

421400 to 421499

SERVICE ENGINE



SALES MANUAL

**MODEL 421400 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:

421400 to 421499

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	421417	394097	No Replacement Repair With Individual Parts.								01	3400		
0011	421417	394097	No Replacement Repair With Individual Parts.								01	3400		
0012	421417	394097	No Replacement Repair With Individual Parts.								01	3400		
0015	421437	394430	No Replacement Repair With Individual Parts.								01	3400		
0016	421437	394430	No Replacement Repair With Individual Parts.								01	3400		
0019	421437	394430	No Replacement Repair With Individual Parts.								01	3400		
0020	421437	394430	No Replacement Repair With Individual Parts.								01	3400		
0021	421437	394384	No Replacement Repair With Individual Parts.								01	3400		
0022	421437	394382	No Replacement Repair With Individual Parts.								01	3700		
0101	421417	394097	No Replacement Repair With Individual Parts.								01	3600		
0102	421417	394097	No Replacement Repair With Individual Parts.								01	3600		
0114	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0115	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0116	421431	394430	No Replacement Repair With Individual Parts.								01	3600		
0117	421437	394382	No Replacement Repair With Individual Parts.								01	3600		
0118	421437	394384	No Replacement Repair With Individual Parts.								01	3600		
0130	421417	394097	No Replacement Repair With Individual Parts.								01	3400		
0131	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0132	421417	394097	No Replacement Repair With Individual Parts.								01	3300		
0133	421431	394430	No Replacement Repair With Individual Parts.								01	3600		
0134	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0135	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0136	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0137	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0138	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0139	421435	394382	No Replacement Repair With Individual Parts.								01	3600		
0140	421437	394430	No Replacement Repair With Individual Parts.								01	4000		
0141	421437	394430	No Replacement Repair With Individual Parts.								01	3400		
0142	421437	394430	No Replacement Repair With Individual Parts.								01	3600		
0143	421417	394097	No Replacement Repair With Individual Parts.								01	3500		
0146	421417	394097	No Replacement Repair With Individual Parts.								01	3500		