

# CHEVROLET BIG BLOCK V8 ROCKER RATIO 1.73

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Lash	Oil Additive	Lifters	Valve Spring	Installed Height	Retainer	Locks	Stem Seal	Timing Kit	Pushrods	Rockers	
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust													
<b>HYDRAULIC CAMS</b>																					
Mild street cam, good bottom end torque, smooth idle.	1100 - 4000	2602	270	270	208	208	.484"	.484"	110		ZDDP-100	HT817C-16	7737-16	1.880"	12700-16	12708-16	KG819-16	CS8454T	See notes	CRCBB177	
Stock / Mild engine, economy and performance, dual patten suit LGP (See Fitting notes 1 & 2)	1200 - 4200	2666	268	288	204	214	.481"	.512"	112		ZDDP-100	HT817C-16	7737-16	1.880"	12700-16	12708-16	KG819-16	CS8454T	See notes	CRCBB177	
Sporty idle, strong mid-range (See Fitting notes 1 & 2)	2000 - 4800	2605	280	290	220	235	.508"	.512"	108		ZDDP-100	HT817C-16	7737-16	1.880"	12700-16	12708-16	KG819-16	CS8454T	See notes	CRCBB177	
Good idle good mid range power, suit strong street engine needs Hi-Stall (See Fitting notes 1, 2 & 3)	2200 - 5500	2778	290	290	230	230	.524"	.524"	110		ZDDP-100	HT817C-16	9731-16	1.950"	12710-16	12708-16	KG819-16	CS8454T	See notes	CRCBB177	
Good idle great mid range for mild engine needs comp, rockers & Hi-Stall (See Fitting notes 1, 2 & 3)	2200 - 6000	21424	287	295	231	238	.561"	.565"	110		ZDDP-100	HT817R-16	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177	
Rough idle for street/race engine needs comp rockers, hi -stall & diff gears (See Fitting notes 1, 2 & 3)	2800 - 6000	2700	304	316	242	250	.570"	.570"	108		ZDDP-100	HT817R-16	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177	
<b>SOLID CAMS</b>																					
Choppy idle, great mid range power needs engine mods & hi stall (See Fitting notes 5)	2200 - 5700	2773	280	290	232	242	.510"	.532"	110		IN .020" EX .020"	ZDDP-100	AT992-16	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Hot street application, very strong mid range serious engine mods needed (See Fitting notes 5)	2600 - 5800	2626	278	288	238	244	.561"	.571"	109		IN .024" EX .024"	ZDDP-100	AT992-16	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Street/strip application, very strong mid range serious engine mods needed (See Fitting notes 5)	3000 - 6000	2639	290	300	248	255	.574"	.598"	109		IN .025" EX .025"	ZDDP-100	AT992L-16	7437-16 <sup>D</sup>	1.950"	12700-16	12708-16		CS8454T	See notes	CRCBB177
Street/strip, needs good cyl heads headers etc comp, diff gears & hi stall (See Fitting notes 5)	3500 - 7000	2746	292	295	252	258	.587"	.614"	109		IN .018" EX .018"	ZDDP-100	AT992L-16	7437-16 <sup>D</sup>	1.950"	12700-16	12708-16		CS8454T	See notes	CRCBB177
<b>HYDRAULIC ROLLER CAMS</b>												<b>NOTE: MUST USE CROW CAMS MELONISED DISTRIBUTOR GEAR. SEE PG 85 FOR DISTRIBUTOR GEARS</b>									
Hyd roller cam, great torque with minimal engine modifications, needs comp & headers (See Fitting notes 1, 2 & 3)	1800 - 4800	21330	278	283	220	227	.568"	.578"	110				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Performance hyd roller, great mid range choppy idle needs heads, comp etc (See Fitting notes 1, 2 & 3)	2200 - 5800	21433	297	303	228	238	.636"	.632"	110				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Performance cam great bottom end & mid range, choppy idle need manifold & headers (See Fitting notes 1, 2 & 3)	3200 - 6400	21315	303	307	238	244	.596"	.596"	109				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Performance cam strong idle excellent bottom & mid range needs comp heads manifold etc & hi stall. (See Fitting notes 1, 2 & 3)	3500 - 6200	21719	295	315	238	243	.615"	.652"	110				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Performance cam good mid to upper RPM range, aggressive idle needs comp manifold & headers etc + hi stall. (See Fitting notes 1, 2 & 3)	3500 - 6800	21725	290	296	242	246	.653"	.654"	109				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177
Performance cam great upper RPM range, choppy idle needs manifold & headers comp etc, + hi stall. (See Fitting notes 1, 2 & 3)	3800 - 7000	21435	317	326	249	258	.596"	.596"	108				5210H	9936-16 <sup>D</sup>	1.980"	12710-16	12708-16		CS8454T	See notes	CRCBB177

**FITTING NOTES:** Pre 1967 engines must have cam or rear bearing grooved for correct oiling.

**FITTING NOTES:** 1. Must use performance springs. 2. Must use performance retainers. 3. Machining required to fit these components. 4. Must use performance seal. 5. Notes 1 to 4 all apply to this part number. 6. Check valve train geometry before ordering pushrod. 7. Pushrod length varied in this model. Check length before ordering. 8. Spring height varies in models, check spring pressure before installation.

**Note:** Springs marked with xxxx-xx<sup>D</sup> denotes that it is a double spring.

**FITTING NOTES:** Push Rods sold separately. Check length before ordering from page 87-89.  
 • Converter stall speed should be equal to or greater than the minimum rpm of the cam power range.  
 • All lash settings quoted are measured hot. • The use of high volume oil pumps may cause premature wear of the distributor gear.

# CHEVROLET BIG BLOCK V8 ROCKER RATIO 1.73

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Lash	Oil Additive	Lifters	Valve Spring	Installed Height	Retainer	Locks	Stem Seal	Timing Kit	Pushrods	Rockers
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust												
<b>SOLID ROLLER CAMS</b> <span style="float: right;"><b>NOTE: MUST USE CROW CAMS MELONISED DISTRIBUTOR GEAR. SEE PG 85 FOR DISTRIBUTOR GEARS</b></span>																				
Street roller, street /strip application small cube engine (See Fitting notes 1 - 7)	3500 - 6800	21301	286	295	252	260	.625"	.625"	108			5212PF	4910-16 <sup>Ⓟ</sup>	2.000"	13102-16	11101-16		CS8454T	See Notes	
Street /strip suit 396 - 427ci engine needs comp and after market heads (See Fitting notes 1 - 7)	3600 - 6800	21387	298	303	259	265	.678"	.675"	108			5212PF	4910-16 <sup>Ⓟ</sup>	2.000"	13102-16	11101-16		CS8454T	See Notes	
Race roller, for max mid & upper RPM Big cubes, comp and after market heads (See Fitting notes 1 - 7)	4000 - 7000	2739	310	319	277	284	.740"	.740"	109			5212PF	4920-16 <sup>Ⓟ</sup>	2.000"	13102-16	11101-16		CS8454T	See Notes	
Race roller, prep engine needed. Blown or Nos engine application (See Fitting notes 1 - 7)	4500 - 7500	21356	322	332	278	289	.740"	.750"	112			5212PF	4920-16 <sup>Ⓟ</sup>	2.000"	13102-16	11101-16		CS8454T	See Notes	

# CHEVROLET SMALL BLOCK V8 ROCKER RATIO 1.50

<b>HYDRAULIC CAMS</b>																					
Use for STD cam, Hi Torque/towing	1000 - 3800	1613	260	267	194	202	.390"	.408"	112			ZDDP-100	HT817C-16	4931-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-34B-16	CRCSB153
Power & economy cam suits LPG	1000 - 3800	1631	269	269	202	207	.395"	.395"	112			ZDDP-100	HT817C-16	4830-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Mild cam better throttle response suit highway usage	1500 - 4500	1602	270	270	208	208	.420"	.420"	110			ZDDP-100	HT817C-16	4830-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Great mid range, STD idle, good fuel economy & LPG suit 327ci & up (See Fitting notes 1)	1700 - 4700	1666	268	288	204	214	.417"	.444"	112			ZDDP-100	HT817C-16	4830-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Mild street cam, good driveability auto /manual (See Fitting notes 1)	1800 - 4800	1892	275	275	215	215	.441"	.441"	112			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Mild cam dual pattern suit small forced induction engine (See Fitting notes 1)	1900 - 4900	1665	280	290	214	224	.440"	.465"	112			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Mild street cam, moderate idle needs pipes & carbie (See Fitting notes 1)	2200 - 5200	1651	282	282	222	222	.448"	.448"	114			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Performance street cam, require better breathing (See Fitting notes 1 & 2)	2500 - 5500	1801	280	280	224	224	.450"	.450"	114			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Broad power band suited for S/C or NOS engine need hi stall (See Fitting notes 1 & 2)	2600 - 5800	11367	293	299	226	236	.464"	.485"	112			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Moderate idle good mid range power. Needs heads, mods & exhaust (See Fitting notes 1 & 2)	2700 - 5500	1650	292	292	230	230	.450"	.450"	113			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB153
Hyd cam strong mid range, needs headers, diff gear & 2500 stall (See Fitting notes 1 & 2)	2800 - 5600	1622	282	282	230	230	.480"	.480"	110			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB157
Good mid range, needs good heads to perform to max suit speedway (See Fitting notes 1 & 2)	3000 - 6000	1672	280	280	231	231	.480"	.480"	108			ZDDP-100	HT817C-16	4843-16	1.700"	11707-16	11701-16	KG819-16	CS8350	PR-937-16	CRCSB157
Hyd cam for max mid range & top end (See Fitting notes 1, 2 & 3)	3200 - 6200	1802	295	295	246	246	.508"	.508"	109			ZDDP-100	HT817R-16	7333-16 <sup>Ⓟ</sup>	1.800"	11710-16	4133-16	VSV530-16	CS8350	PR-937-16	CRCSB157
Hyd cam, rough idle high RPM range needs heads, comp, headers & stall (See Fitting notes 1, 2 & 3)	2700 - 6200	1747	294	307	236	246	.525"	.532"	107			ZDDP-100	HT817R-16	7333-16 <sup>Ⓟ</sup>	1.800"	11710-16	4133-16	VSV530-16	CS8350	PR-937-16	CRCSB157

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