

283700 to 283799

SERVICE ENGINE



SALES MANUAL

**MODEL 283700 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 23:** If the original engine is equipped with a Six Pin Wiring Harness transfer to the replacement engine.
- 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.
- NOTE 64:** Transfer Alternator Assembly from original engine to 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:

- NOTE R:** Cut off 1-7/16" on Flywheel end of Crankshaft.
- NOTE RR:** Change Exhaust Valve Retainer. Remove 292260. Add 68293.

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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
0109	283707	490466	21B907	0026					33		All	3400	496606	R
0110	283707	490466	21B907	0026					33		All	3400	496606	R
0111	283707	490466	21B907	0026					33		All	3400	496606	R
0112	283707	490466	21B907	0026					33		All	3400	496606	R
0113	283707	490466	21B907	0026					33		All	3300	496606	R
0114	283707	490466	21B907	0026					33		All	3300	496606	R
0115	283707	490466	No Replacement Repair With Short Block and/or Individual Parts								All	3600	496606	R
0116	283707	490466	21B907	0026					33		All	3400	496606	
0117	283707	490466	No Replacement Repair With Short Block and/or Individual Parts								All	3400	496606	R
0118	283707	490466	21B907	0026					33		All	3400	496606	R
0119	283707	490466	21B907	0026					33		All	3300	496606	R
0120	283707	490466	21B907	0026					33		All	3300	496606	R
0121	283707	490466	21B907	0026					33		All	3300	496606	R
0122	283706	490466	No Replacement Repair With Short Block and/or Individual Parts								All	3600	496606	R
0123	283707	490466	21B907	0028					33		All	3500	496606	
0124	283707	490466	21B907	0028					33		All	2600	496606	
0125	283707	490466	21B907	0028					33		All	3600	496606	
0126	283707	490466	21B907	0026					33		All	3300	496606	R
0127	283707	490466	21B907	0028					33		All	3600	496606	
0128	283707	490466	21B907	0026					33		All	3300	496606	R
									64					
0129	283707	490466	21B907	0026					33		All	3400	496606	R
									64					
0130	283707	490466	No Replacement Repair With Short Block and/or Individual Parts								All	3300	496606	R
0131	283707	490466	21B907	0028					33		All	2600	496606	
0132	283702	495162	21B906	0020					33		All	2600	496606	
0134	283707	495162	21B907	0026					33		All	3100	496606	R

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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
0135	283707	490466	No Replacement Repair With Short Block and/or Individual Parts								All	3300	496606	R
0136	283707	495162	21B907	0029					33		All	3500	496606	
0137	283707	495162	21B907	0026					33		All	3500	496606	R
0138	283707	495162	21B907	0026					33		All	3100	496606	R
0139	283707	495162	21B907	0026					33		All	3400	496606	R
0140	283707	495162	21B907	0026					33		All	3300	496606	R
0147	283707	490466	21B907	0026					33		All	3300	496606	R
0148	283707	490466	21B907	0026					33		All	3300	496606	R
0149	283707	495162	21B907	0026					33		All	3300	496606	R
0152	283707	490466	21B907	0026					33		All	3300	496606	R
									64					
0153	283707	495162	21B907	0028					33		All	3250	496606	
0154	283707	495162	21B907	0028					33		All	2950	496606	R
0156	283707	490466	21B907	0026					33		All	3300	496606	R
0157	283707	490466	21B907	0028					33		All	3600	496606	
0158	283707	490466	21B907	0026					33		All	2900	496606	R
0159	283707	490466	21B907	0029					33		All	2900	496606	
0160	283707	490466	21B907	0026					33		All	3300	496606	R
0161	283707	495162	21B907	0028					33		All	3250	496606	R
0162	283707	495162	21B907	0028					33		All	3600	496606	
0165	283707	495162	21B907	0026					33		All	3400	496606	R
0166	283707	495162	21B907	0029					33		All	2900	496606	
0167	283707	495162	21B907	0026					33		All	3300	496606	R
0217	283707	490466	21B907	0026					33		All	3300	496606	R
0515	283702	495162	21B902	0015					33		All	3100	496606	
0517	283707	495162	21B907	0026					33		All	3300	496606	R
0634	283707	495162	21B907	0026					33		All	3100	496606	R
0639	283707	495162	21B907	0026					33		All	3400	496606	R
0662	283707	495162	21B907	0028					33		All	3600	496606	
0667	283707	495162	21B907	0026					33		All	3300	496606	R
1015	283707	495162	21B902	0015					33		All	3100	496606	
1041	283702	495162	No Replacement Repair With Short Block and/or Individual Parts								All	3600	496606	
1068	283707	495162	21B907	0029					23		All	3600	496606	
									33					
1136	283707	495162	21B907	0029					23		All	3500	496606	
									33					
1137	283707	495162	21B907	0029					33		All	2900	496606	
1139	283707	495162	21B907	0026					23		All	3400	496606	R
									33					
1156	283707	495162	21B907	0026					23		All	3300	496606	R
									33					
1162	283707	495162	21B907	0028					23		All	3600	496606	
									33					
1167	283707	495162	21B907	0026					33		All	3300	496606	R
1217	283707	495162	21B907	0026					23		All	3300	496606	R
									33					
4001	283707	490466	21B907	0026					33		All	3600	496606	R
									64					
4003	283707	490466	21B907	0028					33		All	3600	496606	
									64					
4015	283702	490466	21B902	0015					33		All	3100	496606	
4016	283702	490466	21B906	0020					33		All	3600	496606	
4020	283702	490466	21B902	0015					33		All	3300	496606	
4029	283707	490466	21B907	0029					33		All	3600	496606	
									64					
4030	283707	490466	21B907	0029					33		All	3100	496606	RR
									64					

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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
4516	283702	495162	21B906	0020					33		All	3600	496606	

MODEL 283700

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