

**9D900 to 9D999**

**SERVICE ENGINE**



**SALES MANUAL**

**MODEL 9D900 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 7:** Drill and retap PTO end of Crankshaft 7/16"-20 (1-1/8" deep). Use 25/64" tap drill.
- NOTE 51:** Replacement engine listed is not available in the State of California. Repair with individual parts.
- NOTE 73:** Transfer Flywheel Assembly to the 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 97:** Transfer the Blower Housing , Rewind Assembly and related parts from the 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 FF:** Change Drive Shaft in Short Block. Remove 230948. Add 230831.
- NOTE PP:** Change Drive Shaft in Short Block. Remove 230831. Add 231213.

**9D900 to 9D999**

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
1607	9D902	692991	9M902	0018							All	3300	398213	R
2001	9D902	692990	9M902	0015							All	3200	398210	R
2002	9D902	691475	9M902	0016							All	3100	398211	R
2003	9D902	692991	9M902	0018					88		All	3200	398213	R
2004	9D902	691475	9M902	0016					88		All	3100	398211	R
2005	9D902	692991	9M902	0018							All	3200	398213	R
2006	9D902	691475	9M902	0016							All	3000	398211	R
2007	9D902	692990	9M902	0015							All	3300	398210	R
2008	9D902	692991	9M902	0018							All	3200	398213	R
2009	9D902	691475	9M902	0016					88		All	3200	398211	R
2010	9D982	692990	98982	1650	1	230948	1	230831	51		All	3100	398215	R FF
									97					
2011	9D902	692991	9M902	0018					73		All	3200	398213	R
2015	9D902	692990	9M902	0015							All	3000	398210	R
2016	9D982	691475	98982	1650	1	230848	1	230831	51		All	3000	398217	R
						692990	1	691475	73					
2017	9D982	692991	98982	1651	1	230948	1	230831	51		All	3100		
						692990	1	692991						
2018	9D902	692990	9M902	0015					88		All	2850	398210	R
2019	9D902	691475	9M902	0016							All	3000	398211	R
2020	9D902	692991	9M902	0018					88		All	2850	398213	R
2021	9D902	691475	9M902	0016					73		All	3200	398211	R
									88					
2022	9D902	691475	9M902	0016					88		All	3000	398211	R
2023	9D902	692990	9M902	0015					88		All	3600	398210	R

9D900 to 9D999

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
2024	9D902	692991	9M902	0018							All	3100	398213	R
2025	9D902	691475	9M902	0016					73 88		All	3200	398211	R
2026	9D902	691475	9M902	0016					88		All	2950	398211	R
2027	9D902	692990	9M902	0015					88		All	3300	398210	R
2028	9D902	692990	9M902	0015					88		All	3300	398210	R
2029	9D902	692990	9M902	0015							All	3000	398210	R
2031	9D902	692990	9M902	0015					88		All	3000	398210	R
2032	9D902	692990	9M902	0015					88		All	2900	398210	R
2033	9D902	691475	9M902	0016					88		All	2900	398211	R
2034	9D902	691475	9M902	0016							All	3600	398211	R
2035	9D902	692990	9M902	0015							All	3200	398210	R
2036	9D902	691745	9M902	0016					88		All	3000	398211	R
2037	9D902	692990	9M902	0015					88		All	2850	398210	R
2038	9D902	692990	9M902	0015					88		All	3300	398210	R
2039	9D902	692990	9M902	0015							All	3100	398210	R
2040	9D902	692990	9M902	0015							All	3400	398210	R
2041	9D902	692991	9M902	0018					88		All	2850	398213	R
2042	9D902	492086	9M902	0016					88		All	2900	398213	R
2043	9D902	492086	9M902	0016					88		All	2950	398211	R
2044	9D902	492086	9M902	0016					88		All	2950	398211	R
2045	9D902	692990	9M902	0015	1	698719	1	690251	88		All	2850	398210	R
2049	9D902	691475	9M902	0016							All	2900	398211	R
2051	9D902	492086	9M902	0016					73 88		All	3000	398211	R
2060	9D902	692990	9M902	0015					88		All	3300	398210	R
2061	9D902	492086	9M902	0016					88		All	3000	398211	R
2079	9D902	692991	9M902	0018					88		All	3150	398213	R
2080	9D902	691475	9M902	0016					73		All	3200	398211	R
2084	9D902	692991	9M902	0018					88		All	3100	398213	R
2085	9D902	691475	9M902	0016							All	3150	398211	R
2087	9D902	691475	9M902	0016					88		All	3150	398211	R
2088	9D902	692991	9M902	0018							All	3150	398213	R
2090	9D902	691475	9M902	0016					73 88		All	3200	398211	R
2091	9D902	691475	9M902	0016							All	3100	398211	R
2092	9D902	691475	9M902	0016					88		All	3000	398211	R
2093	9D902	692990	9M902	0015					88		All	3000	398210	R
2094	9D902	691475	9M902	0016					73 88		All	3200	398211	R
2095	9D902	692990	9M902	0015	1	698719	1	790220			All	3600	398210	R
2096	9D902	691475	9M902	0016					88		All	2900	398211	R
2112	9D902	692990	9M902	0015					73		All	3600	398210	R
2113	9D902	691475	9M902	0016							All	3000	398211	R
2128	9D902	691475	9M902	0016					73		All	3300	398211	R
2137	9D902	692990	9M902	0015							All	3000	398210	R
2200	9D902	692990	9M902	0015					73		All	3300	398210	R
2201	9D902	692990	9M902	0015							All	3000	398210	R
2202	9D982	692990	98982	1650	1	230948	1	231213	51		All	3000	398215	R PP
2203	9D902	692991	9M902	0018							All	3100	398213	R
2204	9D902	691475	9M902	0016							All	3400	398211	R
2205	9D902	691475	9M902	0016					73		All	3000	398211	R
2206	9D902	691475	9M902	0016					73		All	3000	398211	R
2207	9D902	691475	9M902	0016					73		All	3000	398211	R
2208	9D902	691475	9M902	0016					73		All	3000	398211	R

**9D900 to 9D999**

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
2209	9D902	692991	9M902	0018					73 88		All	3500	398213	R
2210	9D902	692990	9M902	0015							All	3600	398210	R
2211	9D982	692990	98902	1650	1	230948	1	230831	51		All	3100	398215	R FF
2212	9D902	692991	9M902	0018							All	3100	398213	R
2213	9D902	692991	9M902	0018							All	3100	398213	R
2214	9D902	692991	9M902	0018							All	3100	398213	R
2215	9D902	691475	9M902	0016							All	3200	398211	R
2216	9D902	691475	9M902	0016							All	3200	398211	R
2217	9D902	692990	9M902	0015							All	3000	398210	R
2218	9D902	692991	9M902	0018							All	3050	398213	R
2219	9D902	691475	9M902	0016							All	3000	398211	R
2220	9D902	691475	9M902	0016							All	3000	398211	R
2221	9D982	691475	98982	1650	1	230948	1	230831	51 88		All	3000	398215	R FF
2222	9D902	791342	9M902	0015					7		All	3200		
2223	9D902	692990	9M902	0015					88		All	2900	398210	R
2224	9D902	492086	9M902	0016					73 88 97		All	3000	398211	R
2225	9D902	492086	9M902	0016					88		All	2900	398211	R