

121600 to 121699**SERVICE ENGINE****SALES MANUAL**

**MODEL 121600 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 6:** Drill and Retap end of Crankshaft 7/16"-20 (1" Deep). Use 25/64" Tap Drill.
- NOTE 47:** Remove Fuel Tank from replacement engine. Transfer Rotating Screen and Flywheel Guard Group to replacement engine.
- NOTE 48:** Remove Fuel Tank Assembly from 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 73:** Transfer Flywheel Assembly to the replacement engine.
- NOTE 76:** Transfer Flywheel, Blower Housing, Alternator and/or Gear Drive Electric Starter and Panel Assembly to 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 94:** Transfer Static Guard from original engine to replacement engine.
- NOTE 96:** Transfer the Air Cleaner Assembly and related parts to the replacement engine.
- 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 E:** Change Drive Shaft in short Block. Add 231671.
- NOTE V:** Change Drive Shaft in Short Block. Add 231671.
- NOTE W:** Change Drive Shaft in Short Block. Add 231671.
- NOTE UU:** Change Drive Shaft in Short Block. Add 231748.
- NOTE WW:** Change Drive Shaft in Short Block. Add 231909.

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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
0015	121602	691457	121602	0515							All	3100	692745	
0016	121602	692823	121602	0022	1	263042	1	263038	73 88		All	3100	692747	
0018	121607	691457	121607	0660							All	3150	692745	
0019	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	
0020	121612	692803	121612	0545	1	263042	1	263044			All	3150	692755	
0021	121602	693291	STD.								All	3000	692746	
0022	121602	692823	STD.								All	3100	692747	
0023	121607	691457	121607	0660							All	3150	692745	
0025	121602	691456	121602	0525							All	3100	692748	
0026	121602	498619	121602	0526							All	3100	692749	
0030	121612		121612	0545	1	692803	1	691457	88		All	3600		
0045	121612	692803	121612	0545							All	3800	692755	
0050	121682	691457	STD.								All	3100	692750	
0051	121682	691457	121682	0551							All	3100	692751	
0058	121602	691456	121602	0525							All	3100	692748	

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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
0061	121607	691457	121607	0662							All	3100	692745	
0112	121602	691456	121602	0625							All	3100	692745	
0116	121682	691457	121682	0551							All	3000	692751	
0117	121602	691457	121602	0505							All	3100	692745	
0118	121602	691457	121602	0515							All	3000	692745	
0119	121607	691457	121607	0662							All	3000	692745	
0120	121602	691457	121602	0505							All	3000	692745	
0121	121602	691457	121602	0515							All	3150	692745	
0122	121682	691457	121682	0551	1	231748	1	231909	88		All	3150	692751	WW
0123	121682	691457	121682	0050	1	263042	1	263040			All	3300	692750	
0124	121602	691457	121602	0515							All	3150	692745	
0126	121602	691456	121602	0525							All	3100	692748	
0127	121602	693291	121602	0621							All	3100	692746	
0128	121602	691456	121602	0525					88		All	3100	692748	
0133	121682	691456	121682	0050	1	231748	1	231671		0133	All	3300		
					1	263042	1	263040						
					1	691457	1	691456						
0135	121602	691457	121602	0515					88		All	3000	692745	
0136	121607	691457	121607	0660							All	3000	692745	
0137	121602	691456	121602	0525	1	263042	1	263040			All	3300	692748	
0138	121682	691456	121682	0551	1	263042	1	263040		0138	All	3400		
					1	691457	1	691456						
0139	121607	691457	121607	0561					81		All	3300	692745	
0140	121607	696607	121607	0660	1	691457	1	696607	88		All	3100		
									97					
0142	121612	692501	121612	0545	1	692803	1	692501		0142	All	3600		
0143	121602	693291	121602	0521							All	2900	692746	
0147	121686	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3600	692751	JU
0149	121602	691457	121602	0505							All	3000	692745	
0150	121682	691458	121682	0551	1	691457	1	691458		0150	All	3000		
0152	121607	691457	121607	0562	1	263042	1	263038	47		All	3600	692745	
0153	121682	691458	121682	0050	1	691457	1	691458			All	3000		
0154	121602	691457	121602	0515	1	263042	1	263038	88		All	3300	692745	
0155	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	
0156	121602	692716	121602	0515	1	263042	1	263038		0156	All	3600		
					1	691457	1	692716						
0158	121682	691456	121682	0551	1	263042	1	263040			All	3400		
					1	691457	1	691456						
0159	121602	691457	121602	0515	1	263042	1	263040			All	3400	692745	
0160	121682	691457	121682	0551	1	231748	1	231671	73		All	2900	692751	V
0161	121687	691457	No Replacement Repair With Short Block and/or Individual Parts								All	2900	692751	V
0162	121682	691457	121682	0551	1	231748	1	231671	81		All	2800	692751	V
0163	121602	691456	121602	0525							All	3000	692748	
0164	121602	498619	121602	0526							All	3000	692749	
0165	121602	691457	121602	0515							All	3000	692745	
0166	121602	693291	121602	0021							All	3000	692746	
0167	121602	691456	121602	0525	1	263042	1	263040			All	3400	692748	
0168	121602	691457	121602	0515	1	263042	1	263040			All	3400	692745	
0169	121602	691456	121602	0525	1	263042	1	263040			All	3300	692748	
0170	121607	691457	121607	0660							All	3000	692745	
0171	121602	691456	121602	0525							All	3000	692748	
0172	121602	693291	121602	0021					73		All	3200	692746	
									88					
0173	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	

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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
0174	121602	692716	121602	0505	1	691457	1	692716	88	0174	All	3400		
0175	121602	691457	121602	0515							All	3100	692745	
0176	121607	691457	121607	0660							All	3200	692745	
0177	121607	691457	121607	0660							All	3200	692745	
0178	121602	691457	121602	0515							All	3200	692745	
0182	121602	691457	121602	0515							All	3000	692745	
0183	121602	691457	121602	0505							All	3600	692745	
0184	121602	691457	121602	0515							All	3000	692745	
0185	121602	693291	121602	0021							All	3000	692746	
0186	121602	691457	121602	0505							All	3000	692745	
0187	121602	693291	121602	0021					73		All	3000	692746	
0188	121612	692803	121612	0545							All	3800	692755	
0189	121612	691457	121612	0545	1	692803	1	691457		0189	All	3600		
0190	121602	691457	121602	0515							All	3200	692745	
0191	121607	691457	121607	0660							All	3200	692745	
0192	121607	692716	121607	0662	1	691457	1	692716			All	3000		
0193	121602	692823	121602	0022	1	263042	1	263038	73		All	3600	692747	
0194	121602	692823	121602	0022	1	263042	1	263038	73 88		All	3600	692747	
0195	121602	693291	121602	0021							All	3100	692746	
0196	121602	693291	121602	0021	1	263042	1	263040	73		All	3400	692746	
0197	121602	693291	121602	0021					73		All	3000	692746	
0198	121602	691457	121612	0545	1	499619	1	498983			All	3800	692745	
					1	692803	1	691457						
0199	121602	691456	121602	0525					88		All	3000	692748	
0200	121607	691457	121607	0662					88		All	3000	692745	
0201	121602	692716	121602	0505	1	691457	1	692716	88	0201	All	3300		
0202	121607	692716	121607	0660	1	263042	1	263040	88	0202	All	3300		
					1	691457	1	692716						
0203	121602	692823	121602	0022	1	263042	1	263038	73		All	3600	692747	
0204	121682	691456	121682	0050	1	231748	1	231671			All	3300		
					1	263042	1	263040						
					1	691457	1	691456						
0205	121682	691457	121682	0551	1	231748	1	231671			All	3300	692751	V
					1	263042	1	263040						
0206	121602	693291	121602	0021	1	263042	1	263038			All	3600	692746	
0207	121607	691457	121607	0662	1	263042	1	263227			All	3600	692745	
0208	121602	691456	121602	0525	1	263042	1	263040			All	3300	692746	
0209	121607	691457	121607	0662							All	3000	692745	
0210	121602	692803	121612	0545	1	499619	1	498983			All	3800		
0211	121602	691457	121602	0505					88		All	3000	692745	
0212	121607	691457	121607	0660							All	3000	692745	
0214	121607	691457	121607	0662							All	3150	692745	
0215	121602	692716	121602	0515	1	263042	1	263038			All	3600		
					1	691457	1	692716						
0216	121602	691456	121602	0525							All	3000	692746	
0217	121602	691457	121602	0505	1	263042	1	263038			All	3500	692745	
0218	121607	691457	121607	0562	1	263042	1	263038	88		All	3500	692745	
0219	121602	691457	121602	0515	1	263042	1	263227			All	3700	692745	
0220	121602	692716	121602	0515	1	263042	1	263040	73	0220	All	3300		
					1	691457	1	692716	88					
0221	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	
0222	121602	693291	121602	0021	1	263042	1	263038	73		All	3600	692746	

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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
0223	121602	691457	121602	0515							All	3200	692745	
0224	121602	692823	121602	0022	1	263042	1	263038			All	3600	692747	
0225	121682	691457	121682	0050	1	231748	1	231671			All	3000	692750	V
0226	121682	691457	121682	0050	1	231748	1	231671			ALL	3300	692750	V
					1	263042	1	263040						
0227	121607	692823	121607	0660	1	263042	1	263038			All	3600	692747	
					1	691457	1	692823						
0228	121602	691456	121602	0525	1	263042	1	263040			All	3300	692748	
0230	121612	692823	121612	0545	1	232047	1	232153		0230	All	3300		
					1	692803	1	692823						
0231	121602	692824	121602	0515	1	691457	1	692824		0231	All	3200		
0232	121602	691458	121602	0515	1	691457	1	691458			All	3000	693065	
0234	121602	693291	121602	0021							All	3100	692746	
0235	121612	692803	121612	0545	1	232047	1	263046			All	3150	692755	
0236	121682	691457	121682	0551	1	231748	1	231671			All	3000	692751	V
0238	121607	691457	121607	0662							All	3100	692745	
0240	121602	692823	121602	0022							All	3150	692747	
0241	121682	692823	121682	0551	1	231748	1	231909		0241	All	3150		
					1	691457	1	692823						
0242	121602	691457	121602	0505							All	3000	692745	
0244	121682	691457	121682	0551	1	231748	1	231909			All	3150	692751	WW
0245	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	
0246	121612	691457	121612	0545	1	232153	1	232047	88		All	3600		
					1	692803	1	691457						
0247	121682	691457	121682	0551	1	231748	1	231671			All	2900	692751	V
0248	121607	691457	121607	0660	1	263042	1	263038			All	3500	692745	
0249	121682	691457	121682	0551							All	3000	692751	UU
0250	121602	691457	121602	0515							All	3000	692745	
0251	121682	691457	121682	0551	1	231748	1	231671			All	3000	692751	V
0252	121602	691257	121602	0515	1	263042	1	263047			All	3400	692745	
0253	121602	691457	121602	0505	1	263042	1	263038	88		All	3500	692745	
0254	121607	691257	121607	0660	1	262042	1	262038	88		All	3500	692745	
0255	121682	691456	121682	0551	1	263042	1	263040		0255	All	3400		
					1	691457	1	691456						
0256	121602	692824	121602	0515	1	691457	1	692824		0256	All	3000	693065	
0257	121682	691456	121682	0551	1	263042	1	263040		0257	All	3400		
					1	691457	1	691456						
0258	121602	691457	121602	0515	1	263042	1	263040			All	3300	692745	
0259	121602	693291	121602	0521							All	3000	692746	
0260	121607	691457	121607	0662							All	3000	692745	
0261	121607	691457	121607	0662							All	3000	692745	
0262	121607	691457	121607	0662					48		All	3000	692745	
0263	121602	691457	121602	0515							All	3000	692745	
0264	121607	692716	121607	0662	1	691457	1	692716			All	3000		
0265	121602	691457	121602	0515							All	3000	692745	
0266	121602	691456	121602	0525					73 88		All	3000	692748	
0267	121602	691456	121602	0525							All	3000	692748	
0268	121602	691457	121602	0515	1	263042	1	263040	88		All	3300	692745	
0269	121602	691456	121602	0525	1	263042	1	263040			All	3250	692748	
0270	121672	691456	122672	0020	1	263042	1	263040			All	3300		
					1	691457	1	691456						
0271	121602	691456	121602	0525	1	263042	1	263040			All	3300	692748	

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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
0272	121602	692716	121602	0515	1	263042	1	263040			All	3400		
					1	691457	1	692716						
0273	121607	691456	121607	0660	1	691457	1	691456			All	3200	692748	
0274	121612	692803	121612	0545							All	3150	692755	
0275	121602	691457	121602	0505							All	3600	692745	
0276	121682	691457	121682	0551	1	231748	1	231909	88		All	3150	692751	W
0277	121602	691457	121602	0515							All	3150	692745	
0278	121607	692803	121612	0545					76		All	3800	692755	
0279	121602	691457	121602	0515							All	3200	692745	
0280	121602	691457	121602	0515							All	3150	692745	
0281	121602	695860	121602	0515							All	3000	692745	
0282	121602	691456	121602	0525	1	263042	1	263040			All	3400	692748	
0283	121607	693291	121607	0660	1	691457	1	693291			All	3000	692746	
0284	121607	695860	121607	0662							All	3000	692745	
0285	121602	691457	121602	0505							All	3100	692745	
0286	121602	691457	121602	0515					88		All	3100	692745	
0287	121602	693291	121602	0521					73		All	3300	692746	
0288	121609	691457	121609	0347							All	3200	697753	
0289	121602	691457	121602	0505					81		All	3600	692745	
0290	121602	691457	121602	0505							All	3200	692745	
0291	121602	696607	121602	0515	1	691457	1	696607			All	3300		
0292	121607	691456	121607	0660	1	691457	1	691456			All	3250	692748	
0293	121602	691457	121602	0505							All	3000	692745	
0294	121607	691457	121607	0662							All	3000	692745	
0295	121609	691457	121609	0347					81 97		All	3600		
0296	121602	691457	121602	0505							All	3000	692745	
0297	121602	691457	121602	0515							All	3300	692745	
0298	121607	691457	121607	0662					81 94		All	3600	692745	
0299	121607	691456	121607	0660	1	691457	1	691456			All	3250	692748	
0300	121607	691457	121607	0662					81		All	3500	692745	
0301	121607	692823	121607	0660	1	691457	1	692823	81		All	3600	692747	
0302	121607	691457	121607	0662							All	3000	692745	
0303	121607	691457	121607	0662					94		All	3000	692745	
0304	121607	691457	121607	0660							All	3200	692745	
0305	121607	693291	121607	0660	1	691457	1	693291			All	3000	692746	
0306	121602	691457	121602	0515					81		All	3700	692745	
0307	121602	691456	121602	0525							All	3000	692748	
0308	121602	691457	121602	0515							All	3000	692745	
0309	121607	692716	121607	0662	1	691457	1	692716	81		All	3400		
0311	121607	692716	121607	0660	1	691457	1	692716	73 81	0311	All	3400		
0315	121602	693291	121602	0521					88		All	2800	692746	
0316	121602	691457	121602	0505					88		All	2800	692745	
0317	121602	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3600	692745	
0318	121607	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3600	692745	
0319	121602	691458	121602	0526					6 81 88		All	2850	693065	
0320	121602	691456	121602	0525							All	3300	692748	
0321	121602	691457	121602	0515					81		All	2800	692745	
0322	121602	691457	STD.								All	2700	692745	
0323	121609	693291	121609	0347	1	691457	1	693291	88 96		All	3000		

121600 to 121699

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
0324	121607	691457	121607	0660			1	691826	67 68 81		All	3550	692745	
0325	121609	693291	121609	0347	1	691457	1	693291	88 96		All	2900		
0326	121602	691456	121602	0525							All	3100	692748	
0327	121602	691457	121602	0505					88 96		All	3000	692745	
0328	121682	691457	121682	0551					81 88		All	2700	692751	E
0329	121609	693291	120609	0199	1	691459	1	693291	81		All	2800		
0330	121607	691457	121607	0662					81 88		All	2800	692745	
0331	121602	693291	121602	0521							All	3100	692746	
0332	121602	691457	121602	0515							All	3100	692745	
0333	121607	691457	121607	0662					68 88		All	2900	692745	
0334	121607	691457	121607	0662					88		All	2900	692745	
0335	121602	691456	121602	0525			1	494768	73 88		All	3000	692748	
0336	121602	691456	121602	0625							All	3250	692748	
0338	121602	691457	121602	0515							All	3200	692745	
0339	121602	691457	121602	0615							All	3150	692745	
0340	121606	691457	121607	0660							All	3200	692745	
0343	121687	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3600	692751	UU
0344	121602	691457	121602	0515					88		All	3000	692745	
0346	121602	691457	121602	0515					88		All	3000	692745	
0347	121609	691457	STD.						88		All	3000	697753	
0348	121605	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3600	692745	
0349	121602	691456	No Replacement Repair With Short Block and/or Individual Parts								All	3100	692748	
0350	121602	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3300	692745	
0351	121607	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3300	692745	
0354	121602	691457	121602	0505					88		All	2900	692745	
0355	121602	693291	121602	0521					88		All	2900	692746	
0357	121602	691457	121602	0505					88		All	2900	692745	
0358	121602	699011	STD.								All	3100	692748	
0359	121602	691457	121602	0615	1	691851	1	691290	88		All	3600	692745	
0360	121602	692716	121602	0515	1	691457	1	692716	81	0360	All	3600		
0363	121607	691456	121607	0662							All	3100	692748	
0365	121607	691456	No Replacement Repair With Short Block and/or Individual Parts								All	3500	692748	
0369	121602	691456	121602	0505	1	691457	1	691456	81 96	0369	All	3500	692748	
0370	121602	691456	No Replacement Repair With Short Block and/or Individual Parts								All	3250	692748	
0371	121682	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3100	692750	
0372	121607	691457	121607	0660	1	691851	1	693031	68 88		All	3600	692745	
0373	121607	691456	No Replacement Repair With Short Block and/or Individual Parts								All	3500	692748	
0374	121602	694491	121602	0526							All	2900	692749	
0375	121682	694491	121682	0551	1	231748	1	231671	81		All	2800		
					1	691457	1	694491						
0376	121602	699011	121602	0525							All	3050	692748	
0377	121602	699011	121602	0525					81		All	2750	692748	
0378	121602	691456	121602	0625							All	3250	692748	
0379	121602	790156	121602	0505	1	691457	1	790156	88 96		All	3000		

121600 to 121699

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
0380	121602	790156	121602	0505	1	697457	1	790156	81 88 96		All	2800		
0382	121607	691457	121607	0660					68 88		All	2900	692745	
0383	121602	790156	121602	0505	1	691457	1	790156	81 88 96		All	2800		
0384	121602	693291	121602	0521					73 81 88		All	2800	692746	
0385	121602	691457	121602	0515					88		All	2900	692745	
0387	121602	691457	121602	0505					73		All	3000	692745	
0388	121602	691457	121602	0515					73 88		All	3000	692745	
0389	121607	691457	No Replacement Repair With Short Block and/or Individual Parts								All	3400	692745	
0390	121602	691457	121602	0515					88		All	3000	692745	
0392	121602	693291	121602	0621							All	3100	692746	
0393	121602	695860	121602	0615					73 81		All	2800	692745	
0467	121602	699011	121602	0625					81		All	2750	692748	
0505	121602	691457	STD.								All	3600	692745	
0515	121602	691457	STD.								All	3100	692745	
0521	121602	693291	STD.								All	3100	692746	
0522	121602	692823	STD.								All	3100	692747	
0525	121602	691456	STD.								All	3100	692748	
0526	121602	694491	STD.								All	3100	692749	
0527	121602	691456	STD.								All	3250	692748	
0528	121602	691456	121602	0525							All	3250	692748	
0529	121602	691456	121602	0625							All	3250	692748	
0530	121602	691457	121602	0515							All	3100	692745	
0545	121612	692803	STD.								All	3800	692755	
0550	121682	691457	STD.								All	3100	692750	
0551	121682	691457	STD.								All	3100	692751	
0555	121602	699011	121602	0525							All	2950	692748	
0560	121607	691457	121607	0660							All	3100	692745	
0561	121607	691457	121607	0662							All	3100	692745	
0562	121607	691457	121607	0662							All	3100	692745	
0615	121602	691457	STD.								All	3100	692745	
0621	121602	693291	STD.								All	3100	692746	
0622	121602	692823	STD.								All	3100	692747	
0625	121602	691456	STD.								All	3100	692748	
0626	121602	691457	121602	0515							All	2900	692745	
0660	121607	691457	STD.								All	3100	692745	
0662	121607	691456	STD.								All	3100	692748	
0665	121602	691456	121602	0525							All	3100	692748	