

CAMSHAFT SPECIFICATIONS

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					
C-10-P	INT. EXH.											
C-400-P	EXH. INT.											
C-410-P	INT. EXH.											
CASC-2	EXH. INT.	30 BBC -12 BTC	-7 ATC 35 ABC	203 203	70 BBC -12 BTC	42 ATC 84 ABC	292 292	.273 .273	.450 .450	111 111	1.65	HYD HYD
CASC-3	INT. EXH.	-17 BTC 38 BBC	31 ABC -8 ATC	194 210	21 BTC 76 BBC	83 ABC 44 ATC	284 300	.258 .282	.425 .465	113 113		HYD HYD
CASC-4	INT. EXH.	-17 BTC 35 BBC	36 ABC -12 ATC	199 203	12 BTC 64 BBC	94 ABC 38 ATC	286 282	.266 .274	.458 .471	115 115	1.72	HYD HYD
CASC-5	EXH. INT.	34 BBC -10 BTC	-16 ATC 25 ABC	198 195	63 BBC 21 BTC	26 ATC 71 ABC	269 272	.246 .240	.369 .360	111 111	1.6	HYD HYD
CCS-1	INT. EXH.	-10 BTC 34 BBC	25 ABC -16 ATC	168 170	21 BTC 63 BBC	71 ABC 26 ATC	286 344	.210 .224	.315 .336	108 108	1.5	0.015 0.008
CCS-12	INT. EXH.	23 BTC 13 BBC	12 ABC 24 ATC	168 170			288 344	.210 .224	.309 .320	108 108		0.016 0.006
CCS-16	EXH. INT.	29 BBC -5 BTC	-15 ATC 19 ABC	194 194	59 BBC 25 BTC	29 ATC 63 ABC	268 268	.257 .257	.351 .351	112 102	1.3	HYD HYD
CCS-18	INT. EXH.	-20 BTC 10 BBC	12 ABC -18 ATC	172 172	29 BTC 59 BBC	61 ABC 30 ATC	270 270	.221 .221	.387 .387	106 104	1.75	HYD HYD
CCS-2	EXH. INT.	37 BBC -11 BTC	-14 ATC -25 ABC	203 194	62 BBC 14 BTC	29 ATC 66 ABC	271 260	.273 .260	.410 .390	116 108	1.5	HYD HYD
CCS-20	INT. EXH.	-14 BTC 33 BBC	30 ABC -17 ATC	196 196	16 BTC 63 BBC	74 ABC 27 ATC	270 270	.234 .234	.412 .412	107 119	1.75	HYD HYD
CCS-21	EXH. INT.	20 BBC -20 BTC	-7 ATC 33 ABC	193 193	51 BBC 11 BTC	38 ATC 78 ABC	269 269	.234 .234	.408 .408	116 104		HYD HYD
CCS-22	INT. EXH.	-5 BTC 43 BBC	35 ABC -10 ATC	210 213	28 BTC 77 BBC	80 ABC 37 ATC	285 297	.259 .259	.453 .453	109 117		HYD HYD
CCS-23	INT. EXH.	-18 BTC 28 BBC	14 ABC -14 ATC	176 194	16 BTC 48 BBC	54 ABC 25 ATC	244 259	.234 .257	.351 .385	106 112	1.5	HYD HYD
CCS-24	INT. EXH.	-9 BTC 36 BBC	18 ABC -14 ATC	189 202	14 BTC 63 BBC	56 ABC 26 ATC	250 269	.248 .273	.372 .409	102 116		HYD HYD
CCS-25	INT. EXH.	-12 BTC 36 BBC	25 ABC -13 ATC	193 203	19 BTC 66 BBC	69 ABC 34 ATC	268 280	.234 .253	.409 .442	104 116	1.75	HYD HYD
CCS-26	EXH. INT.	13 BBC -20 BTC	-3 ATC 12 ABC	190 172	56 BBC 29 BTC	40 ATC 61 ABC	276 270	.232 .222	.406 .388	98 106		HYD HYD
CCS-27	EXH. INT.	28 BBC -20 BTC	-14 ATC 16 ABC	194 176	54 BBC 14 BTC	25 ATC 50 ABC	259 244	.257 .234	.385 .351	112 108	1.5	HYD HYD
CCS-29	INT. EXH.	-12 BTC 30 BBC	21 ABC -17 ATC	189 193			244 244	.274 .280	.411 .420	111 111		.006 .018
CCS-3	INT. EXH.	-22 BTC 12 BBC	14 ABC -20 ATC	172 172	13 BTC 12 BBC	70 ABC 30 ATC	263 262	.222 .222	.333 .333	107 107		HYD HYD
CCS-30	INT. EXH.	-16 BTC 27 BBC	15 ABC -11 ATC	179 196	7 BTC 51 BBC	51 ABC 25 ATC	238 256	.231 .262	.346 .394	105 109		HYD HYD
CCS-31	EXH. INT.	19 BBC -6 BTC	-6 ATC 19 ABC	193 193	50 BBC 24 BTC	37 ATC 63 ABC	268 268	.234 .234	.411 .411	109 96	1.75	HYD HYD
CCS-32	EXH. INT.	27 BBC 21 BTC	20 ATC 25 ABC	205 204			284 284	.241 .241	.386 .386	114 112	1.6	HYD HYD
CCS-33	EXH. INT.	29 BBC -10 BTC	-13 ATC 26 ABC	196 194	53 BBC 14 BTC	23 ATC 62 ABC	256 256	.263 .263	.394 .394	111 108	1.5	HYD HYD
CCS-34	INT. EXH.	-10 BTC 29 BBC	26 ABC -13 ATC	196 196	14 BTC 53 BBC	62 ABC 23 ATC	256 256	.263 .263	.394 .394	108 111		HYD HYD
CCS-35	EXH. INT.	28 BBC -20 BTC	-15 ATC 16 ABC	193 176	54 BBC 14 BTC	24 ATC 50 ABC	258 244	.257 .234	.384 .351	112 108		HYD HYD
CCS-36	INT. EXH.	-13 BTC 39 BBC	11 AB -17 AT	178 202			260 300	.280 .280	.448 .448	100 120	1.6	HYD HYD
CCS-37	EXH.	37 BBC	-10 ATC	207	63 BBC	28 ATC	271	.276	.414	114	1.5	HYD

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		Opens	Closes	Duration	Opens	Closes	Duration					
CCS-38	INT.	-14 BTC	36 ABC	202	12 BTC	77 ABC	259	.269	.403	115		HYD
	EXH.	29 BBC	-14 ATC	195	57 BBC	25 ATC	282	.256	.386	112		HYD
CCS-39	EXH.	28 BBC	14 ATC	194	56 BBC	24 ATC	260	.257	.385	112		HYD
	INT.	-17 BTC	16 ABC	179	16 BTC	56 ABC	252	.234	.350	106		HYD
CCS-4	INT.	-14 BTC	24 ABC	190	18 BTC	73 ABC	272	.229	.400	116	1.75	HYD
	EXH.	35 BBC	-17 ATC	198	68 BBC	31 ATC	280	.235	.412	109		HYD
CCS-40	EXH.	43 BBC	-9 ATC	214	74 BBC	26 ATC	280	.285	.427	117	1.5	HYD
	INT.	-14 BTC	41 ABC	207	14 BTC	77 ABC	271	.274	.410	117		HYD
CCS-41	EXH.	22 BBC	37 ATC	203	63 BBC	26 ATC	269	.273	.410	116		HYD
	INT.	-27 BTC	13 ABC	189	10 BTC	60 ABC	250	.248	.372	106		HYD
CCS-42	INT.	-12 BTC	26 ABC	194	14 BTC	64 ABC	258	.260	.390	108		HYD
	EXH.	27 BBC	-13 ATC	194	50 BBC	28 ATC	258	.260	.390	111		HYD
CCS-5	INT.	17 BTC	21 ABC	185			270	.271	.406	109		HYD
	EXH.	22 BBC	16 ATC	185			270	.271	.406	109		HYD
CCS-6	INT.	20 BTC	10 ABC	172			244	.222	.333	105		HYD
	EXH.	12 BBC	18 ATC	172			244	.222	.333	105		HYD
CCS-9	INT.	-19 BTC	27 ABC	188	25 BTC	71 ABC	276	.232	.406	113	1.75	HYD
	EXH.	24 BBC	-16 ATC	188	68 BBC	28 ATC	276	.232	.406	110		HYD
CFC-1	EXH.	17 BBC	-13 ATC	184	36 BBC	9 ATC	225	.239	.358	105	1.5	0.016
	INT.	-13 BTC	17 ABC	184	6 BTC	43 ABC	229	.240	.360	103		0.016
CFC-3	EXH.	11 BBC	-13 ATC	178	36 BBC	24 ATC	240	.232	.348	111		HYD
	INT.	-22 BTC	20 ABC	178	3 BTC	57 ABC	240	.232	.348	102		HYD
CLT-1	EXH.			208				.273	.409			
	INT.			208			264	.273	.409		1.45	0.006
CLT-2	INT.			204			254	.231	.346		1.5	0.01
	EXH.			204				.230	.345			
FCC-2	INT.			213			244	.276				0.012
	EXH.			213			239	.275				0.012
FOV-9	INT.	-17 BTC	29 ABC	184	20 BTC	90 ABC	254	.245	.367	112		HYD
	EXH.	23 BBC	-11 ATC	185	60 BBC	50 ATC	255	.245	.367	108		HYD
HSC-11	EXH.			225				.262				0.006
	INT.			218				.267				0.011
HSC-12	INT.			218				.267				0.011
	EXH.			225				.262				0.006
HSC-3	EXH.			222			298	.271				0.006
	INT.			218			271	.270				0.008
HSC-4	INT.			218			271	.270				MECH
	EXH.			222			298	.271				MECH
HSC-5	INT.			208				.256				0.008
	EXH.			214				.258				0.006
HSC-8	EXH.			210				.226				0.008
	INT.			208				.226				0.01
HSC-9	INT.			208				.226				0.01
	EXH.			210				.226				0.008
MC1200	INT.											
	EXH.											
MC1210	INT.			194				.260				HYD
	EXH.			194				.260				HYD
MC1220	INT.			194				.260				HYD
	EXH.			194				.260				HYD
MC1230	INT.	-15 BTC	28 ABC	193	15 BTC	80 ABC	275	.272	.435	111	1.6	HYD
	EXH.	31 BBC	-18 ATC	193	61 BBC	34 ATC	275	.272	.435	115		HYD
MC1231	INT.	-14 BTC	18 ABC	184			254	.245	.424	106		HYD
	EXH.	35 BBC	-14 ATC	201			270	.259	.448	114		HYD
MC1232	EXH.	38 BBC	-20 ATC	198				.264	.457	119		HYD
	INT.	12 BTC	25 ABC	193				.257	.445	108		HYD
MC1234	INT.											
	EXH.											

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		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							
MC1235	INT. EXH.			212				.410			1.1	
MC1236	EXH. INT.							.410				
MC1237	EXH. INT.			192 192				.239 .239				HYD HYD
MC1238	EXH. INT.			210 210				.265 .265				HYD HYD
MC1239	EXH. INT.			219 217				.230 .230				.008 .013
MC1240	EXH. INT.	24 BBC -20 BTC	-12 ATC 21 ABC	192 181	57 BBC 12 BTC	38 ATC 72 ABC	250 248	.267 .248	.401 .372	110 108	1.5	HYD HYD
MC1241	INT. EXH.	-14 BTC 34 BBC	19 ABC -13 ATC	185 201	14 BTC 70 BBC	72 ABC 25 ATC	250 264	.240 .241	.415 .417	106 114	1.75	HYD HYD
MC1242	EXH. INT.	30 BBC -12 BTC	-15 ATC 27 ABC	195 195	61 BBC 19 BTC	31 ATC 74 ABC	273 273	.260 .260	.455 .455	113 109		HYD HYD
MC1243	INT. EXH.			182 182				.246 .246	.394 .394	97 97	1.6	HYD HYD
MC1244	EXH. INT.			182 182				.246 .246	.394 .394	123 123		HYD HYD
MC1245	EXH. INT.			208 197				.230 .210				HYD HYD
MC1246	EXH. INT.			229 229				.291 .291				HYD HYD
MC1247	EXH. INT.											
MC1248	EXH. INT.											
MC1249	EXH. INT.	33 BBC -17 BTC	-22 ATC 25 ABC	191 188	73 BBC 20 BTC	51 ATC 93 ABC	304 294	.255 .252	.459 .453	117 111	1.8	HYD HYD
MC1250	INT. EXH.	-16 BBC 32 BBC	22 ABC -21 ATC	188 191	21 BTC 70 BBC	92 ABC 49 ATC	293 299	.250 .255	.400 .408	109 117	1.6	HYD HYD
MC1251	INT. EXH.	-24 BTC 26 BBC	25 ABC -15 ATC	181 191	110 BTC 70 BBC	92 ABC 52 ATC	284 301	.252 .255	.403 .408	115 109		HYD HYD
MC1252	EXH. INT.			191 191				.267 .267				HYD HYD
MC1253	EXH. INT.	27 BBC -22 BTC	-14 ATC 26 ABC	193 184	58 BBC 8 BTC	29 ATC 66 ABC	267 254	.269 .258	.430 .413	110 114		HYD HYD
MC1254	INT. EXH.			186 186				.245 .245				HYD HYD
MC1255	INT. EXH.			192 190				.248 .239				HYD HYD
MC1256	INT. EXH.	-25 BTC 37 BBC	45 ABC -17 ATC	200 200	8 BTC 70 BBC	99 ABC 37 ATC	287 287	.260 .260	.416 .416	124 118		HYD HYD
MC1257	EXH. INT.	37 BBC -11 BTC	-17 ATC 31 ABC	200 200	70 BBC 22 BTC	37 ATC 85 ABC	287 287	.260 .260	.416 .416	118 110		HYD HYD
MC1258	EXH. INT.	25 BBC -15 BTC	-14 ATC 26 ABC	191 191	25 BBC 16 BTC	36 ATC 76 ABC	272 272	.261 .261	.392 .392	110 110	1.5	HYD HYD
MC1259	INT. EXH.			189 206				.263 .276	.394 .414	107 117		HYD HYD
MC1260	INT. EXH.			185 202				.275 .275	.412 .412	106 110		HYD HYD
MC1261	INT. EXH.	-15BTC 25 BBC	26 ABC -14 ATC	191 191	15 BTC 55 BBC	75 ABC 35 ATC	270 270	.260 .260	.417 .417	110 110	1.6	HYD HYD
MC1262	EXH. INT.	33 BBC -13 BTC	-17 ATC 18 ABC	196 205	61 BBC 15 BTC	18 ATC 75 ABC	259 270	.265 .265	.420 .420	116 112		HYD HYD
MC1263	EXH. INT.											
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
	EXH.	Opens	Closes	Duration	Opens	Closes	Duration					
	EXH.			185				.256				HYD
MC1266	EXH.											
	INT.											
MC1267	INT.											
	EXH.											
MC1268	EXH.	30 BBC	-18 ATC	192	69 BBC	22 ATC	271	.248	.434	115	1.75	HYD
	INT.	-14 BTC	26 ABC	192	25 BTC	66 ABC	271	.248	.434	109		HYD
MC1269	EXH.	28 BBC	-17 ATC	191	63 BBC	23 ATC	266	.248	.434	115		HYD
	INT.	-18 BTC	27 ABC	191	19 BTC	67 ABC	266	.248	.434	109		HYD
MC1270	INT.	-15 BTC	23 ABC	188	58 BTC	111 ABC	349	.248	.438	109		HYD
	EXH.	29 BBC	-21 ATC	188	102 BBC	67 ATC	349	.248	.438	115		HYD
MC1271	EXH.			216			250	.401	.401	115	1.0	HYD
	INT.			216			250	.401	.401	105		HYD
MC1272	EXH.			-				-				.009
	INT.			196				.273				-
MC1273	INT.			-				-				.013
	EXH.			209				.299				-
MC1274	EXH.	30 BBC	-17 ATC	193	62 BBC	22 ATC	264	.268	.402	114	1.5	HYD
	INT.	17 BTC	20 ABC	183	16 BTC	58 ABC	254	.251	.376	108		HYD
MC1275	INT.	-17 BTC	45 ABC	208	13 BTC	84 ABC	277	.288	.432	121		HYD
	EXH.	39 BBC	-11 ATC	208	70 BBC	24 ATC	274	.293	.439	115		HYD
MC1276	INT.			204				.297				N/A
	EXH.			N/A				.297				0.008
MC1277	INT.			N/A				.297				0.01
	EXH.			204				.297				N/A
MC1278	INT.	-18 BTC	29 ABC	191	16 BTC	87 ABC	282	.252	.403	114	1.6	HYD
	EXH.	40 BBC	-20 ATC	200	73 BBC	35 ATC	288	.260	.416	120		HYD
MC1279	INT.			188				.259				HYD
	EXH.			196				.259				HYD
MC1280	EXH.			196				.259				HYD
	INT.			188				.259				HYD
MC1281	EXH.			230				.293				N/A
	INT.			230				.293				0.01
MC1283	EXH.			196				.267				HYD
	INT.			196				.267				HYD
MC1284	INT.			232				.293		101		0.008
	EXH.			232				.293		101		
MC1285	INT.			232				.293		101		0.008
	EXH.			232				.293		101		
MC1286	EXH.			230				.293		100		
	INT.			230				.293		100		HYD
MC1287	INT.	-10 BTC	26 ABC	196	26 BTC	68 ABC	274	.275	.440	108		HYD
	EXH.	36 BBC	-8 ATC	208	74 BBC	42 ATC	296	.275	.440	112		HYD
MC1288	EXH.	32 BBC	-15 ATC	197	65 BBC	37 ATC	263	.279	.446	115		HYD
	INT.	-25 BTC	31 ABC	185	10 BTC	83 ABC	273	.263	.421	115		HYD
MC1289	EXH.											
	INT.											
MC1290	EXH.	29 BBC	-7 ATC	202	57 BBC			.273		109		
	INT.	-13 BTC	27 ABC	194	13 BTC	65 ABC	268	.260		109		HYD
MC1291	INT.	-14 BTC	34 ABC	200	15 BTC	75 ABC	270	.248	.421	114	1.7	HYD
	EXH.	37 BBC	-11 ATC	206	64 BBC	29 ATC	273	.253	.430	114		HYD
MC1292	EXH.											
	INT.											
MC1293	INT.											
	EXH.											
MC1294	EXH.											
	INT.											
MC1295	EXH.											
	INT.											

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					
MC1296	INT. EXH.											
MC1297	INT. EXH.	-6 BTC 30 BBC	14 ABC -18 ATC	188 192	24 61	52 19	256 260	.255 .259	.407 .415	107.5 107.5	1.6	HYD HYD
MC1298	EXH. INT.											
MC1299	INT. EXH.											
MC1300	INT. EXH.			201 201				.334 .334				
MC1301	INT. EXH.			188 196				.259 .259				HYD HYD
MC1302	EXH. INT.			196 188				.259 .259				HYD HYD
MC1303	INT. EXH.			198 198				.287 .287	.430 .430	116 110	1.5-1	Hyd Hyd
MC1304	EXH. INT.			197 197				.272 .272	.408 .408	111 113		Hyd Hyd
MC1309	EXH. INT.											
MC1310	INT. EXH.											
MC1311	EXH. INT.											
MC1315	INT. EXH.			191 195				.276 .286	.415 .429	106 116		Hyd Hyd
MC1316	EXH. INT.			209 204				.284 .282	.483 .480	118 118	1.7-1	Hyd Hyd
MC1317	INT. EXH.			197 209				.292 .292	.496 .496	123 116		Hyd Hyd
MC1318	EXH. INT.											
MC1319	INT. EXH.											
MC1320	EXH. INT.			194 191				.285 .276	.428 .414	116 106	1.5-1	Hyd Hyd
MC1328	EXH. INT.											
MC1329	EXH. INT.											
MC1330	EXH. INT.											
MC1331	INT. EXH.											
MC1334	INT. EXH.			188 194				.274 .278	.411 .417	116 107		Hyd.
MC1335	INT. EXH.			202 208				.299 .306	.449 .460	116 117		Hyd.
MC1336	INT. EXH.			201 208				.297 .306	.446 .459	117 117		Hyd.
MC1337	INT. EXH.			191 195				.276 .285	.414 .428	106 116		Hyd.
MC1338	EXH. INT.											
MC1339	INT. EXH.											
MC1344	INT. EXH.											
MC1345	INT.											

CAMSHAFT SPECIFICATIONS (Cont.)

Part No.	EXH.	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							
MC1351	EXH.											
MC1352	EXH.			188				.295				
	INT.			193				.259				
MC1353	EXH.			193				.259				
	INT.			188				.259				
MC1360	INT.			214				.267				
	EXH.			267				.221				
MC1361	INT.			214				.267				
	EXH.			210				.221				
MC1362	INT.	-15.5 BTC	32.5 ABC	197	15.5 BTC	75.5 ABC	271	.272	.409	113.75	1.5	HYD
	EXH.	30 BBC	-13 ATC	197	61 BBC	30 ATC	271	.272	.409	112		HYD
MC1364	INT.			159				0.1776				
	EXH.			175				0.17904				
MC1365	EXH.			212				0.2897				
	INT.			176				0.3170				
MC1374	INT.											
	EXH.											
MC1375	INT.											
	EXH.											
MC1376	EXH.			190				.259	0.414	105		HYD
	INT.			188				.255	0.408	110		HYD
MC1377	INT.			188				.255	0.408	110		HYD
	EXH.			190				.259	0.414	105		HYD
MC1378	INT.											
	EXH.											
MC1379	EXH.											
	INT.											
MC1382	INT.											
	EXH.											
MC762	INT.	-20 BTC	31 ABC	191	12 BTC	79 ABC	271	.259	.390	115		HYD
	EXH.	30 BBC	-19 ATC	191	62 BBC	29 ATC	271	.259	.390	115		HYD
MC769	INT.			232				.292		101		0.008
	EXH.			232				.292		101		
MC794	INT.			224				.259				MECH
	EXH.			224				.259				MECH
MC797	EXH.	26 BBC	14 BTC	192			276	.230	.403	110	1.75	HYD
	INT.	17 ATC	29 ABC	192			276	.230	.403	113		HYD
MC803	INT.			189				.250		109		MECH
	EXH.			193				.256		109		
MC809	INT.	-12 BTC	29 ABC	197	17 BTC	73 ABC	270	.265	.397	112	1.5	HYD
	EXH.	32 BBC	-15 ATC	197	61 BBC	29 ATC	270	.265	.397	112		HYD
MC810	EXH.			230				.293		100		
	INT.			230				.293		100		HYD
MC814	EXH.	37 BBC	-17 ATC	200	61 BBC	35 ATC	294	.254	.381	117		HYD
	INT.	-4 BTC	20 ABC	196	31 BTC	64 ABC	276	.246	.369	102		HYD
MC816	INT.			222				.281				0.006
	EXH.			223				.283				0.006
MC817	INT.			220				.278				HYD
	EXH.			219				.279				HYD
MC820	INT.			220				.276				HYD
	EXH.			220				.276				HYD
MC821	EXH.			216			234	.250	.416	120	1.7	HYD
	INT.			202			240	.235	.390	120		HYD
MC822	EXH.			220				.276				HYD
	INT.			220				.276				HYD
MC830	INT.			164				.212				HYD
	EXH.			166				.214				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								
MC831	INT.			200			241						HYD
	EXH.												HYD
MC832	INT.												HYD
	EXH.			200			241		.350				HYD
MC835	INT.	23 BTC	22 ABC	188			254	.216	.356	108	1.6		HYD
	EXH.	29 BBC	14 ATC	188			254	.216	.355	116			HYD
MC836	INT.	19 BTC	24 ABC	193			276	.245	.392	107			HYD
	EXH.	32 BBC	19 ATC	193			276	.245	.392	116			HYD
MC839	INT.			204				.225					MECH
	EXH.			203				.225					MECH
MC840	EXH.			206				.220		122			
	INT.			206				.220		122			0.012
MC841	INT.			205				.237					HYD
	EXH.			205				.237					HYD
MTA-1	INT.	3o ATC	27o ABC	204	30o BTC	70o ABC	280	.280	.448	105o			HYD.
	EXH.	42o BBC	8o BTC	214	75o BBC	35o ATC	290	.295	.472	115o			HYD.
MTB-1	INT.	5o ATC	29o ABC	204	28o BTC	72o ABC	280	.280	.448	107			HYD.
	EXH.	44o BBC	10o BTC	214	77o BBC	33o ATC	290	.295	.472	117			HYD.
MTB-2	INT.	12o ATC	26o ABC	194	21o BTC	69o ABC	270	.265	.424	109			HYD.
	EXH.	41o BBC	17o BTC	204	74o BBC	26o ATC	280	.280	.448	119			HYD.
MTC-1	EXH.			214			288	.295	.433	117			HYD.
	INT.	5o ATC	29o ABC	204	27o BTC	71o ABC	278	.280	.420	107	1.5		HYD.
MTC-5	EXH.	44o BBC	10o BTC	214	76o BBC	32o ATC	288	.295	.443	117			HYD.
	INT.	5o ATC	29o ABC	204	27o BTC	71o ABC	278	.280	.420	107			HYD.
MTC-6	EXH.	40o BBC	12o BTC	208	86o BBC	32o ATC	298	.270	.459	116	1.7		HYD.
	INT.	6o ATC	30o ABC	204	36o BTC	72o ABC	288	.270	.459	108			HYD.
MTD-1	INT.	5o ATC	29o ABC	204	27o BTC	71o ABC	278	.280	.420	107	1.5		HYD.
	EXH.	44o BBC	10o BTC	214	76o BBC	32o ATC	288	.295	.443	117			HYD.
MTD-2	INT.	5o ATC	29o ABC	204	27o BTC	71o ABC	278	.280	.420	107			HYD.
	EXH.	44o BBC	10o BTC	214	76o BBC	32o ATC	288	.295	.443	117			HYD.
MTF-1	EXH.	44o BBC	10o BTC	214	77o BBC	33o ATC	290	.295	.472	117	1.6		HYD.
	INT.	5o ATC	29o ABC	204	28o BTC	72o ABC	280	.280	.448	107			HYD.
MTF-2	INT.	5o ATC	29o ABC	204	29o BTC	73o ABC	282	.280	.484	107	1.73		HYD.
	EXH.	44o BBC	10o BTC	214	78o BBC	34o ATC	292	.295	.510	117			HYD.
MTF-3	INT.	5o ATC	29o ABC	204	29o BTC	73o ABC	282	.280	.485	107	1.75		HYD.
	EXH.	44o BBC	10o BTC	214	78o BBC	34o ATC	292	.295	.511	117			HYD.
MTF-4	EXH.	44o BBC	10o BTC	214	78o BBC	34o ATC	292	.295	.510	117	1.73		HYD.
	INT.	5o ATC	29o ABC	204	29o BTC	73o ABC	282	.280	.484	107			HYD.
MTF-5	EXH.	44o BBC	10o BTC	214	77o BBC	33o ATC	290	.295	.472	117	1.6		HYD.
	INT.	5o ATC	29o ABC	204	28o BTC	72o ABC	280	.280	.448	107			HYD.
MTF-6	EXH.	44o BBC	10o BTC	214	77o BBC	33o ATC	290	.296	.475	114			HYD.
	INT.	5o ATC	29o ABC	204	28o BTC	72o ABC	280	.281	.451	106			HYD.
MTO-1	INT.	5o ATC	29o ABC	204	28o BTC	72o ABC	280	.280	.448	107			HYD.
	EXH.	44o BBC	10o BTC	214	77o BBC	33o ATC	290	.295	.472	117			HYD.
MTP-1	EXH.			214			288	.295	.443	118	1.5		HYD.
	INT.	3o ATC	27o ABC	204	29o BTC	69o ABC	278	.280	.420	108			HYD.
MTP-2	EXH.	44o BBC	10o BTC	214	78o BBC	34o ATC	292	.295	.516	117	1.75		HYD.
	INT.	5o ATC	29o ABC	204	29o BTC	73o ABC	282	.280	.490	107			HYD.
ROC-10	INT.	9 BTC	43 ABC	232	4 BTC	101 ABC	329	.296	.474	107	1.6		HYD
	EXH.	55 BBC	-3 ATC	232	94 BBC	55 ATC	329	.296	.474	119			HYD
RVO-D	EXH.												
	INT.												
SBC-11	EXH.	16 BBC	-14 ATC	182	54 BBC	34 ATC	262	.216	.324	106	1.5		HYD
	INT.	-19 BTC	12 ABC	173	14 BTC	52 ABC	242	.207	.310	105			HYD
SBC-12	INT.	-14 BTC	14 ABC	180	17 BTC	54 ABC	251	.224	.359	104	1.6		HYD
	EXH.	28 BBC	-14 ATC	194	69 BBC	31 ATC	280	.240	.384	110			HYD
SBC-13	INT.	-15 BTC	29 ABC	194	19 BTC	74 ABC	272	.251	.401	112			HYD
	EXH.	28 BBC	-14 ATC	194	69 BBC	31 ATC	280	.240	.384	110			HYD
SBC-14	INT.	-8 BTC	21 ABC	193	30 BTC	72 ABC	282	.250	.400	104			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
	EXH.	Opens	Closes	Duration	Opens	Closes	Duration					
SBC-15	EXH.	28 BBC	-12 ATC	196	66 BBC	30 ATC	276	.264	.422	110		HYD
	INT.	-14 BTC	14 ABC	180	17 BTC	54 ABC	251	.224	.358	104		HYD
SBC-16	EXH.	28 BBC	-14 ATC	194	68 BBC	31 ATC	280	.240	.384	110		HYD
	INT.	-14 BTC	14 ABC	180	17 BTC	54 ABC	251	.224	.358	104		HYD
SBC-3	INT.	-9 BTC	36 ABC	207	23 BTC	81 ABC	284	.269	.430	112		HYD
	EXH.	39 BBC	-12 ATC	207	71 BBC	33 ATC	284	.269	.430	116		HYD
SBC-4	INT.	-18 BTC	32 ABC	194	11 BTC	91 ABC	282	.244	.388	114		HYD
	EXH.	52 BBC	-7 ATC	225	95 BBC	53 ATC	328	.285	.453	120		HYD
SBC-5	INT.	12 BTC	24 ABC	189			276	.242	.363	109	1.5	HYD
	EXH.	40 BBC	15 ATC	208			297	.252	.378	116		HYD
SBC-8	INT.	-15 BTC	29 ABC	194	18 BTC	74 ABC	272	.251	.391	112	1.6	HYD
	EXH.	31 BBC	-12 ATC	194	66 BBC	37 ATC	283	.244	.401	112		HYD
SBOT-1	EXH.			196			276	.251	.401	112		HYD
	INT.			196			276	.251	.401	106		HYD
SDC-1	EXH.			200			285	.276				.010
	INT.			181			285	.276				.012
SDC-3	EXH.			219				.289				MECH
	INT.			219				.289				MECH
SDC-4	EXH.			175				.232				0.014
	INT.			171				.222				0.014
SDC-5	EXH.											
	INT.											
SDC-6	EXH.			205				.223				0.011
	INT.			206				.233				0.011
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	EXH.	38 BBC	-22 ATC	196	7 BBC	17 ATC	268	.244	.390	111		HYD
	INT.	-41 BTC	57 ABC	196	-13 BTC	10 ABC	268	.244	.390	129		HYD
SFP-4	INT.	-7 BTC	29 ABC	202	13 BTC	65 ABC	258	.256	.384	108	1.5	HYD
	EXH.	35 BBC	-13 ATC	202	53 BBC	14 ATC	247	.256	.384	114		HYD
SFP-5	EXH.	38 BBC	6 ATC	206			206	.232	.341	115		0.01
	INT.	12 BTC	28 ABC	192			202	.236	.340	107		0.017
SGM-1	INT.	18 BTC	24 ABC	186			252	.279	.419	111		0.02
	EXH.	33 BBC	8 ATC	205			277	.278	.407	112		0.012
SIH-1	INT.	21 BTC	25 ABC	188			260	.262	.445	111	1.7	HYD
	EXH.	19 BBC	17 ATC	198			252	.236	.428	110		HYD
SIH-3	EXH.	29 BBC	-11 ATC	198	62 BBC	22 ATC	264	.265	.440	110		0.025
	INT.	-12 BTC	14 ABC	182	19 BTC	45 ABC	244	.265	.440	103		0.025
SIH-5	EXH.	24 BBC	-10 ATC	194	64 BBC	30 ATC	274	.272	.435	107	1.6	HYD
	INT.	-21 BTC	35 ABC	194	19 BBC	75 ABC	274	.272	.435	118		HYD
SIH-6	EXH.	17 BBC	-13 ATC	184			210	.253	.405	105		HYD
	INT.	-15 BTC	11 ABC	176			174	.254	.406	103		HYD
SOC-10	INT.	-16 BTC	16 ABC	180	18 BTC	58 ABC	256	.247	.395	106		HYD
	EXH.	25 BBC	-18 ATC	187	63 BBC	34 ATC	277	.250	.400	112		HYD
SOC-12	INT.	-14 BTC	6 ABC	172	20 BTC	48 ABC	248	.235	.376	100		HYD
	EXH.	30 BBC	-18 ATC	192	67 BBC	27 ATC	274	.235	.376	114		HYD
SOC-14	INT.	-22 BTC	11 ABC	178	17 BTC	52 ABC	249	.247	.395	102		HYD
	EXH.	29 BBC	-13 ATC	187	60 BBC	16 ATC	256	.251	.401	116		HYD
SOC-9	EXH.	34 BBC	-14 ATC	200	73 BBC	38 ATC	291	.251	.401	112		HYD
	INT.	-13 BTC	20 ABC	187	25 BTC	72 ABC	277	.250	.400	106		HYD
SPC-10	EXH.	25 BBC	-15 ATC	190	68 BBC	28 ATC	276	.232	.406	110	1.75	HYD
	INT.	-18 BTC	28 ABC	190	25 BTC	71 ABC	276	.232	.406	113		HYD
SPC-11	EXH.	14 BBC	-13 ATC	181	40 BBC	36 ATC	256	.233	.349	104	1.5	HYD
	INT.	-18 BTC	19 ABC	181	8 BTC	68 ABC	256	.233	.349	108		HYD
SPC-12	INT.	-11 BTC	40 ABC	209	19 BTC	93 ABC	292	.252	.378	115		HYD
	EXH.	26 BBC	-17 ATC	189	54 BBC	30 ATC	264	.243	.364	112		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					
SPC-13	INT.	-18 BTC	28 ABC	190	25 BTC	71 ABC	276	.232	.405	113	1.75	HYD
	EXH.	25 BBC	-13 ATC	190	69 BBC	28 ATC	276	.232	.405	110		HYD
SPC-15	INT.			202			247	.240	.408		1.7	HYD
	EXH.			201				.239	.406			
SPC-16	INT.	-14 BTC	14 ABC	223	17 BTC	54 ABC	270	.251	.417	123		.009
	EXH.	28 BBC	-14 ATC	223	68 BBC	31 ATC	265	.253	.421	123		.009
SPC-17	INT.	-19 BTC	27 ABC	188	23 BTC	67 ABC	270	.231	.404	113	1.75	HYD
	EXH.	24 BBC	-16 ATC	188	66 BBC	24 ATC	270	.231	.404	110		HYD
SPC-18	EXH.	24 BBC	-16 ATC	188	66 BBC	24 ATC	270	.231	.404	110		HYD
	INT.	-19 BTC	27 ABC	188	23 BTC	67 ABC	270	.231	.404	113		HYD
SPC-19	EXH.			214				.262				
	INT.			214			252	.262			1.7	HYD
SPC-2	EXH.	28 BBC	-14 ATC	190	69 BBC	31 ATC	280	.240	.384	110	1.6	HYD
	INT.	-15 BTC	29 ABC	190	18 BTC	74 ABC	280	.251	.402	112		HYD
SPC-3	INT.	0 BTC	44 ABC	224	29 BTC	88 ABC	297	.270	.406	112	1.5	HYD
	EXH.	57 BBC	-1 ATC	236	86 BBC	44 ATC	310	.271	.407	119		HYD
SPC-4	EXH.	40 BBC	-12 ATC	208	68 BBC	32 ATC	280	.272	.408	116		HYD
	INT.	-7 BTC	25 BBC	198	21 BTC	70 ABC	271	.270	.404	106		HYD
SPC-5	INT.	-6 BTC	26 ABC	200	26 BTC	78 ABC	284	.271	.407	106		HYD
	EXH.	41 BBC	-11 ATC	210	73 BBC	40 ATC	293	.274	.411	116		HYD
SPC-7	INT.	-7 BTC	39 ABC	212	21 BTC	84 ABC	285	.272	.408	113		HYD
	EXH.	50 BBC	-5 ATC	225	80 BBC	38 ATC	298	.271	.406	118		HYD
SPC-8	INT.	3 BTC	48ABC	231	32 BTC	92 ABC	304	.313	.469	112		HYD
	EXH.	54 BBC	6 ATC	240	84 BBC	51 ATC	315	.313	.469	115		HYD
SPC-9	EXH.	24 BBC	-15 ATC	189	52 BBC	32 ATC	264	.243	.364	110		HYD
	INT.	-11 BTC	20 ABC	189	17 BTC	67 ABC	264	.243	.364	105		HYD
SPD-11	EXH.	40 BBC	-11 ATC	209	74 BBC	39 ATC	293	.287	.431	116		HYD
	INT.	-7 BTC	33 ABC	206	22 BTC	74 BBC	284	.289	.434	110		HYD
SPD-16	INT.	-10 BTC	23 ABC	193	21 BTC	68 ABC	269	.238	.357	106		HYD
	EXH.	27 BBC	-13 ATC	194	64 BBC	28 ATC	272	.238	.357	110		HYD
SPD-20	EXH.	24 BBC	-12 ATC	192	57 BBC	38 ATC	275	.266	.399	108		HYD
	INT.	-20 BTC	20 ABC	180	12 BTC	72 ABC	264	.248	.372	110		HYD
SPD-22	EXH.	46 BTC	-6 ATC	220	79 BBC	30 ATC	289	.296	.444	116		HYD
	INT.	-8 BTC	37 ABC	209	20 BTC	79 ABC	279	.286	.429	112		HYD
SPD-24	INT.	-10 BTC	23 ABC	193	21 BTC	68 ABC	269	.240	.360	106	15	HYD
	EXH.	27 BBC	-13 ATC	194	64 BBC	28 ATC	272	.240	.360	110		HYD
SPD-25	INT.	-7 BTC	29 ABC	203	22 BTC	76 ABC	278	.273	.409	108	1.5	HYD
	EXH.	31 BBC	-9 ATC	203	61 BBC	37 ATC	278	.273	.409	111		HYD
SPD-27	INT.	-15 BTC	22 ABC	187	10 BTC	64 ABC	254	.252	.378	108		HYD
	EXH.	15 BBC	-8 ATC	187	40 BBC	34 ATC	254	.252	.378	102		HYD
SPD-28	INT.	5 BTC	32 ABC	217	27 BTC	68 ABC	274	.243	.437	112	1.8	HYD
	EXH.	41 BBC	-4 ATC	217	63 BBC	30 ATC	274	.243	.437	104		HYD
SPD-29	EXH.	41 BBC	-4 ATC	217	63 BBC	30 ATC	273	.243	.437	104		HYD
	INT.	5 BTC	32 ABC	217	27 BTC	66 ABC	273	.243	.437	112		HYD
SPD-3	EXH.	33 BBC	-10 ATC	203	56 BBC	24 ATC	260	.275	.412	112	1.5	0.01
	INT.	-8 BTC	26 ABC	198	21 BTC	70 ABC	271	.270	.405	106		0.012
SPD-30	INT.	5 BTC	28 ABC	213	29 BTC	59 ABC	268	.243	.437		1.8	HYD
	EXH.	45 BBC	-12 ATC	213	69 BBC			.243	.437			
SPD-31	EXH.	50 BBC	-5 ATC	225	83 BBC	61 ATC	324	.306	.459	115	1.5	HYD
	INT.	-6 BTC	39 ABC	213	26 BTC	96 ABC	302	.298	.447	111		HYD
SPD-32	EXH.			232				.293		101		
	INT.			232				.293		101		.008
SPD-33	EXH.	45 BBC	12 BTC	213			268	.243	.437	110	1.8	HYD
	INT.	5 BTC	28 ABC	213			268	.243	.437	110		HYD
SPD-34	EXH.			190			264	.245	.433	113		HYD
	INT.			194			267	.245	.433	113		HYD
SPD-35	INT.			194			267	.245	.441			HYD
	EXH.			190				.245	.441			
SRC-5	INT.	-11 BTC	27ABC	196	14 BTC	68 ABC	263	.266	.425	109	1.6	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
	EXH.	Opens	Closes	Duration	Opens	Closes	Duration					
SRC-6	EXH.	30 BBC	-14 ATC	196	56 BBC	26 ATC	263	.266	.425	112		HYD
	INT.	23 BBC	-18 ATC	185	53 BBC	25 ATC	259	.254	.406	111		HYD
SRC-8	EXH.	-17 BTC	22 ABC	185	12 BTC	66 ABC	259	.254	.406	109		HYD
	INT.	-19 BTC	29 ABC	190	9 BTC	73 ABC	262	.252	.403	113		HYD
SRC-9	EXH.	29 BBC	-19 ATC	190	57 BBC	25 ATC	262	.252	.443	115		HYD
	INT.	-17 BTC	33 ABC	196	12 BTC	78 ABC	270	.265	.424	114		HYD
SVO-A	EXH.	27 BBC	-11 ATC	196	56 BBC	34 ATC	270	.265	.424	110		HYD
	INT.	34 BBC	-17 ATC	197	57 BBC	10 ATC	247	.240	.360	113	1.5	0.016
SVW-1	EXH.	-8 BTC	25 ABC	197	18 BTC	55 ABC	253	.240	.360	109		0.018
	INT.			224			298	.405	.405	110	1.0	MECH
SWC-1	EXH.			224			310	.405	.405	110		MECH
	INT.			198			346	.220				0.012
SYB-13	EXH.			204			350	.371				0.018
	INT.	27 BBC	-21 ATC	186	62 BBC	29 ATC	271	.232	.406	114	1.75	HYD
SYB-16	EXH.	-19 BTC	25 ABC	186	16 BTC	75 ABC	271	.232	.406	112		HYD
	INT.	30 BBC	-18 ATC	192	64 BBC	33 ATC	277	.244	.414	114	1.7	HYD
SYB-19	EXH.	-10 BTC	22 ABC	192	24 BTC	73 ABC	277	.244	.414	106		HYD
	INT.	39 BBC	-13 ATC	206	72 BBC	35 ATC	287	.277	.485	116	1.75	HYD
SYB-2	EXH.	-14 BTC	27 ABC	193	18 BTC	75 ABC	273	.253	.442	110		HYD
	INT.	34 BBC	-18 ATC	196			244	.262	.366	116	1.4	0.018
SYB-21	EXH.	-12 BTC	29 ABC	197			254	.262	.366	110		0.018
	INT.	29 BBC	-11 ATC	198	65 BBC	43 ATC	291	.250	.425	111	1.7	HYD
SYB-22	EXH.	-13 BTC	25 ABC	192	19 BTC	73 ABC	272	.247	.419	109		HYD
	INT.	28 BBC	-15 ATC	200	59 BBC	34 ATC	273	.252	.428	111		HYD
SYB-23	EXH.	-11 BTC	24 ABC	200	70 BTC	73 ABC	273	.252	.428	108		HYD
	INT.	31 BBC	-12 ATC	199	65 BBC	38 ATC	281	.249	.435	111	1.75	HYD
SYB-24	EXH.	-17 BTC	29 ABC	192	15 BTC	78 ABC	273	.247	.432	113		HYD
	INT.	-6 BTC	21 ABC	194	24 BTC	66 ABC	270	.260	.416	103	1.6	HYD
SYB-25	EXH.	29 BBC	-5 ATC	194	59 BBC	31 ATC	270	.260	.416	112		HYD
	INT.	12 BBC	-8 ATC	189	45 BBC	40 ATC	265	.238	.380	104		HYD
SYB-26	EXH.	-22 BTC	26 ABC	184	22 BTC	70 ABC	272	.230	.368	114		HYD
	INT.	27 BBC	-15 ATC	192	58 BBC	31 ATC	269	.247	.395	111		HYD
SYB-27	EXH.	-13 BTC	16 ABC	183	17 BTC	60 ABC	257	.237	.379	104		HYD
	INT.											
SYB-29	EXH.											
	INT.	44 BBC	-3 ABC	221	81 BBC	48 ATC	307	.283	.481	110	1.7	HYD
SYB-30	EXH.	-17 BTC	43 ABC	206	16 BTC	91 ABC	287	.278	.472	120		HYD
	INT.	-15 BTC	32 ABC	197	18 BTC	82 ABC	280	.260	.416	114	1.6	HYD
SYB-31	EXH.	38 BBC	-9 ATC	209	71 BBC	42 ATC	293	.278	.443	114		HYD
	INT.	25 BTC	71 ABC	185	21 BTC	70 ABC	259	.225	.382	106	1.7	HYD
SYB-32	EXH.	69 BBC	27 ATC	193	64 BBC	27 ATC	275	.229	.389	117		HYD
	INT.	34 BBC	-13 ATC	201	70 BBC	25 ATC	275	.241	.409	114		HYD
SYB-33	EXH.	-14 BTC	19 ABC	185	14 BTC	72 ABC	266	.240	.408	106		HYD
	INT.	-14 BTC	19 ABC	185	14 BTC	72 ABC	266	.240	.408	106		HYD
SYB-35	EXH.	34 BBC	-13 ATC	201	70 BBC	25 ATC	275	.241	.409	114		HYD
	INT.	47 BBC	-6 ATC	221	82 BBC	42 ATC	304	.283	.453	113	1.6	HYD
SYB-36	EXH.	-14 BTC	40 ABC	206	18 BTC	85 ABC	283	.278	.445	117		HYD
	INT.	35 BBC	-8 ATC	207			274	.264	.396	112	1.5	0.014
SYB-37	EXH.	-5 BTC	32 ABC	207			274	.264	.396	108		0.016
	INT.	-23 BTC	30 ABC	187	4 BTC	64 ABC	248	.237	.379	106	1.6	HYD
SYB-38	EXH.	40 BTC	-31 ATC	189	70 BBC	-1 ATC	249	.238	.380	116		HYD
	INT.	-12 BTC	24 ABC	192	20 BTC	70 ABC	274	.265	.424	108		HYD
SYB-39	EXH.	30 BBC	-18 ATC	192	62 BBC	28 ATC	288	.265	.424	114		HYD
	INT.	-8 BTC	28 ABC	200	21 BTC	68 ABC	269	.239	.382	108		HYD
SYB-40	EXH.	34 BBC	-14 ATC	200	63 BBC	26 ATC	269	.239	.382	114		HYD
	INT.											
SYB-41	EXH.							.229				
	INT.							.225			1.7	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					
SYB-43	INT.	-12 BTC	16 ABC	184	20 BTC	64 ABC	264	.237	.402	104		HYD
	EXH.	27 BBC	-15 ATC	192	61 BBC	33 ATC	274	.247	.419	111		HYD
SYB-44	EXH.	45 BBC	7 ATC	208			275	.265	.424	121	1.6	HYD
	INT.	16 BTC	36 ABC	208			275	.265	.424	111		HYD
SYB-45	EXH.	30 BBC	14 ATC	190			244	.240	.398	116		HYD
	INT.	19 BTC	25 ABC	190			244	.240	.398	108		HYD
SYB-46	EXH.	25 BBC	19 ATC	190			191	.240	.398	111		HYD
	INT.	14 BTC	30 ABC	190			191	.240	.398	113		HYD
SYB-47	INT.	14 BTC	30 ABC	190			258	.240	.384	113		HYD
	EXH.	25 BBC	19 ATC	190			258	.240	.384	111		HYD
SYB-48	INT.			202				.250	.392	113	1.57	HYD
	EXH.			190				.239	.375	113		HYD
SYB-49	EXH.	35 BBC	9 ATC	203			270	.263	.423	111	1.6	HYD
	INT.	12 BTC	32 ABC	203			270	.263	.423	111		HYD
SYB-50	INT.	18 BTC	30 ABC	199			272	.260	.419	110		HYD
	EXH.	37 BBC	11 ATC	199			272	.260	.419	118		HYD
SYB-51	EXH.	40 BBC	10 ATC	210			279	.278	.445	115		HYD
	INT.	10 BTC	40 ABC	210			279	.278	.445	115		HYD
SYB-8	INT.	-15 BTC	21 ABC	186	19 BTC	71 ABC	270	.232	.394	108	1.7	HYD
	EXH.	26 BBC	-20 ATC	186	60 BBC	30 ATC	270	.232	.394	113		HYD
SYB-9	INT.	-10 BTC	17 ABC	187	18 BTC	63 ABC	261	.238	.380	103	1.6	HYD
	EXH.	26 BBC	-19 ATC	187	54 BBC	27 ATC	261	.238	.380	113		HYD
TSC-1	INT.			212			244	.262	.393		1.5	0.014
	EXH.			224				.264	.396			
TSC-5	INT.											
	EXH.											
TSC-6	INT.			191				.197				0.012
	EXH.			191				.197				0.008
TSC-7	INT.											
	EXH.											
TSC-8	INT.											
	EXH.											

CAMSHAFT SPECIFICATIONS

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					
20402	INT.	10 BTC	44 ABC	234	42 BTC	84 ABC	306	.325	.520	107	1.6	HYD.
	EXH.	59 BBC	5 ATC	244	91 BBC	45 ATC	316	.339	.542	117		HYD.
21206	EXH.	49 BBC	5 BTC	224	82 BBC	38 ATC	300	.310	.496	117		HYD.
	INT.	5 TDC	39 ABC	224	38 BTC	82 ABC	300	.310	.496	107		HYD.
21300	EXH.	59 BBC	5 ATC	244	91 BBC	45 ATC	316	.339	.542	117		HYD.
	INT.	10 BTC	44 ABC	234	42 BTC	84 ABC	306	.325	.520	107		HYD.
22100	INT.	11 ATC	23 ABC	192	25 ATC	20 ABC	268	.234	.398	107	1.7	HYD.
	EXH.	37 BBC	14 BTC	203	68 BBC	69 ATC	278	.253	.430	117		HYD.
22107	EXH.			208			280	.272	.408	113	1.5	HYD.
	INT.			208			280	.272	.408	107		HYD.
22108	EXH.			194			270	.265	.398	104		HYD.
	INT.			184			260	.245	.388	104		HYD.
22109	EXH.			204			278	.280	.420	104		HYD.
	INT.	7 ATC	21 ABC	194	26 BTC	64 ABC	270	.265	.398	104		HYD.
22110	INT.	8 ATC	32 ABC	204	24 BTC	74 ABC	278	.280	.420	110		HYD.
	EXH.			214			288	.295	.443	110		HYD.
22111	EXH.			204			278	.281	.422	117		HYD.
	INT.			194			270	.265	.398	107		HYD.
22113	EXH.			204			278	.288	.420	117		HYD.
	INT.	7 ATC	21 ABC	194	26 BTC	64 ABC	270	.265	.398	104		HYD.
22114	INT.			208			280	.280	.420	106		HYD.
	EXH.			208			280	.280	.420	116		HYD.
22115	EXH.			216			286	.303	.455	117		HYD.
	INT.			210			283	.290	.435	107		HYD.
22116	EXH.	25 BBC	15 BTC	190	69 BBC	28 ATC	277	.232	.406	110	1.75	HYD.
	INT.	18 ATC	28 ABC	190	26 BTC	71 ABC	277	.232	.406	113		HYD.
22117	EXH.	36 BBC	12 BTC	204	68 BBC	32 ATC	280	.253	.443	115		HYD.
	INT.	8 ATC	32 ABC	204	24 BTC	76 ABC	280	.253	.443	109		HYD.
22118	INT.	17 ATC	29 ABC	192	32 BTC	78 ABC	290	.230	.403	113		HYD.
	EXH.	26 BBC	14 BTC	192	75 BBC	35 ATC	290	.230	.403	110		HYD.
22119	INT.	7 ATC	29 ABC	202	21 BTC	70 ABC	271	.269	.404	108	1.5	HYD.
	EXH.	41 BBC	8 BTC	213	70 BBC	34 ATC	284	.276	.414	116		HYD.
22120	EXH.	41 BBC	8 BTC	213	70 BBC	34 ATC	284	.276	.414	116		HYD.
	INT.	7 ATC	29 ABC	202	21 BTC	70 ABC	271	.269	.404	108		HYD.
22121	INT.	9 ATC	31 ABC	202	17 BTC	72 ABC	269	.269	.404	110		HYD.
	EXH.	37 BBC	10 BTC	207	63 BBC	28 ATC	271	.276	.414	114		HYD.
22123	INT.	10 ATC	33 ABC	203	18 BTC	73 ABC	271	.273	.410	111		HYD.
	EXH.	41 BBC	7 BTC	214	69 BBC	36 ATC	285	.273	.410	115		HYD.
22124	INT.	7 ATC	29 ABC	202	20 BTC	71 ABC	271	.267	.401	108		HYD.
	EXH.	37 BBC	4 BTC	213	65 BBC	38 ATC	283	.273	.410	112		HYD.
22125	EXH.	37 BBC	4 BTC	213	65 BBC	38 ATC	283	.273	.410	112		HYD.
	INT.	7 ATC	29 ABC	202	20 BTC	71 ABC	271	.267	.401	108		HYD.
22126	EXH.			214			288	.294	.441	117		HYD.
	INT.			194			268	.265	.398	107		HYD.
22127	INT.			190			261	.258	.439	106	1.7	HYD.
	EXH.			202			272	.273	.464	114		HYD.
22128	EXH.			214			277	.325	.487	117		HYD.
	INT.			210			273	.319	.478	107		HYD.
22129	INT.	9 BTC	27 ABC	198	27 BTC	66 ABC	273	.434	.502	108	1.5	HYD.
	EXH.	45 BBC	-11 ATC	210	78 BBC	78 ATC	288	.462	.496	116		HYD.
22131	INT.	-1 BTC	31 ABC	210	36 BTC	72 ABC	288	.462	.463	106		HYD.
	EXH.	41 BBC	-6 ATC	215	72 BBC	32 ATC	284	.469	.470	114		HYD.
22200	INT.	1 BTC	41 ABC	222	30 BTC	80 ABC	290	.298	.447	110		HYD.
	EXH.	49 BBC	7 BTC	222	78 BBC	32 ATC	290	.298	.447	118		HYD.
22201	EXH.			223			291	.333	.566	118	1.7	HYD.
	INT.			223			291	.333	.566	110		HYD.
22203	EXH.			224			298	.310	.465	117	1.5	HYD.
	INT.	0 TDC	34 ABC	214	32 BTC	76 ABC	288	.295	.443	107		HYD.
22204	EXH.	49 BBC	5 BTC	224	83 BBC	39 ATC	302	.310	.527	117	1.7	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					
22210	INT.	0 TDC	34 ABC	214	34 BTC	78 ABC	292	.295	.502	107		HYD.
	EXH.	46 BBC	2 BTC	224	75 BBC	32 ATC	287	.307	.461	114	1.5	HYD.
22213	INT.	3 ATC	47 ABC	224	27 BTC	84 ABC	291	.300	.450	114		HYD.
	EXH.			214			288	.295	.443	107		HYD.
22214	INT.	2 ATC	36 ABC	214	32 BTC	80 ABC	292	.295	.502	109	1.7	HYD.
	EXH.	46 BBC	12 BTC	214	80 BBC	32 ATC	292	.295	.502	119		HYD.
22215	INT.	2 BTC	38 ATC	220	32 BTC	83 ABC	295	.286	.429	108	1.5	HYD.
	EXH.			220			295	.286	.429	112		HYD.
22216	EXH.	49 BBC	11 BTC	218	86 BBC	37 ATC	302	.282	.480	120	1.7	HYD.
	INT.	4 ATC	38 ABC	214	29 BTC	81 ABC	289	.271	.461	110		HYD.
22217	INT.	4 ATC	39 ABC	215	28 BTC	81 ABC	289	.272	.462	110		HYD.
	EXH.	49 BBC	10 BTC	219	86 BBC	36 ATC	301	.283	.481	120		HYD.
22218	EXH.	49 BBC	10 BTC	219	86 BBC	36 ATC	301	.283	.481	120		HYD.
	INT.	4 ATC	39 ABC	215	28 BTC	81 ABC	289	.272	.462	110		HYD.
22219	INT.	3 ATC	47 ABC	224	29 BTC	85 ABC	293	.300	.510	114		HYD.
	EXH.	48 BBC	4 BTC	224	80 BBC	34 ATC	293	.300	.510	117		HYD.
22220	EXH.	48 BBC	4 BTC	224	80 BBC	34 ATC	293	.300	.510	117		HYD.
	INT.	3 ATC	47 ABC	224	29 BTC	85 ABC	293	.300	.510	114		HYD.
22221	EXH.	36BBC	-10ATC	206	64BBC	62ABC	276	.300	.450	114	1.5	HYD
	INT.			197			261	.289	.433	105		HYD
22222	INT.	-7 BTC	29 ABC	202	22 BTC	70 ABC	272	.269	.403	108		HYD
	EXH.	41 BBC	-8 ATC	213	70 BBC	36 ATC	286	.273	.409	116		HYD
22223	EXH.			224				.284	.483	118	1.7-1	Hyd
	INT.			224				.284	.483	113		Hyd
22230	EXH.			214			287	.296	.444	115	1.5	HYD
	INT.			214			287	.296	.444	105		HYD
22232	INT.			220			304	.312	.468	106		HYD
	EXH.			231			287	.320	.480	114		HYD
22233	EXH.			224			300	.291	.437	109		HYD
	INT.			224			300	.291	.437	107		HYD
22234	INT.			224			283	.320	.480	107		HYD
	EXH.			230			291	.324	.486	113		HYD
22280	INT.			220			283	.330	.495	107		HYD
	EXH.			224			287	.335	.502	113		HYD
22296	INT.	0 TDC	42 ABC	222	33 BTC	93 ABC	306	.294	.500	110	1.7	HYD.
	EXH.	57 BBC	2 BTC	235	95 BBC	47 ATC	322	.297	.505	120		HYD.
22297	EXH.	50 BBC	-2 ATC	228	86 BBC	34 ATC	300	.510	.532	116		HYD
	INT.	0 BTC	36 ABC	216	36 BTC	72 ABC	288	.501	.509	108		HYD
22298	EXH.	55 BBC	-3 ATC	232	89 BBC	38 ATC	307	.500	.510	119	1.5	HYD
	INT.	2 BTC	40 ABC	222	36 BTC	81 ABC	297	.478	.501	109		HYD
22301	INT.	8 BTC	42 ABC	230	34 BTC	73 ABC	287	.320	.480	107		HYD.
	EXH.	46 BBC	4 ATC	230	72 BBC	35 ATC	287	.320	.480	111		HYD.
22302	INT.	9 BTC	41 ABC	230	42 BTC	87 ABC	309	.302	.513	106	1.7	HYD.
	EXH.	49 BBC	1 ATC	230	82 BBC	47 ATC	309	.302	.513	114		HYD.
22303	INT.	5 BTC	39 ABC	224	37 BTC	81 ABC	298	.310	.465	107	1.5	HYD.
	EXH.	54 BBC	0 TDC	234	85 BBC	39 ATC	304	.325	.488	117		HYD.
22304	EXH.			234			308	.325	.487	110		HYD
	INT.			232			308	.325	.487	106		HYD
22305	INT.	10 BTC	44 ABC	234	41 BTC	82 ABC	303	.325	.488	107		HYD.
	EXH.	59 BBC	5 ATC	244	90 BBC	43 ATC	316	.339	.509	117		HYD.
22306	EXH.	49 BBC	1 ATC	230	87 BBC	40 ATC	307	.325	.553	118	1.7	HYD.
	INT.	9 BTC	41 ABC	230	36 BTC	86 ABC	302	.311	.529	110		HYD.
22320	EXH.	51 BBC	1 ATC	230	82 BBC	42 ATC	304	.302	.453	116	1.5	HYD.
	INT.	3 BTC	47 ABC	230	34 BTC	90 ABC	304	.302	.453	112		HYD.
22385	EXH.			245				.376	.639	115	1.7	HYD
	INT.			237				.368	.625	109		HYD
22396	INT.	12 BTC	50 ABC	242	41 BTC	88 ABC	309	.306	.520	108		.020
	EXH.	60 BBC	2 ATC	242	83 BBC	32 ATC	295	.306	.520	120		.024

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					
22397	EXH.	56 BBC	2 ATC	238	83 BBC	37 ATC	300	.514	.528	117	1.5	HYD
	INT.	10 BTC	44 ABC	234	37 BTC	79 ABC	296	.537	.528	107		HYD
22398	INT.	10 BTC	44 ABC	234	37 BTC	79 ABC	296	.537	.478	107		HYD
	EXH.	56 BBC	2 ATC	238	83 BBC	37 ATC	300	.514	.500	117		HYD
22400	INT.	19 BTC	58 ABC	257	40 BTC	84 ABC	304	.329	.494	108		.022
	EXH.	70 BBC	20 ATC	270	88 BBC	44 ATC	312	.341	.512	116		.024
22401	INT.	15 BTC	49 ABC	244	46 BTC	88 ABC	314	.340	.510	107		HYD.
	EXH.	63 BBC	11 ATC	254	95 BBC	53 ATC	328	.355	.533	117		HYD.
22402	EXH.	52 BBC	18 ATC	250	70 BBC	42 ATC	290	.347	.520	106		.026
	INT.	14 BTC	46 ABC	240	32 BTC	68 ABC	280	.347	.520	106		.026
22404	EXH.	63 BBC	21 ATC	266	78 BBC	37 ATC	298	.372	.558	111		.026
	INT.	29 BTC	47 ABC	258	44 BTC	63 ABC	290	.360	.540	99		.026
22407	EXH.	64 BBC	16 ATC	260	82 BBC	42 ATC	306	.376	.639	116	1.7	.026
	INT.	16 BTC	54 ABC	250	39 BTC	82 ABC	294	.356	.576	108		.022
22408	EXH.	72 BBC	24 ATC	276	96 BBC	49 ATC	325	.394	.670	108		.026
	INT.	24 ATC	64 ABC	268	52 BTC	93 ABC	325	.382	.649	112		.022
22410	INT.	16 BTC	58 ABC	254	36 BTC	79 ABC	295	.323	.485	110	1.5	.030
	EXH.	64 BBC	10 ATC	254	84 BBC	31 ATC	295	.394	.485	118		.030
22415	EXH.	68 BBC	6 ATC	254	94 BBC	34 ATC	308	.322	.484	122		.025
	INT.	10 BTC	52 ABC	242	33 BTC	82 ABC	295	.305	.458	110		.020
22427	EXH.	70 BBC	20 ATC	270	91 BBC	49 ATC	320	.341	.580	116	1.7	.026
	INT.	22 BTC	62 ABC	264	46 BTC	96 ABC	322	.329	.559	108		.022
22450	INT.	21 BTC	61 ABC	262	42 BTC	87 ABC	309	.341	.512	108	1.5	.022
	EXH.	71 BBC	22 ATC	273	90 BBC	48 ATC	318	.357	.536	116		.024
22460	INT.			246			302	.339	.509	106		HYD
	EXH.			246			302	.339	.509	112		HYD
22470	INT.			255			287					
	EXH.			266			297					
22471	INT.			240			305	.329	.559	110		HYD
	EXH.			246			311	.337	.572	114		HYD
22472	EXH.	54 BBC	11 ATC	245	92 BBC	37 ATC	329	.639	.480	115	1.7	HYD
	INT.	6 BTC	51 ABC	237	49 BTC	106 ABC	335	.625	.480	109		HYD
22480	INT.			241			305	.329	.559	110		HYD
	EXH.			246			310	.336	.572	114		HYD
22485	EXH.	57 BBC	9 ATC	246	96 BBC	48 ATC	324	.578	.462	114		HYD
	INT.	12 BTC	44 ABC	236	52 BTC	84 ABC	316	.561	.435	106		HYD
23103	EXH.	27 BBC	8 BTC	199	61 BBC	41 ATC	282	.274	.411	108	1.5	HYD.
	INT.	15 ATC	33 ABC	198	16 BTC	82 ABC	278	.273	.410	114		HYD.
23104	EXH.	27 BBC	8 BTC	199	61 BBC	41 ATC	282	.274	.411	108		HYD.
	INT.	15 ATC	33 ABC	198	16 BTC	82 ABC	278	.273	.410	114		HYD.
23123	EXH.	36 BBC	12 BTC	204	68 BBC	30 ATC	278	.280	.420	114		HYD.
	INT.	4 ATC	28 ABC	204	28 BTC	70 ABC	278	.280	.420	106		HYD.
23203	INT.	0 TDC	34 ABC	214	32 BTC	76 ABC	288	.295	.443	107		HYD.
	EXH.	49 BBC	5 BTC	224	81 BBC	37 ATC	298	.310	.465	117		HYD.
23204	EXH.	49 BBC	5 BTC	224	81 BBC	37 ATC	298	.310	.465	117		HYD.
	INT.	0 TDC	34 ABC	214	32 BTC	76 ATC	288	.295	.443	107		HYD.
23301	INT.	8 BTC	43 ABC	231	32 BTC	75 ABC	287	.320	.480	107		HYD.
	EXH.	46 BBC	5 ATC	231	70 BBC	37 ATC	287	.320	.480	111		HYD.
23302	INT.	7 BTC	43 ABC	230	37 BTC	83 BTC	300	.320	.480	107		HYD.
	EXH.	45 BBC	5 ATC	230	75 BBC	45 ATC	300	.320	.480	111		HYD.
23401	INT.	12 BTC	50 ABC	242	42 BTC	90 ABC	312	.347	.520	108		HYD.
	EXH.	54 BBC	18 ATC	252	84 BBC	56 ATC	320	.367	.550	110		HYD.
24106	EXH.	28 BBC	16 BTC	192	59 BBC	32 ATC	270	.247	.395	111	1.6	HYD.
	INT.	12 ATC	16 ABC	184	18 BTC	61 ABC	258	.238	.381	103		HYD.
24107	INT.	14 ATC	32 ABC	198	18 BTC	82 ABC	280	.260	.416	114		HYD.
	EXH.	38 BBC	9 BTC	209	70 BBC	42 ATC	292	.278	.445	114		HYD.
24108	EXH.											
	INT.			190				0.257	0.412	106		HYD.
24111	INT.			208			284	.280	.484	107	1.73	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
	EXH.	Opens	Closes	Duration	Opens	Closes	Duration					
	EXH.			208			284	.280	.484	115		HYD
24203	INT.	0 TDC	34 ABC	214	33 BTC	77 ABC	290	.295	.472	107	1.6	HYD.
	EXH.			224			300	.310	.496	117		HYD.
24204	EXH.	49 BBC	5 BTC	224	83 BBC	39 ATC	302	.310	.536	117	1.73	HYD.
	INT.	0 TDC	34 ABC	214	34 BTC	78 ABC	292	.295	.510	107		HYD.
24205	INT.	0 TDC	34 ABC	214	34 BTC	78 ABC	292	.295	.510	107		HYD.
	EXH.	49 BBC	5 BTC	224	83 BBC	39 ATCC	302	.310	.536	117		HYD.
24206	INT.	0 TDC	34 ABC	214	34 BTC	79 ABC	293	.296	.518	107	1.75	HYD.
	EXH.	49 BBC	5 BTC	224	83 BBC	40 ATC	303	.311	.544	117		HYD.
24207	INT.	5 BTC	39 ABC	224	39 BTC	84 ABC	303	.311	.544	107		HYD.
	EXH.	54 BBC	0 TDC	234	87 BBC	41 ATC	308	.325	.569	117		HYD.
24209	INT.	13 ATC	40 ABC	207	17 BTC	85 ABC	282	.278	.445	117	1.6	HYD.
	EXH.	47 BBC	6 BTC	221	83 BBC	41 ATC	304	.283	.453	113		HYD.
24210	INT.			224			300	.311	.498	107		HYD
	EXH.			234			305	.325	.520	117		HYD
24211	INT.	5 BTC	39 ABC	224	37 BTC	81 ABC	298	.310	.496	107		HYD.
	EXH.	54 BBC	0 TDC	234	85 BBC	39 ATCC	304	.325	.520	117		HYD.
24212	INT.	3 BTC	35 ABC	218	38 BTC	80 ABC	298	.288	.461	107		HYD.
	EXH.			218			298	.288	.461	119		HYD
24213	EXH.	50 BBC	10 BTC	220	88 BBC	42 ATC	310	.290	.502	120	1.73	HYD.
	INT.	1 ATC	37 ABC	216	37 BTC	89 ABC	306	.285	.493	109		HYD.
24218	EXH.	44 BBC	1 BTC	223	80 BBC	47 ATC	307	.292	.514	114	1.76	HYD.
	INT.	0 TDC	43 ABC	223	36 BTC	91 ABC	307	.292	.514	110		HYD.
24224	EXH.	49 BBC	10 BTC	219	87 BBC	41 ATC	308	.292	.505	120	1.73	HYD.
	INT.	1 BTC	38 ABC	219	39 BTC	89 ABC	308	.292	.505	108		HYD.
24225	INT.	3 BTC	35 ABC	218	38 BTC	84 ABC	298	.288	.461	107	1.6	HYD.
	EXH.	49 BBC	11 BTC	218	80 ABC	34 ATC	298	.288	.461	119		HYD.
24226	INT.			212			289	.307	.491	107		HYD
	EXH.			222			300	.318	.509	117		HYD
24227	EXH.			232			309	.332	.532	117		HYD
	INT.			222			300	.318	.509	107		HYD
24280	EXH.			223			292	.320	.512	115		HYD
	INT.			220			286	.320	.512	109		HYD
24301	INT.			230			288	.320	.512	107		HYD
	EXH.			230			288	.320	.512	111		HYD
24302	INT.	7 BTC	43 ABC	230	39 BTC	85 ABC	304	.320	.554	107	1.73	HYD.
	EXH.	45 BBC	5 ATC	230	77 BBC	47 ATC	304	.320	.554	111		HYD.
24303	EXH.	54 BBC	0 TDC	234	86 BBC	41 ATC	307	.325	.562	117		HYD.
	INT.	5 BTC	39 ABC	224	39 BTC	82 ABC	307	.311	.538	107		HYD.
24305	EXH.			234			302	.325	.520	117	1.6	HYD
	INT.			227			298	.325	.520	107		HYD
24401	INT.	17 BTC	47 ABC	244	38 BTC	72 ABC	290	.329	.569	104	1.73	.026
	EXH.	54 BBC	20 ATC	254	79 BBC	41 ATC	300	.341	.590	108		.026
24406	EXH.	63 BBC	11 ATC	254	95 BBC	53 ATC	328	.355	.621	117	1.75	.026
	INT.	15 BTC	49 ABC	244	47 BTC	90 ABC	317	.340	.595	107		.026
25211	INT.	0 TDC	34 ABC	214	33 BTC	77 ABC	290	.295	.472	107	1.6	HYD.
	EXH.	49 BBC	5 BTC	224	82 BBC	38 ATC	300	.310	.496	117		HYD.
25309	EXH.			244			314			110		HYD.
	INT.			244			314	0.297		110		HYD.
25310	INT.			232			329		.474	112		
	EXH.			232			329		.474	114		
26204	INT.			214			288		.443	107		
	EXH.			224			298		.465	117		
26303	INT.			224			297		.407	112		
	EXH.			236			310		.407	119		
26308	INT.			231			304		.470	112		
	EXH.			240			315		.470	115		
27101	INT.			214			N/A	.267	.416	105	1.56	.012
	EXH.			224			N/A	.275	.429	115		.012

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						
27201	INT.			224				N/A	.275	.429	105		.012
	EXH.			234				N/A	.283	.442	115		.012