

**402400 to 402499**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 402400 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:**

**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:

**402400 to 402499**

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	402437	393823	No Replacement Repair With Individual Parts.								01	3400		
0016	402437	393823	No Replacement Repair With Individual Parts.								01	3400		
0111	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0112	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0130	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0131	402431	393962	No Replacement Repair With Individual Parts.								01	3600		
0132	402437	393964	No Replacement Repair With Individual Parts.								01	3750		
0133	402431	393964	No Replacement Repair With Individual Parts.								01	3750		
0134	402435	393964	No Replacement Repair With Individual Parts.								01	3300		
0135	402435	393964	No Replacement Repair With Individual Parts.								01	3600		
0136	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0137	402437	393964	No Replacement Repair With Individual Parts.								01	3100		
0138	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0139	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0515	402437	393823	No Replacement Repair With Individual Parts.								01	3400		
0516	402437	393823	No Replacement Repair With Individual Parts.								01	3400		
0609	402417	392976	No Replacement Repair With Individual Parts.								01	3600		
0610	402417	392976	No Replacement Repair With Individual Parts.								01	3600		
0611	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0612	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0630	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0631	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0632	402437	393964	No Replacement Repair With Individual Parts.								01	3750		
0633	402431	393964	No Replacement Repair With Individual Parts.								01	3750		
0634	402435	393964	No Replacement Repair With Individual Parts.								01	3300		
0635	402435	393964	No Replacement Repair With Individual Parts.								01	3600		
0636	402431	393823	No Replacement Repair With Individual Parts.								01	3600		
0637	402437	393823	No Replacement Repair With Individual Parts.								01	3600		
0639	402437	393823	No Replacement Repair With Individual Parts.								01	3450		
0640	402417	392976	No Replacement Repair With Individual Parts.											
0660	402417	392976	No Replacement Repair With Individual Parts.								01	3400		

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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
0661	402417	392976	No Replacement	Repair With Individual Parts.						01	3600			
0662	402417	392976	No Replacement	Repair With Individual Parts.						01	3000			
0664	402417	392976	No Replacement	Repair With Individual Parts.						01	4000			
0665	402417	392976	No Replacement	Repair With Individual Parts.						01	3300			
0666	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0667	402431	393823	No Replacement	Repair With Individual Parts.						01	3600			
0668	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0669	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0670	402437	393964	No Replacement	Repair With Individual Parts.						01	3100			
0671	402417	392976	No Replacement	Repair With Individual Parts.						01	3700			
0672	402431	393964	No Replacement	Repair With Individual Parts.						01	3750			
0673	402437	393964	No Replacement	Repair With Individual Parts.						01	3750			
0674	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0675	402417	392976	No Replacement	Repair With Individual Parts.						01	3600			
0676	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
0677	402417	392976	No Replacement	Repair With Individual Parts.						01	2800			
0678	402417	392976	No Replacement	Repair With Individual Parts.						01	3000			
0679	402417	392976	No Replacement	Repair With Individual Parts.						01	3500			
0680	402417	392976	No Replacement	Repair With Individual Parts.						01	3600			
0681	402417	392976	No Replacement	Repair With Individual Parts.						01	3300			
0682	402415	392976	No Replacement	Repair With Individual Parts.						01	3600			
0683	402437	393823	No Replacement	Repair With Individual Parts.						01	3000			
0684	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0685	402417	393823	No Replacement	Repair With Individual Parts.						01	3400			
0686	402437	396370	No Replacement	Repair With Individual Parts.						01	3100			
0687	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
0688	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0689	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
0690	402435	393823	No Replacement	Repair With Individual Parts.						01	2600			
0691	402415	393255	No Replacement	Repair With Individual Parts.						01	3600			
0692	402437	393823	No Replacement	Repair With Individual Parts.						01	3450			
0693	402415	393255	No Replacement	Repair With Individual Parts.						01	3300			
0694	402437	393823	No Replacement	Repair With Individual Parts.						01	3300			
0695	402417	392976	No Replacement	Repair With Individual Parts.						01	3500			
0696	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
0697	402437	393823	No Replacement	Repair With Individual Parts.						01	2600			
0698	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0699	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0700	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0701	402417	392976	No Replacement	Repair With Individual Parts.						01	4000			
0702	402417	392976	No Replacement	Repair With Individual Parts.						01	3600			
0703	402437	393823	No Replacement	Repair With Individual Parts.						01	3000			
0704	402437	398917	No Replacement	Repair With Individual Parts.						01	4000			
0705	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
0706	402437	393823	No Replacement	Repair With Individual Parts.						01	3800			
0707	402437	398917	No Replacement	Repair With Individual Parts.						01	4000			
0709	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
0710	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
0711	402431	393823	No Replacement	Repair With Individual Parts.						01	3400			
0712	402437	393823	No Replacement	Repair With Individual Parts.						01	3800			
0713	402437	393823	No Replacement	Repair With Individual Parts.						01	3200			
0714	402437	396370	No Replacement	Repair With Individual Parts.						01	3700			
0721	402437	393823	No Replacement	Repair With Individual Parts.										
1010	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
1011	402417	392976	No Replacement	Repair With Individual Parts.						All	3400			
1014	402431	393823	No Replacement	Repair With Individual Parts.						All	3400			

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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
1015	402437	393823	No Replacement	Repair With Individual Parts.						All	3400			
1016	402437	393823	No Replacement	Repair With Individual Parts.						All	3400			
1017	402437	393823	No Replacement	Repair With Individual Parts.						All	3400			
1018	402437	393964	No Replacement	Repair With Individual Parts.						01	3100			
1020	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
1021	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
1025	402437	393823	No Replacement	Repair With Individual Parts.						All	3400			
1026	402437	393823	No Replacement	Repair With Individual Parts.						01	3200			
1106	402437	393823	No Replacement	Repair With Individual Parts.						01	3200			
1107	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
1114	402441	492227	No Replacement	Repair With Individual Parts.						01	3400			
1115	402447	492227	No Replacement	Repair With Individual Parts.						All	3400			
1116	402447	492227	No Replacement	Repair With Individual Parts.						All	3400			
1126	402447	492227	No Replacement	Repair With Individual Parts.						01	3200			
1205	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
1206	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
1207	402437	393823	No Replacement	Repair With Individual Parts.						01	3450			
1208	402445	492081	No Replacement	Repair With Individual Parts.						ALL	3700			
1209	402437	396370	No Replacement	Repair With Individual Parts.						01	3700			
1210	402447	493221	No Replacement	Repair With Individual Parts.						01	4000			
1211	402431	493224	No Replacement	Repair With Individual Parts.						01	3600			
1212	402437	393823	No Replacement	Repair With Individual Parts.						01	3600			
1213	402437	398917	No Replacement	Repair With Individual Parts.						01	4000			
1214	402447	493225	No Replacement	Repair With Individual Parts.						01	3700			
1215	402437	396370	No Replacement	Repair With Individual Parts.						01	3700			
1216	402447	492227	No Replacement	Repair With Individual Parts.						01	3000			
1217	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
1218	402447	492227	No Replacement	Repair With Individual Parts.						01	3800			
1219	402447	493225	No Replacement	Repair With Individual Parts.						01	3750			
1220	402447	492227	No Replacement	Repair With Individual Parts.						All	3600			
1221	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
1222	402431	393823	No Replacement	Repair With Individual Parts.						01	3400			
1223	402447	492227	No Replacement	Repair With Individual Parts.						01	3400			
1224	402447	492227	No Replacement	Repair With Individual Parts.						01	3400			
1225	402447	492227	No Replacement	Repair With Individual Parts.						01	3400			
1226	402431	393823	No Replacement	Repair With Individual Parts.						01	3400			
1505	402417	392976	No Replacement	Repair With Individual Parts.						01	4000			
1506	402417	392976	No Replacement	Repair With Individual Parts.						01	3700			
1507	402417	392976	No Replacement	Repair With Individual Parts.						01	4000			
4009	402447	493225	No Replacement	Repair With Individual Parts.						01	3700			
4010	402447	492227	No Replacement	Repair With Individual Parts.						01	3200			
4012	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
4013	402437	393823	No Replacement	Repair With Individual Parts.						01	3400			
4015	402447	492227	No Replacement	Repair With Individual Parts.						01	3400			
4016	402447	492227	No Replacement	Repair With Individual Parts.						01	3400			
4020	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
4021	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
4026	402447	492227	No Replacement	Repair With Individual Parts.						01	3200			
7020	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			
7021	402417	392976	No Replacement	Repair With Individual Parts.						01	3400			