

21A400 to 21A499

SERVICE ENGINE



SALES MANUAL

**MODEL 21A400 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 64: Transfer Alternator Assembly from original engine to replacement engine.

NOTE 68: Transfer Flywheel and Alternator Assembly from original 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

NOTE 102: Transfer the Flywheel , Alternator and/or 12V Starter Assembly to the replacement engine.

NOTE 114: Transfer Regulator and Lead Wires to the replacement engine.

NOTE 117: Original engine was equipped for or with a 230 volt Gear Drive Starter . Transfer all related 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:

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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
0017	21A414	696412	STD.						15		All	3600	790926	
0019	21A414	695369	STD.						15		All	3600	699302	
0110	21A414	695369	21A414	0019							All	3450		
0112	21A414	696412	21A414	0017					15 64 114		All	3600	790926	
0113	21A416	696412	21A414	0017					15 68		All	3600	790926	
0134	21A414	696412	21A414	0017					15		All	3600	790926	
0157	21A414	696412	21A414	0017					15 68		All	3600		
0205	21A414	696412	21A414	0017					15		All	3600	790926	
0215	21A414	696412	21A414	0017					15 64		All	3600	790926	
0371	21A414	696412	21A414	0017					15 117		All	3600	790926	
0540	21A414	696412	21A414	0017					15 64		All	3500	790926	