

21A900 to 21A999

SERVICE ENGINE



SALES MANUAL

**MODEL 21A900 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 44:** Original engine was equipped with Manual Friction or a Fixed Speed. Transfer these parts to the replacement engine.
- NOTE 63:** Transfer Rewind Assembly from original engine to replacement engine.
- NOTE 64:** Transfer Alternator Assembly from original engine to replacement engine.
- NOTE 67:** Transfer Blower Housing and Rotating Screen Group to replacement engine.
- NOTE 68:** Transfer Flywheel and Alternator Assembly from original to replacement engine.
- NOTE 78:** Transfer Fuel Tank Assembly from the original engine to the replacement engine.
- NOTE 81:** Transfer Governor Spring 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 90:** Transfer Oil Sensor to the replacement engine.
- NOTE 97:** Transfer the Blower Housing , Rewind Assembly and related parts from the original engine to replacement engine.
- NOTE 114:** Transfer Regulator and Lead Wires 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:

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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
0036	21A977	697390	STD.								All	3300	697739	
0113	21A907	697390	21B907	0026					23 68 88		All	3200	697740	
0114	21A907	697390	21B907	0026					23 64		All	3200	697740	
0115	21A977	697390	21B977	0036					23 63 68 81 90		All	3600	697739	
0116	21A977	697390	21B977	0036					23 68 81 90		All	3600	697739	
0117	21A902	697390	21B902	0015							All	3400	697740	
0118	21A907	697390	21B907	0029					23 81		All	3600	697740	
0119	21A977	697390	21B977	0036					23 81 88		All	3600	697739	

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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
0120	21A907	697390	21B907	0026					23 88		All	3600	697740	
0121	21A977	697390	21B977	0036					81 88		All	3600	697739	
0122	21A977	697390	21B977	0036					81 88		All	3600	697739	
0123	21A907	697390	21B907	0029					63 81 88		All	2900	697740	
0124	21A907	697390	21B907	0029					63 88		All	3400	697740	
0125	21A907	697390	21B907	0029					63 81 88		All	2900	697740	
0126	21A907	697390	21B907	0029					68		All	3250	697740	
0127	21A902	697390	21B902	0015					63 88		All	3400	697740	
0128	21A907	697390	21B907	0029					63 88		All	3400	697740	
0129	21A977	697390	21B977	0036					68 88		All	3400	697739	
0131	21A907	697390	21B907	0026					88		All	3400	697740	
0133	21A907	697390	21B907	0026					23 68		All	3300	697740	
0134	21A902	697390	21B902	0015					63 81 88		All	3600	697740	
0136	21A902	697390	21B902	0015					63 81 88		All	3600	697740	
0137	21A907	697390	21B907	0026					23 68 81 88		All	3050	697740	
0138	21A902	697390	21B902	0015					63 81 88		All	3600	697740	
0139	21A902	697390	21B906	0020					44 81 88		All	3600	697740	
0140	21A907	697390	21B907	0028					44 67 81 88		All	3600	697740	
0141	21A902	697390	21B906	0020			1	494768	81		All	3600	697740	
0142	21A902	697390	21B906	0020	1	691840			44 81 88		All	3600	697740	
0143	21A907	697390	21B907	0026					88		All	3400	697740	
0145	21A907	697390	21B907	0028					81 88		All	3600	697740	
0146	21A907	697390	21B907	0026			1	494768	68 81 88		All	3000	697740	
0147	21A907	697390	21B907	0028					81 88 114		All	3600	697740	
0149	21A902	697390	21B906	0020					81 88		All	3600	697740	

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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
0150	21A907	697390	21B907	0028					81 88 114		All	2700	697740	
0151	21A902	697390	21B906	0020					81 88		All	2700	697740	
0152	21A907	697390	21B907	0026					81 88		All	2900	697740	
0153	21A907	697390	21B907	0029					63 81 88		All	3600	697740	
0154	21A907	697390	21B907	0028			1	494768	67 68 81 88		All	3600	697740	
0155	21A907	697390	21B907	0026					81 88		All	3000	697740	
0156	21A977	697390	21B977	0036					68 88		All	3200	697739	
0157	21A977	697390	21B977	0036			1	494768	63 68 88		All	3200	697739	
0158	21A907	697390	21B907	0026					81 88		All	3000	697740	
0159	21A907	697390	21B907	0028			1	494768	81 88		All	3600	697740	
0161	21A902	697390	21B906	0020			1	494768	81 88		All	3600	697740	
0162	21A907	697390	21B907	0028					63 81 88		All	3600	697740	
0164	21A907	697390	216907	0028					88		All	3400	697740	
0165	21A977	697390	21B977	0038					68		All	3400	697739	
0166	21A902	697390	21B906	0020					44 63 81 88		All	3600	697740	
0167	21A907	697390	21B907	0026			1	494768	23 68 81 88		All	3000	697740	
0168	21A902	697390	21B902	0015					81 88		All	3600	697740	
0169	21A907	697390	21B907	0026					81 88		All	3000	697740	
0170	21A902	697390	21B902	0015					23 81		All	3600	697740	
0171	21A902	697390	21B902	0015					81 88		All	2800	697740	
0172	21A977	697390	21B977	0036			1	494768	81 88		All	3600	697739	
0173	21A977	697390	21B977	0036					81 88		All	3600	697739	
0176	21A976	697390	21B977	0036					68 81 88 97		All	3600	697739	
0178	21A977	697390	21B977	0036					81 88		All	3600	697739	

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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
0179	21A977	697390	21B977	0036					63 68 78		All	3200	697739	
0180	21A977	697390	21B977	0036					68 81 88		All	3600	697739	
0183	21A907	697390	21B907	0026					88		All	3400	697740	
0184	21A902	697390	21B902	0015					81 88		All	3600	697740	
0185	21A907	697390	21B907	0029	1	691840			81 88		All	3600	697740	
0186	21A977	697390	21B977	0036					81 88		All	3600	697739	