LOT27 magnets Serial # 12481-12960

Bottom Jaw

Slot Number	Serial No.	Main filed Orientation	x-axis orientation
1	12674	Upstream	Right
2	12655	Downstream	Right
3	12686	Upstream	Left
4	12790	Downstream	Left
5	12769	Upstream	Left
6	12693	Downstream	Right
7	12763	Upstream	Right
8	12880	Downstream	Right
9	12778	Upstream	Right
10	12871	Downstream	Left
11	12841	Upstream	Right
12	12939	Downstream	Right
13	12809	Upstream	Right
14	12516	Downstream	Left
15	12943	Upstream	Right
16	12776	Downstream	Left
17	12884	Upstream	Left
18	12660	Downstream	Right
19	12896	Upstream	Left
20	12913	Downstream	Right
21	12835	Upstream	Left
22	12666	Downstream	Right
23	12805	Upstream	Left
24	12910	Downstream	Right
25	12725	Upstream	Right
26	12545	Downstream	Left
27	12710	Upstream	Left
28	12566	Downstream	Left
29	12895	Upstream	Right
30	12514	Downstream	Right
31	12774	Upstream	Left
32	12573	Downstream	Left
33	12792	Upstream	Right
34	12729	Downstream	Right
35	12820	Upstream	Left
36	12498	Downstream	Left
37	12766	Upstream	Right
38	12527	Downstream	Right
39	12698	Upstream	Left
40	12665	Downstream	Left
41	12955	Upstream	Left
42	12560	Downstream	Left
43	12814	Upstream	Left
44	12551	Downstream	Right
45	12807	Upstream	Left
46	12562	Downstream	Left
47	12737	Upstream	Right

Top Jaw

Slot Number	Serial No.	Main filed Orientation	x-axis orientation
1	12775	Downstream	Right
2	12670	Upstream	Right
3	12727	Downstream	Left
4	12754	Upstream	Right
5	12722	Downstream	Right
6	12733	Upstream	Left
7	12957	Downstream	Right
8	12800	Upstream	Right
9	12770	Downstream	Right
10	12653	Upstream	Left
11	12657	Downstream	Left
12	12829	Upstream	Left
13	12575	Downstream	Left
14	12793	Upstream	Left
15	12859	Downstream	Left
16	12758	Upstream	Left
17	12507	Downstream	Right
18	12940	Upstream	Left
19	12561	Downstream	Right
20	12771	Upstream	Right
21	12696	Downstream	Right
22	12937	Upstream	Left
23	12530	Downstream	Left
24	12799	Upstream	Left
25	12689	Downstream	Left
26	12942	Upstream	Left
27	12579	Downstream	Left
28	12839	Upstream	Right
29	12626	Downstream	Left
30	12893	Upstream	Right
31	12719	Downstream	Right
32	12865	Upstream	Left
33	12483	Downstream	Left
34	12691	Upstream	Left
35	12497	Downstream	Right
36	12850	Upstream	Left
37	12623	Downstream	Right
38	12902	Upstream	Left
39	12614	Downstream	Right
40	12925	Upstream	Left
41	12518	Downstream	Right
42	12756	Upstream	Right
43	12642	Downstream	Right
44	12882	Upstream	Right
45	12555	Downstream	Right
46	12791	Upstream	Right
47	12598	Downstream	Left

48	12580	Downstream	Left
49	12786	Upstream	Left
50	12522	Downstream	Left
51	12713	Upstream	Left
52	12512	Downstream	Right
53	12901	Upstream	Right
54	12652	Downstream	Right
55	12894	Upstream	Right
56	12605	Downstream	Left
57	12732	Upstream	Right
58	12492	Downstream	Left
59	12760	Upstream	Right
60	12590	Downstream	Right
61	12881	Upstream	Right
62	12581	Downstream	Left
63	12787	Upstream	Left
64	12651	Downstream	Right
65	12848	Upstream	Right
66	12572	Downstream	Right
67	12808	Upstream	Right
68	12537	Downstream	Right
69	12851	Upstream	Right
70	12641	Downstream	Right
71	12582	Upstream	Right
72	12496	Downstream	Left
73	12755	Upstream	Right
74	12591	Downstream	Left
75	12908	Upstream	Left
76	12508	Downstream	Right
77	12935	Upstream	Right
78	12571	Downstream	Left
79	12844	Upstream	Right
80	12542	Downstream	Left
81	12858	Upstream	Right
82	12773	Downstream	Right
83	12643	Upstream	Right
84	12782	Downstream	Right
85	12887	Upstream	Right
86	12938	Downstream	Left
87	12836	Upstream	Right
88	12740	Downstream	Left
89	12900	Upstream	Left
90	12515	Downstream	Right
91	12741	Upstream	Right
92	12920	Downstream	Right
93	12915	Upstream	Left
94	12501	Downstream	Left
95	12822	Upstream	Right
96	12659	Downstream	Left
97	12950	Upstream	Left
98	12620	Downstream	Right
99	12779	Upstream	Right

48	12849	Upstream	Right
49	12521	Downstream	Right
50	12704	Upstream	Left
51	12635	Downstream	Left
52	12877	Upstream	Left
53	12528	Downstream	Left
54	12926	Upstream	Left
55	12650	Downstream	Left
56	12823	Upstream	Left
57	12811	Downstream	Right
58	12735	Upstream	Left
59	12552	Downstream	Left
60	12954	Upstream	Left
61	12576	Downstream	Left
62	12874	Upstream	Left
63	12616	Downstream	Left
64	12789	Upstream	Left
65	12526	Downstream	Right
66	12831	Upstream	Right
67	12533	Downstream	Right
68	12768	Upstream	Left
69	12644	Downstream	Left
70	12834	Upstream	Left
71	12553	Downstream	Right
72	12947	Upstream	Left
73	12548	Downstream	Right
74	12739	Upstream	Right
75	12499	Downstream	Right
76	12547	Upstream	Left
77	12520	Downstream	Left
78	12936	Upstream	Right
79	12543	Downstream	Right
80	12857	Upstream	Left
81	12663	Downstream	Left
82	12711	Upstream	Left
83	12730	Downstream	Right
84	12746	Upstream	Left
85	12604	Downstream	Right
86	12784	Upstream	Left
87	12914	Downstream	Left
88	12615	Upstream	Left
89	12898	Downstream	Left
90	12960	Upstream	Right
91	12558	Downstream	Right
92	12772	Upstream	Left
93	12678	Downstream	Right
94	12625	Upstream	Left
95	12610	Downstream	Left
96	12930	Upstream	Right
97	12563	Downstream	Right
98	12683	Upstream	Left
99	12669	Downstream	Left

100	12600	Downstream	Left
101	12856	Upstream	Right
102	12718	Downstream	Left
103	12588	Upstream	Right
104	12832	Downstream	Left
105	12493	Upstream	Left
106	12673	Downstream	Left
107	12892	Upstream	Right
108	12608	Downstream	Right
109	12690	Upstream	Right
110	12917	Downstream	Right
111	12878	Upstream	Right
112	12788	Downstream	Right
113	12932	Upstream	Right
114	12861	Downstream	Right
115	12491	Upstream	Right
116	12795	Downstream	Right
117	12911	Upstream	Right
118	12609	Downstream	Right
119	12899	Upstream	Right
120	12785	Downstream	Right
121	12837	Upstream	Right
122	12636	Downstream	Right
123	12923	Upstream	Right
124	12510	Downstream	Left
125	12601	Upstream	Left
126	12599	Downstream	Right
127	12888	Upstream	Right
128	12667	Downstream	Left
129	12505	Upstream	Right
130	12934	Downstream	Left
131	12951	Upstream	Right
132	12517	Downstream	Right
133	12762	Upstream	Right
134	12585	Downstream	Left
135	12744	Upstream	Right
136	12618	Downstream	Right
137	12824	Upstream	Right
138	12826	Downstream	Right
139	12487	Upstream	Right
140	12629	Downstream	Left
141	12885	Upstream	Right
142	12529	Downstream	Right
143	12797	Upstream	Left
144	12918	Downstream	Left
145	12798	Upstream	Left
146	12647	Downstream	Right
147	12864	Upstream	Left
148	12634	Downstream	Left
149	12879	Upstream	Right
150	12540	Downstream	Right
151	12804	Upstream	Left

100	12612	Upstream	Left
101	12538	Downstream	Left
102	12654	Upstream	Left
103	12903	Downstream	Left
104	12699	Upstream	Right
105	12633	Downstream	Left
106	12846	Upstream	Right
107	12525	Downstream	Left
108	12959	Upstream	Right
109	12941	Downstream	Left
110	12912	Upstream	Right
111	12645	Downstream	Right
112	12875	Upstream	Left
113	12506	Downstream	Right
114	12952	Upstream	Right
115	12638	Downstream	Right
116	12909	Upstream	Left
117	12749	Downstream	Left
118	12890	Upstream	Left
119	12523	Downstream	Left
120	12574	Upstream	Left
121	12767	Downstream	Right
122	12904	Upstream	Left
123	12631	Downstream	Left
124	12708	Upstream	Left
125	12617	Downstream	Left
126	12853	Upstream	Left
127	12577	Downstream	Left
128	12679	Upstream	Left
129	12559	Downstream	Left
130	12953	Upstream	Right
131	12639	Downstream	Right
132	12876	Upstream	Left
133	12481	Downstream	Left
134	12752	Upstream	Left
135	12556	Downstream	Right
136	12956	Upstream	Left
137	12500	Downstream	Left
138	12595	Upstream	Left
139	12685	Downstream	Right
140	12607	Upstream	Left
141	12606	Downstream	Right
142	12748	Upstream	Left
143	12593	Downstream	Left
144	12794	Upstream	Left
145	12646	Downstream	Right
146	12855	Upstream	Right
147	12664	Downstream	Right
148	12813	Upstream	Right
149	12488	Downstream	Left
150	12868	Upstream	Left
151	12489	Downstream	Right

152	12603	Downstream	Left
153	12743	Upstream	Right
154	12539	Downstream	Left
155	12891	Upstream	Right
156	12594	Downstream	Right
157	12919	Upstream	Left
158	12524	Downstream	Right
159	12602	Upstream	Left
160	12541	Downstream	Left
161	12830	Upstream	Right
162	12717	Downstream	Right
163	12854	Upstream	Left
164	12495	Downstream	Left
165	12867	Upstream	Right
166	12568	Downstream	Left
167	12759	Upstream	Right
168	12624	Downstream	Left
169	12753	Upstream	Left
170	12534	Downstream	Left
171	12825	Upstream	Left
172	12640	Downstream	Right
173	12872	Upstream	Right
174	12513	Downstream	Left
175	12897	Upstream	Left
176	12816	Downstream	Right
177	12810	Upstream	Right
178	12578	Downstream	Right
179	12680	Upstream	Left
180	12671	Downstream	Right
181	12781	Upstream	Right
182	12630	Downstream	Right
183	12818	Upstream	Right
184	12721	Downstream	Left
185	12907	Upstream	Right
186	12677	Downstream	Right
187	12716	Upstream	Right
188	12485	Downstream	Right
189	12922	Upstream	Right
190	12949	Downstream	Right
191	12862	Upstream	Right
192	12592	Downstream	Right
193	12736	Upstream	Right
194	12482	Downstream	Right
195	12803	Upstream	Left
196	12701	Downstream	Left
197	12958	Upstream	Right
198	12531	Downstream	Left
199	12720	Upstream	Right
200	12668	Downstream	Right
201	12745	Upstream	Left
202	12802	Downstream	Right
203	12847	Upstream	Right

152	12697	Upstream	Left
153	12570	Downstream	Left
154	12747	Upstream	Right
155	12503	Downstream	Left
156	12833	Upstream	Right
157	12649	Downstream	Right
158	12661	Upstream	Right
159	12611	Downstream	Left
160	12714	Upstream	Left
161	12596	Downstream	Right
162	12728	Upstream	Right
163	12557	Downstream	Left
164	12842	Upstream	Right
165	12569	Downstream	Left
166	12928	Upstream	Right
167	12544	Downstream	Right
168	12761	Upstream	Right
169	12550	Downstream	Right
170	12687	Upstream	Right
171	12565	Downstream	Left
172	12707	Upstream	Right
173	12628	Downstream	Left
174	12905	Upstream	Left
175	12632	Downstream	Right
176	12765	Upstream	Left
177	12484	Downstream	Right
178	12511	Upstream	Left
179	12597	Downstream	Left
180	12726	Upstream	Left
181	12622	Downstream	Left
182	12870	Upstream	Right
183	12532	Downstream	Left
184	12738	Upstream	Right
185	12519	Downstream	Right
186	12946	Upstream	Right
187	12675	Downstream	Left
188	12906	Upstream	Left
189	12554	Downstream	Left
190	12706	Upstream	Right
191	12494	Downstream	Right
192	12684	Upstream	Right
193	12682	Downstream	Right
194	12933	Upstream	Right
195	12587	Downstream	Right
196	12700	Upstream	Left
197	12504	Downstream	Right
198	12613	Upstream	Left
199	12567	Downstream	Right
200	12817	Upstream	Right
201	12751	Downstream	Right
202	12724	Upstream	Right
203	12564	Downstream	Left

204	12658	Downstream	Left
205	12757	Upstream	Right
206	12873	Downstream	Right
207	12702	Upstream	Right
208	12838	Downstream	Left
209	12931	Upstream	Right
210	12860	Downstream	Left
211	12681	Upstream	Right
212	12672	Downstream	Left
213	12709	Upstream	Left
214	12742	Downstream	Right
215	12694	Upstream	Right
216	12783	Downstream	Right
217	12883	Upstream	Right
218	12723	Downstream	Left
219	12827	Upstream	Left
220	12828	Downstream	Right
221	12621	Upstream	Right
222	12852	Downstream	Left
223	12695	Upstream	Left
224	12921	Downstream	Left
225	12486	Upstream	Left

204	12866	Upstream	Left
205	12536	Downstream	Right
206	12715	Upstream	Right
207	12549	Downstream	Right
208	12703	Upstream	Right
209	12656	Downstream	Right
210	12619	Upstream	Right
211	12692	Downstream	Right
212	12924	Upstream	Left
213	12509	Downstream	Right
214	12780	Upstream	Left
215	12869	Downstream	Right
216	12819	Upstream	Left
217	12840	Downstream	Right
218	12796	Upstream	Right
219	12845	Downstream	Left
220	12676	Upstream	Right
221	12734	Downstream	Left
222	12731	Upstream	Left
223	12777	Downstream	Right
224	12815	Upstream	Left
225	12535	Downstream	Left

For "X-Axis Orientation" column
"Right" stands for right-numbered surface should face to the undulator axis.
"Left" stands for left-numbered surface should face to the undulator axis.
This "Right", "Left" procedure applies for both Top and Bottom Jaw

For "Main-Field Orientation" column **(see Assembly Procedure Document)**
"Downstream" side corresponts to the direction of lower-numbered slot.
Arrow should point toward the lower numbered slots.
"Upstream" side corresponds to the direction of higher-numbered slot.
Arrow should point toward the higher numbered slots.

Spare magnets

serial No.	Reduced Magnetization
12927	33%
12764	80%
12801	
12889	
12696	
12812	
12583	
12688	
12662	
12948	
12627	
12712	

Sample magnets

serial No.
12546
12637
12750
12806
12916

12596
12929
12651
12705
12586
12821
12773
12944
12490
12945
12863
12589
12843