

12D400 to 12D499**SERVICE ENGINE****SALES MANUAL**
**MODEL 12D400 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 15: For all Go-Karts use only a Model 136200 series engine as a replacement, regardless of the original Model.

NOTE 57: The original engine was equipped for or with a 12 or 120 volt Gear Drive Starter. Transfer Starter parts to replacement engine or add 394952 12 volt or 396507 120 volt Starter Kit.

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:

12D400 to 12D499

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
0009	12D412		12D312	0009					15		All	3600	699585	
0017	12D413	693887	12D313	0017					15		All	3600	699582	
0018	12D493	693887	12D393	0018					15		All	3600	699586	
0019	12D413		12D313	0019					15		All	3600	699585	
0105	12D412	693887	12D312	0007					15		All	3600	699582	
									57					
0110	12D412	693887	12D312	0007					15		All	3600	699582	
									57					