

98900 to 98999

SERVICE ENGINE



SALES MANUAL

MODEL 98900 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

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 G:** Drill and re-tap end of Crankshaft 7/16"-20 (1-1/8" deep). Use 25/64" tap drill.
- 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.
- NOTE ZZ:** Change Drive Shaft in Short Block. Add 231908.

98900 to 98999

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	
0110	98902	492748	9M902	0015							All	3200	398210		
0112	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398214	
0114	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	FF
0115	98902	492086	9M902	0016					73 88		All	3600	398211		
0116	98902	492086	9M902	0016							All	3100	398211		
0117	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	
0118	98902	492748	9M902	0015							All	3300	398210		
0119	98902	493618	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398212	
0120	98902	492748	9M902	0015							All	3200	398210		
0121	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	FF
0122	98902	492748	9M902	0015							All	3200	398210		
0123	98982	492086	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398216	
0124	98902	492748	9M902	0015							All	3200	398210		
0125	98902	493846	9M902	0018							All	3100	398213		
0126	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3000	398215	FF
0127	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3000	398215	FF
0128	98902	492086	9M902	0016							All	3100	398211		
0129	98902	492086	9M902	0016							All	3500	398211		
0130	98902	496069	9M902	0016							All	3400	398211	G	
0131	98902	492086	9M902	0016							All	3000	398211		
0132	98902	492086	9M902	0016							All	3600	398211		
0133	98982	492748	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	ZZ
0134	98902	492748	9M902	0015							All	3200	398210		

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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
0135	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3600	398212	
0136	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3600	398212	
0137	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3600	398212	
0138	98902	492748	9M902	0015						All	3500	398210		
0139	98902	493846	9M902	0018						All	3600	398213		
0140	98902	493846	9M902	0018						All	3100	398213		
0141	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3300	398212	
0142	98902	492748	9M902	0015					88	All	3200	398210		
0143	98902	493846	9M902	0018					73 88	All	3600	398213		
0144	98902	492086	9M902	0016						All	3100	398211		
0145	98902	492086	9M902	0016					73 88	All	3800	398211		
0147	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3000	398215	PP
0148	98902	493846	98902	1618					88	All	3100	398213		
0149	98902	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3300	398215	ZZ
0150	98902	492748	9M902	0015						All	3000	398210		
0151	98902	492086	9M902	0016						All	3000	398211		
0155	98902	492086	9M902	0016					73	All	3600	398211		
0165	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398214	
0166	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3000	398215	FF
0167	98902	494564	9M902	0018					88	All	3100	398213		
0168	98902	492748	9M902	0015					88	All	3200	398210		
0169	98902	494564	9M902	0018					73	All	3600	398213		
0170	98902	492086	9M902	0016					73	All	3100	398211		
0197	98902	492086	9M902	0016						All	3000	398211		
0198	98902	492086	9M902	0016						All	3150	398211		
0199	98902	492748	9M902	0015						All	3150	398210		
0306	98902	492086	9M902	0016						All	3200	398211		
0307	98902	492748	9M902	0015						All	3600	398210		
0308	98902	492086	9M902	0016						All	3200	398211		
0309	98902	492748	9M902	0015						All	3300	398210		
0310	98902	492748	9M902	0015						All	3200	398210		
0311	98902	493846	9M902	0018						All	3100	398213		
0312	98902	493846	9M902	0016						All	3100	398211		
0313	98902	492086	9M902	0016					88	All	3100	398211		
0314	98902	492748	9M902	0015						All	3100	398210		
0315	98902	493846	9M902	0018						All	3100	398213		
0316	98902	492086	9M902	0016						All	3100	398211		
0317	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3100	398215	PP
0318	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3100	398215	PP
0319	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3100	398215	PP
0320	98902	492086	9M902	0016						All	3100	398211		
0321	98902	492086	9M902	0016						All	3100	398211		
0322	98902	493846	9M902	0018						All	3600	398213		
0323	96902	492086	9M902	0016						All	3200	398211		
0324	98902	492086	9M902	0016					88	All	3000	398211		
0325	98902	492748	9M902	0015						All	3000	398210		
0326	98902	492086	9M902	0016						All	3200	398211		
0327	98902	492748	9M902	0015						All	3300	398210		
0328	98902	493846	9M902	0018					73	All	3600	398213		
0329	98902	492748	9M902	0015						All	3200	398210		
0330	98902	492748	9M902	0015						All	3200	398210		
0331	98902	492748	9M902	0015						All	3200	398210		
0334	98902	492748	9M902	0015						All	3200	398210		
0335	98902	492086	9M902	0016						All	3000	398211		

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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
0336	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398212	
0337	98902	492086	9M902	0016							All	3200	398211	
0338	98902	492086	9M902	0016							All	3200	398211	
0339	98902	492748	9M902	0015					73		All	3200	398210	
0340	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398212	
0341	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398212	
0342	98902	492748	9M902	0015							All	3300	398210	
0343	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398214	
0344	98902	492016	9M902	0016							All	3200	398211	
0345	98902	492748	9M902	0015					73 88		All	3500	398210	
0346	98902	492748	9M902	0015					73 88		All	3500	398210	
0347	98902	492086	9M902	0016					73		All	3200	398211	
0348	98902	492086	9M902	0016							All	3000	398211	
0349	98902	492748	9M902	0015							All	3200	398211	
0350	98902	492086	9M902	0016							All	3200	398211	
0351	98982	492748	No Replacement Repair With Short Block and/or Individual Parts								All	3100	398214	
0352	98902	492748	9M902	0015							All	3600	398210	
0353	98902	492086	9M902	0016							All	3200	398211	
0354	98902	492086	9M902	0016							All	3200	398211	
0355	98902	492748	9M902	0015							All	3200	398210	
0356	98902	492748	9M902	0015							All	3200	398210	
0357	98902	492748	9M902	0015							All	3200	398210	
0358	98902	492086	9M902	0016					73		All	3200	398211	
0359	98902	493916	9M902	0015							All	3200	398212	
0360	98902	492748	9M902	0015							All	3200	398210	
0361	98902	492748	9M902	0015					88		All	3200	398210	
0362	98902	492748	9M902	0015					88		All	2900	398210	
0363	98902	492748	9M902	0015					88		All	3600	398210	
0364	98902	493846	9M902	0018					73 88		All	3600	398213	
0365	98902	492748	9M902	0015					88		All	3200	398210	
0366	98902	492086	9M902	0016							All	3000	398211	
0367	98902	492748	9M902	0015					88		All	3000	398210	
0368	98902	492086	9M902	0016							All	3600	398211	
0369	98902	492748	9M902	0015					73		All	3500	398210	
0370	98902	492748	9M902	0015					88		All	3500	398210	
0371	98982	492086	No Replacement Repair With Short Block and/or Individual Parts								All	2900	398216	ZZ
0372	98902	492748	9M902	0015							All	3600	398210	
0373	98982	492086	No Replacement Repair With Short Block and/or Individual Parts								All	2800	398216	ZZ
0374	98982	492086	No Replacement Repair With Short Block and/or Individual Parts								All	2800	398216	ZZ
0375	98902	492086	9M902	0016					73 88		All	3200	398211	
0376	98902	492748	9M902	0015					88		All	3300	398210	
0377	98902	492748	9M902	0015					88		All	3600	398210	
0378	98982	492086	No Replacement Repair With Short Block and/or Individual Parts								All	2800	398216	ZZ
0379	98902	492748	9M902	0015							All	3100	398210	
0380	98902	492086	9M902	0016							All	3200	398211	
0381	98902	492086	9M902	0016							All	3600	398211	
0382	98902	493618	No Replacement Repair With Short Block and/or Individual Parts								All	3200	398212	
0383	98902	492086	9M902	0016							All	3100	398211	
0384	98902	492086	9M902	0016					88		All	3000	398211	
0385	98902	492748	9M902	0015							All	3300	398210	
0386	98902	492086	9M902	0016					73 88		All	3200	398211	

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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
0387	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3200	398215	ZZ	
0388	98902	492086	9M902	0016					88		All	3000	398211	
0389	98902	492086	9M902	0016							All	3200	398212	
0390	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3000	398215	PP	
0391	98902	492748	9M902	0015							All	3200	398210	
0392	98902	492748	9M902	0015							All	3000	398210	
0393	98902	492748	9M902	0015					88		All	3000	398210	
0394	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	2900	398215	FF	
0395	98902	492086	9M902	0016					73		All	3600	398211	
0396	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	30001	398215		
0397	98902	492086	9M902	0016					88		All	3000	398211	
0398	98902	492748	9M902	0015					88		All	3000	398210	
0399	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3000	398215	PP	
0400	98902	492748	9M902	0015					88		All	3100	398210	
0401	98902	492086	9M902	0016					88		All	3000	398211	
0402	98902	494564	9M902	0018					88		All	3600	398213	
0403	98902	492748	9M902	0015					88		All	3300	398210	
0404	98902	492748	9M902	0015							All	3150	398210	
0407	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3150	398215	PP	
0408	98902	492086	9M902	0016					73		All	3000	398211	
0810	98902	492748	9M902	0015							All	3300	398210	
0837	98902	492086	9M902	0016							All	3150	398211	
0849	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3300	398215	ZZ	
0865	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3200	398214		
0866	98902	494564	9M902	0018							All	3150	398212	
0889	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3300	398215	FF	
0890	98902	492748	9M902	0015					73 88		All	3500	398210	
0891	98902	494564	9M902	0018							All	3100	398212	
1044	98902	492086	9M902	0016							All	3100	398211	
1110	98902	492748	9M902	0015							All	3300	398210	
1144	98902	492086	9M902	0016							All	3100	398211	
1302	98902	492748	9M902	0015					73		All	3500	398210	
1303	98902	493846	9M902	0018					73		All	3500	398213	
1304	98902	493846	9M902	0018					73 88		All	3600	398213	
1305	98902	493846	9M902	0018					73 88		All	2900	398213	
1315	98902	492748	9M902	0015							All	3100	398210	
1316	98902	492086	9M902	0016							All	3100	398211	
1318	98902	493846	9M902	0018							All	3100	398213	
1350	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215		
1351	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398214		
1360	98902	492748	9M902	0015					73		All	3500	398210	
1446	98902	492748	9M902	0015					73 88		All	3500	398210	
1472	98902	492748	9M902	0015					88		All	3600	398210	
1477	98902	492748	9M902	0015					88		All	3600	398210	
1515	98902	492748	9M902	0015							All	3100	398210	
1516	98902	492086	9M902	0016							All	3100	398211	
1518	98902	494564	9M902	0018							All	3100	398213	
1550	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398215		
1551	98982	492748	No Replacement Repair With Short Block and/or Individual Parts							All	3100	398214		
1602	98902	692990	9M902	0015					73 88		All	3500	398210	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	
1603	98902	692991	9M902	0018					73 88		All	3500	398213	R	
1607	98902	692991	9M902	0018							All	3300	398213	R	
1610	98902	692990	9M902	0015							All	3300	398210	R	
1612	98902	692991	9M902	0018							All	3100	398213	R	
1615	98902	692990	9M902	0015							All	3100	398210		
1616	98902	691475	9M902	0016							All	3100	398211		
1618	98902	692991	9M902	0018							All	3100	398213		
1644	98902	691475	9M902	0016							All	3100	398211	R	
1650	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	
1651	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398214	
2000	98902	692990	9M902	0015							All	3200	398210	R	
2001	98902	692990	9M902	0015							All	3200	398210	R	
2002	98902	692990	9M902	0015							All	2850	398210	R	
2004	98902	691475	9M902	0016					88		All	3200	398211	R	
2010	98902	692991	9M902	0018							All	3200	398213	R	
2011	98902	692990	9M902	0015					88		All	3200	398210	R	
2023	98902	691475	9M902	0016					88		All	2900	398211	R	
2024	98902	692991	9M902	0018					88		All	2850	398213	R	
2025	98902	692991	9M902	0018							All	3100	398213	R	
2026	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	R FF
2027	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	R FF
2028	98902	692990	9M902	0015							All	3300	398210	R	
2029	98902	692990	9M902	0015							All	3300	398210	R	
2030	98902	692990	9M902	0015					88		All	3200	398210	R	
2031	98902	692990	9M902	0015					88		All	3200	398210	R	
2032	98902	492086	9M902	0016	1	698719	1	790220	88		All	3600	398211	R	
2044	98902	691475	9M902	0016					73		All	3100	398211	R	
2045	98902	691475	9M902	0016							All	3100	398211	R	
2047	98902	691475	9M902	0016							All	3000	398211	R	
2049	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3200	398215	R ZZ
2050	98902	692991	9M902	0018	1	698719	1	790220	73 88		All	3600	398213	R	
2063	98902	692990	9M902	0015							All	3600	398210		
2064	98902	691475	9M902	0016							All	3300	398211	R	
2065	98902	691475	9M902	0016					88		All	3300	398211	R	
2066	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	R FF
2069	98902	692990	9M902	0015					73		All	3500	398210	R	
2070	98902	692990	9M902	0015							All	3300	398210	R	
2072	98902	692990	9M902	0015					73 88		All	3600	398210	R	
2077	98902	692990	9M902	0015					88		All	3600	398210	R	
2078	98902	691475	9M902	0016							All	3100	398211	R	
2085	98902	692990	9M902	0015							All	3300	398210	R	
2086	98902	691475	9M902	0016							All	3100	698211	R	
2087	98902	691475	9M902	0016							All	3100	398211	R	
2093	98902	692990	9M902	0015							All	3000	398210	R	
2097	98902	692990	9M902	0015							All	3000	398210	R	
2098	98902	691475	9M902	0016							All	3150	398211	R	
2099	98902	692990	9M902	0015							All	3150	398210	R	
2100	98902	691475	9M902	0016							All	3100	398211	R	
2101	98902	691475	9M902	0016							All	3000	398211	R	
2102	98902	692990	9M902	0015					73		All	3200	398210	R	
2103	98902	791342	9M902	0015					7 88		All	3200	398210	G	
2109	98902	692990	9M902	0015							All	3300	398210	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	
2111	98902	692990	9M902	0015							All	3300	398210	R	
2125	98902	692990	9M902	0015							All	3000	398210	R	
2137	98902	691475	9M902	0016							All	3200	398211	R	
2138	98902	691475	9M902	0016					88		All	2900	398211	R	
2139	98902	692990	9M902	0015					88		All	3000	398210	R	
2144	98902	691475	9M902	0016							All	3200	398211	R	
2147	98902	691475	9M902	0016					73		All	3200	398211	R	
2163	98902	692990	9M902	0015							All	3600	398210	R	
2166	98902	691475	9M902	0016					73		All	3000	398211	R	
2178	98982	691475	No Replacement Repair With Individual Parts.									All	2800		
2179	98902	692990	9M902	0015					88		All	3100	398210	R	
2180	98902	691475	9M902	0016							All	3000	398211	R	
2181	98902	691475	9M902	0016					88		All	3000	398211	R	
2185	98902	692990	9M902	0015							All	3300	398210	R	
2186	98902	691475	9M902	0016					73		All	3200	398211	R	
									88						
2192	98902	692990	9M902	0015							All	3000	398210	R	
2194	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	2900	398215	R FF
2196	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3000	398215	R
2197	98902	692990	9M902	0015							All	3000	398210	R	
2198	98902	692990	9M902	0015							All	3000	398210	R	
2202	98902	692991	9M902	0018							All	3600	398213	R	
2203	98902	692990	9M902	0015							All	3300	398210	R	
2204	98902	691475	9M902	0016							All	3000	398211	R	
2207	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3150	398215	R PP
2209	98902	692990	9M902	0015							All	3100	398210	R	
2210	98902	692990	9M902	0015							All	3400	398210	R	
2211	98982	692991	No Replacement Repair With Short Block and/or Individual Parts									All	3200		
2212	98902	692991	9M902	0018							All	3050	398213	R	
2213	98902	691475	9M902	0016							All	3150	398211	R	
2214	98902	692991	9M902	0018							All	3100	398213	R	
2215	98902	692990	9M902	0015							All	3500	398210	R	
2216	98902	691475	9M902	0016							All	3300	398211	R	
2217	98902	692991	9M902	0018							All	3200	398213	R	
2222	98902	692991	9M902	0018					73		All	3800	398213	R	
2223	98902	691475	9M902	0016							All	3400	398211	R	
2224	98902	692991	9M902	0018					73		All	3600	398213	R	
2225	98902	692991	9M902	0018							All	3600	398213	R	
2226	98902	692990	9M902	0015							All	3000	398210	R	
2227	98902	691475	9M902	0016							All	3000	398211	R	
2228	98902	692991	9M902	0018					73		All	3800	398213	R	
									88						
2229	98902	692990	9M902	0015							All	3000	398210	R	
2230	98902	692991	9M902	0018							All	3600	398213	R	
2231	98902	692990	9M902	0015					88		All	3100	398210	R	
2232	98902	691475	9M902	0016					88		All	3000	398211	R	
2233	98902	692991	9M902	0018							All	3100	398213	R	
2234	98902	692991	9M902	0018							All	3100	398213	R	
2235	98902	691475	9M902	0016							All	3000	398211	R	
2236	98902	691475	9M902	0016							All	3300	398211	R	
2237	98902	692991	9M902	0018							All	3200	398213	R	
2238	98902	691475	9M902	0016					88		All	2700	398211	R	
2239	98902	692990	9M902	0015							All	3200	398210	R	
2240	98902	691475	9M902	0016							All	3200	398211	R	
2241	98902	692990	9M902	0015							All	3300	398210	R	
2242	98902	692990	9M902	0015							All	3300	398210	R	

98900 to 98999

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	
2243	98902	692990	9M902	0015							All	3300	398210	R	
2244	98902	692990	9M902	0015							All	3100	398210	R	
2245	98982	692990	No Replacement Repair With Short Block and/or Individual Parts									All	3100	398215	R FF
2246	98902	692990	9M902	0015					88		All	3600	398210	R	
2247	98902	692991	9M902	0018							All	3200	398213	R	
2248	98902	692991	9M902	0018							All	3300	398213		
2249	98902	692990	9M902	0015							All	3300	398210	R	
2250	98902	691475	9M902	0016							All	3100	398211	R	
2251	98902	691475	9M902	0016					73 88		All	3000	398211	R	
2252	98902	692990	9M902	0015							All	3300	398210	R	
2253	98902	691475	9M902	0016					88		All	3000	398211	R	
2254	98902	492086	9M902	0016					88		All	3300	398211	R	