

# HOLDEN/CHEV LS1, LS2, LS6 ROCKER RATIO 1.70

**Parts kit includes items marked in black (Order as Kit or Individually)  
Camshaft not included in Parts Kit.**

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Installed Height	Parts Kit	Valve Spring	Retainer	Locks	Stem Seal	Spring Seat	Lifters (See Notes)	Timing Kit	Pushrods (See Notes)	Rockers
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust												
<b>GEN3 LS 1999-ON 3 BOLT CATHEDRAL PORT HEADS</b>																				
Increased mid range min effect on economy STD idle (See Fitting note 1)	1500 - 6000	871265	268	275	212	219	.519"	.528"	114	1.780"	VTKLS1	4231-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Street cam, Good mid range power needs valve springs & computer calibration. (See Fitting note 1)	1800 - 6200	871208	271	276	216	222	.595"	.595"	112	1.780"	VTKLS5	1511ML-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Mild performance cam, Great low down torque & mid range. Needs springs & computer calibration. (See Fitting note 1)	2100 - 6300	871202	282	292	220	225	.556"	.562"	114	1.780"	VTKLS5	1511ML-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Big lift, More mid range torque. Suits mild head porting. (See Fitting note 1 & 2)	2000 - 6400	871730	281	287	222	230	.613"	.612"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Performance cam, High acceleration rate great power gains need v/spring/computer. (See Fitting note 1 & 2)	2300 - 6500	871248	278	303	226	234	.578"	.591"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Lumpy street cam, High acceleration rate great power gains need valve springs exhaust & computer calibration (See Fitting note 1 & 2)	2400 - 6500	871223	293	304	229	235	.584"	.585"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Tough street cam, Big power and torque gains needs valve springs, pipes & computer calibration. (See Fitting note 1 & 2)	2400 - 6400	871249	277	284	226	232	.608"	.602"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Aggressive street cam, Great mid to upper power gains. Needs pipes, valve springs, cold intake and ECU calibration (See Fitting note 1 & 2)	2800 - 6800	871250	294	302	234	241	.608"	.609"	113	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Street / strip cam, Very strong mid range & top end. Needs pipes, springs and ECU remap (See Fitting note 1 & 2)	2500 - 6700	871285	291	296	234	238	.595"	.595"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Lumpy street cam, Great mid to upper RPM gains. Needs pipes, valve springs, cold air intake, heads mods and ECU calibration (See Fitting note 1 & 2)	2600 - 6900	871251	292	296	235	243	.593"	.610"	113	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Street/strip cam, Aggressive idle. Needs pipes, cold air and ECU calibration (See Fitting note 1 & 2)	2800 - 7000	871232	293	294	239	242	.585"	.590"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Race cam, Strong top end performance. Works best with mod heads and Intake (See Fitting note 1 & 2)	2900 - 7200	871252	301	302	239	244	.614"	.614"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Race cam, Strong top end performance. Works best in stroker engines (See Fitting note 1 & 2)	3000 - 7400	871253	307	325	245	262	.615"	.615"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A

**NOTES:**  
Valve lift calculated using standard 1.70 rocker ratio.  
Advertised duration shown at .006".  
Spring installed height should be checked before ordering.  
See Spring Specs for installed height pressure ratings.

**LIFTER NOTES:**  
5250 is OEM style drop in lifter using original buckets.  
Performance lifters available. See pg 92-93.

**PUSHROD NOTES:**  
Standard pushrod length listed for reference only.  
Pushrod length needs to be checked on assembly prior to ordering.

**NOTE:** GM LS Chain sets not supplied in Parts Kit. Order by engine type below.

Engine	Single Row	Double Row	Triggers
<b>LS1,LS6 5.7L 3 bolt cam</b>	CS8LS1-SR	CS8LS1	0
<b>LS2 6.0L 3 bolt cam</b>	CS8LS2-SR	CS8LS2	1
<b>LS7 7 litre 3 bolt cam</b>	CS8LS7-SR	CS8LS7	4
<b>LS3,L76, L77, L98 6.0, 6.2 L Single bolt cam</b>	CS8LS-VE-SR	CS8L98	4
<b>L76, L98 3 bolt cam conversion</b>	CS8LS7-SR	CS8LS7	4
<b>VE 3 Bolt Gear Genuine GM</b>	CS12586481		4
<b>3 bolt Heavy Duty Steel cam gear</b>	CS8LS-VE3		4

### SPECIAL GRINDS AVAILABLE ON REQUEST

**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.

Titanium Parts Kit Available					
<b>VTKLST</b>	Titanium Retainers	Dual Valve Springs	Locks	Stem Seals	Spring Seats



LS Heavy Duty Lifter and Guide Kit	
<b>LS7LIFTERKIT</b>	Genuine OEM LS7 Roller Lifter (5250) & Lifter Guide Kit (LS7GUIDE)



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

**FITTING NOTES:**  
• 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.

# HOLDEN/CHEV LS V8 3 BOLT CAM ROCKER RATIO 1.70

**Parts kit includes items marked in black (Order as Kit or Individually)  
Camshaft not included in Parts Kit.**

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Installed Height	Parts Kit	Valve Spring	Retainer	Locks	Stem Seal	Spring Seat	Lifters (See Notes)	Timing Kit	Pushrods (See Notes)	Rockers
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust												
<b>RECTANGULAR PORT HEADS</b>																				
Increased mid range min effect on economy STD idle (See Fitting note 1)	1500 - 6000	871780	264	285	203	219	.551"	.555"	114	1.780"	VTKLS1	4231-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Street cam, Good mid range power. Needs valve springs and computer calibration (See Fitting note 1)	1800 - 6200	871208	271	276	216	222	.595"	.595"	112	1.780"	VTKLS5	1511ML-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Factory 300Kw Callaway Camshaft (See Fitting note 1 & 2)	1800 - 6200	871384	278	285	216	223	.580"	.584"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Mild performance cam, Great low down torque. Mid range needs springs and ECU calibration (See Fitting note 1 & 2)	2000 - 6200	871202	282	292	220	225	.556"	.561"	114	1.780"	VTKLS5	1511ML-16	10707-16	10701-16	S9-16	VSS1258	5250	See Notes	PR-957-16* PR5740-110	N/A
Strong low-mid range cam, Needs Springs & ECU Calibration. (See Fitting note 1 & 2)	2200 - 6200	871247	272	286	219	227	.580"	.587"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Big lift. More mid range torque. Suits mild head porting. (See Fitting note 1 & 2)	2500-6500	871730	281	287	222	230	.613"	.612"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Moderate Lift, good mid range power and torque with mild idle. (See Fitting note 1 & 2)	2500 -6500	871270	277	281	223	228	.580"	.584"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Performance street cam, Great mid range torque. Needs valve springs and ECU calibration (See Fitting note 1 & 2)	2300 - 6300	871298	269	275	227	233	.609"	.601"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Great street cam, Excellent torque. Mild range needs valve springs & ECU calibration (See Fitting note 1 & 2)	1800 - 6200	871286	275	292	221	238	.580"	.581"	115	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Tough street cam, Big power gain mid range. needs valve springs, pipes and ECU calibration (See Fitting note 1 & 2)	2000 - 6200	871223	293	304	229	235	.583"	.585"	112	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Max lift cam, High acceleration. Gives max performance without losing bottom end. Needs valve springs and ECU calibration (See Fitting note 1 & 2)	2200 - 6500	871287	278	296	227	244	.607"	.610"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
High lift street cam, Wide power band. Needs valve springs, intake and ECU calibration (See Fitting note 1 & 2)	2500 - 6500	871288	287	302	234	250	.610"	.610"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Street/strip cam, Wide power range. Needs valve springs, intake and ECU calibration (See Fitting note 1 & 2)	2700 - 6500	871289	295	319	238	254	.614"	.614"	113	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Aggressive street cam, Great mid to upper power gains. Needs pipes, valve springs, cold intake and ECU calibration (See Fitting note 1)	2500 - 6700	871285	291	296	234	238	.595"	.595"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Big lift street / strip cam, Needs heads ported, valve springs, intake and ECU calibration (See (See Fitting note 1 & 2)	2300 - 6600	871290	301	321	239	256	.614"	.610"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Race cam, For big cube stroker engine. Needs aftermarket heads, manifold, valve springs, intake and ECU calibration (See Fitting note 1 & 2)	2700 - 7200	871291	311	340	244	261	.621"	.616"	114	1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A

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

**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.

**FITTING NOTES:**

- 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.

# HOLDEN/CHEV LS V8 3 BOLT CAM ROCKER RATIO 1.70

**Parts kit includes items marked in black (Order as Kit or Individually)  
Camshaft not included in Parts Kit.**

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Installed Height	Parts Kit	Valve Spring	Retainer	Locks	Stem Seal	Spring Seat	Lifters (See Notes)	Timing Kit	Pushrods (See Notes)	Rockers	
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust													
<b>AFM PERFORMANCE V8 CAM 2009 - ON</b> PART NO. 871AFM3BG CONVERTS TO 3 BOLT CAM STYLE																					
Performance Cam for V8 AFM (Active Fuel Management) Engines. Expected performance increase of 15%. For use with Factory Valve Springs only.		871AFM3BG	This cam is a performance replacement cam for AFM engines. It retains AFM lifters and AFM program but requires tuning to match performance specification. Supplied with 3 Bolt Conversion Gear & ARP Cam Bolts(134-1003). Uses factory Valve Springs								1.780"		Standard	Standard	Standard	Standard		5263AFM	Standard	Standard	N/A
<b>LS CARBY CONVERSION GRINDS</b> PISTON TO VALVE CLEARANCE MUST BE CHECKED.																					
Mild performance cam, Great low down torque & mid range. Needs springs (See Fitting note 1 & 2) Suits Carby conversions	2100-6300	871202C	282	292	220	225	.556"	.563"	108		1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Good street cam, Solid mid range torque. Needs valve springs (See Fitting note 1 & 2) Suits Carby conversions	2000-6400	871730C	281	287	222	230	.613"	.612"	109		1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Lumpy street cam, High acceleration rate great power gains need valve springs and exhaust. (See Fitting note 1 & 2) Suits Carby conversions	2400-6500	871223C	286	295	228	234	.586"	.586"	108		1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
Aggressive street cam, Great mid to upper power gains. Needs pipes & valve springs. (See Fitting note 1 & 2) Suits Carby conversions	2500-6700	871285C	289	297	233	237	.595"	.595"	108		1.780"	VTKLS8	4438-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR-957-16* PR5740-110	N/A
<b>LS CUSTOM SOLID ROLLER CAMS AVAILABLE</b> SEE PG 126 FOR AVAILABLE LS GRINDS.																					
Durations from 231- 277 @ .050" Big lift profiles from .641" to .741" @ 1.7 RR. Your choice of lobe separation angle.		871950	This cam is a performance camshaft to suit solid roller LS conversions. Talk to our technical department about your requirements.								1.800"		1335-16 <sup>D</sup>	TR432-16	10701-16	S9-16	VSS1128	5261	See Notes	See Fitting Note No.7	N/A

## NOTES:

Valve lift calculated using standard 1.70 rocker ratio.  
Advertised duration shown at .006".  
Spring installed height should be checked before ordering.  
See Spring Specs for installed height pressure ratings.

## LIFTER NOTES:

5250 is OEM style drop in lifter using original buckets.  
Performance lifters available. See pg 92-93.

## PUSHROD NOTES:

Standard pushrod length listed for reference only.  
Pushrod length needs to be checked on assembly prior to ordering.

**NOTE:** GM LS Chain sets not supplied in Parts Kit. Order by engine type below.

Engine	Single Row	Double Row	Triggers
<b>LS1,LS6 5.7L 3 bolt cam</b>	CS8LS1-SR	CS8LS1	0
<b>LS2 6.0L 3 bolt cam</b>	CS8LS2-SR	CS8LS2	1
<b>LS7 7 litre 3 bolt cam</b>	CS8LS7-SR	CS8LS7	4
<b>LS3,L76, L77, L98 6.0, 6.2 L Single bolt cam</b>	CS8LS-VE-SR	CS8L98	4
<b>L76, L77, L98 3 bolt cam conversion</b>	CS8LS7-SR	CS8LS7	4
<b>VE 3 Bolt Gear Genuine GM</b>	CS12586481		4
<b>3 bolt Heavy Duty Steel cam gear</b>	CS8LS-VE3		4

## SPECIAL GRINDS AVAILABLE ON REQUEST

**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.

Titanium Parts Kit Available					
VTKLST	Titanium Retainers	Dual Valve Springs	Locks	Stem Seals	Spring Seats



## FITTING NOTES:

- 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.

LS Heavy Duty Lifter and Guide Kit	
LS7LIFTERKIT	Genuine OEM LS7 Roller Lifter (5250) & Lifter Guide Kit (LS7GUIDE)



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

# HOLDEN/CHEV LS V8 3 BOLT ROCKER RATIO 1.70

**Parts kit includes items marked in black (Order as Kit or Individually)  
Camshaft not included in Parts Kit.**

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Installed Height	Parts Kit	Valve Spring	Retainer	Locks	Stem Seal	Spring Seat	Lifters (See Notes)	Timing Kit	Pushrods (See Notes)	Rockers
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust												

## TOP MOUNT SUPERCHARGER GRINDS TO CONVERT SINGLE BOLT TO 3 BOLT CAM USE CS12586481 GEAR

Supercharged street cam for low to medium boost engines. Great power and torque through wide RPM range (See Fitting notes 1, 2 & 4)	2200 - 6500	871292	276	296	225	244	.607"	.607"	115		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Supercharged Street cam for Medium to high boost engines. Excellent mid range to high RPM power and torque. (See Fitting notes 1,2 & 4)	2400-6700	871288SC	289	298	234	249	.610"	.610"	118		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Supercharged street /strip cam, Great mid range and top end power (See Fitting notes 1, 2 & 4)	2600 - 6900	871293	294	303	239	250	.598"	.612"	114		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Streetable supercharged cam, Wide torque and power range Moderate lift. Easy on valve train. (See Fitting notes 1, 2 & 4)	2800 - 7000	871294	292	294	240	243	.581"	.585"	115		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A

## TURBO GRINDS REVERSE SPLIT CAMSHAFTS ALSO SUIT SIDE MOUNT SUPERCHARGERS.

Reverse split cam designed for single turbo Street applications to moderate boost (Fitting notes 1, 2 & 4)	2000-6000	871753	276	270	229	224	.570"	.561"	116		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Street twin turbo cam, Suit low to medium boost. Wide power and torque range (See Fitting notes 1, 2 & 4)	2700-6900s	871295	280	285	227	231	.609"	.602"	114		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Street/Strip twin turbo cam for medium to high boost engines. Excellent mid range power and torque.(Fitting notes 1, 2 & 4)	3000-6800	871745	278	289	224	236	.612"	.620"	115		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Reverse split cam suits single turbo Street/ Strip application with moderate to high boost. (Fitting notes 1, 2 & 4)	2500-6500	871754	284	276	237	230	.578"	.571"	115		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Street/ Race cam suits high boost twin turbo engines. Great mid to high end Power and torque, (Fitting notes 1, 2 & 4)	3000-7000	871260	271	284	233	245	.615"	.623"	116		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Street / Race reverse split single turbo cam suit high boost Very strong top end power (See Fitting notes 1, 2 & 4)	2600 - 7000	871296R	290	286	237	232	.604"	.612"	115		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A
Twin turbo Street Race cam for high boost engines . Great Top end power and torque. (Fitting notes 1, 2 & 4)	3000-7400	871242	294	303	238	250	.598"	.612"	116		1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250	See Notes	PR5740-110	N/A

### NOTES:

Valve lift calculated using standard 1.70 rocker ratio.  
Advertised duration shown at .006".  
Spring installed height should be checked before ordering.  
See Spring Specs for installed height pressure ratings.

### LIFTER NOTES:

5250 is OEM style drop in lifter using original buckets.  
5251 is tie bar style lifter.  
Performance lifters available. See pg 92-93.

### PUSHROD NOTES:

Standard pushrod length listed for reference only.  
Pushrod length needs to be checked on assembly prior to ordering.

**NOTE:** GM LS Chain sets not supplied in Parts Kit. Order by engine type below.

Engine	Single Row	Double Row	Triggers
<b>LS1,LS6 5.7L 3 bolt cam</b>	CS8LS1-SR	CS8LS1	0
<b>LS2 6.0L 3 bolt cam</b>	CS8LS2-SR	CS8LS2	1
<b>LS7 7 litre 3 bolt cam</b>	CS8LS7-SR	CS8LS7	4
<b>LS3,L76, L77, L98 6.0, 6.2 L Single bolt cam</b>	CS8LS-VE-SR	CS8L98	4
<b>L76, L98 3 bolt cam conversion</b>	CS8LS7-SR	CS8LS7	4
<b>VE 3 Bolt Gear Genuine GM</b>	CS12586481		4
<b>3 bolt Heavy Duty Steel cam gear</b>	CS8LS-VE3		4

## SPECIAL GRINDS AVAILABLE ON REQUEST

**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.

Titanium Parts Kit Available					
<b>VTKLST</b>	Titanium Retainers	Dual Valve Springs	Locks	Stem Seals	Spring Seats



### FITTING NOTES:

• 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.

LS Heavy Duty Lifter and Guide Kit	
<b>LS7LIFTERKIT</b>	Genuine OEM LS7 Roller Lifter (5250) & Lifter Guide Kit (LS7GUIDE)



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

# HOLDEN/CHEV LSA ENGINE ROCKER RATIO 1.70

**Parts kit includes items marked in black (Order as Kit or Individually)  
Camshaft not included in Parts Kit.**

Application	RPM Range	Part No.	Adv. Duration		.050" Duration		Valve Lift		LSA	Installed Height	Parts Kit	Valve Spring	Retainer	Locks	Stem Seal	Spring Seat	Lifters	Timing Kit	Pushrods (See Notes)	Rockers
			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust												
Smooth idle, Good for daily driver Standard auto	1500-6000	871230	261	281	209	229	.553"	.545"	120	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A
Smooth idle, Strong lower/mid range torque. Standard auto	1800-6300	871279	267	302	215	249	.631"	.631"	121	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A
Mild idle, Strong mid range. Standard auto	2000-6500	871744	271	286	219	236	.608"	.620"	118	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A
Mild idle, Strong mid/upzper torque. Standard auto	2500-6700	871298	275	292	221	238	.581"	.583"	119	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A
Supercharged street cam for low to medium boost engines. Great power and torque through wide RPM range. (See Fitting notes 1, 2 & 4 )	2800-6900	871292SC	276	296	225	244	.607"	.607"	118	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A
Supercharged Street cam for Medium to high boost engines. Excellent mid range to high RPM power and torque. (See Fitting notes 1, 2 & 4 )	3000-7000	871288SC	289	298	234	249	.610"	.610"	118	1.780"	VTKLS9	4439-16 <sup>D</sup>	10708-16	10701-16	S9-16	VSS1251	5250		PR5740-110	N/A

## **CROW CAMS** LS FAMILY PARTS LIST

### HIGH PERFORMANCE TIMING SETS

#### HIGH PERFORMANCE TIMING CHAIN SETS

Featuring hardened teeth for durability and multi keyway for precise cam timing.

Part Number	Application	Triggers	Type	Chain Part Number
<b>CS8LS1</b>	Holden LS1 3 bolt	<b>No Triggers</b>	Double	<b>3DR 60-IWIS</b>
<b>CS8LS1-SR</b>	Holden LS1 3 bolt. Single row chain	<b>No Triggers</b>	Single	<b>3SR 60-IWIS</b>
<b>CS8LS2</b>	Holden LS2 3 bolt with position trigger	<b>Half Circle Single Trigger</b>	Double	<b>3DR 60-IWIS</b>
<b>CS8LS2-SR</b>	Holden LS2 3 bolt with position trigger. Single row	<b>Half Circle Single Trigger</b>	Single	<b>3SR 60-IWIS</b>
<b>CS8LS7</b>	Holden LS7 3 bolt. Double row chain	<b>4 Triggers</b>	Double	<b>3DR 60-IWIS</b>
<b>CS8LS7-SR</b>	Holden LS7 3 bolt. Single row chain	<b>4 Triggers</b>	Single	<b>3SR 60-IWIS</b>
<b>CS8LS-3BK</b>	Holden LS7 3 Bolt Gear & ARP Cam Bolts. Single row	<b>4 Triggers</b>	Single	<b>Gear &amp; Bolts Only</b>
<b>CS8LS-VE-SR</b>	Chev/Holden LS3, L76, L77, L98, 6.0/6.2L	<b>4 Triggers</b>	Single	<b>3SR 60-IWIS</b>
<b>CS8LS-VE3</b>	Holden LS 3 bolt. <b>Cam Gear Only</b> L98 conversion	<b>4 Triggers</b>	Single	<b>Gear Only</b>
<b>CS8L98d</b>	Holden L98 1 bolt. Double row chain	<b>4 Triggers</b>	Double	<b>3DR 60-IWIS</b>
<b>CS12586481</b>	Holden VE 3 Bolt <b>Cam Gear Only</b> Genuine GM. Single	<b>4 Triggers</b>	Single	<b>Gear Only</b>



No Trigger



Single Trigger



4 Triggers

**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.

**NOTES:**

Valve lift calculated using standard 1.70 rocker ratio.  
Advertised duration shown at .006".  
Spring installed height should be checked before ordering.  
See Spring Specs for installed height pressure ratings.

**PUSHROD NOTES:**

Standard pushrod length listed for reference only.  
Pushrod length needs to be checked on assembly prior to ordering.

## **CROW CAMS** LS FAMILY PARTS LIST

### HIGH PERFORMANCE LS LIFTERS

#### HIGH PERFORMANCE LS LIFTERS

Part Number	Application	Type	Body Diameter
<b>5250</b>	GM LS V8 LS7 Style Roller Hydraulic Lifter	Geniune Replacement	.840"
<b>5251</b>	GM LS V8 Street Performance Roller Hydraulic Lifter	High Performance Tie Bar Lifter	.840"
<b>5294</b>	GM LS V8 High RPM .750" Hydraulic Roller Diameter	Tie Bar	.840"
<b>5261</b>	GM LS V8 Street Race .750" Solid Roller Diameter	Tie Bar	.840"
<b>6177BUSH</b>	GM LS V8 Solid Roller Lifter BUSH Bearing Pressure Fed	Tie Bar	.840"
<b>5263AFM</b>	Holden L76 AFM Hydraulic Roller Lifter	Genuine Replacement (8 x 5250, 8 x 5250AFM-1)	.840"



**FITTING NOTES:**

• 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.