



# Holden Camshaft Listings

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## Holden V8 1969-87

### 253-304-308-355+ cu. in.

### Hydraulic Lifter Camshafts

APPLICATION	SERIES AND GRIND NUMBER. COMPONENTS	CAM PART NO.	LIFTERS PART NO.	Deg. @ .050" Cam Lift Int./Exh.	Deg Adv Dur. Int./Exh.	Deg. Lobe Separation	Open/ Close @ .050" Cam Lift Int./Exh.	Lash Hot Int. Exh.	Gross Lift Int. Exh. <sup>3</sup>
<b>HYDRAULIC</b> - Good economy, works well with LPG. Smooth idle, improved torque & H.P. over stock. Suits stock 308 or sports 253 <b>BASIC RPM 1200-4100</b>	PowerMax H-202.275-2S-12  <b>Chart A</b>	<b>C241</b>	99284-16 <sup>r</sup> C73-16 <sup>q</sup> C969C-16 <sup>p</sup>	202 206	264 268	112	-6 28 40 -14	.000 .000	.440 .448
<b>HYDRAULIC</b> - Broad power band, delivers excellent everyday street performance & fuel efficiency. Smooth idle in 308, slight lobe in 253. <b>BASIC RPM 1500-4500</b>	PowerMax H264  <b>Chart A</b>	<b>244521</b>	99284-16 <sup>r</sup> C73-16 <sup>q</sup> C969C-16 <sup>p</sup>	206 214	268 276	112	-4 30 44 -10	.000 .000	.448 .464
<b>HYDRAULIC</b> - Good all round performance with 9.5:1 compression & basic intake & exhaust modifications, Good idle with lobe. Strong low-mid range torque. <b>BASIC RPM 1800-4800</b>	PowerMax H276  <b>Chart A</b>	<b>244611</b>	99284-16 <sup>r</sup> 99293-16 <sup>s</sup> C969C-16 <sup>p</sup>	218 218	280 280	110	4 34 44 -6	.000 .000	.472 .472
<b>HYDRAULIC</b> - Strong mid-range and top end. Fair idle, Will run 11's in auto 2700lb street car. Needs 9.5-10:1 comp, 3.5 gears, hi-stall converter etc. <b>BASIC RPM 2500-6200</b>	H226/314-2S-8  <b>Chart B</b>	<b>244661</b>	99284-16 <sup>r</sup> 99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	226 230	286 292	108	10 36 48 2	.000 .000	.502 .496
<b>HYDRAULIC</b> - Strong mid range-top end street & strip performance. Fair idle, needs 9.5-10:1 comp 3.08-3.5 gears, hi-stall converter etc. for best results. <b>BASIC RPM 2500-6000</b>	PowerMax H286  <b>Chart A<sup>3</sup></b>	<b>244621</b>	99284-16 <sup>r</sup> 99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	230 230	292 292	110	10 40 50 0	.000 .000	.496 .496
<b>HYDRAULIC</b> - Strong power in mid range and top end -6500 RPM. Rough idle, needs 10-10.5:1 comp. 3.5-3.9 gear, hi-stall converter, modified heads etc. for serious use. <b>BASIC RPM 3000-6500</b>	CCH304A  <b>Chart B</b>	<b>244631</b>	99284-16 <sup>r</sup> 99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	236 236	296 296	110	10 46 50 6	.000 .000	.520 .520
<b>HYDRAULIC</b> - Excellent top end power in street/strip car. Rough idle, needs 11:1 comp. 3.7- 4.1 gears, hi-stall converter, mod. heads, hi-intensity ignition for best results. <b>BASIC RPM 3500-7000</b>	CCH-314A  <b>Chart B</b>	<b>244641</b>	99284-16 <sup>r</sup> 99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	246 246	306 306	110	15 51 55 11	.000 .000	.538 .538

#### Note:

1. RPM figures are for 304-308 engines, for 253 engines add 500rpm, for 355 engines subtract 500rpm.
2. All valve lifts shown are calculated at 1.6 ratio. If using roller rockers, ratio will be 1.65 and lift will increase.
3. Can also use 96802-16 Optional Springs with + .050" locks - 99095-1.
4. Large range of custom hydraulic flat tappet and roller cams available. Call for details.

#### Important:

Camshaft selection is extremely important in 253 engines. Generally stock engines run best with H254, mild motors can use C241, modified motors can use H264 but larger cam choice requires careful selection.

# Holden V8 69-87

253-304-308-355+ cu. in.

## Mechanical & Roller Lifter Camshafts

APPLICATION	SERIES AND GRIND NUMBER. COMPONENTS	CAM PART NO.	LIFTERS PART NO.	Deg. @ .050" Cam Lift Int.Exh.	Deg Adv. Dur. Int. Exh.	Deg. Lobe Separation	Open/ Close @ .050" Cam Lift Int./Exh.	Lash Hot Int. Exh.	Gross Lift Int./ Exh. <sup>3</sup>
<b>MECHANICAL</b> - Broad power band with good mid-range performance, good idle with lope, excellent replacement for GROUP A. Works best with 9.5:1 comp. and all normal street modifications. <b>BASIC RPM 2800-6500</b>	CC272  <b>Chart C</b>	<b>244681</b>	99250-16	236 246	272 282	112	8 48 57 9	.026 .026	.508 .527
<b>MECHANICAL</b> - Broad power band with good low end and mid range performance. Fair to rough idle. Use 10:1 - 11:1 comp. Killer street/strip cam. <b>BASIC RPM 3400-7200</b>	CC280-2  <b>Chart C</b>	<b>244671</b>	99250-16	244 248	280 284	109	16 48 56 12	.026 .026	.553 .562
<b>MECHANICAL</b> - Good mid-range and top-end performance. Rough idle, ideal street/strip use with 10-10.5:1 comp. 3.5-4.1 gears, hi-stall converter, improved heads/manifold. <b>BASIC RPM 3800-7500</b>	CC288  <b>Chart C</b>	<b>244691</b>	99250-16	252 260	288 296	108	19 53 59 21	.026 .026	.572 .591
<b>MECHANICAL</b> - Good mid-range and strong top end performance. Rough idle, good auto cam for serious racers. Needs 11:1 comp. good heads, 3.89 - 4.33 gears, hi-stall. <b>BASIC RPM 4300-8000</b>	CC300A  <b>Chart C</b>	<b>244701</b>	99250-16	264 268	300 304	108	26 58 64 24	.026 .026	.601 .610
<b>MECHANICAL</b> - Mid-top end performance. Rough idle, higher torque peak than CC300A. Must have hi-comp, ported heads, good manifold, deep gears etc. <b>BASIC RPM 4600-8000</b>	CC304  <b>Chart C</b>	<b>244711</b>	99250-16	268 272	304 308	108	28 60 66 26	.026 .026	.610 .620
<b>MECHANICAL</b> - Radical competition for maximum top end performance. Rough idle, Use in manual car weighing under 2500lbs. <b>BASIC RPM 5000-8500</b>	CC320A  <b>Chart C</b>	<b>244721</b>	99250-16	280 280	316 316	108	36 64 72 28	.026 .026	.639 .639
<b>MECHANICAL ROLLER</b> - Street performance usage. Fair idle. Good mid & upper rpm torque & HP. Bracket racing. Auto trans with 3500+ converter. 10.5 - 11.5:1 comp. OK for supercharger and NOS applications. <b>BASIC RPM 3800-7200</b>	SR-244/362-2S-12  <b>Chart D <i>NEW</i></b>	<b>248131</b>	24518-16 <sup>3</sup> 24570-16 <sup>3/4</sup>	244 252	294 302	112	15 49 63 9	.020 .020	.579 .598
<b>MECHANICAL ROLLER</b> - Pro-street use with broad power band and strong mid-range. Rough idle, Needs hi-comp. 3.5 - 4.11 gears, hi-stall, good heads, etc. <b>BASIC RPM 3400-7000</b>	R-244/3294-2-6.00  <b>Chart D</b>	<b>248111</b>	24518-16 <sup>3</sup> 24570-16 <sup>3/4</sup>	244 254	280 290	106	20 44 57 17	.026 .026	.527 .546
<b>MECHANICAL ROLLER</b> - Excellent mid-upper RPM, torque & horsepower. Rough idle, needs hi-comp. deep gears, hi-stall, flowed heads. <b>BASIC RPM 4200-7600</b>	R-264/3528-2-6.00  <b>Chart D</b>	<b>248121</b>	24518-16 <sup>3</sup> 24570-16 <sup>3/4</sup>	264 274	300 310	106	30 54 67 27	.026 .026	.564 .584

**Note:**

1. RPM figures are for 304-308 engines, for 253 engines add 500rpm, for 355 engines subtract 500rpm.
2. All valve lifts shown are calculated at 1.6 ratio. If using roller rockers, ratio will be 1.65 and lift will increase.
3. All roller lifters should be checked in the block to ensure the oil gallery is not unmasked on full lift, otherwise oil pressure problems at low RPM could occur.
4. Ultra Pro Series for max performance use.
5. Large range of custom mechanical flat tappet and roller cams available. Call for details.

## Holden V8 88 onw. 304-350 + P.F.I

### Hydraulic & Mechanical Lifter Camshafts

APPLICATION	SERIES AND GRIND NUMBER. COMPONENTS	CAM PART NO.	LIFTERS PART NO.	Deg. @ .050" Cam Lift Int./Exh.	Deg. Adv. Dur. Int./Exh.	Deg. Lobe Separation	Open/Close @ .050" Cam Lift Int./Exh.	Lash Hot Int. Exh.	Gross Lift Int. Exh. <sup>3</sup>
<b>HYDRAULIC</b> - Smooth idle, good low end torque, economy & throttle response. Ideal stock replacement in single throttle body vehicles offering torque & HP improvements throughout the entire rev range. <b>BASIC RPM 1200-3800</b>	Compucam H260  <b>Chart A</b>	<b>883901</b>	99284-16 <sup>r</sup>	198	260	113	-9 27	.000	.432
			C73-16 <sup>q</sup> C969C-16 <sup>p</sup>	198	260		37 -19	.000	.432
<b>HYDRAULIC</b> - Good idle and fuel efficiency, wide power band with excellent low-mid range torque & HP. Use as SV5000 replacement for everyday performance. <b>BASIC RPM 1500-4000</b>	Compucam H268  <b>Chart A</b>	<b>883931</b>	99284-16 <sup>r</sup>	206	268	112	-4 30	.000	.448
			C73-16 <sup>q</sup> C969C-16 <sup>p</sup>	206	268		40 -14	.000	.448
<b>HYDRAULIC</b> - Good idle with lope, mid-upper rev range improvements while maintaining strong bottom end torque, best in twin throttle body vehicles. Use with all normal modifications or as GROUP A replacement. <b>BASIC RPM 1800-4500</b>	Compucam H276  <b>Chart A</b>	<b>883941</b>	99284-16 <sup>r</sup>	214	276	110	2 32	.000	.464
			99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	214	276		42 -8	.000	.464
<b>HYDRAULIC</b> - Strong mid-upper rev range performance, Fair idle, Ideal in well developed engines for street or moderate competition use. <b>BASIC RPM 2200-5500</b>	Compucam H284  <b>Chart A<sup>3</sup></b>	<b>884201</b>	99284-16 <sup>r</sup>	222	284	112	4 38	.000	.480
			99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	222	284		48 -6	.000	.480
<b>HYDRAULIC</b> - Strong mid range-top end street and strip performance, Fair idle. Needs 9.5-10:1 comp. 3.08-3.5 gears, hi-stall converter etc. for best results. <b>BASIC RPM 2500-6000</b>	Compucam H286  <b>Chart A<sup>3</sup></b>	<b>884301</b>	99284-16 <sup>r</sup>	230	292	110	10 40	.000	.496
			99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	230	292		50 0	.000	.496
<b>HYDRAULIC</b> - Rough idle, strong power in mid-range and top end -6500RPM. Needs 10-10.5:1 comp. 3.5-3.9 gear, hi stall converter, modified heads etc. <b>BASIC RPM 3000-6500</b>	Compucam H304  <b>Chart B</b>	<b>884401</b>	99284-16 <sup>r</sup>	236	296	110	10 46	.000	.520
			99384-16 <sup>s</sup> C969C-16 <sup>p</sup>	236	296		50 6	.000	.520
<b>MECHANICAL</b> - Broad power band with good mid range performance, fair idle with lope. Use as Group A replacement. Works best with 9.5-10:1 comp. and all normal street modifications. <b>BASIC RPM 3500-7000</b>	F-272-2  <b>Chart C</b>	<b>883681</b>	99250-16	236	272	112	6 50	.026	.508
				246	282		55 11	.026	.527
<b>MECHANICAL</b> - Broad power band with good low end and mid-range performance, fair to rough idle. 10:1 - 11:1 comp. Has run 10's in Commodores. Will RPM 7500+ <b>BASIC RPM 3400-7200</b>	F-280-2  <b>Chart C</b>	<b>883671</b>	99250-16	244	280	109	16 48	.026	.553
				248	284		56 12	.026	.562
<b>MECHANICAL</b> - Good mid range & top end performance. Rough idle. Ideal street/strip, use with 10 - 10.5:1 comp. 3.5 - 4.11 gears. Hi stall converter intake & exh. modifications. <b>BASIC RPM 4000-7500</b>	F-288-2  <b>Chart C</b>	<b>883691</b>	99250-16	252	288	108	19 53	.026	.572
				260	296		59 21	.026	.591
<b>MECHANICAL</b> - Good mid range & strong top end performance. Rough idle. Good auto cam for serious racers. Needs 11 - 12:1 comp. Good heads, 4.11+ gears, hi stall. <b>BASIC RPM 4200-7800</b>	F-300-2  <b>Chart C</b>	<b>883701</b>	99250-16	264	300	108	25 59	.026	.601
				268	304		63 25	.026	.610

**Note:**

1. RPM figures are based on 304 engines, for 355 engines subtract 500rpm.
2. All valve lifts shown are calculated at 1.6 ratio. If using roller rockers, ratio will be 1.65 and lift will increase.
3. Can also use 96802-16 optional valve spring with +.050" Locks- 99095-1.
4. Large range of custom hydraulic and mechanical cams available. Call for details.

## Holden V8 88 onw. 304-350 + P.F.I

### Roller Lifter Camshafts

APPLICATION	SERIES AND GRIND NUMBER. COMPONENTS	CAM PART NO.	LIFTERS PART NO.	Deg. @ .050" Cam Lift Int./Exh.	Deg. Adv. Dur. Int. Exh.	Deg. Lobe Separation	Open/Close @ .050" Cam Lift Int./Exh.	Lash Hot Int. Exh.	Gross Lift Int. Exh. <sup>3</sup>
<b>HYDRAULIC ROLLER</b> - Performance Cam designed to replace standard Cam and HSV Cam without any other changes. Free flow exhaust recommended. VT onw. <b>BASIC RPM 1600-5000</b>	Compucam 2030 <b>Chart A</b>	<b>889711</b>	Stock <sup>6</sup> 10530-16 <sup>6</sup> 24539-16 <sup>4</sup>	214 214	278 278	112	-5 34.5 43.5 -9.5	.000 .000	.464 .464
<b>HYDRAULIC ROLLER</b> - Mild performance usage, Fair idle. Good mid range torque & horsepower. Street & mild bracket racing. Auto trans with 2500+ converter. 9.5 - 10:1 comp. <b>BASIC RPM 2500-6000</b>	HR-222/339-2S-12 <b>Chart E</b>	<b>888231</b>	Stock <sup>6</sup> 10530-16 <sup>6</sup> 24539-16 <sup>4</sup> 24533-16 <sup>5</sup>	222 230	284 292	112	4 38 52 -2	.000 .000	.542 .563
<b>HYDRAULIC ROLLER</b> - Mild performance usage, Fair idle. Good mid range torque & horsepower. Street & bracket racing. Auto trans with 3000+ converter. 9.5 - 10.5:1 comp. <b>BASIC RPM 2800-6200</b>	HR-226/345-2S-10 <b>Chart E</b>	<b>888241</b>	Stock <sup>6</sup> 10530-16 <sup>6</sup> 24539-16 <sup>4</sup> 24533-16 <sup>5</sup>	226 230	288 292	110	8 38 50 0	.000 .000	.552 .563
<b>HYDRAULIC ROLLER</b> - Performance usage, Fair idle. Good mid range torque & horsepower. Street & bracket racing. Auto trans with 3000+ converter. 9.5 - 10.5:1 comp. <b>BASIC RPM 3000-6400</b>	HR-230/352-2S-10 <b>Chart E</b>	<b>888251</b>	Stock <sup>6</sup> 10530-16 <sup>6</sup> 24539-16 <sup>4</sup> 24533-16 <sup>5</sup>	230 234	292 296	110	10 40 52 2	.000 .000	.563 .574
<b>HYDRAULIC ROLLER</b> - Performance usage, Fair idle. Good mid range torque & horsepower. Street & bracket racing. Auto trans with 3000+ converter. 10.0 - 11.5:1 comp. <b>BASIC RPM 3200-6600</b>	HR-234/359-2S-10 <b>Chart E NEW</b>	<b>888261</b>	24539-16 <sup>4</sup> 24533-16 <sup>5</sup>	234 238	296 300	110	12 42 54 4	.000 .000	.574 .584
<b>HYDRAULIC ROLLER</b> - Street/Race, Rough Idle. Good upper RPM torque & HP. Auto Trans w/ 3500+ converter. 10.5 to 11.7 comp advised. <b>BASIC RPM 3400-6800</b>	HR-238/365-2S-10 <b>Chart E NEW</b>	<b>888271</b>	24539-16 <sup>4</sup> 24533-16 <sup>5</sup>	238 242	300 304	110	14 44 56 6	.000 .000	.584 .595
<b>HYDRAULIC ROLLER</b> - Street/Race, Rough Idle. Good upper RPM torque & HP. Auto Trans w/ 3600+ converter. 10.75 to 12.0 comp advised. <b>BASIC RPM 3600-7000</b>	HR-244/400-2S3-9 <b>Chart E NEW</b>	<b>888281</b>	24533-16 <sup>5</sup>	244 250	314 312	109	17.5 46.5 59 11	.000 .000	.640 .595
<b>HYDRAULIC ROLLER</b> - Hot Street/Race, Rough Idle. Good upper RPM torque & HP. Auto Trans w/ 3600+ converter. 11.0 to 12.0 comp advised. <b>BASIC RPM 3600-7200</b>	HR-248/400-2S1-8 <b>Chart E NEW</b>	<b>888291</b>	24533-16 <sup>5</sup>	248 252	318 322	108	20.5 47.5 58.5 13.5	.000 .000	.640 .640

#### Note:

1. RPM figures are based on 304 engines, for 355 engines subtract 500RPM.
2. All valve lifts shown are calculated at 1.6 ratio. If using roller rockers, ratio will be 1.65 and lift will increase.
3. All roller lifters (except for stock, 10530-16 or 24539-16) should be checked in the block to ensure the oil gallery is not unmasked on full lift, otherwise oil pressure problems at low RPM could occur.
4. Drop-In Guide Bar HR Lifters
5. Use 24533-16 for high-RPM use.
6. For use in factory Hydraulic Roller blocks (VS III/VT), Fitted with factory retaining plates.
7. Large range of custom hydraulic roller cams available. Call for details.

# Holden V8 88 onw. 304-350 + P.F.I

## Roller Lifter Camshafts

APPLICATION	SERIES AND GRIND NUMBER. COMPONENTS	CAM PART NO.	LIFTERS PART NO.	Deg. @ .050" Cam Lift Int./Exh.	Deg. Adv. Dur. Int. Exh.	Deg. Lobe Separation	Open/Close @ .050" Cam Lift Int./Exh.	Lash Hot Int. Exh.	Gross Lift Int. Exh. <sup>3</sup>
<b>MECHANICAL ROLLER</b> - Street performance usage, good idle. Good low & mid range torque & horsepower. Auto trans with 2500 + converter. 9.5 - 10.5:1 comp. <b>BASIC RPM 2600-6000</b>	SR-228/338-2S-10 <b>Chart D</b>	<b>888161</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	228 236	278 286	110	9 39 53 3	.020 .020	.541 .560
<b>MECHANICAL ROLLER</b> - Moderate performance usage, fair idle. Good mid range torque & horsepower. Mild bracket racing. Auto trans. with 3000 + converter. 9.5 - 10.5:1 comp. <b>BASIC RPM 3000-6500</b>	SR-236/350-2S-10 <b>Chart D</b>	<b>888171</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	236 244	286 294	110	13 43 57 7	.020 .020	.560 .579
<b>MECHANICAL ROLLER</b> - Performance usage, Fair idle. Good mid & upper rpm torque & horsepower. Bracket racing. Auto trans with 3500 + converter. 10.5 - 11.5:1 comp. <b>BASIC RPM 3400-7000</b>	SR-244/362-2S-12 <b>Chart D</b>	<b>888181</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	244 252	294 302	112	15 49 63 9	.020 .020	.579 .598
<b>MECHANICAL ROLLER</b> - Hot Street, rough idle, excellent mid to upper rpm torque & HP, auto trans with high-stall converter, min 11.0 comp. Use as F288 Roller Replacement. <b>BASIC RPM 3600-7000</b>	SR-252/400-2S1-8 <b>NEW Chart D</b>	<b>888201</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	252 258	290 296	108	23 49 62 16	.020 .022	.640 .640
<b>MECHANICAL ROLLER</b> - Performance usage, Rough idle. Bracket racing. Good mid range torque + horsepower. Auto trans with high stall converter. 11 - 12.0:1 comp. <b>BASIC RPM 3200-6800</b>	R-244/3294-2-6 <b>Chart D</b>	<b>888191</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	244 254	280 290	106	20 44 57 17	.026 .026	.527 .546
<b>MECHANICAL ROLLER</b> - Bracket racing, tough street, rough idle, requires good heads etc. min. 11.0 comp. Manual or high stall. <b>BASIC RPM 3500-7000</b>	R-250/390-2S-8 <b>NEW Note 4</b>	<b>888311</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	250 258	281 290	108	22 48 62 16	.020 .022	.624 .624
<b>MECHANICAL ROLLER</b> - Performance usage, rough idle, good mid-range torque & HP, min. 11.5:1 comp. Manual or High stall. Excellent circuit/club race. <b>BASIC RPM 3700-7200</b>	R-256/390-2S1-7 <b>NEW Note 4</b>	<b>888321</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	256 262	287 294	107	25 51 62 20	.020 .022	.624 .624
<b>MECHANICAL ROLLER</b> - Strip/limited street use, rough idle, excellent mid-range to top end power, min 11.5:1 comp. <b>BASIC RPM 3800-7500</b>	R-260/420-2S2-8 <b>NEW Note 5</b>	<b>888331</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	260 268	292 300	108	26 54 66 22	.020 .020	.672 .672
<b>MECHANICAL ROLLER</b> - Competition only, rough idle, auto trans with race converter, 4.11 + diff gears, 11.5 - 12.0 min comp. <b>BASIC RPM 4000-7800</b>	R-264/420-2-8 <b>NEW Note 5</b>	<b>888341</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	264 274	296 306	108	28 56 69 25	.020 .020	.672 .672
<b>MECHANICAL ROLLER</b> - Competition only, rough idle, excellent mid to upper rpm torque & HP, auto trans with race converter, min 12.5 comp, race ported heads/manifold required. <b>BASIC RPM 4200-8000+</b>	R-274/4381-2S1-9 <b>NEW Note 5</b>	<b>888351</b>	24518-16 <sup>1</sup> 24570-16 <sup>1/2</sup>	274 280	306 312	109	31 63 72 28	.020 .022	.701 .701

**Note:**

1. All roller lifters should be checked in the block to ensure the oil gallery is not unmasked on full lift, or oil pressure problems could occur.
2. Ultra Pro Series 8620 Steel Body max performance use
3. All valve lifts shown are calculated at 1.6 ratio. If using roller rockers, ratio will be 1.65 and lift will increase.
4. 888311 & 888321 use 96883-16 Springs, refer to camcard for installed height
5. 888331 & 888341 & 888351 use 96886-16 Springs, refer to camcard for installed height
6. RPM figures are based on 304 engines, for 355 engines subtract 500RPM.
7. Large range of custom mechanical roller cams available. Call for details.

## Holden V8 Valve Train Chart

Chart	A		B		C		D		E	
Valve Springs	99848-16		99838-16	a/c	99893-16	a/c	99893-16	a/c	96870-16	a/c
Retainers, steel heat treated	99915-16	d	99936-16	d	99953-16	d	99944-16	d	99943-16	d
Valve stem seals teflon	99820-16	a/t	99820-16	a/t	99820-16	a/t	99820-16	a/t	99820-16	a/t
Valve locks stamped heat treated	99041-1	b								
Valve locks machined steel heat treated	99097-1	b	99097-1	b	99097-1	b	99097-1	b	99097-1	b
Pro Series 1pc pushrods	95654-16	f	95654-16	f	95654-16	f	95656-16	j	95643-16	k
	95642-16	i			95660-16	h				
Timing gear set Premium	RCS6000	m	RCS6000	m	RCS6000	m	RCS6000	m	RCS6000	m
Timing gear set Econo	REC6000	n	REC6000	n	REC6000	n	REC6000	n	REC6000	n
Energizer R/Rockers 1.65 x 7/16	24744-16	a	24744-16	a	24744-16	a	24744-16	a	24744-16	a
Energizer Bolt on kit 1.65	24745-16	o	24745-16	o					24745-16	o
Gold Race R/Rockers 1.65 x 7/16	28758-16	a	28758-16	a	28758-16	a	28758-16	a	28758-16	a
Guide plates	88651-8	l	88651-8	l	88651-8	l	88651-8	l	88651-8	l
Oil pump gear - Coated Steel	88950-1		88950-1		88950-1		88950-1		88950-1	
Oil pump gear- Bronze	88990-1		88990-1		88990-1		88990-1		88990-1	
Rocker bridge shim kit	99179-1		99179-1		99179-1		99179-1		99179-1	

**IMPORTANT NOTE: 99003-1 Crane Super Lube Must Be Used During Run-In Of All Hydraulic & Solid Flat Tappet Cams.  
99300-1 Crane Break-in Engine Oil Recommended For Running-in All New/Rebuilt Engines.**

<sup>a</sup> Must Machine Cylinder Heads for installation.

<sup>b</sup> Optional Locks - Tall assy. Heat treated +.050" 99095-1  
- Short assy. Heat treated -.050" 99096-1

<sup>c</sup> 99892-16 can be used as an upgraded endurance spring in place of 99893-16.

<sup>d</sup> Nominal Installed Height with 99097-16 locks & Std length Valves (See Chart Below)

<sup>e</sup> 8.688" (Std pushrod length)

<sup>f</sup> 8.70" (+.012")

<sup>g</sup> 8.850" (+.160")

<sup>h</sup> 9.00" for L34 Heads (+.312")

<sup>i</sup> For Cam 889700 use 95642-16 8.10"

<sup>j</sup> 8.80" (+.112")

<sup>k</sup> 8.150" Use with 888231, 888241, 888251, 888261, 888271, 888281, 888291.

<sup>l</sup> 7/16" screw-in stud guide plates for 5/16" pushrods

<sup>m</sup> Rollmaster with 9 keyway crank gear Iwis chain.

<sup>n</sup> Rollmaster with 3 keyway crank gear Rolon chain.

<sup>o</sup> Includes Roller Rockers / Posilocks / Studs / Guideplates / Loctite. (Fits without machining Heads.)

<sup>p</sup> C969C-16 Chilled Iron Base Lifters.

<sup>q</sup> C73-16 Replacement Hydraulic Lifters.

<sup>r</sup> 99284-16 Anti-Pump Lifters.

<sup>s</sup> 99384-16 Hi Intensity Hydraulic Lifters.

<sup>t</sup> 99713-16 Optional metal jacket viton seals.

99915-16	1.730"
99936-16	1.715"
99953-16	1.840"
99944-16	1.780"
99943-16	1.840"