

CAMSHAFT SPECIFICATIONS

Part No.		SAE Specs@										Rocker Arm Ratio	Valve Lash Clearance
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L			
		Opens	Closes	Duration	Opens	Closes	Duration						
C-410-P	INT.			224			291	.300	.450	114	1.5	HYD.	
	EXH.			224			287	.306	.460	114		HYD.	
CASC-2	INT.			203			292	.273	.450	111	1.65	HYD.	
	EXH.			203			292	.273	.450	111		HYD.	
CASC-3	INT.			194			284	.258	.425	113		HYD.	
	EXH.			210			300	.282	.465	113		HYD.	
CASC-4	INT.			199			285	.266	.459		1.72	HYD.	
	EXH.			203			281	.274	.473			HYD.	
CASC-5	INT.			195			272	.240	.396	107	1.65	HYD.	
	EXH.			198			269	.247	.408	115		HYD.	
CCS-1	INT.			168			288	.210	.315		1.5	0.009	
	EXH.			172			344	.224	.336	0		0.014	
CCS-2	INT.			194			258	.260	.390	108		HYD.	
	EXH.			202			269	.273	.409	116		HYD.	
CCS-3	INT.			172			263	.222	.333	108		HYD.	
	EXH.			172			262	.222	.333	108		HYD.	
CCS-4	INT.			190			272	.229	.400	116	1.75	HYD.	
	EXH.			198			280	.235	.412	109		HYD.	
CCS-5	INT.			185				.271				HYD.	
	EXH.			185				.271				HYD.	
CCS-6	INT.			174				.222				HYD.	
	EXH.			174				.222				HYD.	
CCS-9	INT.			188			276	.232	.405	113		HYD.	
	EXH.			188			276	.232	.405	110		HYD.	
CCS-12	INT.			168			288	.210				0.009	
	EXH.			170			288	.224				0.014	
CCS-18	INT.			172			270	.221	.387	106		HYD.	
	EXH.			172			270	.221	.387	104		HYD.	
CCS-20	INT.			196			270	.234	.412	107		HYD.	
	EXH.			196			270	.234	.412	119		HYD.	
CCS-22	INT.			210			285	.259	.453	109		HYD.	
	EXH.			213			297	.259	.453	117		HYD.	
CCS-23	INT.			176			244	.234	.351	106	1.5	HYD.	
	EXH.			194			259	.257	.385	112		HYD.	
CCS-24	INT.			189			250	.248	.372	102		HYD.	
	EXH.			202			269	.273	.409	116		HYD.	
CCS-25	INT.			193			268	.234	.409	104	1.75	HYD.	
	EXH.			203			280	.253	.442	116		HYD.	
CCS-26	INT.			172			270	.222	.388	106		HYD.	
	EXH.			190			276	.232	.406	98		HYD.	
CCS-30	INT.			179			238	.231	.346	105	1.5	HYD.	
	EXH.			196			256	.262	.394	109		HYD.	
CCS-31	INT.			193			269	.234	.399	103	1.7	HYD.	
	EXH.			193			269	.234	.399	103		HYD.	
CCS-33	INT.			196			256	.263	.394	108	1.5	HYD.	
	EXH.			196			256	.263	.394	111		HYD.	
CCS-35	INT.			176			244	.234	.350	108		HYD.	
	EXH.			193			258	.257	.385	112		HYD.	
CCS-36	INT.			178								HYD.	
	EXH.			202								HYD.	
CCS-37	INT.			202			269	.269	.404	115		HYD.	
	EXH.			207			271	.276	.415	114		HYD.	
CCS-38	INT.			179			252	.234	.350	108		HYD.	
	EXH.			195			262	.256	.385	112		HYD.	
CCS-39	INT.			179			252	.233	.350	106		HYD.	
	EXH.			194			260	.257	.385	112		HYD.	
CCS-40	INT.			207			271	.274	.410	117		HYD.	
	EXH.			214			280	.285	.427	117		HYD.	
CCS-42	INT.			194			258	.260	.390	108		HYD.	

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@										Valve Lash Clearance
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	
		Opens	Closes	Duration	Opens	Closes	Duration					
	EXH.			194			258	.260	.390	111		HYD.
CFC-1	INT.			184			229	.240	.360	103		0.016
	EXH.			184			225	.239	.358	105		0.016
CFC-3	INT.			180			246	.233	.350	123		HYD.
	EXH.			180			246	.233	.350	90		HYD.
CLT-1	INT.			208			264	.273	.396		1.45	0.004
	EXH.			208			247	.273	.396	108		0.006
FOV-6	INT.			202			251	.273	.389	107	1.5	0.019
	EXH.			202			251	.273	.389	117		0.019
FOV-9	INT.			185			256	.244	.366	112		HYD.
	EXH.			185			256	.244	.366	103		HYD.
HSC-1	INT.			218				.270				0.006
	EXH.			223			298	.271				0.006
HSC-2	INT.			208			254	.256				0.012
	EXH.			214			262	.258				0.004
HSC-3	INT.			218				.270				HYD.
	EXH.			223			298	.271				HYD.
HSC-4	INT.			218				.270				HYD.
	EXH.			222				.271				HYD.
HSC-6	INT.			208				.256				0.004
	EXH.			214				.258				0.012
HSC-7	INT.			194			258	.221	.332			0.006
	EXH.			201			276	.218	.327			0.006
HSC-10	INT.			200				.222				0.011
	EXH.			219				.225				0.006
HSC-11	INT.			218				.267				0.011
	EXH.			225				.262				0.006
HSC-12	INT.			218				.267				0.006
	EXH.			225				.262				0.011
MC762	INT.			191			271	.259	.388	115		HYD.
	EXH.			191			271	.259	.388	115		HYD.
MC769	INT.			232				.292				.008
	EXH.			233				.292				.008
MC794	INT.			224				.259				.006
	EXH.			224				.259				.011
MC797	INT.			215				.242				.012
	EXH.			220				.242				.012
MC803	INT.			189				.250				.008
	EXH.			193				.256				.014
MC809	INT.			197			270	.265	.397	110		HYD.
	EXH.			197			270	.265	.397	114		HYD.
MC814	INT.			196			276	.246	.359	102	1.46	HYD.
	EXH.			200			294	.254	.370	117		HYD.
MC816	INT.			222				.281				HYD.
	EXH.			223				.283				HYD.
MC820	INT.			220				.276				HYD.
	EXH.			220				.276				HYD.
MC821	INT.			203			240	.235	.405		1.72	HYD.
	EXH.			214			254	.250	.431			HYD.
MC822	INT.			220				.276				HYD.
	EXH.			220				.276				HYD.
MC830	INT.			164				.212				HYD.
	EXH.			166				.214				HYD.
MC831	INT.			202			200	.375	.375		1	HYD.
	EXH.											HYD.
MC832	INT.			200								HYD.
	EXH.			202				.375	.375			HYD.
MC835	INT.			188			254	.216	.354	120	1.64	HYD.
	EXH.			188			254	.216	.354	104		HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@										Rocker Arm Ratio	Valve Lash Clearance
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L			
		Opens	Closes	Duration	Opens	Closes	Duration						
MC836	INT.			193				.245					HYD.
	EXH.			193				.245					HYD.
MC839	INT.			204				.225					0.006
	EXH.			203				.225					0.01
MC840	INT.			206				.220					0.012
	EXH.			206				.220					0.012
MC1200	INT.			219				0.278					HYD.
	EXH.			220				0.280					HYD.
MC1230	INT.			204				.224					HYD.
	EXH.			214				.249					HYD.
MC1231	INT.			185			272	.245	.423	106	1.73		HYD.
	EXH.			203			288	.259	.447	114			HYD.
MC1234	INT.			196				.220					HYD.
	EXH.			208				.240					HYD.
MC1237	INT.			192				.239					HYD.
	EXH.			192				.239					HYD.
MC1238	INT.			210				.265					HYD.
	EXH.			210				.265					HYD.
MC1239	INT.			217				.230					0.006
	EXH.			219				.230					0.01
MC1240	INT.			181			248	.248	.372	108	1.5		HYD.
	EXH.			192			250	.267	.401	110			HYD.
MC1241	INT.			185				.240	.415		1.73		HYD.
	EXH.			201				.241	.417				HYD.
MC1242	INT.			196			286	.260	.448	109			HYD.
	EXH.			196			286	.259	.448	113			HYD.
MC1243	INT.			182				.246					HYD.
	EXH.			182				.246					HYD.
MC1244	INT.			182				.246					HYD.
	EXH.			182				.246					HYD.
MC1245	INT.			197				.210					HYD.
	EXH.			208				.230					HYD.
MC1246	INT.			229				.291					HYD.
	EXH.			229				.291					HYD.
MC1250	INT.			186			293	.250	.400	109	1.6		HYD.
	EXH.			191			299	.255	.408	117			HYD.
MC1251	INT.			181			284	.252	.403	115			HYD.
	EXH.			191			301	.255	.408	109			HYD.
MC1252	INT.			191				.267					HYD.
	EXH.			191				.267					HYD.
MC1253	INT.			184			254	.258	.413	114			HYD.
	EXH.			193			267	.269	.430	110			HYD.
MC1254	INT.			186				.245					HYD.
	EXH.			186				.245					HYD.
MC1256	INT.			200			287	.260	.416	124			HYD.
	EXH.			200			287	.260	.416	118			HYD.
MC1257	INT.			200			287	.260	.416	110			HYD.
	EXH.			200			287	.260	.416	118			HYD.
MC1258	INT.			191			272	.261	.417	110			HYD.
	EXH.			191			272	.261	.417	110			HYD.
MC1259	INT.			189			277	.263	.384	107	1.46		HYD.
	EXH.			206			299	.276	.402	117			HYD.
MC1260	INT.			184			264	.275	.401	106			HYD.
	EXH.			202			294	.275	.401	110			HYD.
MC1261	INT.			191			270	.260	.390	110	1.5		HYD.
	EXH.			191			270	.260	.390	110			HYD.
MC1262	INT.			205			270	.265	.398	113			HYD.
	EXH.			196			259	.265	.398	117	1.6		HYD.
MC1265	INT.			184				.256					HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@										
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	Valve Lash Clearance
		Opens	Closes	Duration	Opens	Closes	Duration					
	EXH.			185				.256				HYD.
MC1266	INT.			189				.273				.008
MC1268	INT.			192			271	.248	.434	109	1.75	HYD
	EXH.			192			271	.248	.434	115		HYD
MC1269	INT.			191			266	.248	.434	109		HYD.
	EXH.			191			266	.248	.434	115		HYD.
MC1270	INT.			188			349	.248	.438	109		HYD
	EXH.			188			349	.248	.438	115		HYD
MC1271	INT.			216			250	.401	.401		1.0	HYD.
	EXH.			216			250	.401	.401			HYD.
MC1273	EXH.			209				.299				0.013
MC1274	INT.			183			254	.251	.376	108	1.5	HYD.
	EXH.			193			264	.268	.402	114		HYD.
MC1275	INT.			208			277	.288	.432	121		HYD.
	EXH.			208			274	.293	.440	115		HYD.
MC1276	INT.			204			250	.297	.297	105	1	0.008
	EXH.									105		
MC1277	INT.										1.0	
	EXH.			204			240	.297	.297	107		0.01
MC1278	INT.			191			282	.252	.403	114	1.6	HYD.
	EXH.			200			288	.260	.416	120		HYD.
MC1279	INT.			188				.259				HYD.
	EXH.			196				.259				HYD.
MC1280	INT.			188				.259				HYD.
	EXH.			196				.259				HYD.
MC1281	INT.			230				.293				HYD.
	EXH.			230				.293				HYD.
MC1282	INT.			232				.293		101		0.008
	EXH.			232				.293		101		0.008
MC1283	INT.			196				.267				HYD.
	EXH.			196				.267				HYD.
MC1284	INT.			232				.293				0.008
	EXH.			232				.293				0.008
MC1285	INT.			232				.293				0.008
	EXH.			232				.293				0.008
MC1286	INT.			230				.293				HYD.
	EXH.			230				.293				HYD.
MC1287	INT.			196			274	.275	.440	108		HYD.
	EXH.			208			296	.275	.440	112		HYD.
MC1288	INT.			186			273	.263	.421	118		HYD.
	EXH.			197			283	.279	.447	113		HYD.
MC1290	INT.			194			258	.260	.390	109	1.5	HYD.
	EXH.			202			270	.273	.409	109		HYD.
MC1291	INT.			200			270	.248	.421	114	1.7	HYD.
	EXH.			206			273	.253	.430	114		HYD.
MC1292	INT.			182			262	.258	.413	118	1.6	HYD.
	EXH.			191			275	.258	.413	112		HYD.
MC1293	INT.			192				.312				.008
MC1295	INT.			174				.216				HYD.
	EXH.											HYD.
MC1296	INT.											HYD.
	EXH.			167				.204				HYD.
MC1297	INT.			188			256	.255	.407	100		HYD.
	EXH.			192			260	.259	.415	115		HYD.
MC1298	INT.			208				.388				.009
	EXH.			208				.388				.011
MC1299	INT.			208				.388				.009
	EXH.			208				.388				.011
MC1301	INT.			188				.259				HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@											
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	Valve Lash Clearance	
		Opens	Closes	Duration	Opens	Closes	Duration						
	EXH.			196				.259					HYD.
MC1303	INT.			198		265	265	.287	.430	116	1.5		HYD.
	EXH.			198		265	265	.287	.430	110			HYD.
MC1304	INT.			197		263	263	.272	.409	113			HYD.
	EXH.			197		263	263	.272	.409	111			HYD.
MC1309	INT.			184		253	253	.258	.387	109			HYD.
	EXH.			193		266	266	.269	.403	115			HYD.
MC1310	INT.			194				.290					.008
MC1311	EXH.			200				0.296					0.008
MC1315	INT.			191		260	260	.276	.415	106			HYD.
	EXH.			195		263	263	.286	.429	116			HYD.
MC1316	INT.			204		273	273	.282	.480	118	1.7		HYD.
	EXH.			209		298	298	.284	.483	118			
MC1317	INT.			197		282	282	.292	.496	123			HYD.
	EXH.			209		290	290	.292	.496	116			HYD.
MC1318	INT.			208				.389					0.009
	EXH.			208				.389					0.011
MC1319	INT.			208				.389					0.009
	EXH.			208				.389					0.011
MC1320	INT.			191		261	261	.276	.414	106	1.5		HYD.
	EXH.			194		263	263	.285	.428	116			
MC1329	INT.							.350					
MC1334	INT.			188		251	251	.274	.411	116			HYD.
	EXH.			194		271	271	.278	.417	107			HYD.
MC1335	INT.			202		268	268	.299	.450	116			HYD.
	EXH.			208		271	271	.306	.460	117			HYD.
MC1336	INT.			201		270	270	.298	.447	117			HYD.
	EXH.			208		276	276	.306	.459	117			HYD.
MC1337	INT.			191		259	259	.276	.414	106			HYD.
	EXH.			195		263	263	.285	.428	116			HYD.
MC1351	INT.			185		262	262	.263	.395	111			HYD.
	EXH.			185		262	262	.263	.395	110			HYD.
MC1359	INT.			186				.279					
	EXH.			190				.280					
MC1362	INT.			197		271	271	.272	.409	113			HYD.
	EXH.			197		271	271	.272	.409	112			HYD.
MC1364	INT.							0.1776					
MC1365	INT.			176				0.3170					
	EXH.			212				0.2897					
MC1376	INT.			188				.255	0.408	110			HYD
	EXH.			190				.259	0.414	105			HYD
MC1377	INT.			188				.255	0.408	110			HYD
	EXH.			190				.259	0.414	105			HYD
MC1382	INT.			.274		202	202						
	EXH.			.275		242	242						
MC1383	INT.			195		281	281	.273	.464	113	1.7		HYD.
	EXH.			208		291	291	.280	.476	118			
MC1384	INT.			192		279	279	.268	.456	117			HYD.
	EXH.			190		281	281	.274	.466	110			HYD.
MC1390	INT.			193				0.28346		118.5			HYD.
	EXH.			193				0.28346		109.5			HYD.
MC1392	INT.			203				0.29412		119			HYD.
	EXH.			210				0.29917		122			HYD.
MC1393	INT.			196				0.27373		115			HYD.
	EXH.			208				0.28061		117			HYD.
MTA-1	INT.			204		280	280	.280	.449	105	1.6		HYD.
	EXH.			214		289	289	.296	.473	115			
MTB-1	INT.			204		280	280	.280	.449	112			HYD.
	EXH.			214		290	290	.296	.473	112			HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.	SAE Specs@											
	Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio)			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	Valve Lash Clearance	
	Opens	Closes	Duration	Opens	Closes	Duration	Cam Lift					
MTB-2	INT.		194			272	.265	.424	109			HYD.
	EXH.		204			280	.280	.449	119			HYD.
MTC-1	INT.		204			278	.280	.421	107	1.5		HYD.
	EXH.		214			288	.296	.444	117			HYD.
MTC-5	INT.		204			278	.280	.421	107			HYD.
	EXH.		214			288	.295	.443	117			HYD.
MTC-6	INT.		204			288	.270	.459	108	1.7		HYD.
	EXH.		208			298	.270	.459	116			HYD.
MTD-1	INT.		204			278	.280	.421	108	1.5		HYD.
	EXH.		214			288	.295	.443	116			HYD.
MTD-2	INT.		204			278	.280	.421	107			HYD.
	EXH.		214			288	.295	.443	117			HYD.
MTF-1	INT.		204			280	.280	.449	108	1.6		HYD.
	EXH.		214			289	.295	.473	116			HYD.
MTF-2	INT.		204			282	.280	.485	106	1.73		HYD.
	EXH.		214			292	.295	.511	118			HYD.
MTF-3	INT.		204			282	.280	.485	107			HYD.
	EXH.		214			292	.295	.512	117			HYD.
MTF-4	INT.		204			282	.280	.485	104			HYD.
	EXH.		214			292	.295	.511	120			HYD.
MTF-5	INT.		204			280	.280	.449	107	1.6		HYD.
	EXH.		214			290	.295	.473	117			HYD.
MTF-6	INT.		204			280	.281	.449	106			HYD.
	EXH.		214			289	.296	.473	114			HYD.
MTO-1	INT.		204			280	.280	.449	106			HYD.
	EXH.		214			289	.295	.473	118			HYD.
MTP-1	INT.		204			278	.280	.421	108	1.5		HYD.
	EXH.		214			288	.295	.443	116			HYD.
SBC-3	INT.		207			284	.269	.430	112	1.6		HYD
	EXH.		207			284	.269	.430	116			HYD
SBC-4	INT.		194				.243					HYD.
	EXH.		226				.286					HYD.
SBC-5	INT.		191			276	.242	.387	109			HYD.
	EXH.		208			297	.252	.403	116			HYD.
SBC-8	INT.		194			272	.251	.391	112			HYD
	EXH.		194			283	.244	.401	112			HYD
SBC-11	INT.		172			241	.207	.331	105			HYD.
	EXH.		182			261	.216	.346	106			HYD.
SBC-12	INT.		180			250	.224	.358	104			HYD.
	EXH.		194			280	.240	.384	110			HYD.
SBC-13	INT.		195			272	.251	.401	112			HYD.
	EXH.		194			280	.240	.384	110			HYD.
SBC-14	INT.		193			282	.250	.400	104			HYD.
	EXH.		196			276	.264	.422	110			HYD.
SBC-15	INT.		180			251	.224	.358	104			HYD.
	EXH.		194			280	.240	.384	110			HYD.
SBC-16	INT.		180			251	.224	.358	104			HYD.
	EXH.		194			280	.240	.384	110			HYD.
SBOT-1	INT.		196			271	.251	.401	106			HYD.
	EXH.		196			271	.251	.401	112			HYD.
SDC-7	INT.		226				.269					0.012
	EXH.		226				.269					0.012
SDC-8	INT.		227				.280					0.012
	EXH.		227				.280					0.012
SFP-2	INT.		196			268	.244	.400	129	1.64		HYD.
	EXH.		196			268	.244	.400	111			HYD.
SFP-4	INT.		202				.256					0.014
	EXH.		202				.256					0.016
SFP-5	INT.		192			236	.236					HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@										
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	Valve Lash Clearance
Opens	Closes	Duration	Opens	Closes	Duration							
	EXH.			206			226	.232				HYD.
SIH-1	INT.			188				.262	.445		1.7	HYD.
	EXH.			180				.236	.400			HYD.
SIH-6	INT.			176				.254		103		HYD
	EXH.			184				.253		105		HYD
SOC-9	INT.			187			276	.250	.400	106	1.6	HYD
	EXH.			200			290	.251	.401	112		HYD
SOC-11	INT.			164			235	.251	.401	96		HYD
	EXH.			192			269	.279	.446	114		HYD
SOC-12	INT.			172			248	.235	.376	100		HYD
	EXH.			192			274	.235	.376	114		HYD
SOC-14	INT.			178			249	.247	.395	102		HYD
	EXH.			186			256	.251	.401	116		HYD
SPC-3	INT.			224			298	.271	.406	112	1.5	HYD
	EXH.			236			310	.271	.406	119		HYD
SPC-4	INT.			198			272	.270	.404	106		HYD
	EXH.			208			280	.272	.408	116		HYD
SPC-5	INT.			198			272	.270	.404	106		HYD
	EXH.			208			280	.272	.408	116		HYD
SPC-7	INT.			212			285	.272	.409	113		HYD
	EXH.			225			298	.271	.408	118		HYD
SPC-8	INT.			231			304	.313	.470	112		HYD
	EXH.			240			316	.313	.470	115		HYD
SPC-9	INT.			189			264	.243	.364	105		HYD
	EXH.			189			264	.243	.364	110		HYD
SPC-10	INT.			188			277	.232	.406	113	1.75	HYD
	EXH.			188			277	.232	.406	110		HYD
SPC-11	INT.			181			256	.233	.349	108	1.5	HYD
	EXH.			181			256	.233	.349	104		HYD
SPC-12	INT.			209			292	.252	.378	115		HYD
	EXH.			189			264	.243	.364	112		HYD
SPC-13	INT.			190			277	.232	.405	113	1.75	HYD
	EXH.			190			277	.232	.405	110		HYD
SPC-15	INT.			202			247	.240	.413		1.72	HYD
	EXH.			201			221	.239	.411			HYD
SPC-16	INT.			223			260	.251	.432			HYD.
	EXH.			223			266	.253	.435			HYD.
SPC-17	INT.			188			276	.231	.406	113	1.75	HYD
	EXH.			188			276	.231	.406	110		HYD
SPC-18	INT.			188			276	.231	.406	113		HYD
	EXH.			188			276	.231	.406	110		HYD
SPD-3	INT.			198			272	.270	.405	107	1.5	0.01
	EXH.			202			260	.275	.414	111		0.02
SPD-11	INT.			208			283	.287	.431	110		HYD
	EXH.			210			296	.286	.429	116		HYD
SPD-20	INT.			180			264	.248	.372	110		HYD
	EXH.			192			274	.266	.400	108		HYD
SPD-22	INT.			209			279	.286	.429	112		HYD
	EXH.			220			289	.296	.444	116		HYD
SPD-25	INT.			203			278	.273	.410	108		HYD
	EXH.			203			278	.273	.410	111		HYD
SPD-27	INT.			188			255	.252	.378	108		HYD
	EXH.			188			255	.252	.378	102		HYD
SPD-28	INT.			218			273	.243	.430		1.77	HYD
	EXH.			218			273	.243	.430			HYD
SPD-29	INT.			217			273	.243	.430	112		HYD
	EXH.			217			273	.243	.430	104		HYD
SPD-30	INT.			214			268	.243	.430			HYD.
	EXH.			214			268	.243	.430			HYD.

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		SAE Specs@										Rocker Arm Ratio	Valve Lash Clearance
		Specs @ 0.50 Cam Lift			(0.06/Rocker Arm Ratio)			Cam Lift	Gross Valve Lift	Center Line C/L			
		Opens	Closes	Duration	Opens	Closes	Duration						
SPD-31	INT.			213			302	.298	.447	112	1.5	HYD	
	EXH.			225			324	.306	.459	118		HYD	
SPD-33	INT.			214			268	.243	.437		1.77	HYD.	
	EXH.			214			268	.243	.437			HYD.	
SPD-34	INT.			194			267	.245	.434			HYD	
	EXH.			190			264	.245	.433			HYD	
SPD-35	INT.			194			267	.245	.434			HYD	
	EXH.			190			264	.245	.434			HYD	
SRC-5	INT.			196			263	.266	.425	109	1.6	HYD	
	EXH.			196			263	.266	.425	112		HYD	
SRC-6	INT.			185			259	.254	.380	109	1.5	HYD.	
	EXH.			185			259	.254	.380	112		HYD.	
SRC-8	INT.			191			262	.252	.377	113		HYD	
	EXH.			191			262	.251	.377	115		HYD	
SRC-9	INT.			196			270	.265	.424	109	1.6	HYD	
	EXH.			196			270	.265	.424	115		HYD	
SSC-1	INT.			196			226	.221				MECH	
	EXH.			196			226	.221				MECH	
SVW-1	INT.			224			254	.405	.405		1.0	0.01	
	EXH.			224			248	.405	.405			0.018	
SWC-1	INT.			200				.220				0.018	
	EXH.			206				.371				0.016	
SYB-2	INT.			197			258	.262	.419	110	1.6	.019	
	EXH.			196			258	.262	.419	116		.019	
SYB-8	INT.			186			270	.232	.394	108	1.7	HYD	
	EXH.			186			270	.232	.394	113		HYD	
SYB-9	INT.			187			261	.238	.380	103	1.6	HYD	
	EXH.			187			261	.238	.380	113		HYD	
SYB-13	INT.			186			272	.232	.405	110	1.75	HYD	
	EXH.			186			272	.232	.405	116		HYD	
SYB-16	INT.			193			283	.244	.426	110		HYD.	
	EXH.			193			283	.244	.426	110		HYD.	
SYB-19	INT.			193			273	.253	.437	110	1.73	HYD.	
	EXH.			206			287	.277	.480	116		HYD.	
SYB-21	INT.			192			272	.247	.428	109		HYD.	
	EXH.			198			291	.250	.432	111		HYD.	
SYB-22	INT.			192			274	.252	.442	108	1.75	HYD.	
	EXH.			192			274	.252	.442	111		HYD.	
SYB-23	INT.			192			273	.247	.432	113		HYD	
	EXH.			199			281	.249	.435	111		HYD	
SYB-24	INT.			194			270	.260	.416	103	1.6	HYD	
	EXH.			194			270	.260	.416	112		HYD	
SYB-25	INT.			184			293	.230	.368	114		HYD.	
	EXH.			189			265	.238	.380	104		HYD.	
SYB-26	INT.			183			258	.237	.380	103		HYD	
	EXH.			192			270	.247	.395	111		HYD	
SYB-29	INT.			207			287	.278	.481	120	1.73	HYD.	
	EXH.			221			307	.283	.489	110		HYD.	
SYB-30	INT.			197			280	.260	.416	114	1.6	HYD	
	EXH.			209			293	.278	.444	114		HYD	
SYB-31	INT.			185			259	.225	.370		1.65	HYD.	
	EXH.			193			275	.229	.377			HYD.	
SYB-33	INT.			186			261	.240	.415	106	1.73	HYD.	
	EXH.			201			275	.241	.416	114		HYD.	
SYB-34	INT.			193			271	.229	.380	106	1.7	HYD	
	EXH.			193			271	.229	.380	117		HYD	
SYB-35	INT.			206			283	.278	.445	117	1.6	HYD	
	EXH.			221			304	.283	.453	113		HYD	
SYB-36	INT.			206			260	.263				0.014	

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.		Specs @ 0.50 Cam Lift			SAE Specs@ (0.06/Rocker Arm Ratio) Cam Lift			Cam Lift	Gross Valve Lift	Center Line C/L	Rocker Arm Ratio	Valve Lash Clearance
		Opens	Closes	Duration	Opens	Closes	Duration					
	EXH.			206			254	.264				0.016
SYB-37	INT.			187			246	.238	.390	108	1.64	HYD.
	EXH.			190			250	.238	.390	116		HYD.
SYB-38	INT.			192			270	.247	.395	108	1.6	HYD.
	EXH.			192			270	.247	.395	114		HYD.
SYB-39	INT.			200			269	.239	.395	108	1.65	HYD.
	EXH.			200			269	.239	.395	114		HYD.
SYB-42	INT.			208			275	.275	.424	111	1.6	HYD.
	EXH.			208			275	.275	.424	121		HYD.
SYB-43	INT.			184			260	.237	.379	104		HYD.
	EXH.			192			272	.247	.395	111		HYD.
SYB-44	INT.			208			275	.265	.437		1.65	HYD.
	EXH.			208			275	.265	.437			HYD.
SYB-45	INT.			190				.240				HYD.
	EXH.			190				.240				HYD.
SYB-46	INT.			190				.240				HYD.
	EXH.			190				.240				HYD.
SYB-47	INT.			190				.240				HYD.
	EXH.			190				.240				HYD.
SYB-48	INT.			202				.250				HYD.
	EXH.			190				.239				HYD.
SYB-49	INT.			202				.262				HYD.
	EXH.			202				.262				HYD.
SYB-50	INT.			198			287	.260	.416	110	1.6	HYD.
	EXH.			198			287	.260	.416	118		HYD.
SYB-51	INT.			210			298	.278	.444	116		HYD.
	EXH.			211			282	.278	.445	115		HYD.
TSC-1	INT.			212			244	.262	.380		1.45	0.008
	EXH.			224			254	.264	.383			0.014
TSC-5	INT.			191				.197				.008
	EXH.			191				.197				.012