

1HF	Standard Ramp Hydraulic Flat Tappet							Berco							
File Name	@.006"	@.020"	@.050"	@.200"	max lift	lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
1hf193233	247	220	193	79	0.233	0.000	YES	.3500	.3547	.3733	.3850	.3967	.4013	.4083	
1hf199260	253	226	199	101	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550	
1hf201273	255	228	201	109	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783	
1hf203250	257	230	203	97	0.250	0.000	YES	.3750	.3800	.4000	.4125	.4250	.4300	.4375	
1hf203277	257	230	203	111	0.277	0.000	YES	.4150	.4205	.4427	.4565	.4703	.4759	.4842	
1hf205280	259	232	205	114	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900	
1hf205283	259	232	205	115	0.283	0.000	YES	.4250	.4307	.4533	.4675	.4817	.4873	.4958	
1hf207280	261	234	207	115	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900	
1hf209277	263	236	209	115	0.277	0.000	YES	.4150	.4205	.4427	.4565	.4703	.4759	.4842	
1hf209280	263	236	209	116	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900	
1hf209290	263	236	209	118	0.290	0.000	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075	
1hf211293	265	238	211	120	0.293	0.000	YES	.4400	.4459	.4693	.4840	.4987	.5045	.5133	
1hf213286	267	236	213	122	0.286	0.000	YES	.4290	.4347	.4576	.4719	.4862	.4919	.5005	
1hf213287	267	240	213	122	0.287	0.000	YES	.4300	.4357	.4587	.4730	.4873	.4931	.5017	
1hf213300	267	240	213	125	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
1hf215297	269	242	215	126	0.297	0.000	YES	.4450	.4509	.4747	.4895	.5043	.5103	.5192	
1hf215303	269	242	215	127	0.303	0.000	YES	.4550	.4611	.4853	.5005	.5157	.5217	.5308	
1hf217303	271	244	217	126	0.303	0.000	YES	.4550	.4611	.4853	.5005	.5157	.5217	.5308	
1hf219287	273	246	219	126	0.287	0.000	YES	.4300	.4357	.4587	.4730	.4873	.4931	.5017	
1hf219300	273	246	219	126	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
1hf221287	275	248	221	127	0.287	0.000	YES	.4300	.4357	.4587	.4730	.4873	.4931	.5017	
1hf221297	275	248	221	131	0.297	0.000	YES	.4450	.4509	.4747	.4895	.5043	.5103	.5192	
1hf221313	275	248	221	133	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
1hf223273	277	250	223	122	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783	
1hf223300	277	250	223	133	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
1hf223310	277	250	223	135	0.310	0.000	YES	.4650	.4712	.4960	.5115	.5270	.5332	.5425	
1hf225310	279	252	225	137	0.310	0.000	YES	.4650	.4712	.4960	.5115	.5270	.5332	.5425	
1hf225327	279	252	225	138	0.327	0.000	YES	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
1hf225330	279	252	225	138	0.330	0.000	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
1hf227313	281	254	227	139	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
1hf227320	281	254	227	140	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
1hf227327	281	254	227	140	0.327	0.000	YES	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
1hf231300	285	258	231	139	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
1hf231313	285	258	231	142	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
1hf231320	285	258	231	143	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
1hf233320	287	260	233	145	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
1hf233327	287	260	233	146	0.327	0.000	YES	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
1hf233330	287	260	233	146	0.330	0.000	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
1hf235297	289	262	235	140	0.297	0.000	YES	.4450	.4509	.4747	.4895	.5043	.5103	.5192	
1hf235260	289	262	235		0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550	
1hf235313	289	262	235	145	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
1hf235325	289	262	235	147	0.325	0.000	YES	.4875	.4940	.5200	.5363	.5525	.5590	.5688	
1hf237300	291	264	237	143	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	

1hf237325	291	264	237	149	0.325	0.000	YES	.4875	.4940	.5200	.5363	.5525	.5590	.5688
1hf237337	291	264	237		0.337	0.000	YES	.5050	.5117	.5387	.5555	.5723	.5791	.5892
1hf241273	295	268	241		0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf241313	295	268	241	150	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483
1hf241335	294	268	241	154	0.335	0.000	YES	.5025	.5092	.5360	.5528	.5695	.5762	.5863
1hf243273	297	270	243	133	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf243290	297	270	243	142	0.290	0.000	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075
1hf243300	297	270	243	147	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250
1hf243320	297	270	243	153	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
1hf243338	297	270	243	156	0.338	0.000	YES	.5075	.5142	.5413	.5582	.5751	.5819	.5920
1hf243346	297	270	243	156	0.346	0.000	YES	.5190	.5259	.5536	.5709	.5882	.5951	.6055
1hf245290	299	272	245	143	0.290	0.000	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075
1hf245300	299	272	245	148	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250
1hf245320	299	272	245	154	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
1hf245325	299	272	245	156	0.325	0.000	YES	.4875	.4940	.5200	.5363	.5525	.5590	.5688
1hf245340	299	272	245	158	0.340	0.000	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
1hf247330	301	274	247	158	0.330	0.000	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
1hf247340	301	274	247	160	0.340	0.000	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
1hf247350	301	274	247	160	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf249313	303	276	249	155	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483
1hf249320	303	276	249	158	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
1hf249340	303	276	249	161	0.340	0.000	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
1hf249350	303	276	249	162	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf251280	305	278	251	141	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf251330	305	278	251	162	0.330	0.000	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
1hf251340	305	278	251	163	0.340	0.000	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
1hf251350	305	278	251	164	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf251360	305	278	251	164	0.360	0.000	YES	.5400	.5472	.5760	.5940	.6120	.6192	.6300
1hf253347	307	280	253	166	0.347	0.000	YES	.5200	.5269	.5547	.5720	.5893	.5963	.6067
1hf253350	307	280	253	166	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf253353	307	280	253	166	0.353	0.000	YES	.5300	.5371	.5653	.5830	.6007	.6077	.6183
1hf255280	309	282	255	144	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf255300	309	282	255	154	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250
1hf255320	309	282	255	160	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
1hf255350	309	282	255	168	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf257320	311	284	257	169	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
1hf259350	313	286	259	171	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
1hf261350	315	288	262	173	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125

1HS Stock Replacement Hydraulic Flat Tappet														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
1hs184230	270		184		0.230	0.000	YES	.3450	.3496	.3680	.3795	.3910	.3956	.4025
1hs186232	270		186		0.232	0.000	YES	.3480	.3526	.3712	.3828	.3944	.3990	.4060
1hs187238	252		187		0.238	0.000	YES	.3570	.3618	.3808	.3927	.4046	.4094	.4165
1hs187250	250		187		0.250	0.000	YES	.3750	.3800	.4000	.4125	.4250	.4300	.4375
1hs189238	298		189		0.238	0.000	YES	.3570	.3618	.3808	.3927	.4046	.4094	.4165
1hs189254	298		189		0.254	0.000	YES	.3810	.3861	.4064	.4191	.4318	.4369	.4445
1hs190229	266		190		0.229	0.000	YES	.3435	.3481	.3664	.3779	.3893	.3939	.4008
1hs190235	274		190		0.235	0.000	YES	.3525	.3572	.3760	.3878	.3995	.4042	.4113
1hs192253	256		192		0.253	0.000	YES	.3789	.3840	.4042	.4168	.4294	.4345	.4421
1hs194260	256		194		0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hs196242	286		196		0.242	0.000	YES	.3636	.3684	.3878	.4000	.4121	.4169	.4242
1hs196258	272		196		0.258	0.000	YES	.3870	.3922	.4128	.4257	.4386	.4438	.4515
1hs198235	260		198		0.235	0.000	no	.3525	.3572	.3760	.3878	.3995	.4042	.4113
1hs198260	260		198		0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hs198269	271		198		0.269	0.000	YES	.4040	.4094	.4309	.4444	.4579	.4633	.4713
1hs198270	273		198		0.270	0.000	YES	.4050	.4104	.4320	.4455	.4590	.4644	.4725
1hs200250	256		200		0.250	0.000	YES	.3750	.3800	.4000	.4125	.4250	.4300	.4375
1hs200271	273		200		0.271	0.000	YES	.4065	.4119	.4336	.4472	.4607	.4661	.4743
1hs203273	262		203		0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hs206278	270		206		0.278	0.000	YES	.4170	.4226	.4448	.4587	.4726	.4782	.4865
1hs206278-2	288		206		0.278	0.000	YES	.4170	.4226	.4448	.4587	.4726	.4782	.4865
1hs206289	260		206		0.289	0.000	YES	.4335	.4393	.4624	.4769	.4913	.4971	.5058
1hs208259	294		208		0.259	0.000	YES	.3885	.3937	.4144	.4274	.4403	.4455	.4533
1hs208272	280		208		0.272	0.000	YES	.4080	.4134	.4352	.4488	.4624	.4678	.4760
1hs208278	270		208		0.278	0.000	YES	.4170	.4226	.4448	.4587	.4726	.4782	.4865
1hs208289	268		208		0.289	0.000	YES	.4335	.4393	.4624	.4769	.4913	.4971	.5058
1hs210274	282		210		0.274	0.000	YES	.4110	.4165	.4384	.4521	.4658	.4713	.4795
1hs210278	346		210		0.278	0.000	YES	.4170	.4226	.4448	.4587	.4726	.4782	.4865
1hs212272	288		212		0.272	0.000	YES	.4080	.4134	.4352	.4488	.4624	.4678	.4760
1hs213278	348		213		0.278	0.000	YES	.4170	.4226	.4448	.4587	.4726	.4782	.4865
1hs218288	288		218		0.288	0.000	YES	.4320	.4378	.4608	.4752	.4896	.4954	.5040
1hs220283	308		220		0.283	0.000	YES	.4250	.4307	.4533	.4675	.4817	.4873	.4958
1hs221283	290		221		0.283	0.000	YES	.4250	.4307	.4533	.4675	.4817	.4873	.4958
1hs223298	290		223		0.298	0.000	YES	.4470	.4530	.4768	.4917	.5066	.5126	.5215
1hs224271	301		224		0.271	0.000	YES	.4065	.4119	.4336	.4472	.4607	.4661	.4743
1hs224271	302		225		0.272	0.000	YES	.4080	.4134	.4352	.4488	.4624	.4678	.4760
1hs224300	292		224		0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250
1hs224307	288		224		0.307	0.000	YES	.4600	.4661	.4907	.5060	.5213	.5275	.5367
1hs225272	302		225		0.272	0.000	YES	.4080	.4134	.4352	.4488	.4624	.4678	.4760
1hs227298	310		227		0.289	0.000	YES	.4335	.4393	.4624	.4769	.4913	.4971	.5058
1hs232296	308		232		0.296	0.000	YES	.4440	.4499	.4736	.4884	.5032	.5091	.5180
1hs236271	313		236		0.271	0.000	YES	.4065	.4119	.4336	.4472	.4607	.4661	.4743

3HF	Aggressive Hydraulic Flat Tappet													
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
3HF199283	246	223	199	111	0.283	0.000	YES	.4250	.4307	.4533	.4675	.4817	.4873	.4958
3HF201287	248	225	201	113	0.287	0.000	YES	.4300	.4357	.4587	.4730	.4873	.4931	.5017
3HF203290	250	227	203	116	0.290	0.000	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075
3HF205293	252	229	205	118	0.293	0.000	YES	.4400	.4459	.4693	.4840	.4987	.5045	.5133
3HF207297	254	231	207	120	0.297	0.000	YES	.4450	.4509	.4747	.4895	.5043	.5103	.5192
3HF209300	256	233	209	122	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250
3HF211303	258	235	211	124	0.303	0.000	YES	.4550	.4611	.4853	.5005	.5157	.5217	.5308
3HF213307	260	237	213	127	0.307	0.000	YES	.4600	.4661	.4907	.5060	.5213	.5275	.5367
3HF215310	262	239	215	129	0.310	0.000	YES	.4650	.4712	.4960	.5115	.5270	.5332	.5425
3HF217313	264	241	217	131	0.313	0.000	YES	.4700	.4763	.5013	.5170	.5327	.5389	.5483
3HF219317	266	243	219	133	0.317	0.000	YES	.4750	.4813	.5067	.5225	.5383	.5447	.5542
3HF221320	268	245	221	135	0.320	0.000	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600
3HF223307	270	247	223	135	0.307	0.000	YES	.4605	.4666	.4912	.5066	.5219	.5280	.5373
3HF223323	270	247	223	137	0.323	0.000	YES	.4850	.4915	.5173	.5335	.5497	.5561	.5658
3HF225327	272	249	225	139	0.327	0.000	YES	.4900	.4965	.5227	.5390	.5553	.5619	.5717
3HF227330	274	251	227	141	0.330	0.000	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
3HF229333	276	253	229	143	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF231307	278	255	231	142	0.307	0.000	YES	.4605	.4666	.4912	.5066	.5219	.5280	.5373
3HF231333	278	255	231	145	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF231337	278	255	231	145	0.337	0.000	YES	.5050	.5117	.5387	.5555	.5723	.5791	.5892
3HF233333	280	257	233	147	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF233340	280	257	233	147	0.340	0.000	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
3HF235333	282	259	235	149	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF235343	282	259	235	149	0.343	0.000	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
3HF237280	284	261	237	135	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
3HF237333	284	261	237	151	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF237347	284	261	237	151	0.347	0.000	YES	.5200	.5269	.5547	.5720	.5893	.5963	.6067
3HF239333	286	263	239	153	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF239350	286	263	239	153	0.350	0.000	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
3HF241333	288	265	241	155	0.333	0.000	YES	.4995	.5062	.5328	.5495	.5661	.5728	.5828
3HF241353	288	265	241	155	0.353	0.000	YES	.5300	.5371	.5653	.5830	.6007	.6077	.6183
3HF243280	290	267	243	137	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
3HF243333	290	267	243	156	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF243357	290	267	243	157	0.357	0.000	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
3HF245333	292	269	245	158	0.333	0.000	YES	.4995	.5062	.5328	.5495	.5661	.5728	.5828
3HF245360	292	269	245	159	0.360	0.000	YES	.5400	.5472	.5760	.5940	.6120	.6192	.6300
3HF247333	294	271	247	160	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF247357	294	271	247	161	0.357	0.000	YES	.5355	.5426	.5712	.5891	.6069	.6140	.6248
3HF247363	294	271	247	161	0.363	0.000	YES	.5450	.5523	.5813	.5995	.6177	.6249	.6358
3HF249333	296	273	249	162	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF249367	296	273	249	163	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF251333	298	275	251	165	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
3HF251367	298	275	251	165	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF253333	300	277	253	165	0.333	0.000	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833

3HF253367	300	277	253	167	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF255367	302	279	255	169	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF257367	304	281	257	171	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF259367	306	283	259	173	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF261367	308	285	261	175	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
3HF263367	310	287	263	177	0.367	0.000	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417

1HFLR	Lift Rule Hydraulic Flat Tappet SQUARE NOSE DESIGNS													
File Name	@.006"	@.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
1hf219260LR	272	246	219	127	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf221260LR	274	248	221	129	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf223260LR	276	250	223	131	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf225260LR	278	252	225	133	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf227260LR	280	254	227	135	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf229260LR	282	256	229	137	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf231260LR	284	258	231	139	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf233260LR	286	260	233	141	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf235260LR	288	262	235	143	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf237260LR	290	264	237	145	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf239260LR	292	266	239	147	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf241260LR	294	268	241	149	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf243260LR	296	270	243	151	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf245260LR	298	272	245	153	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf247260LR	300	274	247	155	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf249260LR	302	276	249	157	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf251260LR	304	278	251	159	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf253260LR	306	280	253	161	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf255260LR	308	282	255	163	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf257260LR	310	284	257	165	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf259260LR	312	286	259	167	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf261260LR	314	288	261	169	0.260	0.000	YES	.3900	.3952	.4160	.4290	.4420	.4472	.4550
1hf219267LR	272	246	219	128	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf221267LR	274	248	221	130	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf223267LR	276	250	223	132	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf225267LR	278	252	225	134	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf227267LR	280	254	227	136	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf229267LR	282	256	229	138	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf231267LR	284	258	231	140	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf233267LR	286	260	233	142	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf235267LR	288	262	235	144	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf237267LR	290	264	237	146	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf239267LR	292	266	239	148	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf241267LR	294	268	241	150	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf243267LR	296	270	243	152	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf245267LR	298	272	245	154	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf247267LR	300	274	247	156	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf249267LR	302	276	249	158	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf251267LR	304	278	251	160	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf253267LR	306	280	253	162	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf255267LR	308	282	255	164	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf257267LR	310	284	257	166	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf259267LR	312	286	259	168	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667

1hf261267LF	314	288	261	170	0.267	0.000	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667
1hf219273LF	272	246	219	129	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf221273LF	274	248	221	131	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf223273LF	276	250	223	133	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf225273LF	278	252	225	135	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf227273LF	280	254	227	137	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf229273LF	282	256	229	139	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf231273LF	284	258	231	141	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf233273LF	286	260	233	143	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf235273LF	288	262	235	145	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf237273LF	290	264	237	147	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf239273LF	292	266	239	149	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf241273LF	294	268	241	151	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf243273LF	296	270	243	153	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf245273LF	298	272	245	155	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf247273LF	300	274	247	157	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf249273LF	302	276	249	159	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf251273LF	304	278	251	161	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf253273LF	306	280	253	163	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf255273LF	308	282	255	165	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf257273LF	310	284	257	167	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf259273LF	312	286	259	169	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf261273LF	314	288	261	171	0.273	0.000	YES	.4100	.4155	.4373	.4510	.4647	.4701	.4783
1hf219280LF	272	246	219	130	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf221280LF	274	248	221	132	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf223280LF	276	250	223	134	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf225280LF	278	252	225	136	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf227280LF	280	254	227	138	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf229280LF	282	256	229	140	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf231280LF	284	258	231	142	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf233280LF	286	260	233	144	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf235280LF	288	262	235	146	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf237280LF	290	264	237	148	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf239280LF	292	266	239	150	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf241280LF	294	268	241	152	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf243280LF	296	270	243	154	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf245280LF	298	272	245	156	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf247280LF	300	274	247	158	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf249280LF	302	276	249	160	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf251280LF	304	278	251	162	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf253280LF	306	280	253	164	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf255280LF	308	282	255	166	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf257280LF	310	284	257	168	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf259280LF	312	286	259	170	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf261280LF	314	288	261	172	0.280	0.000	YES	.4200	.4256	.4480	.4620	.4760	.4816	.4900
1hf219300LF	272	246	219	131	0.300	0.000	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250

BHR	Standard Ramp Hydraulic Roller														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
bhr175263	228	202	181	89	0.263	0.000	NO	.3950	.4003	.4213	.4345	.4477	.4529	.4608	
bhr181253	234	208	181	88	0.253	0.000	NO	.3800	.3851	.4053	.4180	.4307	.4357	.4433	
bhr201273	254	228	201	109	0.273	0.000	NO	.4100	.4155	.4373	.4510	.4647	.4701	.4783	
bhr201300	254	228	201	119	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr205273	258	232	205	112	0.273	0.000	NO	.4100	.4155	.4373	.4510	.4647	.4701	.4783	
bhr207300	260	234	207	123	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr209300	262	236	209	124	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr209310	262	236	209	127	0.310	0.000	NO	.4650	.4712	.4960	.5115	.5270	.5332	.5425	
bhr213300	266	240	213	127	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr213310	266	240	213	130	0.310	0.000	NO	.4650	.4712	.4960	.5115	.5270	.5332	.5425	
bhr213323	266	240	213	133	0.323	0.000	NO	.4850	.4915	.5173	.5335	.5497	.5561	.5658	
bhr215313	268	242	215	132	0.313	0.000	NO	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
bhr215333	268	242	215	132	0.333	0.000	NO	.5000	.5067	.5333	.5500	.5667	.5733	.5833	
bhr217310	270	244	217	133	0.310	0.000	NO	.4650	.4712	.4960	.5115	.5270	.5332	.5425	
bhr217323	270	244	217	136	0.323	0.000	NO	.4850	.4915	.5173	.5335	.5497	.5561	.5658	
bhr217330	270	244	217	137	0.330	0.000	NO	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
bhr219300	272	246	219	131	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr219327	272	246	219	138	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
bhr219340	272	246	219	141	0.340	0.000	NO	.5100	.5168	.5440	.5610	.5780	.5848	.5950	
bhr219350	272	246	219	142	0.350	0.000	NO	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bhr219360	272	246	219	143	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300	
bhr221297	274	248	221	131	0.297	0.000	NO	.4450	.4509	.4747	.4895	.5043	.5103	.5192	
bhr221300	274	248	221	133	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr221317	274	248	221	138	0.317	0.000	NO	.4750	.4813	.5067	.5225	.5383	.5447	.5542	
bhr223317	276	250	223	139	0.317	0.000	NO	.4750	.4813	.5067	.5225	.5383	.5447	.5542	
bhr225300	278	252	225	135	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr225313	278	252	225	139	0.313	0.000	NO	.4700	.4763	.5013	.5170	.5327	.5389	.5483	
bhr225327	278	252	225	143	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
bhr225333	278	252	225	144	0.333	0.000	NO	.5000	.5067	.5333	.5500	.5667	.5733	.5833	
bhr225350	278	252	225	147	0.350	0.000	NO	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bhr227300	280	254	227	137	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr227327	280	254	227	144	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
bhr227350	280	254	227	149	0.350	0.000	NO	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bhr227373	280	254	227	151	0.373	0.000	NO	.5600	.5675	.5973	.6160	.6347	.6421	.6533	
bhr229300	282	256	229	139	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr229320	282	256	229	144	0.320	0.000	NO	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
bhr229327	282	256	229	146	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717	
bhr229347	282	256	229	150	0.347	0.000	NO	.5200	.5269	.5547	.5720	.5893	.5963	.6067	
bhr229360	282	256	229	152	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300	
bhr229373	282	256	229	152	0.373	0.000	NO	.5595	.5670	.5968	.6155	.6341	.6416	.6528	
bhr231340	284	258	231	150	0.340	0.000	NO	.5100	.5168	.5440	.5610	.5780	.5848	.5950	
bhr231353	284	258	231	153	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183	
bhr233300	286	260	233	141	0.300	0.000	NO	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bhr233327	286	260	233	149	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717	

bhr233343	286	260	233	153	0.343	0.000	NO	.5150	.5219	.5493	.5665	.5837	.5905	.6008
bhr233353	286	260	233	154	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr233360	286	260	233	155	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
bhr233373	286	260	233	157	0.373	0.000	NO	.5600	.5675	.5973	.6160	.6347	.6421	.6533
bhr235317	288	262	235		0.317	0.000	NO	.4750	.4813	.5067	.5225	.5383	.5447	.5542
bhr235320	288	262	235		0.320	0.000	NO	.4800	.4864	.5120	.5280	.5440	.5504	.5600
bhr235327	288	262	235	150	0.327	0.000	NO	.4900	.4965	.5227	.5390	.5553	.5619	.5717
bhr235353	288	262	235	156	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr235363	288	262	235	157	0.363	0.000	NO	.5450	.5523	.5813	.5995	.6177	.6249	.6358
bhr235380	288	262	235	159	0.380	0.000	NO	.5700	.5776	.6080	.6270	.6460	.6536	.6650
bhr235400	288	262	235	161	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr237353	290	264	237	158	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr237373	290	264	237	160	0.373	0.000	NO	.5600	.5675	.5973	.6160	.6347	.6421	.6533
bhr237387	290	264	237	162	0.387	0.000	NO	.5800	.5877	.6187	.6380	.6573	.6651	.6767
bhr241320	294	268	241		0.320	0.000	NO	.4800	.4864	.5120	.5280	.5440	.5504	.5600
bhr241340	294	268	241	158	0.340	0.000	NO	.5100	.5168	.5440	.5610	.5780	.5848	.5950
bhr241353	294	268	241	161	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr241363	294	268	241	162	0.363	0.000	NO	.5450	.5523	.5813	.5995	.6177	.6249	.6358
bhr241373	294	268	241	164	0.373	0.000	NO	.5600	.5675	.5973	.6160	.6347	.6421	.6533
bhr243353	296	270	243	162	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr243377	296	270	243	166	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr243400	296	270	243	168	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr245373	298	272	245	167	0.373	0.000	NO	.5600	.5675	.5973	.6160	.6347	.6421	.6533
bhr245387	298	272	245	169	0.387	0.000	NO	.5805	.5882	.6192	.6386	.6579	.6656	.6773
bhr245400	298	272	245	170	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr247360	300	274	247	167	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
bhr247367	300	274	247	168	0.367	0.000	NO	.5500	.5573	.5867	.6050	.6233	.6307	.6417
bhr247377	300	274	247	169	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr247383	300	274	247	170	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr247400	300	274	247	172	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr249333	302	276	249	162	0.333	0.000	NO	.5000	.5067	.5333	.5500	.5667	.5733	.5833
bhr249353	302	276	249	167	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
bhr249377	302	276	249	171	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr249400	302	276	249	174	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr251343	304	278	251	166	0.343	0.000	NO	.5150	.5219	.5493	.5665	.5837	.5905	.6008
bhr251360	304	278	251	170	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
bhr251370	304	278	251	172	0.370	0.000	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bhr251400	304	278	251	175	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr253333	306	280	253	165	0.333	0.000	NO	.5000	.5067	.5333	.5500	.5667	.5733	.5833
bhr253377	306	280	253	174	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr253387	306	280	253	176	0.387	0.000	NO	.5800	.5877	.6187	.6380	.6573	.6651	.6767
bhr253400	306	280	253	177	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr255360	308	282	255	173	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
bhr255377	308	282	255	176	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr255387	308	282	255	177	0.387	0.000	NO	.5800	.5877	.6187	.6380	.6573	.6651	.6767
bhr255400	308	282	255	179	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000

bhr257370	310	284	257	176	0.370	0.000	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bhr257370	310	284	257	176	0.370	0.000	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bhr257400	312	286	257	181	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr259377	312	286	259	179	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr259387	312	286	259	181	0.387	0.000	NO	.5800	.5877	.6187	.6380	.6573	.6651	.6767
bhr259400	312	286	259	182	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr265377	318	292	265	184	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr267377	320	294	267	185	0.377	0.000	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bhr267400	322	296	267	189	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bhr269400	322	296	269	191	0.400	0.000	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000

AHR Aggressive Ramp Hydraulic Roller														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
AHR219353	269		219	143	0.353	0.000	NO	.5294	.5365	.5647	.5824	.6000	.6071	.6176
AHR227338	277		227	147	0.338	0.000	NO	.5074	.5141	.5412	.5581	.5750	.5818	.5919
AHR227353	277		227	149	0.353	0.000	NO	.5294	.5365	.5647	.5824	.6000	.6071	.6176
AHR231368	281		231	155	0.368	0.000	NO	.5520	.5594	.5888	.6072	.6256	.6330	.6440
AHR233353	283		233	154	0.353	0.000	NO	.5295	.5366	.5648	.5825	.6001	.6072	.6178
AHR235367	285		235	158	0.367	0.000	NO	.5505	.5578	.5872	.6056	.6239	.6312	.6423
AHR237353	287		237	157	0.353	0.000	NO	.5295	.5366	.5648	.5825	.6001	.6072	.6178
AHR241367	291		241	159	0.367	0.000	NO	.5505	.5578	.5872	.6056	.6239	.6312	.6423
AHR243353	293		243	160	0.353	0.000	NO	.5295	.5366	.5648	.5825	.6001	.6072	.6178

LSHRB									
LS1 Standard Ramp Hydraulic Roller									
FILE NAME	0.006	0.050	0.200	lift			1.7000	1.8000	
HR2103500B	259.8	210.0	135.4	0.350	0.000	NO	.5950	.6300	
HR2143520B	264.2	214.0	138.6	0.352	0.000	NO	.5984	.6336	
HR2163240B	269.0	216.0	132.7	0.324	0.000	NO	.5508	.5832	
HR2163250B	272.4	216.0	133.7	0.325	0.000	NO	.5525	.5850	
HR2183550B	269.7	218.0	142.6	0.355	0.000	NO	.6035	.6390	
HR2183550B	271.0	218.0	142.0	0.355	0.000	NO	.6035	.6390	
HR2183550B	269.7	218.0	142.6	0.355	0.000	NO	.6035	.6390	
HR2193088B	267.2	219.0	134.0	0.309	0.000	NO	.5250	.5558	
HR2223300B	272.0	222.0	142.0	0.330	0.000	NO	.5610	.5940	
HR2223300B	272.0	222.0	142.0	0.330	0.000	NO	.5610	.5940	
HR2243240B	278.1	224.0	138.7	0.324	0.000	NO	.5508	.5832	
HR2243250B	278.0	224.0	139.3	0.325	0.000	NO	.5525	.5850	
HR2243420B	276.0	224.0	144.2	0.342	0.000	NO	.5814	.6156	
HR2243550B	275.4	224.0	147.2	0.355	0.000	NO	.6035	.6390	
HR2243580B	274.4	224.0	148.2	0.358	0.000	NO	.6086	.6444	
HR2243600B	274.2	224.0	148.4	0.360	0.000	NO	.6120	.6480	
HR2253400B	280.6	225.0	142.0	0.340	0.000	NO	.5780	.6120	
HR2263088B	273.6	226.0	141.6	0.309	0.000	NO	.5250	.5558	
HR2263400B	281.1	226.0	145.1	0.340	0.000	NO	.5780	.6120	
HR2263460B	277.0	226.0	147.3	0.346	0.000	NO	.5882	.6228	
HR2283088B	276.4	228.0	142.0	0.309	0.000	NO	.5250	.5558	
HR2283300B	277.8	228.0	143.1	0.330	0.000	NO	.5610	.5940	
HR2283460B	279.0	228.0	148.6	0.346	0.000	NO	.5882	.6228	
HR2303300B	280.1	230.0	144.3	0.330	0.000	NO	.5610	.5940	
HR2303550B	280.4	230.0	152.2	0.355	0.000	NO	.6035	.6390	
HR2313790B	282.4	231.0	156.3	0.379	0.000	NO	.6443	.6822	
HR2323450B	283.5	232.0	152.8	0.345	0.000	NO	.5865	.6210	
HR2323520B	283.4	232.0	152.8	0.352	0.000	NO	.5984	.6336	
HR2323676B	280.0	232.0	155.2	0.368	0.000	NO	.6249	.6617	
HR2343520B	284.4	234.0	154.9	0.352	0.000	NO	.5984	.6336	
HR2343550B	284.8	234.0	155.6	0.355	0.000	NO	.6035	.6390	
HR2343750B	285.7	234.0	157.4	0.375	0.000	NO	.6375	.6750	
HR2363088B	285.2	236.0	147.2	0.309	0.000	NO	.5250	.5558	
HR2363300B	287.4	236.0	148.1	0.330	0.000	NO	.5610	.5940	
HR2363550B	287.2	236.0	157.0	0.355	0.000	NO	.6035	.6390	
HR2363600B	287.2	236.0	157.9	0.360	0.000	NO	.6120	.6480	
HR2383550B	289.6	238.0	158.4	0.355	0.000	NO	.6035	.6390	
HR2383676B	286.4	238.0	159.2	0.368	0.000	NO	.6249	.6617	
HR2383735B	286.4	238.0	159.2	0.374	0.000	NO	.6350	.6723	
HR2393830B	289.9	239.0	163.6	0.383	0.000	NO	.6511	.6894	
HR2403580B	291.4	240.0	160.5	0.358	0.000	NO	.6086	.6444	
HR2423600B	294.8	242.0	161.8	0.360	0.000	NO	.6120	.6480	
HR2443460B	295.0	244.0	156.5	0.346	0.000	NO	.5882	.6228	

HR2463550B	291.6		244.0	164.8	0.368	0.000	NO	.6249	.6617				
LSHRA													
LS1 AGRESSIVE Ramp Hydraulic Roller													
FILE NAME	0.006		0.050	0.200	lift			1.7000	1.8000				
HR2123530A	258.8		212.0	138.4	0.353	0.000	NO	.6001	.6354				
HR2143530A	261.2		214.0	139.6	0.353	0.000	NO	.6001	.6354				
HR2183600A	265.2		218.0	143.6	0.360	0.000	NO	.6120	.6480				
HR2203600A	267.6		220.0	145.2	0.360	0.000	NO	.6120	.6480				
HR2263676A	275.0		226.0	151.0	0.368	0.000	NO	.6249	.6617				
HR2273570A	275.2		227.0	149.2	0.357	0.000	NO	.6069	.6426				
HR2283550A	275.2		228.0	150.9	0.355	0.000	NO	.6035	.6390				
HR2283676A	275.2		228.0	152.4	0.368	0.000	NO	.6249	.6617				
HR2303676A	277.6		230.0	153.6	0.368	0.000	NO	.6249	.6617				
HR2343580A	281.6		234.0	156.3	0.358	0.000	NO	.6086	.6444				
HR2343676A	281.6		234.0	156.4	0.368	0.000	NO	.6249	.6617				
HR2363676A	284.0		236.0	157.6	0.368	0.000	NO	.6249	.6617				
HR2403676A	288.0		240.0	160.0	0.368	0.000	NO	.6249	.6617				
HR2403830A	287.2		240.0	163.2	0.383	0.000	NO	.6511	.6894				
HR2423676A	290.4		242.0	161.6	0.368	0.000	NO	.6249	.6617				
HR2423750A	290.4		242.0	163.2	0.375	0.000	NO	.6375	.6750				
HR2433635A	290.8		243.0	162.8	0.364	0.000	NO	.6180	.6543				
HR2443676A	291.6		244.0	164.8	0.368	0.000	NO	.6249	.6617				
HR2443830A	292.0		244.0	166.0	0.383	0.000	NO	.6511	.6894				
HR2463676A	294.0		246.0	166.0	0.368	0.000	NO	.6249	.6617				
HR2463676A	294.0		246.0	166.0	0.368	0.000	NO	.6249	.6617				
HR2483676A	294.8		248.0	167.6	0.368	0.000	NO	.6249	.6617				
HR2483750A	296.0		248.0	169.2	0.375	0.000	NO	.6375	.6750				
HR2483765A	294.8		248.0	170.0	0.377	0.000	NO	.6401	.6777				
HR2503676A	297.2		250.0	169.2	0.368	0.000	NO	.6249	.6617				
HR2503750A	297.6		250.0	171.2	0.375	0.000	NO	.6375	.6750				
HR2503765A	297.2		250.0	171.6	0.377	0.000	NO	.6401	.6777				
HR2503950A	298.4		250.0	173.9	0.395	0.000	NO	.6715	.7110				
HR2504000A	298.0		250.0	174.8	0.400	0.000	NO	.6800	.7200				
HR2523676A	299.6		252.0	170.4	0.368	0.000	NO	.6249	.6617				
HR2543676A	301.6		254.0	171.6	0.368	0.000	NO	.6249	.6617				
HR2543825A	301.6		254.0	175.6	0.383	0.000	NO	.6503	.6885				
HR2563676A	304.0		256.0	172.8	0.368	0.000	NO	.6249	.6617				
HR2563750A	303.2		256.0	174.8	0.375	0.000	NO	.6375	.6750				
HR2583676A	304.8		258.0	174.8	0.368	0.000	NO	.6249	.6617				
HR2603676A	307.2		260.0	176.0	0.368	0.000	NO	.6249	.6617				
HR2603825A	308.8		260.0	179.6	0.383	0.000	NO	.6503	.6885				
HR2604060A	308.0		260.0	184.0	0.406	0.000	NO	.6902	.7308				
HR2623676A	309.2		262.0	177.6	0.368	0.000	NO	.6249	.6617				
HR2643676A	311.6		264.0	179.2	0.368	0.000	NO	.6249	.6617				
HR2653950A	316.3		265.0	184.3	0.395	0.000	NO	.6715	.7110				
HR2663676A	313.2		266.0	180.4	0.368	0.000	NO	.6249	.6617				

HR2683676A	315.2		268.0	182.0	0.368	0.000	NO	.6249	.6617					
HR2703676A	317.2		270.0	183.2	0.368	0.000	NO	.6249	.6617					
HR2723676A	319.2		272.0	184.2	0.368	0.000	NO	.6249	.6617					
HR2743676A	321.6		274.0	186.0	0.368	0.000	NO	.6249	.6617					
HR2763676A	324.4		276.0	187.6	0.368	0.000	NO	.6249	.6617					
LS1 Standard Ramp Mechanical Roller ASK BEFORE USING!!!														
File Name	0.006	0.020	0.050	0.200	lift	lash		1.7000	1.8000					
R2483940A		277	248.0	168.7	0.394	0.022	NO	.6698	.7092					
R2524000B		280	252.0	174.6	0.400	0.018	NO	.6800	.7200					
R2563765A		286	256.0	172.8	0.377	0.022	NO	.6401	.6777					
R2563885B		285	256.0	175.2	0.389	0.022	NO	.6605	.6993					
R2564000B		285	256.0	177.5	0.400	0.016	NO	.6800	.7200					
R2584000B		287	258.0	178.8	0.400	0.016	NO	.6800	.7200					
R2643885B		294	264.0	180.7	0.389	0.016	NO	.6605	.6993					
R2644000B		294	264.0	182.9	0.400	0.018	NO	.6800	.7200					
R2684000B		298	268.0	185.8	0.400	0.020	NO	.6800	.7200					
R2824535B		314	282.0	200.0	0.453	0.022	NO	.7708	.8161					
R2894135B		321	289.0	203.0	0.414	0.022	NO	.7030	.7443					

BFS	Stock Replacement Mechanical														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
bfs227263		287	228		0.263	0.012	YES	.3950	.4003	.4213	.4345	.4477	.4529	.4608	
bfs229267		287	230		0.267	0.018	YES	.4000	.4053	.4267	.4400	.4533	.4587	.4667	
bfs236290		273	236		0.290	0.020	YES								
bfs241307		279	241		0.307	0.020	YES	.4600	.4661	.4907	.5060	.5213	.5275	.5367	
bfs242317I		336	242		0.317	0.022	YES	.4757	.4820	.5074	.5232	.5391	.5454	.5549	
bfs242317E		316	242		0.317	0.025	YES	.4757	.4820	.5074	.5232	.5391	.5454	.5549	
bfs251330		318	251		0.330	0.020	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
bfs252330		320	252		0.330	0.020	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
bfs253323		291	253		0.323	0.025	YES	.4850	.4915	.5173	.5335	.5497	.5561	.5658	
bfs257330		295	257		0.330	0.022	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775	
bfs261343		299	261		0.343	0.022	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008	
bfs261350		299	261		0.350	0.022	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bfs2643406		342	264		0.341	0.024	YES	.5109	.5177	.5450	.5620	.5790	.5858	.5961	
bfs269343		307	269		0.343	0.022	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008	
bfs2703529		333	270		0.353	0.026	YES	.5294	.5364	.5646	.5823	.5999	.6070	.6176	
bfs273357		311	273		0.357	0.022	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242	

BF	Standard Ramp Mechanical														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
bf214300	260	249	214		0.300	0.022	YES	.4500	.4560	.4800	.4950	.5100	.5160	.5250	
bf220290	266	255	220		0.290	0.022	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075	
bf220315	266	255	220		0.315	0.022	YES	.4725	.4788	.5040	.5198	.5355	.5418	.5513	
bf224283	270	259	224		0.283	0.022	YES	.4245	.4302	.4528	.4670	.4811	.4868	.4953	
bf226320	272	261	226		0.320	0.022	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
bf228263	274	263	228	117	0.263	0.022	YES	.3950	.4003	.4213	.4345	.4477	.4529	.4608	
bf230290	276	265	230	131	0.290	0.022	YES	.4350	.4408	.4640	.4785	.4930	.4988	.5075	
bf230320	276	265	230		0.320	0.022	YES	.4800	.4864	.5120	.5280	.5440	.5504	.5600	
bf240337	286	275	240	148	0.337	0.022	YES	.5050	.5117	.5387	.5555	.5723	.5791	.5892	
bf240350	286	275	240	148	0.350	0.022	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bf242340	288	277	242	149	0.340	0.022	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950	
BF244357	290	279	244		0.357	0.022	YES	.5355	.5426	.5712	.5891	.6069	.6140	.6248	
BF246357	292	281	246		0.357	0.022	YES	.5355	.5426	.5712	.5891	.6069	.6140	.6248	
bf244340	290	279	244	152	0.340	0.022	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950	
bf246343	292	281	246	154	0.343	0.022	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008	
bf246347	292	281	246	154	0.347	0.022	YES	.5200	.5269	.5547	.5720	.5893	.5963	.6067	
bf248340	294	283	248	156	0.340	0.022	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950	
bf248357	294	283	248	156	0.357	0.022	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242	
bf250350	296	285	250	158	0.350	0.022	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125	
bf252353	298	287	252	160	0.353	0.022	YES	.5300	.5371	.5653	.5830	.6007	.6077	.6183	
bf252363	298	287	252	159	0.363	0.022	YES	.5450	.5523	.5813	.5995	.6177	.6249	.6358	
bf254353	300	289	254		0.353	0.022	YES	.5300	.5371	.5653	.5830	.6007	.6077	.6183	
bf254367	300	289	254	162	0.367	0.022	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417	
bf256337	302	291	256	163	0.337	0.022	YES	.5050	.5117	.5387	.5555	.5723	.5791	.5892	
bf256357	302	291	256	164	0.357	0.022	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242	

bf258340	304	293	258		0.340	0.022	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
bf260357	306	295	260	168	0.357	0.022	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
bf260370	306	295	260	168	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf260377	306	295	260	168	0.377	0.022	YES	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bf262340	308	297	262	168	0.340	0.022	YES	.5100	.5168	.5440	.5610	.5780	.5848	.5950
bf264330	310	299	264	167	0.330	0.022	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
bf264370	310	299	264	171	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf264377	310	299	264		0.377	0.022	YES	.5650	.5725	.6027	.6215	.6403	.6479	.6592
bf266337	312	301	266	171	0.337	0.022	YES	.5050	.5117	.5387	.5555	.5723	.5791	.5892
bf266350	312	301	266	174	0.350	0.022	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
bf266370	312	301	266	174	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf268367	314	303	268	176	0.367	0.022	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
bf268382	314	303	268	176	0.382	0.022	YES	.5736	.5812	.6118	.6310	.6501	.6577	.6692
bf270341	316	305	270	175	0.341	0.022	YES	.5118	.5186	.5459	.5630	.5800	.5869	.5971
bf270377	316	305	270		0.377	0.022	YES	.5655	.5730	.6032	.6221	.6409	.6484	.6598
bf270370	316	305	270	175	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf272350	318	307	272	177	0.350	0.022	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
bf274357	320	309	274	182	0.357	0.022	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
bf274400	320	309	274	182	0.400	0.022	YES	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bf274370	320	309	274	182	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf276394	322	311	276	184	0.394	0.022	YES	.5912	.5990	.6306	.6503	.6700	.6779	.6897
bf278367	324	313	278	186	0.367	0.022	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
bf278382	324	313	278	186	0.382	0.022	YES	.5736	.5812	.6118	.6310	.6501	.6577	.6692
bf280370	326	315	280	186	0.370	0.022	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
bf282400	328	317	282	190	0.400	0.022	YES	.6000	.6080	.6400	.6600	.6800	.6880	.7000
bf286380	332	321	286	194	0.380	0.022	YES	.5700	.5776	.6080	.6270	.6460	.6536	.6650

AF	Tight Lash Mechanical					Lash	1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
File Name	@seat	@0.020"	@.050"	@.200"	max lift									
AF238323	281	266	238		0.323	0.016	YES	.4845	.4910	.5168	.5330	.5491	.5556	.5653
AF238330	281	266	238		0.330	0.016	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
AF238343	281	266	238		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF240330	283	268	240		0.330	0.016	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
AF240343	283	268	240		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF2403541	283	268	240		0.354	0.016	NO	.5312	.5382	.5666	.5843	.6020	.6091	.6197
AF242333	285	270	242		0.333	0.016	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
AF242343	285	270	242		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF242357	285	270	242		0.357	0.016	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
AF244330	287	272	244		0.330	0.016	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
AF244333	287	272	244		0.333	0.016	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
AF244343	287	272	244		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF244357	287	272	244		0.357	0.016	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
AF246313	289	274	246		0.313	0.016	YES	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF246333	289	274	246		0.333	0.016	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
AF246343	289	274	246		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF246357	289	274	246		0.357	0.016	YES	.5355	.5426	.5712	.5891	.6069	.6140	.6248
AF2473541	281	275	247		0.354	0.016	NO	.5312	.5382	.5666	.5843	.6020	.6091	.6197
AF248313	291	276	248		0.313	0.016	YES	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF248343	291	276	248		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF248357	291	276	248		0.357	0.016	YES	.5350	.5421	.5707	.5885	.6063	.6135	.6242
AF2493541	283	277	249		0.354	0.016	NO	.5312	.5382	.5666	.5843	.6020	.6091	.6197
AF250330	293	278	250		0.330	0.016	YES	.4950	.5016	.5280	.5445	.5610	.5676	.5775
AF250333	293	278	250		0.333	0.016	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
AF250343	293	278	250		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF250360	293	278	250		0.360	0.016	YES	.5400	.5472	.5760	.5940	.6120	.6192	.6300
AF252343	295	280	252		0.343	0.016	YES	.5150	.5219	.5493	.5665	.5837	.5905	.6008
AF252360	295	280	252		0.360	0.016	YES	.5400	.5472	.5760	.5940	.6120	.6192	.6300
AF252363	295	280	252		0.363	0.016	YES	.5445	.5518	.5808	.5990	.6171	.6244	.6353
AF254343	297	282	254		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF254367	297	282	254		0.367	0.016	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
AF256333	299	284	256	166	0.333	0.016	YES	.5000	.5067	.5333	.5500	.5667	.5733	.5833
AF256343	299	284	256		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF256367	299	284	256		0.367	0.016	YES	.5505	.5578	.5872	.6056	.6239	.6312	.6423
AF258343	301	286	258		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF258367	301	286	258		0.367	0.016	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
AF258370	301	286	258		0.370	0.016	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
AF260373	303	288	260		0.373	0.016	YES	.5600	.5675	.5973	.6160	.6347	.6421	.6533
AF260383	303	288	260		0.383	0.016	YES	.5750	.5827	.6133	.6325	.6517	.6593	.6708
AF264370	307	292	264		0.370	0.016	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
AF264390	307	292	264		0.390	0.016	YES	.5850	.5928	.6240	.6435	.6630	.6708	.6825
AF266343	309	294	266		0.343	0.016	YES	.5145	.5214	.5488	.5660	.5831	.5900	.6003
AF266383	309	294	266		0.383	0.016	YES	.5750	.5827	.6133	.6325	.6517	.6593	.6708

AF268367	311	296	268		0.367	0.016	YES	.5500	.5573	.5867	.6050	.6233	.6307	.6417
AF270383	313	298	270		0.383	0.016	YES	.5750	.5827	.6133	.6325	.6517	.6593	.6708
AF272390	315	300	272		0.390	0.016	YES	.5850	.5928	.6240	.6435	.6630	.6708	.6825
AFLR	Lift Rule mechanical Flat Tappet													
FILE NAME	@LASH"	@0.020"	@.050"	@.200"	max lift			1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
AF2443125LR		272	244		0.313	0.016	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF2503125LR		278	250		0.313	0.016	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF2523125LR		280	252		0.313	0.016	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF2563125LR		284	256		0.313	0.016	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF2643125LR		292	264		0.313	0.016	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478
AF240273LR	273	269	240	72	0.273	0.016	NO	.4095	.4150	.4368	.4505	.4641	.4696	.4778
AF244280LR	288	273	244	76	0.280	0.016	NO	.4200	.4256	.4480	.4620	.4760	.4816	.4900
AF256327LR	300	285	256		0.327	0.016	NO	.4905	.4970	.5232	.5396	.5559	.5624	.5723
AF260327LR	304	289	260	176	0.327	0.016	NO	.4905	.4970	.5232	.5396	.5559	.5624	.5723
AF262327LR	306	291	262		0.327	0.016	NO	.4905	.4970	.5232	.5396	.5559	.5624	.5723
AFFLR	Lift Rule mechanical Flat Tappet .875													
FILE NAME	@LASH"	@0.020"	@.050"	@.200"	max lift			1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
AFF254294LR		282	254	166	0.294	0.016	NO	.4410	.4469	.4704	.4851	.4998	.5057	.5145
AFF258294LR		286	258	170	0.294	0.016	NO	.4410	.4469	.4704	.4851	.4998	.5057	.5145
AFF260294LR		288	260	172	0.294	0.016	NO	.4410	.4469	.4704	.4851	.4998	.5057	.5145
AFF262294LR		290	262	174	0.294	0.016	NO	.4410	.4469	.4704	.4851	.4998	.5057	.5145

BR	Standard Ramp Mechanical Roller														
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
BR229370	270	261	229	146	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR237357	278	269	237		0.357	0.022	NO	.5350	.5421	.5707	.5885	.6063	.6135	.6242	
BR237370	278	269	237	153	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR241380	282	273	241	158	0.380	0.022	NO	.5700	.5776	.6080	.6270	.6460	.6536	.6650	
BR243357	284	275	243		0.357	0.022	NO	.5350	.5421	.5707	.5885	.6063	.6135	.6242	
BR243370	284	275	243	159	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR245370	286	277	245	161	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR245390	286	277	245	162	0.390	0.022	NO	.5850	.5928	.6240	.6435	.6630	.6708	.6825	
BR245400	286	277	245	163	0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR247380	288	279	247	163	0.380	0.022	NO	.5700	.5776	.6080	.6270	.6460	.6536	.6650	
BR247390	288	279	247	164	0.390	0.022	NO	.5850	.5928	.6240	.6435	.6630	.6708	.6825	
BR247430	288	279	247	164	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525	
BR249370	290	281	249		0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR249375	290	281	249	165	0.375	0.022	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563	
BR249380	290	281	249	165	0.380	0.022	NO	.5700	.5776	.6080	.6270	.6460	.6536	.6650	
BR249390	290	281	249	166	0.390	0.022	NO	.5850	.5928	.6240	.6435	.6630	.6708	.6825	
BR251427	292	283	251	171	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	
BR253390	294	285	253	170	0.390	0.022	NO	.5850	.5928	.6240	.6435	.6630	.6708	.6825	
BR253400	294	285	253	170	0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR253427	294	285	253	172	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	
BR255375	296	287	255	170	0.375	0.022	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563	
BR255383	296	287	255	171	0.383	0.022	NO	.5750	.5827	.6133	.6325	.6517	.6593	.6708	
BR255400	296	287	255	172	0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR255430	296	287	255	174	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525	
BR257370	298	289	257		0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR257400	298	289	257	174	0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR257410	298	289	257	174	0.410	0.022	NO	.6150	.6232	.6560	.6765	.6970	.7052	.7175	
BR257413	298	289	257		0.413	0.022	NO	.6195	.6278	.6608	.6815	.7021	.7104	.7228	
BR257427	298	289	257	176	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	
BR259370	300	291	259	173	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR259390	300	291	259	175	0.390	0.022	NO	.5850	.5928	.6240	.6435	.6630	.6708	.6825	
BR259400	300	291	259		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR259427	300	291	259	177	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	
BR259450	300	291	259	179	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875	
BR261370	302	293	261		0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR261400	302	293	261		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR261413	302	293	261	179	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233	
BR261433	302	293	261	179	0.433	0.022	NO	.6495	.6582	.6928	.7145	.7361	.7448	.7578	
BR263370	304	295	263	176	0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475	
BR263383	304	295	263	178	0.383	0.022	NO	.5750	.5827	.6133	.6325	.6517	.6593	.6708	
BR263400	304	295	263		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000	
BR263410	304	295	263	180	0.410	0.022	NO	.6150	.6232	.6560	.6765	.6970	.7052	.7175	
BR263420	304	295	263	181	0.420	0.022	NO	.6300	.6384	.6720	.6930	.7140	.7224	.7350	
BR263427	304	295	263	181	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	

BR263430	304	295	263		0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR263450	304	295	263	182	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR265370	306	297	265		0.370	0.022	NO	.5550	.5624	.5920	.6105	.6290	.6364	.6475
BR265450	306	297	265	182	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR265413	306	297	265	182	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233
BR265430	306	297	265	183	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR267400	308	299	267	183	0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
BR267420	308	299	267	185	0.420	0.022	NO	.6300	.6384	.6720	.6930	.7140	.7224	.7350
BR267430	308	299	267	185	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR267450	308	299	267	185	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR269400	310	301	269		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
BR269413	310	301	269	186	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233
BR269430	310	301	269	187	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR269433	310	301	269	187	0.433	0.022	NO	.6500	.6587	.6933	.7150	.7367	.7453	.7583
BR269450	310	301	269	188	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR271417	312	303	271	188	0.417	0.022	NO	.6250	.6333	.6667	.6875	.7083	.7167	.7292
BR271430	312	303	271		0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR272393	313	304	272		0.393	0.020	NO	.5900	.5979	.6293	.6490	.6687	.6765	.6883
BR273400	314	305	273		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
BR273430	314	305	273	191	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR273453	314	305	273	192	0.453	0.022	NO	.6800	.6891	.7253	.7480	.7707	.7797	.7933
BR273470	314	305	273	192	0.470	0.022	NO	.7050	.7144	.7520	.7755	.7990	.8084	.8225
BR275413	316	307	275	191	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233
BR275420	316	307	275	192	0.420	0.022	NO	.6300	.6384	.6720	.6930	.7140	.7224	.7350
BR275430	316	307	275	193	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR275450	316	307	275		0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR276393	317	308	276		0.393	0.020	NO	.5900	.5979	.6293	.6490	.6687	.6765	.6883
BR277400	318	309	277		0.400	0.022	NO	.6000	.6080	.6400	.6600	.6800	.6880	.7000
BR277413	318	309	277	193	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233
BR277433	318	309	277	195	0.433	0.022	NO	.6500	.6587	.6933	.7150	.7367	.7453	.7583
BR277450	318	309	277	195	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR277477	318	309	277	196	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR279427	320	311	279	196	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467
BR279453	320	311	279	198	0.453	0.022	NO	.6800	.6891	.7253	.7480	.7707	.7797	.7933
BR281450	322	313	281	199	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR281470	322	313	281	200	0.470	0.022	NO	.7050	.7144	.7520	.7755	.7990	.8084	.8225
BR281487	322	313	281	200	0.487	0.022	NO	.7300	.7397	.7787	.8030	.8273	.8371	.8517
BR281513	322	313	281	201	0.513	0.022	NO	.7700	.7803	.8213	.8470	.8727	.8829	.8983
BR283420	324	315	283	199	0.420	0.022	NO	.6300	.6384	.6720	.6930	.7140	.7224	.7350
BR283430	324	315	283	200	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR283450	324	315	283	201	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR285420	326	317	285	201	0.420	0.022	NO	.6300	.6384	.6720	.6930	.7140	.7224	.7350
BR285430	326	317	285	202	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR285450	326	317	285		0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR285477	326	317	285	204	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR285487	326	317	285	205	0.487	0.022	NO	.7300	.7397	.7787	.8030	.8273	.8371	.8517

BR285500	326	317	285	205	0.500	0.022	NO	.7500	.7600	.8000	.8250	.8500	.8600	.8750
BR285513	326	317	285	205	0.513	0.022	NO	.7700	.7803	.8213	.8470	.8727	.8829	.8983
BR287413	328	319	287	202	0.413	0.022	NO	.6200	.6283	.6613	.6820	.7027	.7109	.7233
BR287433	328	319	287	203	0.433	0.022	NO	.6500	.6587	.6933	.7150	.7367	.7453	.7583
BR287450	328	319	287	205	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR287477	328	319	287		0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR289450	330	321	289		0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR291430	332	323	291	207	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR291450	332	323	291	209	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR291477	332	323	291	210	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR291513	332	323	291	211	0.513	0.022	NO	.7700	.7803	.8213	.8470	.8727	.8829	.8983
BR295427	336	327	295	210	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467
BR295450	336	327	295	212	0.450	0.022	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875
BR295477	336	327	295	213	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR295500	336	327	295	213	0.500	0.022	NO	.7500	.7600	.8000	.8250	.8500	.8600	.8750
BR295513	336	327	295	213	0.513	0.022	NO	.7695	.7798	.8208	.8465	.8721	.8824	.8978
BR297477	338	329	297	214	0.477	0.022	NO	.7155	.7250	.7632	.7871	.8109	.8204	.8348
BR299430	340	331	299	214	0.430	0.022	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
BR299477	340	331	299	217	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR303477	344	335	303	221	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR311477	352	343	311	228	0.477	0.022	NO	.7150	.7245	.7627	.7865	.8103	.8199	.8342
BR311513	352	343	311	228	0.513	0.022	NO	.7695	.7798	.8208	.8465	.8721	.8824	.8978
BR317477	358	349	317	234	0.477	0.022	NO	.7155	.7250	.7632	.7871	.8109	.8204	.8348
BR319510	360	351	319	238	0.510	0.022	NO	.7650	.7752	.8160	.8415	.8670	.8772	.8925

AR	Fast Ramp Mechanical Roller														
File Name	@seat	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
AR241440		270	241		0.440	0.016	NO	.6600	.6688	.7040	.7260	.7480	.7568	.7700	
AR245417	289	274	245	168	0.417	0.016	NO	.6250	.6333	.6667	.6875	.7083	.7167	.7292	
AR249430		278	249		0.430	0.016	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525	
AR255430	299	284	255	179	0.430	0.016	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525	
AR255457	299	284	255		0.457	0.016	NO	.6850	.6941	.7307	.7535	.7763	.7855	.7992	
AR259427	303	288	259	182	0.427	0.016	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467	
AR259457	303	288	259		0.457	0.016	NO	.6850	.6941	.7307	.7535	.7763	.7855	.7992	
AR261450	305	290	261		0.450	0.016	NO	.6750	.6840	.7200	.7425	.7650	.7740	.7875	
AR263440	307	292	263		0.440	0.016	NO	.6600	.6688	.7040	.7260	.7480	.7568	.7700	
AR269430		298	269		0.430	0.016	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525	
AR271440		300	271		0.440	0.016	NO	.6600	.6688	.7040	.7260	.7480	.7568	.7700	
AR275440		304	275		0.440	0.016	NO	.6600	.6688	.7040	.7260	.7480	.7568	.7700	
AR281440		310	281		0.440	0.016	NO	.6600	.6688	.7040	.7260	.7480	.7568	.7700	
AR281460		310	281		0.460	0.016	NO	.6900	.6992	.7360	.7590	.7820	.7912	.8050	
AR291447		320	291		0.447	0.016	NO	.6705	.6794	.7152	.7376	.7599	.7688	.7823	

TRA						DIESEL TRACTOR Mechanical Roller						ASK BEFORE USING!!!				
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500		
TR2323750A	0	260	232	155	0.375	0.018	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563		
TR2463750A	0	275	246	164	0.375	0.018	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563		

DR						"D" Ramp Mechanical Roller						ASK BEFORE USING!!!				
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500		
DR284487	329	313	284	207	0.487	0.018	NO	.7305	.7402	.7792	.8036	.8279	.8376	.8523		

ER						"E" Ramp Mechanical Roller						ASK BEFORE USING!!!				
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500		
ER292467	338	327	292	208	0.467	0.018	NO	.7005	.7098	.7472	.7706	.7939	.8032	.8173		
ER296460	342	331	296	212	0.460	0.018	NO	.6900	.6992	.7360	.7590	.7820	.7912	.8050		
ER298487	344	333	298	214	0.487	0.018	NO	.7305	.7402	.7792	.8036	.8279	.8376	.8523		
ER300500	346	335	300	216	0.500	0.018	NO	.7500	.7600	.8000	.8250	.8500	.8600	.8750		
ER316487	362	351	316	231	0.487	0.018	NO	.7300	.7397	.7787	.8030	.8273	.8371	.8517		

FR						"F" Ramp Mechanical Roller						ASK BEFORE USING!!!				
File Name	@0.006"	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500		
FR296500		333	296	211	0.500	0.024	NO	.7500	.7600	.8000	.8250	.8500	.8600	.8750		

AR						Fast Ramp Mechanical Roller										
File Name	@seat	@0.020"	@.050"	@.200"	max lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500		
FC242377		272	243		0.377	0.016	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592		
FC250377		280	251		0.377	0.016	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592		
FC254377		284	255		0.377	0.016	NO	.5650	.5725	.6027	.6215	.6403	.6479	.6592		

FMOD2V						FORD MOD 2 VALVE										
FILE NAME	@0.006"	@0.020"	@.050"	@.200"	max lift			1.8250								
HR2185475B	258		218	170	0.300		NO	.5475								
HR2205475B	260		220	171	0.300		NO	.5475								
HR2225475B	262		222	173	0.300		NO	.5475								
HR2245475B	265		224	174	0.300		NO	.5475								
HR2265475B	266		226	177	0.300		NO	.5475								
HR2285475B	268		228	178	0.300		NO	.5475								
HR2305475B	270		230	180	0.300		NO	.5475								
HR2305930B	271		230	182	0.325		NO	.5931								
HR2325475B	273		232	182	0.300		NO	.5475								
HR2325930B	273		232	183	0.325		NO	.5931								
HR2345475B	275		234	183	0.300		NO	.5475								
HR2345930B	275		234	185	0.325		NO	.5931								
HR2365475B	277		236	185	0.300		NO	.5475								
HR2365930B	278		236	187	0.325		NO	.5931								
HR2385475B	278		238	188	0.300		NO	.5475								
HR2385930B	278		238	189	0.325		NO	.5931								

HR2405475B	280		240	190	0.300		NO	.5475						
HR2405930B	281		240	191	0.325		NO	.5931						
HR2425475B	283		242	242	0.300		NO	.5475						
HR2425930B	283		242	192	0.325		NO	.5931						
HR2445475B	285		244	193	0.300		NO	.5475						
HR2445930B	285		244	194	0.325		NO	.5931						
HR2465475B	287		246	194	0.300		NO	.5475						
HR2465930B	288		246	196	0.325		NO	.5931						
								.0000						
FMOD4V	FORD MOD 4 VALVE													
FILE NAME	@0.006"	@0.020"	@.050"	@.200"	max lift			1.8250						
HR2104500B	247		210	156.7	0.247	0.000	NO	.4508						
HR2164500B	254		216	161.2	0.247	0.000	NO	.4508						
HR2224500B	259		222	165.8	0.247	0.000	NO	.4508						
HR2284750B	265		228	173.3	0.261	0.000	NO	.4754						
HR2344750B	272		234	177.3	0.261	0.000	NO	.4754						
HR2364750B	274		236	178.9	0.261	0.000	NO	.4754						
HR2424750B	281		242	183.4	0.261	0.000	NO	.4754						
						0.000	NO	.0000						

FM	Mopar Mech Flat Lobes .903												
FILE NAME	@.020"	@.050"	@.200"	Max Lift	Lash		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
F2122900D	249	212	118	0.290	0.018	NO	.4350	.4408	.4640	.4785	.4930	.4988	.5075
F2142950D	251	214	122	0.295	0.018	NO	.4425	.4484	.4720	.4868	.5015	.5074	.5163
FM2303586A	258	230	150	0.359	0.018	YES	.5379	.5451	.5738	.5917	.6096	.6168	.6276
FM2323615A	260	232	152	0.362	0.018	YES	.5423	.5495	.5784	.5965	.6146	.6218	.6326
FM2343640A	262	234	153	0.364	0.018	YES	.5460	.5533	.5824	.6006	.6188	.6261	.6370
FM2363690A	264	236	155	0.369	0.018	YES	.5535	.5609	.5904	.6089	.6273	.6347	.6458
FM2383719A	266	238	157	0.372	0.018	YES	.5579	.5653	.5950	.6136	.6322	.6397	.6508
FM2403734A	268	240	159	0.373	0.018	YES	.5601	.5676	.5974	.6161	.6348	.6422	.6535
FM2423763A	270	242	161	0.376	0.018	YES	.5645	.5720	.6021	.6209	.6397	.6472	.6585
FM2443812A	272	244	163	0.381	0.018	YES	.5718	.5794	.6099	.6290	.6480	.6557	.6671
FM2463842A	274	246	165	0.384	0.018	YES	.5763	.5840	.6147	.6339	.6531	.6608	.6724
FM2483890A	276	248	168	0.389	0.018	YES	.5835	.5913	.6224	.6419	.6613	.6691	.6808
FM2503917A	278	250	169	0.392	0.018	YES	.5876	.5954	.6267	.6463	.6659	.6737	.6855
FM2523968A	280	252	172	0.397	0.018	YES	.5952	.6031	.6349	.6547	.6746	.6825	.6944
FM2543996A	282	254	173	0.400	0.018	YES	.5994	.6074	.6394	.6593	.6793	.6873	.6993
FM2564026A	284	256	176	0.403	0.018	YES	.6039	.6120	.6442	.6643	.6844	.6925	.7046
FM2584054A	286	258	177	0.405	0.018	YES	.6081	.6162	.6486	.6689	.6892	.6973	.7095
FM2604104A	288	260	180	0.410	0.018	YES	.6156	.6238	.6566	.6772	.6977	.7059	.7182
FM2624133A	290	262	181	0.413	0.018	YES	.6200	.6282	.6613	.6819	.7026	.7109	.7233
FM2644135A	292	264	184	0.414	0.018	YES	.6203	.6285	.6616	.6823	.7030	.7112	.7236
FM2664164A	294	266	185	0.416	0.018	YES	.6246	.6329	.6662	.6871	.7079	.7162	.7287
FM2674104A	294	267	185	0.410	0.018	YES	.6150	.6232	.6560	.6765	.6970	.7052	.7175
FM2684213A	296	268	188	0.421	0.018	YES	.6320	.6404	.6741	.6951	.7162	.7246	.7373
FM2704242A	298	270	190	0.424	0.018	YES	.6363	.6448	.6787	.6999	.7211	.7296	.7424
FM2724258A	300	272	192	0.426	0.018	YES	.6387	.6472	.6813	.7026	.7239	.7324	.7452
FM2744288A	302	274	194	0.429	0.018	YES	.6432	.6518	.6861	.7075	.7290	.7375	.7504
FM2764335A	304	276	196	0.434	0.018	YES	.6503	.6589	.6936	.7153	.7370	.7456	.7586
FM2784366A	306	278	198	0.437	0.018	YES	.6549	.6636	.6986	.7204	.7422	.7510	.7641
FM2804392A	308	280	200	0.439	0.018	YES	.6588	.6676	.7027	.7247	.7466	.7554	.7686
FM2824423A	310	282	202	0.442	0.018	YES	.6635	.6723	.7077	.7298	.7519	.7608	.7740
FM2844449A	312	284	203	0.445	0.018	YES	.6674	.6762	.7118	.7341	.7563	.7652	.7786
FM2864475A	314	286	205	0.448	0.018	YES	.6713	.6802	.7160	.7384	.7608	.7697	.7831
FM2884506A	317	288	207	0.451	0.018	YES	.6759	.6849	.7210	.7435	.7660	.7750	.7886
FM2904532A	319	290	209	0.453	0.018	YES	.6798	.6889	.7251	.7478	.7704	.7795	.7931
FM2924559A	321	292	211	0.456	0.018	YES	.6839	.6930	.7294	.7522	.7750	.7841	.7978
FM2944589A	323	294	213	0.459	0.018	YES	.6884	.6975	.7342	.7572	.7801	.7893	.8031
FM2964616A	325	296	215	0.462	0.018	YES	.6924	.7016	.7386	.7616	.7847	.7940	.8078
FM2984642A	327	298	217	0.464	0.018	YES	.6963	.7056	.7427	.7659	.7891	.7984	.8124
FM3004673A	329	300	219	0.467	0.018	YES	.7010	.7103	.7477	.7710	.7944	.8038	.8178

FF	Ford Mech Flat Lobes .875													
FILE NAME		@.020"	@.050"	@.200"			1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500	
FF2303506A		258	230	147	0.351	0.018	YES	.5259	.5329	.5610	.5785	.5960	.6030	.6136
FF2323535A		260	232	149	0.354	0.018	YES	.5303	.5373	.5656	.5833	.6010	.6080	.6186
FF2343560A		262	234	151	0.356	0.018	YES	.5340	.5411	.5696	.5874	.6052	.6123	.6230
FF2363588A		264	236	153	0.359	0.018	YES	.5382	.5454	.5741	.5920	.6100	.6171	.6279
FF2383500A	316	265	238	155	0.350	0.018	YES	.5250	.5320	.5600	.5775	.5950	.6020	.6125
FF2383659A		266	238	155	0.366	0.018	YES	.5489	.5562	.5854	.6037	.6220	.6293	.6403
FF2403685A		268	240	157	0.369	0.018	YES	.5528	.5601	.5896	.6080	.6265	.6338	.6449
FF2423711A		270	242	159	0.371	0.018	YES	.5567	.5641	.5938	.6123	.6309	.6383	.6494
FF2443737A		272	244	161	0.374	0.018	YES	.5606	.5680	.5979	.6166	.6353	.6428	.6540
FF2463807A		274	246	163	0.381	0.018	YES	.5711	.5787	.6091	.6282	.6472	.6548	.6662
FF2483700A	328	276	248	163	0.370	0.018	YES	.5550	.5624	.5920	.6105	.6290	.6364	.6475
FF2483834A		276	248	165	0.383	0.018	YES	.5751	.5828	.6134	.6326	.6518	.6594	.6710
FF2503861A		278	250	167	0.386	0.018	YES	.5792	.5869	.6178	.6371	.6564	.6641	.6757
FF2523889A		280	252	169	0.389	0.018	YES	.5834	.5911	.6222	.6417	.6611	.6689	.6806
FF2543916A		282	254	171	0.392	0.018	YES	.5874	.5952	.6266	.6461	.6657	.6736	.6853
FF2563940A		284	256	173	0.394	0.018	YES	.5910	.5989	.6304	.6501	.6698	.6777	.6895
FF2583968A		286	258	175	0.397	0.018	YES	.5952	.6031	.6349	.6547	.6746	.6825	.6944
FF2603996A		288	260	177	0.400	0.018	YES	.5994	.6074	.6394	.6593	.6793	.6873	.6993
FF2624065A		290	262	179	0.407	0.018	YES	.6098	.6179	.6504	.6707	.6911	.6992	.7114
FF2644094A		292	264	181	0.409	0.018	YES	.6141	.6223	.6550	.6755	.6960	.7042	.7165
FF2664119A		294	266	183	0.412	0.018	YES	.6179	.6261	.6590	.6796	.7002	.7085	.7208
FF2684147A		296	268	185	0.415	0.018	YES	.6221	.6303	.6635	.6843	.7050	.7133	.7257
FF2704170A		298	270	187	0.417	0.018	YES	.6255	.6338	.6672	.6881	.7089	.7172	.7298
FF2724199A		300	272	189	0.420	0.018	YES	.6299	.6382	.6718	.6928	.7138	.7222	.7348
FF2744225A		302	274	191	0.423	0.018	YES	.6338	.6422	.6760	.6971	.7183	.7267	.7394
FF2764254A		304	276	193	0.425	0.018	YES	.6381	.6466	.6806	.7019	.7232	.7317	.7445
FF2784323A		306	278	195	0.432	0.018	YES	.6485	.6571	.6917	.7133	.7349	.7436	.7565
FF2804349A		308	280	197	0.435	0.018	YES	.6524	.6610	.6958	.7176	.7393	.7480	.7611
FF2824376A		310	282	199	0.438	0.018	YES	.6564	.6652	.7002	.7220	.7439	.7527	.7658
FF2844406A		312	284	201	0.441	0.018	YES	.6609	.6697	.7050	.7270	.7490	.7578	.7711
FF2864472A		314	286	203	0.447	0.018	YES	.6708	.6797	.7155	.7379	.7602	.7692	.7826
FF2884499A		316	288	205	0.450	0.018	YES	.6749	.6838	.7198	.7423	.7648	.7738	.7873
FF2904526A		318	290	207	0.453	0.018	YES	.6789	.6880	.7242	.7468	.7694	.7785	.7921
FF2924554A		320	292	209	0.455	0.018	YES	.6831	.6922	.7286	.7514	.7742	.7833	.7970
FF2944581A		322	294	211	0.458	0.018	YES	.6872	.6963	.7330	.7559	.7788	.7879	.8017
FF2964608A		324	296	213	0.461	0.018	YES	.6912	.7004	.7373	.7603	.7834	.7926	.8064
FF2984636A		326	298	215	0.464	0.018	YES	.6954	.7047	.7418	.7649	.7881	.7974	.8113
FF3004664A		328	300	217	0.466	0.018	YES	.6996	.7089	.7462	.7696	.7929	.8022	.8162
BFF220313	266	255	220	130	0.313	0.018	NO	.4695	.4758	.5008	.5165	.5321	.5384	.5478

VW														
Volkswagon Mech Flat Lobes														
VWA217303	0	246	217	129	0.303	0.012	YES	.4545	.4606	.4848	.5000	.5151	.5212	.5303
VWB224286	0	256	224	126	0.286	0.016	YES	.4290	.4347	.4576	.4719	.4862	.4919	.5005

Harold Brookshire Designs														
HYD FT	seat	0.02	0.05	0.20	lift	LASH		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
H2173100	263	241	217	131	0.310	0.000	NO	.4650	.4712	.4960	.5115	.5270	.5332	.5425
H2243240	271	249	225	139	0.324	0.000	NO	.4860	.4925	.5184	.5346	.5508	.5573	.5670
H2333383	279	257	233	147	0.338	0.000	NO	.5075	.5142	.5413	.5582	.5751	.5819	.5920
H2433557	289	267	243	157	0.356	0.000	NO	.5336	.5407	.5691	.5869	.6047	.6118	.6225

MECH FT	seat	0.02	0.05	0.20	lift	LASH		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
F2433488	287	272	243	155	0.349	0.016	NO	.5232	.5302	.5581	.5755	.5930	.5999	.6104
F2473558	291	276	247	159	0.356	0.016	NO	.5337	.5408	.5693	.5871	.6049	.6120	.6227
F2493635	293	278	249	161	0.364	0.016	NO	.5453	.5525	.5816	.5998	.6180	.6252	.6361
F2513635	295	280	251	163	0.364	0.016	NO	.5453	.5525	.5816	.5998	.6180	.6252	.6361
F2533667	297	282	253	165	0.367	0.016	NO	.5500	.5573	.5867	.6050	.6233	.6307	.6417
F2553667	299	284	255	167	0.367	0.016	NO	.5500	.5573	.5867	.6050	.6233	.6307	.6417
F2553683	299	284	255	167	0.368	0.016	NO	.5525	.5598	.5893	.6077	.6261	.6335	.6445
F2573753	301	286	257	169	0.375	0.016	NO	.5630	.5705	.6005	.6192	.6380	.6455	.6568
F2593683	303	288	259	171	0.368	0.016	NO	.5525	.5598	.5893	.6077	.6261	.6335	.6445
F2633683	307	292	263	175	0.368	0.016	NO	.5525	.5598	.5893	.6077	.6261	.6335	.6445
F2673683	311	296	267	179	0.368	0.016	NO	.5525	.5598	.5893	.6077	.6261	.6335	.6445

HYD ROL	seat	0.02	0.05	0.20	lift	LASH		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
HR2193500	274	247	219	141	0.350		NO	.5250	.5320	.5600	.5775	.5950	.6020	.6125
HR2233383	276	250	223	142	0.338	0.000	NO	.5075	.5142	.5413	.5582	.5751	.5819	.5920
HR2253533	278	252	225	146	0.353	0.000	NO	.5300	.5371	.5653	.5830	.6007	.6077	.6183
HR2253600	278	252	225	148	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
HR2293533	282	256	229	150	0.353	0.000	NO	.5300	.5370	.5653	.5829	.6006	.6077	.6183
HR2313383	284	258	231	147	0.338	0.000	NO	.5075	.5142	.5413	.5582	.5751	.5819	.5920
HR2333600	286	260	233	155	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
HR2333750	288	261	233	158	0.375	0.000	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563
HR2353683	288	262	235	158	0.368	0.000	NO	.5525	.5598	.5893	.6077	.6261	.6335	.6445
HR2393533	292	266	239	158	0.353	0.000	NO	.5300	.5370	.5653	.5829	.6006	.6077	.6183
HR2413750	296	269	241	164	0.375	0.000	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563
HR2433600	298	271	243	161	0.360	0.000	NO	.5400	.5472	.5760	.5940	.6120	.6192	.6300
HR2493533	302	276	249	166	0.353	0.000	NO	.5300	.5370	.5653	.5829	.6006	.6077	.6183
HR2513750	306	279	251	170	0.375	0.000	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563

31° Major intensity .022-.024 lash

MECH ROLL	seat	0.02	0.05	0.20	lift	LASH		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
R2373930	277	268	237	158	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2433930	283	274	243	164	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2493750	289	280	249	167	0.375	0.022	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563
R2493930	289	280	249	169	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2513930	291	282	251	171	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2514164	291	282	251	172	0.416	0.022	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2553750	295	286	255	172	0.375	0.022	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563
R2553930	295	286	255	174	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2573971	297	288	257	175	0.397	0.022	NO	.5957	.6036	.6354	.6552	.6751	.6830	.6949
R2574266	297	288	257	179	0.427	0.022	NO	.6399	.6484	.6826	.7039	.7252	.7338	.7466
R2593930	299	290	259	177	0.393	0.022	NO	.5895	.5974	.6288	.6485	.6681	.6760	.6878
R2594164	299	290	259	180	0.416	0.022	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2614267	301	292	261	183	0.427	0.022	NO	.6400	.6485	.6827	.7040	.7253	.7339	.7467
R2634266	303	294	263	184	0.427	0.022	NO	.6399	.6484	.6826	.7039	.7252	.7338	.7466
R2653971	305	296	265	182	0.397	0.022	NO	.5957	.6036	.6354	.6552	.6751	.6830	.6949
R2664107	306	297	266	184	0.411	0.022	NO	.6161	.6243	.6571	.6777	.6982	.7064	.7187
R2704107	310	301	270	188	0.411	0.022	NO	.6161	.6243	.6571	.6777	.6982	.7064	.7187
R2714268	311	302	271	190	0.427	0.022	NO	.6402	.6487	.6829	.7042	.7256	.7341	.7469
R2774853	317	308	277	199	0.485	0.022	NO	.7280	.7377	.7765	.8007	.8250	.8347	.8493
R2794266	319	310	279	198	0.427	0.022	NO	.6399	.6484	.6826	.7039	.7252	.7338	.7466
R2804559	320	311	280	200	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2844559	324	315	284	204	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2844639	324	315	284	204	0.464	0.022	NO	.6959	.7051	.7422	.7654	.7886	.7979	.8118
R2844854	324	315	284	205	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R2845390	324	315	284	206	0.539	0.022	NO	.8085	.8193	.8624	.8894	.9163	.9271	.9433
R2874266	327	318	287	205	0.427	0.022	NO	.6399	.6484	.6826	.7039	.7252	.7338	.7466
R2884559	328	319	288	207	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2884854	328	319	288	209	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R2885148	328	321	290	211	0.515	0.022	NO	.7722	.7825	.8237	.8494	.8752	.8855	.9009
R2905148	330	321	290	211	0.515	0.022	NO	.7722	.7825	.8237	.8494	.8752	.8855	.9009
R2924559	332	323	292	211	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2924854	332	323	292	213	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R2954165	335	326	295	209	0.417	0.022	NO	.6248	.6331	.6664	.6872	.7081	.7164	.7289
R2964559	336	327	296	215	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2964854	336	327	296	215	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R3004559	340	331	300	219	0.456	0.022	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R3044854	344	335	304	224	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R3064854	346	337	306	223	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495
R3104854	350	341	310	228	0.485	0.022	NO	.7281	.7378	.7766	.8009	.8252	.8349	.8495

28° Major intensity .016-.018 lash

MECH ROLL	seat	0.02	0.05	0.20	lift	LASH		1.5000	1.5200	1.6000	1.6500	1.7000	1.7200	1.7500
R2474164	290	275	247	173	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2493875	293	278	249	171	0.388	0.016	NO	.5813	.5890	.6200	.6394	.6588	.6665	.6781
R2494164	293	278	249	174	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2514164	294	279	251	176	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2524373	295	280	252	178	0.437	0.016	NO	.6560	.6647	.6997	.7215	.7434	.7522	.7653
R2534274	296	281	253	178	0.427	0.016	NO	.6411	.6496	.6838	.7052	.7266	.7351	.7480
R2554010	298	283	255	177	0.401	0.016	NO	.6015	.6095	.6416	.6617	.6817	.6897	.7018
R2554164	298	283	255	180	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2574010	300	285	257	180	0.401	0.016	NO	.6015	.6095	.6416	.6617	.6817	.6897	.7018
R2574164	300	285	257	181	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2574559	300	285	257	182	0.456	0.016	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2594010	302	287	259	181	0.401	0.016	NO	.6015	.6095	.6416	.6617	.6817	.6897	.7018
R2594164	302	287	259	183	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2594300	302	287	259	183	0.430	0.016	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
R2594559	302	287	259	185	0.456	0.016	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2614010	304	289	261	182	0.401	0.016	NO	.6015	.6095	.6416	.6617	.6817	.6897	.7018
R2624559	305	290	262	187	0.456	0.016	NO	.6839	.6930	.7294	.7522	.7750	.7841	.7978
R2633750	306	291	263	180	0.375	0.016	NO	.5625	.5700	.6000	.6188	.6375	.6450	.6563
R2634010	306	291	263	184	0.401	0.016	NO	.6015	.6095	.6416	.6617	.6817	.6897	.7018
R2634164	306	291	263	185	0.416	0.016	NO	.6246	.6329	.6662	.6871	.7079	.7162	.7287
R2634253	306	291	263	185	0.425	0.016	NO	.6380	.6465	.6805	.7017	.7230	.7315	.7443
R2634544	306	291	263	188	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2654220	308	293	265	187	0.422	0.016	NO	.6330	.6414	.6752	.6963	.7174	.7258	.7385
R2674300	310	295	267	190	0.430	0.016	NO	.6450	.6536	.6880	.7095	.7310	.7396	.7525
R2714544	314	299	271	194	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2744544	317	302	274	199	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2754373	318	303	275	196	0.437	0.016	NO	.6560	.6647	.6997	.7215	.7434	.7522	.7653
R2784544	321	306	278	202	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2804544	323	308	280	203	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2834373	326	311	283	204	0.437	0.016	NO	.6560	.6647	.6997	.7215	.7434	.7522	.7653
R2844544	327	312	284	207	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2884544	331	316	288	211	0.454	0.016	NO	.6816	.6907	.7270	.7498	.7725	.7816	.7952
R2884853	331	316	288	213	0.485	0.016	NO	.7280	.7377	.7765	.8007	.8250	.8347	.8493

FHF	Flat Head Ford													
	Rated Duration	Duration in Degrees			Lobe Lift					Minor Intensity	Major Intensity	Area Intensity	Duration/ Lift Ratio	
	@0.010"	@.020"	@.050"	@.200"	Maximum	LASH		I @ 106	E @ 110	@0.010"	@.020"	@.200"	@.050"	
F2043200B	257.4	228.6	204.0	128.8	0.320	0.012	YES			53.4	24.6	75.2	64	
F2063250B	260.0	230.8	206.0	131.5	0.325	0.012	YES			54.0	24.8	74.5	63	
F2083300B	261.4	232.6	208.0	133.9	0.330	0.012	YES			53.4	24.6	74.1	63	
F2103350B	264.0	234.8	210.0	136.5	0.335	0.012	YES			54.0	24.8	73.5	63	
F2123375B	265.4	236.6	212.0	138.2	0.337	0.012	YES			53.4	24.6	73.8	63	
F2143400B	267.9	238.8	214.0	140.1	0.340	0.012	YES			53.9	24.8	73.9	63	
F2163450B	269.4	240.6	216.0	142.3	0.345	0.012	YES			53.4	24.6	73.7	63	
F2183475B	271.9	242.8	218.0	144.3	0.348	0.012	YES			53.9	24.8	73.7	63	
F2203575B	272.4	244.2	220.0	147.3	0.357	0.012	YES			52.4	24.2	72.7	62	
F2223600B	274.9	246.4	222.0	149.2	0.360	0.012	YES			52.9	24.4	72.8	62	
F2243625B	277.4	248.7	224.0	151.1	0.363	0.012	YES			53.4	24.7	72.9	62	
F2263650B	279.9	250.8	226.0	153.1	0.365	0.012	YES			53.9	24.8	72.9	62	
F2283360C	289.4	254.2	228.0	149.7	0.336	0.012	YES			61.4	26.2	78.3	68	
F2283700B	281.4	252.6	228.0	155.2	0.370	0.012	YES			53.4	24.6	72.8	62	
F2303725B	283.9	254.8	230.0	157.1	0.372	0.012	YES			53.9	24.8	72.9	62	
F2323775B	285.4	256.6	232.0	159.1	0.377	0.012	YES			53.4	24.6	72.9	61	
F2343800B	287.9	258.8	234.0	161.0	0.380	0.012	YES			53.9	24.8	73.0	62	
F2363850B	289.4	260.6	236.0	163.1	0.385	0.012	YES			53.4	24.6	72.9	61	
F2383900B	291.9	262.8	238.0	165.5	0.390	0.012	YES			53.9	24.8	72.5	61	
F2403950B	293.4	264.7	240.0	167.5	0.395	0.012	YES			53.4	24.7	72.5	61	
F2413680C	302.7	267.4	241.0	165.4	0.368	0.012	YES			61.7	26.4	75.6	65	
F2423975B	295.9	266.8	242.0	169.4	0.398	0.012	YES			53.9	24.8	72.6	61	
F2444050B	297.4	268.7	244.0	171.8	0.405	0.012	YES			53.4	24.7	72.2	60	
F2464075B	299.9	270.8	246.0	173.7	0.408	0.012	YES			53.9	24.8	72.3	60	
F2484125B	301.4	272.7	248.0	175.7	0.412	0.012	YES			53.4	24.7	72.3	60	
F2504150B	303.9	274.8	250.0	177.6	0.415	0.012	YES			53.9	24.8	72.4	60	
F2524200B	305.4	276.7	252.0	179.5	0.420	0.012	YES			53.4	24.7	72.5	60	
F2544225B	307.8	278.8	254.0	181.4	0.422	0.012	YES			53.9	24.8	72.6	60	
F2564300B	309.5	280.7	256.0	183.8	0.430	0.012	YES			53.5	24.7	72.2	60	
F2584325B	312.0	282.9	258.0	185.7	0.433	0.012	YES			53.9	24.8	72.3	60	
F2604375B	313.5	284.7	260.0	187.6	0.437	0.012	YES			53.5	24.7	72.4	59	
F2624400B	315.9	286.8	262.0	189.5	0.440	0.012	YES			53.9	24.8	72.5	60	