

**290700 to 290799****SERVICE ENGINE****SALES MANUAL****MODEL 290700 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 72:** Transfer Exhaust Ducting and/or Muffler Assembly from original engine to replacement engine.

**NOTE 108:** Transfer the Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service, or add new parts as required. In some cases it may be necessary to transfer the Oil Filter Adapter to the replacement engine.

**NOTE 110:** Transfer the Rewind Starter Assembly to the replacement engine.

**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:

**290700 to 290799**

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	290777	807586	303777	1032					108		All	3600	494057	
0016	290777	807586	303777	1032					108		01	3600	494057	
									110		02	3600		
0020	290772	807586	303772	1020					108		01	3600	494057	
											02	3600		
0031	290777	807586	303777	1032	1	805462	1	805461	108		01	3400	494057	
											02	3400		
0033	290777	807586	303777	1032	1	805460	1	805462	108		01	3300	494057	
											02	3300		
0106	290777	807586	303777	1032	1	805460	1	805462	108		01	3300	494057	
0107	290777	807586	303777	1032	1	805460	1	805462	108		01	3300	494057	
0108	290777	807586	303777	1032	1	805460	1	805461	108		01	3400	494057	
0333	290777	807586	303777	1032					108		01	3300	494057	
											02	3300		
0410	290777	807586	303777	1032					72		01	3400	494057	
									108					