

286700 to 286799

SERVICE ENGINE



SALES MANUAL

**MODEL 286700 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.
- NOTE 88:** Transfer Muffler and/or Spark Arrester Assembly from the original engine if suitable for additional service or add new parts as required

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.

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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
0101	286707	490466	21B907	0026					33		01	3600	496606	R
0102	286707	490466	21B907	0026					33		01	3600	496606	R
0110	286707	490466	No Replacement Repair With Short Block and/or Individual Parts								01	3600	496606	R
0111	286707	490466	21B907	0026					33		01	3600	496606	R
0112	286707	490466	21B907	0029					33		01	3600	496606	
0113	286707	490466	21B907	0028					33		01	3600	496606	
0114	286707	490466	21B907	0026					33		01	3300	496606	R
0115	286707	490466	21B907	0026					33		All	3400	496606	R
0116	286707	490466	No Replacement Repair With Short Block and/or Individual Parts								01	3250	496606	R
0117	286707	490466	21B907	0029					33		01	3600	496606	
0118	286707	490466	21B907	0026					33		01	2800	496606	R
0119	286707	490466	21B907	0029					33		01	3300	496606	
0120	286707	490466	21B907	0026					33		01	3400	496606	R
									64					
0121	286707	490466	21B907	0028					33		01	3600	496606	
									64					
0122	286707	490466	21B907	0026					33		01	3400	496606	
0123	286707	490466	21B907	0026					33		01	3600	496606	R
0124	286707	490466	21B907	0026					33		01	3400	496606	R
0125	286707	490466	21B907	0026					33		01	3600	496606	
0126	286707	490466	No Replacement Repair With Short Block and/or Individual Parts								01	2600	496606	R
0127	286707	490466	21B907	0029					33		01	3600	496606	
									64					
0128	286707	490466	21B907	0026					33		01	3600	496606	R
0129	286707	490466	21B907	0026					33		01	3300	496606	R
0130	286707	490466	21B907	0026					33		01	3300	496606	R
0131	286702	490466	No Replacement Repair With Short Block and/or Individual Parts								01	3300	496606	

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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
0132	286707	490466	21B907	0029					33 64		01	3300	496606	
0133	286707	490466	21B907	0026					33		01	3300	496606	R
0134	286707	490466	21B907	0029					33		01	3300	496606	
0135	286707	490466	21B907	0026					33		01	3400	496606	R
0136	286707	490466	21B907	0029					33		01	3500	496606	
0137	286707	490466	21B907	0026					33		01	3200	496606	R
0138	286707	490466	21B907	0029					33		01	3100	496606	
0139	286707	490466	No Replacement Repair With Short Block and/or Individual Parts										496606	
0140	286707	490466	21B907	0026					33		01	3300	496606	
0141	286707	490466	21B907	0026					33		01	3600	496606	R
0142	286707	490466	21B907	0026					33 64		01	3600	496606	R
0143	286707	490466	21B907	0029					33 64		01	3600	496606	
0144	286707	490466	21B907	0028					33		01	3500	496606	
0145	286707	490466	21B907	0026					33 64		01	3600	496606	R
0146	286707	490466	21B907	0029					33		01	3100	496606	
0147	286707	490466	21B907	0026					33		01	3300	496606	R
0148	286707	490466	21B907	0029					33		01	3600	496606	
0149	286707	490466	21B907	0029					33 64		All	3100	496606	
0150	286707	490466	21B907	0029					33		01	3100	496606	
0151	286707	490466	21B907	0026					33		01	3400	496606	R
0152	286707	490466	21B907	0026					33		01	3400	496606	R
0153	286707	490466	21B907	0026					33 64		01	3600	496606	R
0154	286707	490466	No Replacement Repair With Short Block and/or Individual Parts										01 3500 496606	
0155	286707	490466	No Replacement Repair With Short Block and/or Individual Parts										01 3100 496606 R	
0156	286707	490466	21B907	0026					33		01	3600	496606	R
0157	286707	490466	21B907	0029					33		01	3100	496606	
0158	286707	490466	21B907	0028					33		01	3600	496606	
0159	286707	490466	21B907	0028					33		01	3200	496606	
0160	286707	490466	21B907	0026					33 64		01	3200	496606	R
0161	286707	490466	21B907	0026					33 64		01	3100	496606	R
0162	286707	490466	21B907	0026					33		01	3100	496606	R
0163	286707	490466	21B907	0026					33 64		01	3100	496606	R
0164	286707	490466	21B907	0026					33		01	3100	496606	R
0165	286707	490466	No Replacement Repair With Short Block and/or Individual Parts										01 3600 496606 R	
0166	286707	490466	No Replacement Repair With Short Block and/or Individual Parts										01 3400 496606 R	
0167	286707	490466	21B907	0026					33		01	3100	496606	R
0168	286707	495162	21B907	0026					33		02	3400	496606	R
0169	286707	495162	21B907	0026					33		01	3200	496606	R
0170	286707	495162	21B907	0028					33 64		01	3600	496606	R
0171	286707	495162	21B907	0026					33		01	3600	496606	R
0172	286707	495162	21B907	0028					33 64		01	3200	496606	R
0173	286707	495162	No Replacement Repair With Short Block and/or Individual Parts										01 3400 496606	
0174	286707	495162	21B907	0028					33		01	3600	496606	R
0175	286707	495162	21B907	0028					33 64		01	3600	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	
0176	286707	495162	21B907	0026					33 64		01	2800	496606	R	
0177	286707	495162	21B907	0026					33		01	3300	496606	R	
0178	286707	495162	21B907	0029					33		01	3600	496606		
0179	286707	495162	21B907	0026					33 64		01	3600	496606	R	
0180	286707	495162	21B907	0026					33 64		01	3300	496606		
0181	286702	495162	21B906	0020					33		01	3400	496606		
0182	286707	495162	21B907	0026					64 88		01	2800	496606	R	
0183	286707	495162	21B907	0026					33 64		01	3300	496606	R	
0184	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									01	3000	496606	R
0185	286707	495162	21B907	0026					33		01	3000	496606	R	
0186	286707	495162	21B907	0026					33		01	3400	496606	R	
0187	286707	495162	21B907	0028					33		01	2600	496606	R	
0188	286707	495162	21B907	0026					33		01	3100	496606	R	
0189	286702	495162	21B902	0015					33		01	3500	496606		
0410	286707	490466	21B907	0026					33		01	3500	496606	R	
0411	286707	490466	21B907	0026					33		01	3250	496606	R	
0412	286707	490466	21B907	0028					33		01	3250	496606		
0413	286707	490466	21B907	0026					33		01	3500	496606	R	
0414	286707	490466	21B907	0026					33 64		01	3500	496606	R	
0415	286707	490466	21B907	0026					33		01	3500	496606	R	
0416	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3500	496606	R
0417	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3500	496606	R
0418	286702	490466	21B906	0020					33		01	2600	496606		
0419	286707	490466	21B907	0028					33		01	3300	496606		
0420	286707	490466	21B907	0026					33		01	3300	496606	R	
0421	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3300	496606	R
0422	286707	490466	21B907	0026					33 64		01	3000	496606	R	
0423	286707	490466	21B907	0028					33		01	2600	496606		
0424	286707	495162	21B907	0026					33 64		01	3200	496606	R	
0425	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									01	3200	496606	R
0430	286707	495162	21B907	0026					33		01	3250	496606	R	
0437	286707	490466	21B907	0026					33		01	3300	496606	R	
0438	286707	490466	21B907	0028					33		01	3250	496606		
0439	286707	490466	21B907	0026					33		01	3250	496606	R	
0441	286707	490466	21B907	0026					33		01	3300	496606	R	
0442	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3300	496606	R
0443	286707	490466	21B907	0026					33 64		01	3300	496606	R	
0445	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3300	496606	R
0450	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3300	496606	R
0451	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	3300	496606	R
0452	286707	490466	21B907	0026					33		01	3300	496606	R	
0453	286707	490466	21B907	0026					33		01	3300	496606	R	
0454	286707	495162	21B907	0026					33		01	3300	496606	R	
0455	286707	495162	21B907	0026					33 64		01	3300	496606	R	
0622	286702	495162	21B906	0020					33		A1	3400	496606		
0634	286707	495162	21B907	0029					33		A1	3300	496606		

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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	
1029	286707	495162	21B907	0029					23 33		E1	3600	496606		
1073	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									E1	3400	496606	
1122	286702	495162	21B902	0015					33		E1	3400	496606		
1123	286707	693944	21B907	0028					23 33 64		All	3400	496606		
1139	286702	495162	No Replacement Repair With Short Block and/or Individual Parts									E1	3600	496606	
1141	286707	495162	21B907	0026					23 33		E1	3400	496606	R	
1142	286707	693944	21B907	0026					23 33		All	3500	496606	R	
1143	286707	693944	21B907	0026					23 33 64		All	3200	496606	R	
1162	286707	495162	21B907	0026					23 33		E1	3100	496606	R	
1163	286707	693944	21B907	0026					23 33		All	3000	496606	R	
1172	286707	495162	21B907	0028					23 33 64		E1	3200	496606	R	
1182	286707	495162	21B907	0026					23 33 64		E1	2800	496606	R	
1183	286707	495162	21B907	0026					23 33 64		E1	3300	496606	R	
1184	286707	495162	21B907	0026					23 33		E1	3000	496606	R	
1185	286707	495162	21B907	0026					23 33		E1	3000	496606	R	
1186	286707	495162	21B907	0026					23 33		E1	3400	496606	R	
1187	286707	495162	21B907	0028					23 33		E1	2600	496606	R	
1188	286707	693944	21B907	0026					23 33 64		All	3000	496606	R	
1190	286707	495162	21B907	0029					33		E1	3600	496606		
1192	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									E1	3500	496606	R
1193	286702	495162	21B906	0020					33		E1	3600	496606		
1194	286707	495162	21B907	0026					23 33		E1	3200	496606	R	
1195	286707	495162	21B907	0028					33		E1	3600	496606	R	
1196	286707	495162	21B907	0026					33		E1	3600	496606	R	
1197	286707	495162	21B907	0026					33		E1	3300	496606	R	
1198	286707	495162	21B907	0028					33 64		E1	3300	496606	R	
1199	286707	495162	21B907	0028					23 33 64		E1	3300	496606	R	
1200	286707	495162	21B907	0028					23 33		E1	3300	496606	R	
1201	286707	495162	21B907	0026					23 33		E1	3200	496606	R	
1202	286707	495162	21B907	0028					23 33		E1	3300	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	
1203	286707	495162	21B907	0028					23 33 64		E1	3300	496606	R	
1204	286707	693944	21B907	0026					23 33 64		All	2800	496606	R	
1205	286707	693944	21B907	0026					23 33 64		All	3000	496606	R	
1206	286707	693944	21B907	0026					23 33		E1	3000	496606	R	
1207	286707	693944	21B907	0026					23 33 64		All	2800	496606		
1424	286707	495162	21B907	0026					23 33 64		E1	3200	496606	R	
1425	286707	495162	21B907	0026					33 64		E1	3200	496606	R	
1426	286707	495162	21B907	0026					23 33 64		E1	3200	496606	R	
4015	286702	490466	21B902	0015					33		01	3600	496606		
4016	286702	490466	21B906	0020					33		01	3600	496606		
4020	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									01	3500	496606	R
4021	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									01	3400	496606	
4025	286707	490466	21B907	0026					33		01	3400	496606	R	
4026	286707	490466	21B907	0026					33		01	3400	496606	R	
4027	286707	496784	No Replacement Repair With Individual Parts.									01	3400		
4028	286707	490466	21B907	0028					33		01	3400	496606		
4029	286707	490466	21B907	0029					33		All	3400	496606		
4030	286707	490466	No Replacement Repair With Short Block and/or Individual Parts									01	2600	496606	
4031	286707	490466	21B907	0028					33 64		01	3600	496606		
4515	286702	495162	21B902	0015					33		All	3600	496606		
4516	286702	495162	21B906	0020					33		All	3600	496606		
4520	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									All	3500	496606	R
4521	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									E1	3400	496606	
4525	286707	495162	21B907	0026					23 33		All	3400	496606	R	
4526	286707	495162	21B907	0026					23 33		All	3400	496606	R	
4528	286707	495162	No Replacement Repair With Short Block and/or Individual Parts									All	3600	496606	
4529	286707	495162	21B907	0029					23 33		All	3600	496606		

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