400			
0407	253707	491647	217907	0025					33		01	3500			

253700 to 253799

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		
0408	253707	491647	21B907	0028					33		01	3250				
0409	253707	491647	217907	0025					33		01	3400				
0410	253707	491647	217907	0025					33		01	3400				
0411	253707	491647	217907	0025					33		01	3400				
0412	253707	491647	217907	0025					33		01	3600				
0413	253707	491647	217907	0025					33		01	3600				
0414	253702	491647	217902	0020					33		01	3600				
0415	253707	491647	21B907	0028					33		01	3600				
0416	253707	491647	21B907	0028					33		01	3600				
0417	253707	491646	No Replacement Repair With Individual Parts.										01	3600		
0418	253707	491647	217907	0025					33		01	3600				
0419	253707	491647	217907	0025					33		01	3300				
0420	253702	491647	217902	0020					33		01	3600				
0421	253707	491647	21B907	0028					33		01	3500				
0422	253707	491647	21B907	0028					33		01	3600				
0423	253702	491647	No Replacement Repair With Individual Parts.										01	3400		
0424	253707	491647	217907	0028					33		01	3600				
0425	253707	491647	21B907	0028					33		01	3400				
0426	253707	491647	No Replacement Repair With Individual Parts.										01	3600		
0427	253707	491647	217907	0028					33		01	3600				
0428	253707	491647	217907	0025					33		01	3300				
0429	253707	491647	217907	0019					33		01	3400				
0430	253707	491647	217907	0025					33		01	3400				
0431	253707	491647	No Replacement Repair With Individual Parts.										01	3400		
0432	253707	491647	No Replacement Repair With Individual Parts.										01	3400		
0433	253707	491647	217907	0025					33		01	3200				
4001	253707	491647	No Replacement Repair With Individual Parts.										01	3600		
4002	253707	491647	No Replacement Repair With Individual Parts.										01	3600		
4003	253707	491647	No Replacement Repair With Individual Parts.										01	3200		
4004	253702	491647	217902	0020					33		01	3600				
4005	253707	491647	No Replacement Repair With Individual Parts.										01	3600		
4006	253707	491646	No Replacement Repair With Individual Parts.										01	3500		