HYDRAULIC & SOLID CAMSHAFTS

Non Roller 1963-1984
194 230 250 inline 6 cylinder

Note: 292 cid cam cores are available from Crower on a special order basis.

HYDRAULIC CAMSHAFTS
Note: These cams use .000" intake and exhaust valve lash.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot;</th>
<th>Duration @ .050&quot;</th>
<th>Gross Lift</th>
<th>Intake</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE COMPU-PRO / Performance Level 1 - Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 plus.</td>
<td>All cid</td>
<td>03240</td>
<td>240HDP 114°</td>
<td>240° 248°</td>
<td>182° 192°</td>
<td>.436° .452°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POWER COMPU-PRO / Performance Level 2 - Perfect combination power/mileage with extended rpm's. RPM Power Range: 1500 to 4000 / Redline: 5500 plus.</td>
<td>All cid</td>
<td>03241</td>
<td>248HDP 112°</td>
<td>248° 258°</td>
<td>192° 200°</td>
<td>.448° .460°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIGH PERFORMANCE COMPU-PRO / Performance Level 3 - Hot street profile with strong upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus.</td>
<td>All cid</td>
<td>03242</td>
<td>262HDP 112°</td>
<td>262° 272°</td>
<td>204° 212°</td>
<td>.478° .490°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ULTRA PERFORMANCE COMPU-PRO / Performance Level 4 - Street/strip cam. Super top end torque and horsepower. RPM Power Range: 2000 to 6000 / Redline: 6500</td>
<td>All cid</td>
<td>03243</td>
<td>272HDP 112°</td>
<td>272° 276°</td>
<td>210° 212°</td>
<td>.490° .508°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00001</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SOLID CAMSHAFTS
Note: These cams use .022" intake, .024" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot;</th>
<th>Duration @ .050&quot;</th>
<th>Gross Lift</th>
<th>Intake</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPU-PRO / Performance Level 4 - High torque, all purpose camshaft. RPM Power Range: 2250 to 6000 / Redline: 6500 plus.</td>
<td>All cid</td>
<td>03311</td>
<td>282FDP 107°</td>
<td>282° 287°</td>
<td>238° 242°</td>
<td>.525° .532°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Does it all. Brutal power throughout the power range. RPM Power Range: 3000 to 6500 / Redline: 7000 plus.</td>
<td>All cid</td>
<td>03312</td>
<td>292FDP 107°</td>
<td>292° 298°</td>
<td>248° 252°</td>
<td>.548° .564°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Explosive power. Superior mid-range and top end torque. RPM Power Range: 3500 to 7000 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03313</td>
<td>304FDP 107°</td>
<td>304° 310°</td>
<td>258° 264°</td>
<td>.585° .600°</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00000</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00060</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: 292 cid cam cores are available from Crower on a special order basis.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84008</td>
<td>66000-12</td>
<td>68301X1-12</td>
<td>68032-12</td>
<td>86072-12</td>
<td>Hydraulic Lifter.</td>
</tr>
<tr>
<td>84303</td>
<td>66900-12</td>
<td>68390X3-12</td>
<td>87048-12</td>
<td>86072-12</td>
<td>Solid Lifter.</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
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</tr>
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<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg's. 146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>Pg's. 150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg's. 150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

Chevy V6 230 250 292 Billet Roller Cams available. Call Crower

Spring pressure: 68301X1-12 Seat: 1.700" @ 101 lbs / Nose: 1.200" @ 297 lbs / Coil bind: 1.130" (Stock O.D., no machine work). 68390X3-12 Seat: 1.800" @ 115 lbs / Nose: 1.300" @ 331 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*). * Machine work required, specify 11/32 pilot shaft when ordering. CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050°). Valve timing events are available online at: www.crower.com/valvtme.html
HYDRAULIC & SOLID CAMSHAFTS

HYDRAULIC CAMSHAFTS

Note: These cams use .000” intake and exhaust valve lash.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050” Exhaust Intake</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE COMPU-PRO / Performance Level 1 - Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 plus</td>
<td>All cid</td>
<td>03040</td>
<td>240HDP 114°</td>
<td>240° 248°</td>
<td>182° 192°</td>
<td>.386” .387”</td>
</tr>
<tr>
<td>MILEAGE BEAST / Performance Level 2 - Perfect combination power/mileage with extended rpm’s. RPM Power Range: 1500 to 4000 / Redline: 5500 plus</td>
<td>All cid</td>
<td>03002</td>
<td>258HDP 109°</td>
<td>258° 265°</td>
<td>194° 202°</td>
<td>.390” .410”</td>
</tr>
<tr>
<td>BAJA BEAST / Performance Level 3 - Strong upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 5750 plus</td>
<td>All cid</td>
<td>03015</td>
<td>278HDP 112°</td>
<td>283° 286°</td>
<td>204° 214°</td>
<td>.422” .444”</td>
</tr>
<tr>
<td>ULTRA PERFORMANCE COMPU-PRO / Performance Level 4 - Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5000 / Redline: 6000 plus</td>
<td>All cid</td>
<td>03043</td>
<td>278HDP 112°</td>
<td>278° 284°</td>
<td>212° 218°</td>
<td>.435” .449”</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500</td>
<td>All cid</td>
<td>03050</td>
<td>290HDP 108°</td>
<td>290° 298°</td>
<td>226° 234°</td>
<td>.470” .492”</td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00001</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

SOLID CAMSHAFTS

Note: These cams use .022” intake, .024” exhaust valve lash.

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<tr>
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<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050” Exhaust Intake</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPU-PRO / PERFORMANCE LEVEL 3 - Extended rpm range with emphasis on upper bottom to top end power, strong mid-range. RPM Power Range: 2200 to 6000 / Redline: 7000 plus.</td>
<td>All cid</td>
<td>03065</td>
<td>260FDP 112°</td>
<td>260° 266°</td>
<td>212° 216°</td>
<td>.420” .423”</td>
</tr>
<tr>
<td>COMPU-PRO / PERFORMANCE LEVEL 4 - Hot street/strip profile. Strong mid to top end torque and horsepower. RPM Power Range: 2500 to 6500 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03066</td>
<td>282FDP 110°</td>
<td>282° 287°</td>
<td>236° 242°</td>
<td>.449” .458”</td>
</tr>
<tr>
<td>COMPU-PRO / PERFORMANCE LEVEL 5 - Fantastic top end profile with plenty of horsepower. RPM Power Range: 3000 to 7000 / Redline: 8000 plus.</td>
<td>All cid</td>
<td>03067</td>
<td>292FDP 108°</td>
<td>292° 298°</td>
<td>248° 250°</td>
<td>.470” .479”</td>
</tr>
<tr>
<td>CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00000</td>
<td></td>
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ENGINEERED COMPONENT KITS

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<th>Part No.</th>
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<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>84008</td>
<td>66000-12</td>
<td>68301X1-12</td>
<td>86032-12</td>
<td>86072-12</td>
<td>Hydraulic Lifter.</td>
</tr>
<tr>
<td>84303</td>
<td>66900-12</td>
<td>68390X3-12</td>
<td>87048-12</td>
<td>86072-12</td>
<td>Solid Lifter.</td>
</tr>
</tbody>
</table>

Spring pressure:
68301X1-12 Seat: 1.700” @ 101 lbs / Nose: 1.200” @ 297 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
68390X3-12 Seat: 1.800” @ 115 lbs / Nose: 1.300” @ 331 lbs / Coil bind: 1.110” (Machine work, use cutter 68985*).
* Machine work required, specify 11/32 pilot shaft when ordering.

CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050”).

Valve timing events are available online at:
www.crower.com/valvtime.html

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<td>Spring seat cutter</td>
</tr>
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<td>Pg’s. 146-149</td>
<td>Pushrods</td>
</tr>
</tbody>
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Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. See specs or contact Crower.
HYDRAULIC CAMSHAFTS

Note: These cams use .000" intake and exhaust valve lash.

<table>
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<th>Part Number</th>
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<th>Advertised Duration Intake</th>
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<th>Gross Lift Intake / Exhaust</th>
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<tbody>
<tr>
<td>MILEAGE COMPU-PRO / Performance Level 1 - Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 plus</td>
<td>All cid</td>
<td>03140</td>
<td>240HDP 114°</td>
<td>240° 248°</td>
<td>182° 190°</td>
<td>386° .387°</td>
</tr>
<tr>
<td>MILEAGE BEAST / Performance Level 2 - Perfect combination power/mileage with extended rpm's. RPM Power Range: 1500 to 4000 / Redline: 5500 plus</td>
<td>All cid</td>
<td>03102</td>
<td>270HDP 112°</td>
<td>270° 278°</td>
<td>194° 204°</td>
<td>398° .422°</td>
</tr>
<tr>
<td>BAJA BEAST / Performance Level 3 - Strong upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus</td>
<td>All cid</td>
<td>03115</td>
<td>278HDP 114°</td>
<td>278° 288°</td>
<td>204° 214°</td>
<td>422° .444°</td>
</tr>
<tr>
<td>POWER BEAST / Performance Level 4 - Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5500 / Redline: 6250 plus</td>
<td>All cid</td>
<td>03103</td>
<td>288HDP 112°</td>
<td>288° 298°</td>
<td>214° 224°</td>
<td>444° .467°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4- Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500</td>
<td>All cid</td>
<td>03150</td>
<td>280HDP 108°</td>
<td>280° 288°</td>
<td>226° 232°</td>
<td>474° .484°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 5- Explosive mid to top end power with emphasis on the upper end. RPM Power Range: 2500 to 6500 / Redline: 6500</td>
<td>All cid</td>
<td>03151</td>
<td>296HDP 108°</td>
<td>296° 308°</td>
<td>228° 244°</td>
<td>509° .498°</td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00001</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SOLID CAMSHAFTS

Note: These cams use .022" intake, .024" exhaust valve lash.

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<th>Description</th>
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<th>Part Number</th>
<th>Grind Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050&quot; Intake</th>
<th>Gross Lift Intake / Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPU-PRO / Performance Level 4 - High torque, all purpose grind for most applications. RPM Power Range: 2200 to 6200 / Redline: 6750 plus.</td>
<td>All cid</td>
<td>03165</td>
<td>282FDP 110°</td>
<td>282° 287°</td>
<td>238° 244°</td>
<td>.451° .460°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Vicious horsepower throughout the power band. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03166</td>
<td>292FDP 108°</td>
<td>292° 298°</td>
<td>246° 250°</td>
<td>.468° .479°</td>
</tr>
<tr>
<td>CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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ENGINEERED COMPONENT KITS

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<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84008</td>
<td>66000-12</td>
<td>68301X1-12</td>
<td>86032-12</td>
<td>86072-12</td>
<td>Hydraulic Lifter.</td>
</tr>
<tr>
<td>84303</td>
<td>66900-12</td>
<td>68390X3-12</td>
<td>87048-12</td>
<td>86072-12</td>
<td>Solid Lifter.</td>
</tr>
</tbody>
</table>

Spring pressure:
68301X1-12 Seat: 1.700" @ 101 lbs / Nose: 1.200" @ 297 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
68390X3-12 Seat: 1.800" @ 115 lbs / Nose: 1.300" @ 331 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).
* Machine work required, specify 11/32 pilot shaft when ordering.

CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050"). Valve timing events are available online at: www.crower.com/valvtime.html

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<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.'s. 146-149</td>
<td>Pushrods</td>
</tr>
</tbody>
</table>

Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. See specs or contact Crower.
ROLLER CAMSHAFTS

Mechanical

200 229 90° V6 (3.8L)

Note: These cams use .026" intake, .028" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot;</th>
<th>Duration @ .050&quot;</th>
<th>Gross Lift 1.5 / 1.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULTRA ACTION / Performance Level 5 - High torque, all purpose grind. RPM Power Range: 2200 to 6200 / Redline: 6500 plus.</td>
<td>All cid</td>
<td>03401</td>
<td>284R 105°</td>
<td>284° 294°</td>
<td>254° 260°</td>
<td>.621&quot; .624&quot;</td>
</tr>
<tr>
<td>ULTRA ACTION / Performance Level 5 - Brutal mid-range. Perfect oval track profile. RPM Power Range: 4000 to 7500 / Redline: 7000 plus.</td>
<td>All cid</td>
<td>03402</td>
<td>294R 105°</td>
<td>294° 302°</td>
<td>260° 268°</td>
<td>.624&quot; .621&quot;</td>
</tr>
<tr>
<td>ULTRA ACTION / Performance Level 5 - Impressive mid-range and top end profile for the drags. RPM Power Range: 4500 to 8000 / Redline: 8500 plus.</td>
<td>All cid</td>
<td>03403</td>
<td>297R 105°</td>
<td>297° 304°</td>
<td>264° 268°</td>
<td>.624&quot; .623&quot;</td>
</tr>
<tr>
<td>CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.</td>
<td>All cid</td>
<td>00060</td>
<td></td>
<td></td>
<td></td>
<td>Refer to page 7 for camshaft recommendation form</td>
</tr>
</tbody>
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Engineered Component Kit for the above part #’s: 84508

ENGINEERED COMPONENT KITS

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<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
<td>84508</td>
<td>66289-12</td>
<td>68380X2 -12</td>
<td>87048-12</td>
<td>86072-12</td>
<td>For rpm up to 7500</td>
</tr>
</tbody>
</table>

Spring pressure:
68380X2-12 Seat: 1.800" @ 197 lbs / Nose: 1.200" @ 452 lbs / Coil bind: 1.110" (Machine work, use cutter 68999*).
Optional springs:
68363-12 ( Longer valve stems are required).

* Machine work required, specify 11/32 pilot shaft when ordering.

CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050°).
Valve timing events are available online at: www.crower.com/valvtime.html

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<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg’s. 150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg’s. 150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

SPRING INSTALLED HEIGHT

Measure the height from top of keeper groove to bottom of spring seat. Refer to the “height” column of your retainer and add or subtract the amount given from the original overall measurement.
HYDRAULIC & SOLID CAMSHAFTS
Non Roller
262 90° V6 (4.3L)

HYDRAULIC CAMSHAFTS
Note: These cams use .000” intake and exhaust valve lash.

<table>
<thead>
<tr>
<th>Performance Level</th>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .050” Exhaust</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE COMPU-PRO / Performance Level 1</td>
<td>Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 plus</td>
<td>All cid</td>
<td>03340</td>
<td>240° / 248°</td>
<td>182° / 190°</td>
<td>.386° / .387°</td>
</tr>
<tr>
<td>MILEAGE BEAST / Performance Level 2</td>
<td>Perfect combination power/mileage with extended rpm’s. RPM Power Range: 1500 to 4000 / Redline: 5500 plus</td>
<td>All cid</td>
<td>03302</td>
<td>260° / 272°</td>
<td>194° / 204°</td>
<td>.398° / .420°</td>
</tr>
<tr>
<td>HIGH PERFORMANCE COMPU-PRO / Performance Level 3</td>
<td>Strong upper bottom/top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus</td>
<td>All cid</td>
<td>03342</td>
<td>264° / 270°</td>
<td>202° / 206°</td>
<td>.419° / .420°</td>
</tr>
<tr>
<td>ULTRA PERFORMANCE COMPU-PRO / Performance Level 4</td>
<td>Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5500 / Redline: 6000 plus</td>
<td>All cid</td>
<td>03343</td>
<td>278° / 284°</td>
<td>212° / 218°</td>
<td>.435° / .449°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4</td>
<td>Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500</td>
<td>All cid</td>
<td>03350</td>
<td>280° / 288°</td>
<td>226° / 232°</td>
<td>.474° / .484°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 5</td>
<td>Explosive mid to top end power with emphasis on the upper end. RPM Power Range: 2500 to 6500 / Redline: 6700 plus</td>
<td>All cid</td>
<td>03351</td>
<td>296° / 308°</td>
<td>228° / 244°</td>
<td>.509° / .498°</td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC</td>
<td>Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00001</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SOLID CAMSHAFTS
Note: These cams use .022” intake, .024” exhaust valve lash.

<table>
<thead>
<tr>
<th>Performance Level</th>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .050” Exhaust</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPU-PRO / Performance Level 4</td>
<td>High torque, all purpose grind for most applications. RPM Power Range: 2200 to 6200 / Redline: 6750 plus.</td>
<td>All cid</td>
<td>03365</td>
<td>282° / 287°</td>
<td>238° / 244°</td>
<td>.451° / .460°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5</td>
<td>Vicious horsepower throughout the power band. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03366</td>
<td>292° / 298°</td>
<td>246° / 250°</td>
<td>.468° / .474°</td>
</tr>
<tr>
<td>CUSTOM GROUND SOLID</td>
<td>Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td>All cid</td>
<td>00000</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84008</td>
<td>66000-12</td>
<td>68301X1 -12</td>
<td>86032-12</td>
<td>86072-12</td>
<td>Hydraulic Lifter.</td>
</tr>
<tr>
<td>84303</td>
<td>66900-12</td>
<td>68390X3 -12</td>
<td>87048-12</td>
<td>86072-12</td>
<td>Solid Lifter.</td>
</tr>
</tbody>
</table>

Spring pressure:
68301X1-12 Seat: 1.700” @ 101 lbs / Nose: 1.200” @ 297 lbs /
Coil bind: 1.130” (Stock O.D., no machine work),
68390X3-12 Seat: 1.800” @ 115 lbs / Nose: 1.300” @ 331 lbs /
Coil bind: 1.110” (Machine work, use cutter 669895*).

* Machine work required, specify 11/32 pilot shaft when ordering.

CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050”).
Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.’s. 146-149</td>
<td>Pushrods</td>
</tr>
</tbody>
</table>

Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. See specs or contact Crower.
ROLLER CAMSHAFTS

Mechanical
262 90° V6 (4.3L)

Note: These cams use .026" intake, .028" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Center Intake</th>
<th>Advertised Duration Intake</th>
<th>Duration @.050&quot; Exhaust</th>
<th>Gross Lift Intake / Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>ULTRA ACTION / Performance Level 5 - High torque, all purpose grind. RPM Power Range: 3500 to 7000 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03450</td>
<td>284R 105°</td>
<td>294° 294°</td>
<td>254° 260°</td>
<td>.621&quot; .624&quot;</td>
</tr>
<tr>
<td>ULTRA ACTION / Performance Level 5 - Brutal mid-range. Perfect oval track profile. RPM Power Range: 4000 to 7500 / Redline: 7500 plus.</td>
<td>All cid</td>
<td>03451</td>
<td>294R 105°</td>
<td>294° 302°</td>
<td>260° 268°</td>
<td>.624&quot; .621&quot;</td>
</tr>
<tr>
<td>ULTRA ACTION / Performance Level 5 - Impressive mid-range and top end profile for the drags. RPM Power Range: 4500 to 8000 / Redline: 8000 plus.</td>
<td>All cid</td>
<td>03452</td>
<td>297R 105°</td>
<td>297° 304°</td>
<td>264° 268°</td>
<td>.624&quot; .623&quot;</td>
</tr>
</tbody>
</table>

CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter Springs</th>
<th>Retainer Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84508</td>
<td>66289-12</td>
<td>68380X2-12</td>
<td>For rpm up to 7500 plus</td>
</tr>
</tbody>
</table>

Spring pressure:
68380X2-12 Seat: 1.800" @ 197 lbs / Nose: 1.200" @ 452 lbs / Coil bind: 1.110" (Machine work, use cutter 68999*).
Optional springs:
68363-12 (Longer valve stems are required).

* Machine work required, specify 11⁄32 pilot shaft when ordering.

CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050°).
Valve timing events are available online at: www.crower.com/valvtime.html

![Diagram 1. Calculating Installed Spring Height](image)

Measure the height from top of keeper groove to bottom of spring seat. Refer to the "height" column of your retainer and add or subtract the amount given from the original overall measurement.

**ACCESSORIES**

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<tr>
<th>Part No.</th>
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<tbody>
<tr>
<td>See pg 180</td>
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<tr>
<td>Pg's. 146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg’s. 150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg’s. 150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

**Note:** If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. See specs or contact Crower.
# BEAST HYDRAULIC CAMSHAFTS

**1957-1998 Non Roller**

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000” intake and exhaust valve lash.

## X-TREME MILEAGE CAMS AVAILABLE!

**CONTACT CROWER TECHNICIANS FOR MORE INFO.**

### ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Advertised Duration Exhaust</th>
<th>Duration @ .050” Intake</th>
<th>Duration @ .050” Exhaust</th>
<th>Gross Lift 1.5 / 1.5 Intake</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MILEAGE BEAST / Performance Level 1</strong> - Smooth idle, fuel efficient design. Exceeds factory replacement cam. Economical price. <strong>RPM Power Range:</strong> Idle to 3500 / Redline: 4500 plus</td>
<td>283 350 400</td>
<td>00902</td>
<td>246H 112°</td>
<td>246° 252°</td>
<td>192° 198°</td>
<td>.393” .402”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BAJA BEAST / Performance Level 2</strong> - Strong bottom end power. Excellent for trucks and heavy cars. Economical price. <strong>RPM Power Range:</strong> 1200 to 3800 / Redline: 5200 plus</td>
<td>283 350 400</td>
<td>00915</td>
<td>258H 112°</td>
<td>258° 264°</td>
<td>204° 208°</td>
<td>.414” .417”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TORQUE BEAST / Performance Level 3</strong> - Low to mid-range torque for daily drivability. Economical price. <strong>RPM Power Range:</strong> 1800 to 5500 / Redline: 6000 plus</td>
<td>283 350 400</td>
<td>00904</td>
<td>288H 112°</td>
<td>288° 298°</td>
<td>214° 224°</td>
<td>.444” .467”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HOT STREET BEAST / Performance Level 3</strong> - Delivers impressive mid-range and top-end power. Healthy sound. Economical price. <strong>RPM Power Range:</strong> 2000 to 5700 / Redline: 6200 plus</td>
<td>283 350 400</td>
<td>00903</td>
<td>278H 112°</td>
<td>278° 284°</td>
<td>218° 226°</td>
<td>.462” .470”</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ULTRA BEAST / Performance Level 4</strong> - Upper mid-range to top end power. High stall convertor or 4-speed. Economical price. <strong>RPM Power Range:</strong> 2800 to 6200 / Redline: 6500</td>
<td>283 350 400</td>
<td>00917</td>
<td>304H 112°</td>
<td>304° 316°</td>
<td>234° 244°</td>
<td>.488” .509”</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
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</tr>
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<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.'s. 146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg.'s. 150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg.'s. 150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

**Note:** If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

### EIGHTY MILEAGE CAMS AVAILABLE!

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
- 68301X3-16 Seat: 1.700” @ 104 lbs / Nose: 1.200” @ 269 lbs / Coil bind: 1.125” (Stock O.D., no machine work).
- 68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.200” @ 297 lbs / Coil bind: 1.130” (Stock O.D., no machine work).

**BE SMART!** Crower performance camshafts feature high lift, fast action features that can cause stock or other aftermarket valve train components to fail. Be sure to use a Crower engineered kit to avoid possible damage.

Valve timing events are available online at [www.crower.com/valvtime.html](http://www.crower.com/valvtime.html)

**CROWER CAM BREAK-IN PROCEDURE**

This applies to all hydraulic and solid lifter camshafts using higher than stock spring pressure:
- Do not use block restrictors in the oil galleys. This severely limits oil flow to the cam, lifters and overhead.
- Break-in cam and lifters with low pressure springs only. Do not exceed 225 to 250 lbs open pressure.
- During break-in run engine for 35 to 45 minutes and vary rpm from 2000 to 3000.
- For break-in procedure Crower recommends 10W/30 motor oil. Heavier weight oils do not cold flow.
- Do not use synthetic oils during break-in period.
- For further information, please refer to the Crower Installation booklet that accompanies the camshaft.
For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com

HYDRAULIC CAMSHAFTS

Non Roller 1957-1998
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000” intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050” Intake</th>
<th>Duration Intake</th>
<th>Gross Lift</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE COMPU-PRO / PERFORMANCE LEVEL 1 - These cams are designed to enhance throttle response and low-end torque in vans, trucks and passenger cars while delivering fuel efficient motoring. High vacuum, smooth idle and maximum fuel efficiency are characteristic to these profiles. Stock or small cfm carburetor, small diameter tube headers, dual exhaust, and ignition rework are recommended for maximum benefit. Intended for low compression engines operating in the “economy zone.” RPM Power Range: Idle to 3500-3700 / Redline: 4500 plus.</td>
<td>262 283</td>
<td>00236</td>
<td>236HDP 112°</td>
<td>236° 246°</td>
<td>180° 184°</td>
<td>.371” .384”</td>
<td>84002</td>
</tr>
<tr>
<td></td>
<td>302 327</td>
<td>00237</td>
<td>246HDP 112°</td>
<td>246° 253°</td>
<td>184° 192°</td>
<td>.371” .395”</td>
<td>84002</td>
</tr>
<tr>
<td></td>
<td>350 327</td>
<td>00238</td>
<td>250HDP 112°</td>
<td>250° 258°</td>
<td>192° 196°</td>
<td>.392” .399”</td>
<td>84002</td>
</tr>
<tr>
<td></td>
<td>400 327</td>
<td>00239</td>
<td>254HDP 112°</td>
<td>254° 265°</td>
<td>204° 210°</td>
<td>.431” .431”</td>
<td>84002 or 84000</td>
</tr>
</tbody>
</table>

POWER COMPU-PRO / PERFORMANCE LEVEL 2 - These cams provide excellent low end and mid-range power and extended rpm range for spirited street and off-road driving. A perfect combination of mileage and power. Modifications should include small diameter tube headers, low restriction dual exhaust, aftermarket manifold, increased cfm carburetor and reworked or performance ignition. Increase in compression ratio to 9.5:1 is recommended for maximum output. Works well with automatic transmission or 4-speed. RPM Power Range: 1300-1500 to 4000-4200 / Redline: 5500 plus.

| | 262 283 | 00238 | 250HDP 112° | 250° 258° | 192° 196° | .392” .399” | 84002 or 84000 |
| | 302 327 | 00239 | 254HDP 112° | 254° 265° | 204° 210° | .431” .431” | 84002 or 84000 |
| | 350 327 | 00240 | 267HDP 112° | 267° 272° | 210° 216° | .445” .445” | 84000 |
| | 400 327 | 00241 | 270HDP 276° | 270° 276° | 214° 218° | .456” .458” | 84000 |

Note: Late model Chevrolet 305 and 350 V8 engines (1988-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering.

ENGINEERED COMPONENT KITS

| Part No. Lifters Springs Retainers Seals Remarks |
|---|---|---|---|---|
| 84002 | 66000-16 68301X3-16 86032-16 | For rpm up to 6000 max. Daily street use. |
| 84000 | 66000-16 68301X1-16 86032-16 | For rpm up to 6200 max. Limited street use. |
| 84006 | 66000-16 68311X1-16 86032-16 | Race only applications. |

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:

| | With 1940’s & 1950’s conversion camshafts, vessel degrees may be up to 0.5°. | With 1957-87 V8 engines (1980-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering. |

For rpm up to 6000 max. Daily street use. |

For rpm up to 6200 max. Limited street use. |

Race only applications. |

Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

REMEMBER! Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.
For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com

HYDRAULIC CAMSHAFTS
Non Roller 1957-1998
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

ENGINEERED COMPONENT KITS

<table>
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<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6200 max. Limited street use.</td>
</tr>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td></td>
<td>Race only applications.</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For rpm 6500 max. Limited street use.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube "CamSaver" lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
68301X1-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil bind: 1.070" (Stock O.D., no machine work).
68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).

* Machine work required, specify 1/32 pilot shaft when ordering.

Note: If using 3.750" stroke or above cranks, specify "S" after cam p/n for small base circle consideration.

Valve timing events are available online at: [www.crower.com/valvetime.html](http://www.crower.com/valvetime.html)

ACCESSORIES

<table>
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<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

REMEMBER! Increasing rocker ratio on intake (.16) will make the cam approximately 3° duration and .030" more lift.
HYDRAULIC CAMSHAFTS (continued)

Non Roller 1957-1998
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

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<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot; Intake</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Gross Lift</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Lope at idle. Hot street/drag cam with strong mid-range power. RPM Power Range: 2000-2400 to 6000-6200</td>
<td>327</td>
<td>00210</td>
<td>278HDP 108°</td>
<td>286°</td>
<td>289°</td>
<td>225°</td>
<td>229°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Rough idle. Explosive mid-range torque. RPM Power Range: 2500 to 6400 max.</td>
<td>384</td>
<td>00211</td>
<td>296HDP 108°</td>
<td>296°</td>
<td>308°</td>
<td>232°</td>
<td>242°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 5 - Rough idle and mid-range acceleration. RPM Power Range: 2750 to 6500 max.</td>
<td>327</td>
<td>00212</td>
<td>304HDP 108°</td>
<td>300°</td>
<td>308°</td>
<td>240°</td>
<td>248°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 5 - Rough idle. Brutal mid to top-end torque and horsepower. RPM Power Range: 3000 to 6500 max.</td>
<td>384</td>
<td>00213</td>
<td>308HDP 106°</td>
<td>303°</td>
<td>311°</td>
<td>248°</td>
<td>256°</td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 5 - Extremely rough idle. Top-end power only. RPM Power Range: 3500 to 6500 max.</td>
<td>350</td>
<td>00214</td>
<td>302HDP 105°</td>
<td>302°</td>
<td>312°</td>
<td>250°</td>
<td>256°</td>
</tr>
</tbody>
</table>

Note: Late model Chevrolet 305 and 350 V8 engines (1988-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6200 plus. Limited street use.</td>
<td>Pushrods Pg.146-149</td>
</tr>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td></td>
<td>Race only applications.</td>
<td>SS Rocker arms Pg 150-160</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For rpm 6500 max. Limited street use.</td>
<td>Alum. Rocker arms Pg's 150-165</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:
68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.250” @ 389 lbs / Coil bind: 1.070” (Stock O.D., no machine work).
68390X3-16 Seat: 1.800” @ 116 lbs / Nose: 1.250” @ 355 lbs / Coil bind: 1.110” (Machine work, use cutter 68985*).

* Machine work required, specify 11/32 pilot shaft when ordering.

Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

REMEMBER! Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.

SPRING INSTALLED HEIGHT

Measure the height from top of keeper groove to bottom of spring seat. Refer to the “height” column of your retainer and add or subtract the amount given from the original overall measurement.

Note: See pages 8-9 for a detailed explanation of each Performance Level.
HYDRAULIC CAMSHAFTS (continued)

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot; Intake</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Gross Lift 1.5 / 1.5</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TURBOMASTER 1 - This cam provides excellent low end and mid-range power with mild boost (6 to 12 lbs). Rpm Power Range: 1800 to 5000 / Redline: 6000 plus.</td>
<td>350 400</td>
<td>00978</td>
<td>278HT 114°</td>
<td>278° 260°</td>
<td>212° 200°</td>
<td>.432&quot; .401&quot;</td>
<td>84000 or 84102</td>
</tr>
<tr>
<td>TURBOMASTER 2 - For more boost (12 lbs plus) and higher rpm, this cam will extend your mid-range and top end power. RPM Power Range: 2200 to 6000 / Redline: 6500 max.</td>
<td>350 400</td>
<td>00979</td>
<td>290HT 114°</td>
<td>290° 272°</td>
<td>226° 208°</td>
<td>.465&quot; .420&quot;</td>
<td>84000 or 84102</td>
</tr>
<tr>
<td>SUPERCHARGER 1 - Excellent low and mid-range torque with moderate boost levels (5 to 10 lbs), this cam romps. RPM Power Range: 2400 to 6500 / Redline: 6500 max.</td>
<td>350 400</td>
<td>00980</td>
<td>288HC 114°</td>
<td>288° 288°</td>
<td>232° 232°</td>
<td>.459&quot; .459&quot;</td>
<td>84000 or 84102</td>
</tr>
<tr>
<td>SUPERCHARGER 2 - A very healthy blower cam for increased boost (10 lbs plus) and higher rpm. RPM Power Range: 2800 to 6500 / Redline: 6500 max.</td>
<td>350 400</td>
<td>00981</td>
<td>304HC 114°</td>
<td>304° 304°</td>
<td>236° 236°</td>
<td>.506&quot; .506&quot;</td>
<td>84000 or 84102</td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.</td>
<td>All cid</td>
<td>00001</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM CAM - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.</td>
<td>All cid</td>
<td>00047</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM CAM - Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.</td>
<td>All cid</td>
<td>00055</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
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</table>

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6200 plus. Limited street use.</td>
</tr>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm 6500 max. Limited street use.</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6200 plus. Limited street use.</td>
</tr>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm 6500 max. Limited street use.</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.</td>
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</tbody>
</table>

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Spring pressure:

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:

830X3-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
831X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil bind: 1.070" (Stock O.D., no machine work).
8390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).

* Machine work required, specify 11/32 pilot shaft when ordering.

Note: If using 3.750" stroke or above cranks, specify “S” after cam p/n for small base circle consideration.

Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

REMEMBER! Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030" more lift.
### 420 SERIES HYDRAULIC LIFTER

**Non Roller 1957-1998**

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000” intake and exhaust valve lash.

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>BPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050” Intake</th>
<th>Duration @ .200” Intake</th>
<th>Gross Lift</th>
<th>Recommended Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-307-327 cid</td>
<td>1800 3800 5200 5700</td>
<td>00220 00220S</td>
<td>112°</td>
<td>242°</td>
<td>250°</td>
<td>101°</td>
<td>.401”</td>
<td>.420”</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>1200 3200 4600 5100</td>
<td>00221 00221S</td>
<td>112°</td>
<td>246°</td>
<td>254°</td>
<td>105°</td>
<td>.408”</td>
<td>.429”</td>
</tr>
<tr>
<td>383 cid</td>
<td>1000 3000 4300 4700</td>
<td>00222 00222S</td>
<td>111°</td>
<td>254°</td>
<td>262°</td>
<td>116°</td>
<td>.429”</td>
<td>.450”</td>
</tr>
<tr>
<td>406 cid</td>
<td>700 2900 4100 4500</td>
<td>00223 00223S</td>
<td>110°</td>
<td>262°</td>
<td>270°</td>
<td>125°</td>
<td>.470”</td>
<td>.488”</td>
</tr>
<tr>
<td>262-307-327 cid</td>
<td>1900 3900 5600 6100</td>
<td>00224 00224S</td>
<td>110°</td>
<td>270°</td>
<td>278°</td>
<td>174°</td>
<td>.429”</td>
<td>.450”</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>1300 3300 4800 5200</td>
<td>00225 00225S</td>
<td>108°</td>
<td>278°</td>
<td>286°</td>
<td>142°</td>
<td>.488”</td>
<td>.501”</td>
</tr>
<tr>
<td>383 cid</td>
<td>1200 3200 4500 4900</td>
<td>00226 00226S</td>
<td>108°</td>
<td>290°</td>
<td>298°</td>
<td>154°</td>
<td>.507”</td>
<td>.522”</td>
</tr>
<tr>
<td>406 cid</td>
<td>1100 3100 4300 4700</td>
<td>00227 00227S</td>
<td>108°</td>
<td>298°</td>
<td>305°</td>
<td>162°</td>
<td>.522”</td>
<td>.549”</td>
</tr>
</tbody>
</table>

**CUSTOM GROUND HYDRAULIC** - Special order hydraulic lifter camshaft ground to your specifications.

Refer to page 31 for more Custom Cams

*Indicates premium Pro55 cam core, others are Proferal core. Crower recommends using the factory cast iron distributor gear. If running 3.750” or higher stroke, use the part number with “S” for added rod clearance.

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>Pg.146-149</td>
</tr>
<tr>
<td>84006</td>
<td>See pg. 138</td>
</tr>
<tr>
<td>84102</td>
<td>Pg’s.150-165</td>
</tr>
<tr>
<td></td>
<td>Pg’s.150-165</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube **CamSaver** lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
- 68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
- 68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.250” @ 389 lbs / Coil bind: 1.070” (Stock O.D., no machine work).
- 68390X3-16 Seat: 1.800” @ 116 lbs / Nose: 1.250” @ 355 lbs / Coil bind: 1.110” (Machine work, use cutter 68985*).

**REMEMBER!** Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.
HYDRAULIC CAMSHAFTS FOR EFI, FORCED INDUCTION & NOS
Non Roller 1957-1998
262 267 283 302 305 307 327 350 400 V8 Small Block
Note: These cams use .000” intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Advertised Duration</th>
<th>Intake</th>
<th>Exhaust</th>
<th>Duration @ .050” Intake</th>
<th>Exhaust</th>
<th>Duration @ .200” Intake</th>
<th>Exhaust</th>
<th>Gross Lift</th>
<th>Recommended Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-307-327 cid</td>
<td>2200 4200 5800 6300</td>
<td>00230</td>
<td>262° 270°</td>
<td>214° 222°</td>
<td>125° 134°</td>
<td>.450° .470°</td>
<td>84000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>305-350 cid</td>
<td>1600 3600 5000 5500</td>
<td>00230S</td>
<td>260° 270°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>383 cid</td>
<td>1400 3400 4700 5200</td>
<td>00230S</td>
<td>260° 270°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>406 cid</td>
<td>1300 3300 4500 5000+</td>
<td>00230S</td>
<td>260° 270°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
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<td></td>
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</tr>
<tr>
<td>262-307-327 cid</td>
<td>2500 4500 5900 6400</td>
<td>00231</td>
<td>270° 278°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>305-350 cid</td>
<td>1900 3900 5300 5900</td>
<td>00231S</td>
<td>270° 278°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
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</tr>
<tr>
<td>383 cid</td>
<td>1600 3600 4800 5300</td>
<td>00231S</td>
<td>270° 278°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
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<tr>
<td>406 cid</td>
<td>1500 3500 4600 5200+</td>
<td>00231S</td>
<td>270° 278°</td>
<td>222° 230°</td>
<td>134° 142°</td>
<td>.470° .488°</td>
<td>84000</td>
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</tr>
<tr>
<td>262-307-327 cid</td>
<td>3000 4800 6000 6500</td>
<td>00232*</td>
<td>278° 286°</td>
<td>230° 238°</td>
<td>142° 150°</td>
<td>.488° .501°</td>
<td>84000 84102</td>
<td></td>
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<tr>
<td>305-350 cid</td>
<td>2200 4200 5500 6000</td>
<td>00232S*</td>
<td>278° 286°</td>
<td>230° 238°</td>
<td>142° 150°</td>
<td>.488° .501°</td>
<td>84000 84102</td>
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<tr>
<td>383 cid</td>
<td>1800 3800 5000 5500</td>
<td>00232S*</td>
<td>278° 286°</td>
<td>230° 238°</td>
<td>142° 150°</td>
<td>.488° .501°</td>
<td>84000 84102</td>
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<tr>
<td>406 cid</td>
<td>1700 3700 4800 5300+</td>
<td>00232S*</td>
<td>278° 286°</td>
<td>230° 238°</td>
<td>142° 150°</td>
<td>.488° .501°</td>
<td>84000 84102</td>
<td></td>
<td></td>
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<td>3100 5100 6200 6500</td>
<td>00233*</td>
<td>290° 298°</td>
<td>242° 250°</td>
<td>154° 162°</td>
<td>.507° .522°</td>
<td>84000 84102</td>
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<td></td>
</tr>
<tr>
<td>305-350 cid</td>
<td>2500 4500 5800 6300</td>
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</tr>
<tr>
<td>406 cid</td>
<td>2100 4100 5100 5500+</td>
<td>00233S*</td>
<td>290° 298°</td>
<td>242° 250°</td>
<td>154° 162°</td>
<td>.507° .522°</td>
<td>84000 84102</td>
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<tr>
<td>262-307-327 cid</td>
<td>3400 5400 6500 6500</td>
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<td>298° 308°</td>
<td>250° 260°</td>
<td>162° 168°</td>
<td>.522° .549°</td>
<td>84000 84102</td>
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<tr>
<td>305-350 cid</td>
<td>2800 4800 6000 6500</td>
<td>00234S*</td>
<td>298° 308°</td>
<td>250° 260°</td>
<td>162° 168°</td>
<td>.522° .549°</td>
<td>84000 84102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>383 cid</td>
<td>2400 4400 5600 6000</td>
<td>00234S*</td>
<td>298° 308°</td>
<td>250° 260°</td>
<td>162° 168°</td>
<td>.522° .549°</td>
<td>84000 84102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>406 cid</td>
<td>2300 4300 5300 5800+</td>
<td>00234S*</td>
<td>298° 308°</td>
<td>250° 260°</td>
<td>162° 168°</td>
<td>.522° .549°</td>
<td>84000 84102</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications.

CUSTOM CAM - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.

CUSTOM CAM - Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.

*Indicates premium Pro55 cam core, others are Proferal core. Crower recommends using the factory cast iron distributor gear. If running 3.750” or higher stroke, use the part number with “S” for added rod clearance.

Note: Late model Chevrolet 305 and 350 V8 engines (1988-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>Up to 6000 rpm. Daily street use.</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>Up to 6500 rpm. Limited street use.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:
68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
68390X3-16 Seat: 1.800” @ 116 lbs / Nose: 1.250” @ 355 lbs / Coil bind: 1.110” (Machine work, use cutter 68985*).

Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

Part No. | Description |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

REMEMBER! Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.
**MARINE HYDRAULIC CAMSHAFTS**

**Non Roller 1957-1998**

262 267 283 302 305 307 327 350 400 V8 Small Block

*Note: These cams use .000” intake and exhaust valve lash.*

---

### **X-TREME MILEAGE CAMS AVAILABLE!**

**CONTACT CROWER TECHNICIANS FOR MORE INFO.**

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration @ .050&quot;</th>
<th>Duration @ .050&quot;</th>
<th>Lobe Lift</th>
<th>Gross Lift</th>
<th>Recommended Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-307-327 cid</td>
<td>2300</td>
<td>00215</td>
<td>112°</td>
<td>246°</td>
<td>258°</td>
<td>.283&quot;</td>
<td>.294&quot;</td>
<td>.425&quot;</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>2300</td>
<td>00215S</td>
<td>112°</td>
<td>258°</td>
<td>270°</td>
<td>.303&quot;</td>
<td>.313&quot;</td>
<td>.456&quot;</td>
</tr>
<tr>
<td>383 cid</td>
<td>2000</td>
<td>00217</td>
<td>113°</td>
<td>274°</td>
<td>282°</td>
<td>.320&quot;</td>
<td>.330&quot;</td>
<td>.480&quot;</td>
</tr>
<tr>
<td>406 cid</td>
<td>1900</td>
<td>00217S</td>
<td>113°</td>
<td>278°</td>
<td>286°</td>
<td>.325&quot;</td>
<td>.334&quot;</td>
<td>.488&quot;</td>
</tr>
</tbody>
</table>

*Indicates premium Pro55 cam cores, others are Proferal core. Crower recommends using the factory cast iron distributor gear. If running 3.750” or higher stroke, use the part number with “S” for added rod clearance.

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

---

### **CUSTOM GROUND HYDRAULIC** - Special order hydraulic lifter camshaft ground to your specifications.

- **Part No.:** 00001
  - **Refer to page 7 for camshaft recommendation form**

### **CUSTOM CAM** - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.

- **Part No.:** 00047
  - **Refer to page 7 for camshaft recommendation form**

### **CUSTOM CAM** - Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.

- **Part No.:** 00055
  - **Refer to page 7 for camshaft recommendation form**

---

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X-16</td>
<td>86032-16</td>
<td>Up to 6000 rpm. Daily street use.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:

- 68301X-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).

Valve timing events are available online at: [www.crower.com/valvertime.html](http://www.crower.com/valvertime.html)

---

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pg. 138</td>
<td>Pushrods</td>
</tr>
<tr>
<td>Pg.146-149</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>SS Rocker arms</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Alum. Rocker arms</td>
</tr>
</tbody>
</table>

**REMEMBER!** Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.
STOCK LIFT RULE HYDRAULIC CAMSHAFTS
Non Roller 1957-1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000” intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Exhaust Duration @ .050” Intake</th>
<th>Exhaust</th>
<th>Gross Lift 1/5</th>
<th>Intake</th>
<th>Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3250 - 6000 rpm</td>
<td>00250</td>
<td>218H224 108°</td>
<td>266°</td>
<td>274°</td>
<td>218°</td>
<td>224°</td>
<td>.390”</td>
<td>.408”</td>
</tr>
<tr>
<td>Heavy car, 1/4 mile track, low end</td>
<td>350 - 372 cid / 3000 - 5750 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 2750 - 5500 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3500 - 6000 rpm</td>
<td>00251</td>
<td>228H236 106°</td>
<td>294°</td>
<td>294°</td>
<td>228°</td>
<td>236°</td>
<td>.390”</td>
<td>.410”</td>
</tr>
<tr>
<td>Lighter car, 3/8 mile track, low end</td>
<td>350 - 372 cid / 3250 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 3000 - 5750 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3750 - 6000 rpm</td>
<td>00252</td>
<td>238H242 106°</td>
<td>300°</td>
<td>300°</td>
<td>238°</td>
<td>242°</td>
<td>.390”</td>
<td>.410”</td>
</tr>
<tr>
<td>3/8 mile, high bank track, mid to top</td>
<td>350 - 372 cid / 3500 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 3250 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3250 - 6000 rpm</td>
<td>00253</td>
<td>218H226 108°</td>
<td>266°</td>
<td>276°</td>
<td>218°</td>
<td>226°</td>
<td>.419”</td>
<td>.420”</td>
</tr>
<tr>
<td>Heavy car, 1/4 mile track, low end</td>
<td>350 - 372 cid / 3000 - 5750 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 2750 - 5500 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3500 - 6000 rpm</td>
<td>00254</td>
<td>228H234 106°</td>
<td>294°</td>
<td>296°</td>
<td>228°</td>
<td>234°</td>
<td>.419”</td>
<td>.417”</td>
</tr>
<tr>
<td>Lighter car, 3/8 mile track, low end</td>
<td>350 - 372 cid / 3250 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 3000 - 5750 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Performance Level 5</td>
<td>283 - 327 cid / 3750 - 6000 rpm</td>
<td>00255</td>
<td>238H242 106°</td>
<td>296°</td>
<td>296°</td>
<td>234°</td>
<td>242°</td>
<td>.417”</td>
<td>.416”</td>
</tr>
<tr>
<td>3/8 mile, high bank track, mid to top</td>
<td>350 - 372 cid / 3500 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redline: 6000 rpm maximum</td>
<td>383 - 400 cid / 3250 - 6000 rpm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Small base circle cams are available if using 3.750” stroke and 350 style rods. Specify “S” after part number. If using 400 style or stroker rods the above base circle will work.

Note: Late model Chevrolet 305 and 350 V8 engines (1988-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Pushrods</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>69795-16</td>
<td>For rpm up to 6000 max.</td>
</tr>
<tr>
<td>84007</td>
<td>66000XS-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>69795-16</td>
<td>For rpm up to 6500 plus.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:
68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.300” @ 320/340 lbs / Coil bind: 1.070” (Stock O.D., no machine work).

Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg’s.140-141</td>
<td>Cheater hydraulic lifters (solid lifters)</td>
</tr>
<tr>
<td>Pg.146-149</td>
<td>Pushrods (special length for # 66000XS-16)</td>
</tr>
</tbody>
</table>

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
**STOCK LIFT RULE HYDRAULIC CAMSHAFTS**

Non Roller 1957-1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

---

**X-TREME MILEAGE CAMS AVAILABLE!**

CONTACT CROWER TECHNICIANS FOR MORE INFO.

---

### Engineered Component Kit for the above part #'s: 84006

**Engineered Component Kits**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Pushrods</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84006</td>
<td>66000X-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>Race Only</td>
<td></td>
</tr>
<tr>
<td>84007</td>
<td>66000X5-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>Cheater Hydraulic</td>
<td></td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube "CamSaver" lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.300" @ 340 lbs / Coil bind: 1.070"

(Stock O.D., no machine work).

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

---

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.140-141</td>
<td>Cheater hydraulic lifters (solid lifters)</td>
</tr>
<tr>
<td>Pg.146-149</td>
<td>Pushrods (special length for # 66000X5-16)</td>
</tr>
</tbody>
</table>

---

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
**SHORT TRACK HYDRAULIC CAMSHAFTS**  
**Non Roller 1957-1998**  
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

---

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Duration @ 200&quot; Exhaust</th>
<th>Gross Lift 1.5 / 1.5 Intake</th>
<th>Gross Lift 1.6 / 1.6 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>302-327 cid</td>
<td>2800-3000</td>
<td>00270</td>
<td>226HDP 108°</td>
<td>277° / 288°</td>
<td>224° / 230°</td>
<td>137° / 140°</td>
<td>.471° / .497°</td>
<td>.502° / .497°</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>2600-2900</td>
<td>00271</td>
<td>228HDP 108°</td>
<td>288° / 296°</td>
<td>230° / 238°</td>
<td>140° / 149°</td>
<td>.497° / .497°</td>
<td>.530° / .497°</td>
</tr>
<tr>
<td>383-406* cid</td>
<td>2400-2700</td>
<td>00272</td>
<td>234HDP 107°</td>
<td>290° / 300°</td>
<td>235° / 245°</td>
<td>147° / 153°</td>
<td>.507° / .516°</td>
<td>.541° / .516°</td>
</tr>
<tr>
<td>302-327 cid</td>
<td>2950-3250</td>
<td>00273</td>
<td>236HDP 107°</td>
<td>292° / 294°</td>
<td>239° / 248°</td>
<td>151° / 159°</td>
<td>.506° / .513°</td>
<td>.539° / .513°</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>2750-3050</td>
<td>00274</td>
<td>244HDP 107°</td>
<td>298° / 302°</td>
<td>245° / 252°</td>
<td>156° / 165°</td>
<td>.504° / .534°</td>
<td>.538° / .534°</td>
</tr>
</tbody>
</table>

**CUSTOM GROUND HYDRAULIC**  
Call with all engine data including head flow data, valve sizes, operating power range, etc. when ordering.

**CUSTOM CAM**  
Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.

* These cid engines (383, 406) require a smaller base circle for 3.750" or larger stroke cranks. Add an “S” at the end of desired cam part number (example: 00275S) if smaller base circle is desired.

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84000</td>
<td>66000-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6500 max. Race only.</td>
</tr>
<tr>
<td>84006</td>
<td>66000-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td></td>
<td>For rpm up to 6500 max. Race only.</td>
</tr>
<tr>
<td>84102</td>
<td>66000-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For rpm up to 6500 max. Race only.</td>
</tr>
<tr>
<td>84102x3</td>
<td>66000X3-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>For rpm up to 6500 max. &quot;Cam Saver&quot; Lifters</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube "CamSaver" lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
68301X1-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil bind: 1.070" (Stock O.D., no machine work).
68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).

* Machine work required, specify 1/32 pilot shaft when ordering.

**Note:** If using 3.750" stroke or above cranks, contact Crower for smaller base circle camshafts for more rod clearance.

**BE SMART!** Crower performance camshafts feature high lift, fast action features that can cause stock or other aftermarket valve train components to fail. Be sure to use a Crower engineered kit to avoid possible damage.

**CAUTION!** When using high lift cams pay close attention to retainer, oil seal and valve guide clearance at full lift (minimum .050").

**LIFT RULE CAMSHAFTS:** Crower has a complete line of camshafts that will satisfy any max lift requirement. Clearance. Valve timing events are available online at: [www.crower.com/vatval.htm](http://www.crower.com/vatval.htm)

---

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.5) 38</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.6) 38</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear kit</td>
</tr>
</tbody>
</table>

**Note:** If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

**REMEMBER!** Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030" more lift.  
**HIGH RPM!** Crower highly recommends the use of rollerized rockers. See rocker section for ratios and stud diameters.

These camshafts will work with the following carburetor sizes: 350 (210 cfm), 390 (410 cfm), 500 (350 cfm).

If you can supply cylinder head flow data, engine specs, operating power ranges and exhaust manifold configurations we will be able to grind you a camshaft that is far superior than any other brand currently available.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles

* RPM ranges vary upon application • www.crower.com
## HYDRAULIC ROLLER CAMSHAFTS (ORIGINAL SERIES)

1957-1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

### X-TREME MILEAGE CAMS AVAILABLE!

Contact Crower Technicians for more info.

### ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter</th>
<th>Springs</th>
<th>Retainers</th>
<th>Plug</th>
<th>Pushrods</th>
<th>Keepers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84542</td>
<td>66310-16 68301X1-16</td>
<td>86032-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6000 rpm. Daily street use.</td>
<td></td>
</tr>
<tr>
<td>84542LM</td>
<td>66330-16 68301X1-16</td>
<td>86032-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Up to 6000 rpm. Daily street use.</td>
<td></td>
</tr>
<tr>
<td>84544</td>
<td>66310-16 68301X1-16</td>
<td>87048-16</td>
<td>86099</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
<td></td>
</tr>
<tr>
<td>84544LM</td>
<td>66330-16 68301X1-16</td>
<td>87048-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
<td></td>
</tr>
</tbody>
</table>

Spring pressure:
- 68301X1-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
- 68301X1-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).

* Machine work required, specify 11/32 pilot shaft when ordering. Note: If using stock GM hydraulic roller lifters, use Crower pushrod 69720 (7.200")

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

### ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg's.150-165</td>
<td>Self aligning rocker arms (1.5) 38 - Late Model</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Self aligning rocker arms (1.6) 38 - Late Model</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.6) 7/16</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set (87-up)</td>
</tr>
</tbody>
</table>

**Note:** Rocker arms available in Aluminum & Stainless steel.
HYDRAULIC ROLLER CAMSHAFTS (ORIGINAL SERIES)
(continued)
1957-1998
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .050&quot; Intake</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
<th>Gross Lift 1.6 / 1.6 Exhaust</th>
<th>Recommended Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>327 cid</td>
<td>3200-3710</td>
<td>00402</td>
<td>Early model 00402LM</td>
<td>216HR224 114° 278° 286° 220° 228° .498&quot; .519&quot; .531&quot; .553&quot;</td>
<td>84542 or 84542LM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>350 cid</td>
<td>2900-3500</td>
<td>00404</td>
<td>Early model 00404LM</td>
<td>232HR240 114° 294° 310° 236° 244° .540&quot; .565&quot; .579&quot; .602&quot;</td>
<td>84544 or 84544LM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>383 cid</td>
<td>2700-3400</td>
<td>00403</td>
<td>Early model 00403LM</td>
<td>224HR232 114° 286° 294° 226° 236° .519&quot; .540&quot; .552&quot; .576&quot;</td>
<td>84542 or 84542LM</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


**Note:** The above cams are ground on cast steel cores. If 8620 steel billet core with integral cast iron gear is desired, specify part number 00050. Crower recommends using the factory stock cast iron distributor gear. **Note:** Late model Chevrolet 305 and 350 V8 engines (1988-up) use a different cam core configuration than 1957-87 Chevrolet V8 engines and cannot be interchanged. Specify engine year when ordering.

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter</th>
<th>Springs</th>
<th>Retainers</th>
<th>Plug</th>
<th>Pushrods</th>
<th>Keepers</th>
<th>Remarks</th>
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<td>84542</td>
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<td>68301X1-16</td>
<td>86032-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6000 rpm. Daily street use.</td>
</tr>
<tr>
<td>84542LM</td>
<td>66330-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
</tr>
<tr>
<td>84544</td>
<td>66310-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
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<td>68390X3-16</td>
<td>87048-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
</tr>
</tbody>
</table>

Spring pressure:
68301X-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130"

(Stock O.D., no machine work.)
68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110"

(Machine work, use cutter 68985*).

* Machine work required, specify 11/32 pilot shaft when ordering. Note: If using stock GM hydraulic roller lifters, use Crower pushrod 69720 (7.200”).

**Note:** These cam grinds are available for 1955-1956, please specify when ordering.

**ACCESSORIES**

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<th>Part No.</th>
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</tr>
<tr>
<td>Pg.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg.150-165</td>
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</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set (87-up)</td>
</tr>
</tbody>
</table>

**Note:** Rocker arms available in Aluminum & Stainless steel.

SPRING INSTALLED HEIGHT

Diagram 1. Calculating Installed Spring Height

Measure the height from top of keeper groove to bottom of spring seat. Refer to the “height” column of your retainer and add or subtract the amount given from the original overall measurement.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
## X-TREME MILEAGE CAMS AVAILABLE!

Contact Crower Technicians for more info.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Lobe Lift</th>
<th>Gross Lift</th>
<th>Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Low RPM</td>
<td>Peak Torque</td>
<td>Top RPM</td>
<td>Intake</td>
<td>Exhaust</td>
<td>1.5 / 1.5</td>
<td></td>
</tr>
<tr>
<td>327-327 cid</td>
<td>2200</td>
<td>3600</td>
<td>5300</td>
<td>6100</td>
<td>00480</td>
<td>.310&quot;</td>
<td>84542</td>
</tr>
<tr>
<td></td>
<td>2000</td>
<td>3500</td>
<td>5200</td>
<td>5700</td>
<td>00480</td>
<td>.323&quot;</td>
<td>or 84543LM</td>
</tr>
<tr>
<td>350-350 cid</td>
<td>1700</td>
<td>3200</td>
<td>4900</td>
<td>5400</td>
<td>00480</td>
<td>.465&quot;</td>
<td></td>
</tr>
<tr>
<td>383 cid</td>
<td>1600</td>
<td>3100</td>
<td>4550</td>
<td>5050</td>
<td>00480</td>
<td>.484&quot;</td>
<td></td>
</tr>
<tr>
<td>406 cid</td>
<td>1500</td>
<td>3000</td>
<td>4500</td>
<td>5000</td>
<td>00480</td>
<td>.505&quot;</td>
<td></td>
</tr>
</tbody>
</table>

### CUSTOM GROUND HYDRAULIC ROLLER
- Early or late model (step nose) hyd roller cam ground to your specs on cast steel cam core w/stock cast iron gear.

<table>
<thead>
<tr>
<th>RPM Range</th>
<th>Intake</th>
<th>Duration @ .050&quot; Exhaust</th>
<th>Lobe Lift</th>
<th>Gross Lift</th>
<th>Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low RPM</td>
<td>Peak Torque</td>
<td>Top RPM</td>
<td>Intake</td>
<td>Exhaust</td>
<td>1.5 / 1.5</td>
</tr>
<tr>
<td>327-327 cid</td>
<td>2200</td>
<td>3800</td>
<td>5700</td>
<td>6300</td>
<td>00481</td>
</tr>
<tr>
<td>350-350 cid</td>
<td>2200</td>
<td>3700</td>
<td>5600</td>
<td>6100</td>
<td>00481</td>
</tr>
<tr>
<td>383 cid</td>
<td>1700</td>
<td>3400</td>
<td>5200</td>
<td>5700</td>
<td>00481</td>
</tr>
<tr>
<td>406 cid</td>
<td>1600</td>
<td>3100</td>
<td>4700</td>
<td>5200</td>
<td>00481</td>
</tr>
</tbody>
</table>

### ACCESSORIES
- Self aligning rocker arms (1.5) 38 - Late Model
- Self aligning rocker arms (1.6) 38 - Late Model
- Rocker arms (1.5) 7/16
- Rocker arms (1.6) 7/16
- Timing gear set (87-up)

Note: Rocker arms available in Aluminum & Stainless steel.

### ENGINEERED COMPONENT KITS

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<tr>
<th>Part No.</th>
<th>Lifters</th>
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<td>86032-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6000 rpm. Daily street use.</td>
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<tr>
<td>84542LM</td>
<td>66330-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
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<td>66310-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
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<td>87048-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
</tr>
</tbody>
</table>
### Headers & intake rec.

- Slight lope at idle.
- Mild street performance, Performance Level 2 range power.
- Strong torque, good mid-
- Smooth idle, daily usage for mileage and smooth idle.
- Smooth idle, great for towing, very fuel efficient.
- Strong torque, excellent for mileage/performance.
- Good stock replacement, Performance Level 1.

### Machine work required, specify 1 1/32 pilot shaft when ordering.

- Note: If 1.110" (Machine work, use cutter 68985*).

### 383 - 400 cid / 2000 - 5200 rpm

<table>
<thead>
<tr>
<th>C.I.D. Group &amp; RPM Range</th>
<th>Performance Level 1</th>
<th>Performance Level 1</th>
<th>Performance Level 1</th>
<th>Performance Level 1</th>
<th>Performance Level 2</th>
<th>Performance Level 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strong torque, good mid-range power.</td>
<td>383 - 400 cid / 1700 - 4900 rpm</td>
<td>383 - 400 cid / 1800 - 5000 rpm</td>
<td>383 - 400 cid / 2000 - 5000 rpm</td>
<td>383 - 400 cid / 2200 - 5200 rpm</td>
<td>383 - 400 cid / 2400 - 5200 rpm</td>
<td></td>
</tr>
</tbody>
</table>

### X-TREME MILEAGE CAMS AVAILABLE!

Contact Crower technicians for more info.

### ENGINEERED COMPONENT KITS

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<th>Plug</th>
<th>Pushrods</th>
<th>Keepers</th>
<th>Remarks</th>
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<td>68301X1-16</td>
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<td>86099</td>
<td>69730-16</td>
<td>86107-16 Up to 6000 rpm. Daily street use.</td>
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<td>84542LM</td>
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<td>86107-16 Up to 6000 rpm. Daily street use.</td>
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<td>84544</td>
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<td>84544LM</td>
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<td>86099</td>
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</tr>
</tbody>
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<tr>
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<td>Self aligning rocker arms (1.6) 38 - Late Model</td>
</tr>
<tr>
<td>See pg. 151</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>See pg. 151</td>
<td>Rocker arms (1.6) 7/16</td>
</tr>
<tr>
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<td>Timing gear set</td>
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</tr>
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**Note:** Rocker arms available in Aluminum & Stainless steel.

### SPRING INSTALLED HEIGHT

Diagram 1. Calculating Installed Spring Height

Measure the height from top of keeper groove to bottom of spring seat. Refer to the "height" column of your retainer and add or subtract the amount given from the original overall measurement.

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**Note:** These cam grinds are available for 1955-1956, please specify when ordering.

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RPM ranges vary upon application • www.crower.com
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<th>Advertised Duration</th>
<th>Lobe Center</th>
<th>Intake</th>
<th>Exhaust</th>
<th>Duration @ .050&quot;</th>
<th>Duration @ .200&quot;</th>
<th>Lobe lift</th>
<th>Exhaust Intake</th>
<th>Gross Lift 1.5 / 1.5 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Performance Level 2</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strong mid-range, good</td>
<td>00466</td>
<td>110°</td>
<td>270°</td>
<td>277°</td>
<td>217°</td>
<td>225°</td>
<td>139°</td>
<td>147°</td>
<td>.343&quot; .357&quot; .514&quot; .535&quot;</td>
</tr>
<tr>
<td>throttle response, 2000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>stall recommended.</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td><strong>Performance Level 2</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fair idle, moderate</td>
<td>00467</td>
<td>110°</td>
<td>273°</td>
<td>284°</td>
<td>221°</td>
<td>230°</td>
<td>142°</td>
<td>151°</td>
<td>.350&quot; .363&quot; .525&quot; .544&quot;</td>
</tr>
<tr>
<td>performance, good mid-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>range HP (2000 stall).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Performance Level 3</strong></td>
<td></td>
<td></td>
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<tr>
<td>Noticeable idle, good</td>
<td>00468</td>
<td>110°</td>
<td>277°</td>
<td>286°</td>
<td>225°</td>
<td>232°</td>
<td>147°</td>
<td>155°</td>
<td>.357&quot; .367&quot; .535&quot; .550&quot;</td>
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<tr>
<td>mid-range, requires</td>
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<td>headers.</td>
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<tr>
<td><strong>Performance Level 3</strong></td>
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<tr>
<td>Slight lope at idle,</td>
<td>00469</td>
<td>110°</td>
<td>284°</td>
<td>286°</td>
<td>230°</td>
<td>236°</td>
<td>151°</td>
<td>159°</td>
<td>.363&quot; .370&quot; .544&quot; .555&quot;</td>
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<tr>
<td>needs headers, 2500</td>
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<td>stall recommended.</td>
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</tr>
<tr>
<td>Rough idle, aftermarket</td>
<td>00470</td>
<td>110°</td>
<td>286°</td>
<td>292°</td>
<td>232°</td>
<td>240°</td>
<td>155°</td>
<td>163°</td>
<td>.366&quot; .373&quot; .549&quot; .559&quot;</td>
</tr>
<tr>
<td>intake and headers a</td>
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<td>must.</td>
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<tr>
<td>Street/strip applications</td>
<td>00471</td>
<td>110°</td>
<td>286°</td>
<td>292°</td>
<td>236°</td>
<td>240°</td>
<td>159°</td>
<td>163°</td>
<td>.370&quot; .373&quot; .555&quot; .559&quot;</td>
</tr>
<tr>
<td>rough idle, 2500 stall</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>required.</td>
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</tbody>
</table>

**CUSTOM CAM** - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.

00047

Refer to page 7 for camshaft recommendation form

---


**Note:** The above cams are ground on cast steel cores. If 8620 steel billet core with integral cast iron gear is desired, specify part number 00050.

Crower recommends using the factory stock cast iron distributor gear.

---

### ENGINERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Plug</th>
<th>Pushrods</th>
<th>Keepers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84544</td>
<td>66310-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
</tr>
<tr>
<td>84544LM</td>
<td>66330-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Up to 6500 max. Limited street use.</td>
</tr>
<tr>
<td>84557</td>
<td>66310-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>86085</td>
<td>69730-16</td>
<td>86107-16</td>
<td></td>
</tr>
<tr>
<td>84557LM</td>
<td>66330-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>86099</td>
<td>69715-16</td>
<td>86107-16</td>
<td></td>
</tr>
</tbody>
</table>

Spring pressure: 68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*). 68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.300" @ 340 lbs / Coil bind: 1.070" (Stock O.D., no machine work).

* Machine work required, specify 11/32 pilot shaft when ordering. Note: If using stock GM hydraulic roller lifters, use Crower pushrod 69720 (7.200").

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

### ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg’s.150-165</td>
<td>Self aligning rocker arms (1.5) 38 - Late Model</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Self aligning rocker arms (1.6) 38 - Late Model</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.6) 7/16</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set (87-up)</td>
</tr>
</tbody>
</table>

**Note:** Rocker arms available in Aluminum & Stainless steel.
HYDRAULIC ROLLER CAMSHAFTS
GM 350 LT1 - LT4 1993-1997

Note: These cams use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050&quot; Intake</th>
<th>Gross Lift @ .500&quot; Intake</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOCK REPLACEMENT</td>
<td>350 cid</td>
<td>00560</td>
<td>254HR262 114°</td>
<td>254° 262°</td>
<td>204° 212°</td>
<td>.485&quot; .505&quot;</td>
<td>84552</td>
</tr>
<tr>
<td>Increased performance in stock LT1 engines. RPM Power Range: Idle to 5000, redline: 5500 max</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAGE 1</td>
<td>350 cid</td>
<td>00561</td>
<td>262HR266 114°</td>
<td>262° 266°</td>
<td>208° 216°</td>
<td>.495&quot; .515&quot;</td>
<td>84576 84554</td>
</tr>
<tr>
<td>Works well in stock or slightly modified engines. RPM Power Range: 1000 to 5500, redline: 6000 max</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAGE 2</td>
<td>350 cid</td>
<td>00562</td>
<td>274HR284 114°</td>
<td>274° 284°</td>
<td>221° 230°</td>
<td>.525&quot; .545&quot;</td>
<td>84576 84554</td>
</tr>
<tr>
<td>Modified computer, exhaust and high flow intake recommended. RPM Power Range: 1500 to 5800, redline: 6300 max</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAGE 3</td>
<td>350 cid</td>
<td>00563</td>
<td>277HR286 114°</td>
<td>277° 286°</td>
<td>225° 232°</td>
<td>.535&quot; .550&quot;</td>
<td>84576 84554</td>
</tr>
<tr>
<td>Mid to top end power in highly modified engines. RPM Power Range: 2000 to 6000, redline: 6500 max</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM GROUND HYD ROLLER - Special order hydraulic roller lifter camshaft ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.</td>
<td>All cid</td>
<td>00052</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Note: The above cams are ground on cast steel cores. If 8620 steel billet core with integral cast iron gear is desired, specify part number 00050. Crower recommends using the factory stock cast iron distributor gear.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Pushrods</th>
<th>Keepers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84552</td>
<td>66330-16</td>
<td>6831X1-16</td>
<td>86032-16</td>
<td>69715-16</td>
<td>86107-16</td>
<td>For rpm up to 6000 max. Daily street use.</td>
</tr>
<tr>
<td>84554</td>
<td>66330-16</td>
<td>6831X1-16</td>
<td>86032-16</td>
<td>69715-16</td>
<td>86107-16</td>
<td>Conical spring, titanium retainer for LT1 (11/32).</td>
</tr>
<tr>
<td>84576</td>
<td>66330-16</td>
<td>68155-16</td>
<td>87029T-16</td>
<td><em>Stock</em></td>
<td>Stock*</td>
<td>Race only applications.</td>
</tr>
</tbody>
</table>

Spring pressure:
68301X1-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
68304-16 Seat: 1.800" @ 106 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090" (Stock O.D., no machine work).
6831X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil bind: 1.070" (Stock O.D., no machine work).
68155-16 Seat: 1.750" @ 115 lbs / Nose: 1.250" @ 295 lbs / Coil bind: 1.150" (Stock O.D., conical design).

Optional spring:
68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cuter 68985*). LT1 only.

Recommendations:
*Optimum Performance Pushrods, specify part # 69715-16 when ordering.
*Optimum Performance Keepers, specify part # 86107-16 when ordering.

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.5) 3/8 self aligning tip - LT1</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.6) 3/8 self aligning tip - LT1</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.5) 3/8 use w/guide plates - LT1</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.6) 3/8 use w/guide plates - LT1</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Cloyes Timing Gear Set</td>
</tr>
</tbody>
</table>

*Use with guide plate #70517-8.

Note: Rocker arms available in Aluminum & Stainless steel.

Measure the height from top of keeper groove to bottom of spring seat. Refer to the “height” column of your retainer and add or subtract the amount given from the original overall measurement.

SPRING INSTALLED HEIGHT

Diagram 1. Calculating Installed Spring Height

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles

• RPM ranges vary upon application • www.crower.com
HYDRAULIC ROLLER CAMSHAFTS
GM LS1/LS2/LS6 4.8L, 5.3L, 5.7L, 6.0L, V8 1997 - Present
Note: These cams use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .030&quot;</th>
<th>Gross Lift 1.5 / 1.7</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAGE 1</td>
<td>350</td>
<td>00571</td>
<td>258HR262 114°</td>
<td>258° 262°</td>
<td>208° 216°</td>
<td>514&quot; .514&quot;</td>
</tr>
<tr>
<td>Works well in stock or slightly modified engines. RPM Power Range: 1000 to 5500, redline: 6000 max</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAGE 2</td>
<td>350</td>
<td>00572</td>
<td>272HR280 114°</td>
<td>272° 280°</td>
<td>217° 226°</td>
<td>553&quot; .575&quot;</td>
</tr>
<tr>
<td>Modified computer, exhaust and high flow intake recommended. RPM Power Range: 1500 to 5800, redline: 6300 max</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>STAGE 3</td>
<td>350</td>
<td>00573</td>
<td>285HR289 114°</td>
<td>285° 289°</td>
<td>226° 232°</td>
<td>566&quot; .566&quot;</td>
</tr>
<tr>
<td>Mid to top end power in highly modified engines. RPM Power Range: 2000 to 6000, redline: 6500 max</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUSTOM GROUND HYD ROLLER - Special order hydraulic roller lifter camshaft ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.

CUSTOM GROUND MECHANICAL ROLLER - Special order roller lifter camshaft ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seat Cups</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84556</td>
<td>66330-16</td>
<td>68311X1-16</td>
<td>86037T-16</td>
<td>86037T-16</td>
<td>For rpm over 6500. Race only.</td>
</tr>
<tr>
<td>84575</td>
<td>66330-16</td>
<td>68155-16</td>
<td>87028T-16</td>
<td>87028T-16</td>
<td>Conical spring, steel retainer for LS1 (8mm).</td>
</tr>
<tr>
<td>84558</td>
<td>66330-16</td>
<td>68156-16</td>
<td>86037-16</td>
<td>68928-16</td>
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</tr>
<tr>
<td>84558T</td>
<td>66330-16</td>
<td>68156-16</td>
<td>86037T-16</td>
<td>68928-16</td>
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</tr>
</tbody>
</table>

Spring pressure:
68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.250” @ 389 lbs / Coil bind: 1.070” (Stock O.D., no machine work).
68155-16 Seat: 1.750” @ 115 lbs / Nose: 1.250” @ 295 lbs / Coil bind: 1.150” (Stock O.D., conical design).
Optional spring:
68156-16

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods - Stock LS1 length</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Aluminum shaft mount rocker assembly - LS1</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Billet aluminum spacer for shaft rocker assy - LS1</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Mechanical roller lifters - LS1</td>
</tr>
<tr>
<td>Pg.142-143</td>
<td>Severe-Duty mechanical roller lifters w/Hippo - LS1</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Cloyes Timing Gear Set - LS1</td>
</tr>
</tbody>
</table>

Engineered Component Kit for the above part #’s: 84575 or 84556
### SOLID CAMSHAFTS (ORIGINAL SERIES)

**Non Roller 1957 - 1998**

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .022" intake, .024" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050&quot; Intake</th>
<th>Gross Lift</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRO-STREET / Performance Level 3</strong> - High torque at low revs. Lopey idle. RPM Power Range: 2000 to 6000 / Redline: 6500 plus.</td>
<td>302 327</td>
<td>00320</td>
<td>264SF 112°</td>
<td>264° 270°</td>
<td>230° 236°</td>
<td>.458&quot; .468&quot;</td>
<td>84295</td>
</tr>
<tr>
<td><strong>PRO-STREET / Performance Level 3</strong> - High torque with more mid-range. Crisp rpm. Really nice camshaft. RPM Power Range: 2400 to 6400 / Redline: 6800 plus.</td>
<td>350 400</td>
<td>00321</td>
<td>274SF 114°</td>
<td>274° 282°</td>
<td>242° 248°</td>
<td>.482&quot; .504&quot;</td>
<td>84295</td>
</tr>
<tr>
<td><strong>PRO-STREET / Performance Level 4</strong> - High revving, super mid to top end power in small c.i.d. engines. Radical grind. RPM Power Range: 2800 to 6600 / Redline: 7000 plus.</td>
<td>302 327</td>
<td>00322</td>
<td>282SF 112°</td>
<td>282° 292°</td>
<td>248° 254°</td>
<td>.504&quot; .528&quot;</td>
<td>84295 or 84299</td>
</tr>
<tr>
<td><strong>PRO-STREET / Performance Level 4</strong> - High revving, super mid to top end power. RPM Power Range: 3000 to 6900 / Redline: 7200 plus.</td>
<td>350 400</td>
<td>00323</td>
<td>294SF 114°</td>
<td>294° 300°</td>
<td>256° 262°</td>
<td>.528&quot; .545&quot;</td>
<td>84299</td>
</tr>
<tr>
<td><strong>COMPU-PRO / Performance Level 4</strong> - Broad power band. Short oval profile. Heavy car. RPM Power Range: 2000 to 6000 / Redline: 7000 plus.</td>
<td>350 400</td>
<td>00350</td>
<td>268FDP 107°</td>
<td>268° 274°</td>
<td>238° 244°</td>
<td>497&quot; .503&quot;</td>
<td>84299</td>
</tr>
<tr>
<td><strong>COMPU-PRO / Performance Level 5</strong> - High torque, short oval track cam. Strong off corner. RPM Power Range: 2500 to 6500 / Redline: 7500 plus.</td>
<td>350 400</td>
<td>00355</td>
<td>276FDP 105°</td>
<td>276° 282°</td>
<td>244° 250°</td>
<td>.503&quot; .518&quot;</td>
<td>84299 or 84292X980</td>
</tr>
</tbody>
</table>

| CUSTOM CAM - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc. | 00047 | Refer to page 7 for camshaft recommendation form |

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Oil Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84295</td>
<td>66900-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td>86072-16</td>
<td>7000 plus rpm. Street applications. Race only. Stock O.D. spring. Race only. Limited street. Race only w/1.5 to 1.8 ratio</td>
</tr>
<tr>
<td>84292X980</td>
<td>66900X980-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>86072-16</td>
<td>Race only. Limited street. Race only w/1.5 to 1.8 ratio</td>
</tr>
<tr>
<td>84299</td>
<td>66900-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>87072-16</td>
<td>Race only w/1.5 to 1.8 ratio</td>
</tr>
<tr>
<td>84293X980</td>
<td>66900X980-16</td>
<td>68398-16</td>
<td>87054-16</td>
<td>87072-16</td>
<td>Race only w/1.5 to 1.8 ratio</td>
</tr>
</tbody>
</table>

Spring pressure:
- 68301X1-16 Seat: 1.700" @ 105 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).
- 68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil Bind: 1.070" (Stock O.D., no machine work).
- 68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work, use cutter 68985*).
- 68398-16 Seat: 1.825" @ 151 lbs / Nose: 1.325" @ 351 lbs / Coil bind: 1.080" (Machine work, use cutter 68987*).

* Machine work required, specify 11⁄32 pilot shaft when ordering.

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

### ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.5) 38</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.6) 38</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.6) 7/16. Higher ratios available.</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Hex-A-Just timing gear set (early model block)</td>
</tr>
</tbody>
</table>

**Note:** If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

**REMEMBER!** Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030" more lift.

**Note:** Rocker arms available in Aluminum & Stainless steel. 1955-1956 - These grinds are available, please specify when ordering.
### SOLID CAMSHAFTS (ORIGINAL SERIES)(continued)

Non Roller 1957 - 1998
262 267 283 302 305 307 327 350 400 V8 Small Block

**Note:** These cams use .022” intake, .024” exhaust valve lash.

#### Description

(Note: See pages 8-9 for a detailed explanation of each Performance Level)

<table>
<thead>
<tr>
<th>C.I.D.</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration .500”</th>
<th>Gross Lift</th>
<th>Suit &amp; Component Kit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Intake Exhaust</td>
<td>Exhaust</td>
<td>1.5 / 1.5</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>00351</td>
<td>288FDP 105°</td>
<td>288° 292°</td>
<td>254° 262°</td>
<td>.525° .546°</td>
<td>84299 or 84292X980</td>
</tr>
<tr>
<td>350</td>
<td>00356</td>
<td>294FDP 105°</td>
<td>294° 302°</td>
<td>260° 266°</td>
<td>.540° .557°</td>
<td>84299 or 84292X980</td>
</tr>
<tr>
<td>350</td>
<td>00352</td>
<td>298FDP 105°</td>
<td>298° 302°</td>
<td>262° 266°</td>
<td>.543° .557°</td>
<td>84299 or 84293X980</td>
</tr>
<tr>
<td>350</td>
<td>00357</td>
<td>302FP 107°</td>
<td>302° 310°</td>
<td>268° 278°</td>
<td>.557° .587°</td>
<td>84299 or 84293X980</td>
</tr>
<tr>
<td>350</td>
<td>00353</td>
<td>310FP 107°</td>
<td>310° 316°</td>
<td>272° 278°</td>
<td>.575° .588°</td>
<td>84299 or 84293X980</td>
</tr>
</tbody>
</table>

#### Accessories

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<td>84292X980</td>
<td>Rocker arms (1.5) 38</td>
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<tr>
<td>84299</td>
<td>Rocker arms (1.6) 38</td>
</tr>
<tr>
<td>84293X980</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Hex-A-Just timing gear set (early model block)</td>
</tr>
</tbody>
</table>

**Note:** If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

**REMEMBER!** Increasing rocker ratio on intake (1.6) will make the cam approximately 3° duration and .030” more lift.

**Note:** Rocker arms available in Aluminum & Stainless steel. 1955-1956 - These grinds are available, please specify when ordering.

---

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Keepers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84295</td>
<td>66900-16</td>
<td>68301X1-16</td>
<td>86032-16</td>
<td></td>
<td>7000 plus rpm. Street applications.</td>
</tr>
<tr>
<td>84292X980</td>
<td>66900X980-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>86072-16</td>
<td>Race only. Stock O.D. spring.</td>
</tr>
<tr>
<td>84299</td>
<td>66900-16</td>
<td>68390X3-16</td>
<td>87048-16</td>
<td>86072-16</td>
<td>Race only. Limited street.</td>
</tr>
<tr>
<td>84293X980</td>
<td>66900X980-16</td>
<td>68398-16</td>
<td>87054-16</td>
<td>86072-16</td>
<td>Race only w/1.5 to 1.8 ratio</td>
</tr>
</tbody>
</table>

Spring pressure:
- 68301X1-16 Seat: 1.700” @ 105 lbs / Nose: 1.250” @ 274 lbs / Coil bind: 1.130” (Stock O.D., no machine work).
- 68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.250” @ 389 lbs / (Machine work, use cutter 68985*).
- 68390X3-16 Seat: 1.800” @ 116 lbs / Nose: 1.250” @ 355 lbs / Coil bind: 1.110” (Machine work, use cutter 68987*).
- 68398-16 Seat: 1.825” @ 151 lbs / Nose: 1.325” @ 351 lbs / Coil bind: 1.080” (Machine work, use cutter 68987*).

* Machine work required, specify 11/32 pilot shaft when ordering.

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.
ENGINEERED COMPONENT KITS

290 SERIES HIGH ROCKER RATIO SOLID CAMSHAFTS
1957 - 1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .022" intake, .024" exhaust valve lash.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Lobe Center</th>
<th>Advertised Duration @ .020&quot; Intake</th>
<th>Duration @ .050&quot; Intake</th>
<th>Duration @ .200&quot; Intake</th>
<th>Lobe lift 1.6/1.5 Exhaust</th>
<th>Gross Lift 1.7/1.6 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-307-327</td>
<td>3200 - 4700</td>
<td>6500 - 7000</td>
<td>206° 274° 236° 244° 144° 152° .326° .340° .522° .510° .554° .544°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>305-350 cid</td>
<td>2800 - 4300</td>
<td>6100 - 6600</td>
<td>26° 278° 240° 248° 148° 156° .333° .346° .533° .519° .566° .554°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>383-406 cid</td>
<td>2600 - 4100</td>
<td>5600 - 6100</td>
<td>200° 240° 244° 248° 152° 156° .340° .346° .544° .519° .578° .554°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: These cam grinds are available for 1955-1956, please specify when ordering.

ENGINEERED COMPONENT KITS

CUSTOM CAM: Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84292X980</td>
<td>66900X980-16</td>
<td>68311X1-16</td>
<td>86032-16</td>
<td>Stock O.D. spring, coolface lifter option</td>
</tr>
<tr>
<td>84293X980</td>
<td>66900X980-16</td>
<td>68339-16</td>
<td>87054-16</td>
<td>1.5 to 1.8 ratio, coolface lifter option</td>
</tr>
<tr>
<td>84265</td>
<td>66900-16</td>
<td>68385X2-16</td>
<td>86767-16</td>
<td>For .100&quot; long valves</td>
</tr>
<tr>
<td>84293X980</td>
<td>66900X980-16</td>
<td>68385X2-16</td>
<td>86767-16</td>
<td>For .100&quot; long valves, coolface lifter option</td>
</tr>
</tbody>
</table>

Spring pressure:
68311X1-16 Seat: 1.750” @ 120 lbs / Nose: 1.250” @ 389 lbs / Coil bind: 1.070” (Stock O.D., no machine work).
68339-16 Seat: 1.825” @ 155 lbs / Nose: 1.325” @ 351 lbs / Coil bind: 1.080” (Machine work required, use cutter #68987).
68385X2-16 Seat: 1.900” @ 166 lbs / Nose: 1.350” @ 398 lbs / Coil bind: 1.100” (Machine work required, use cutter #68979).

Super 7° titanium retainers available for kit #84293-980. Specify #86754 retainer when ordering.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
### Chevrolet

#### 290 SERIES HIGH ROCKER RATIO SOLID CAMSHAFTS

**1957 - 1998**

**262 267 283 302 305 307 327 350 400 V8 Small Block**

*Note: These cams use .022" intake, .024" exhaust valve lash.*

### ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84292X980</td>
<td>66900X980-16</td>
<td>68311X1-16</td>
<td>68032-16</td>
<td>86072-16</td>
<td>Stock O.D. spring, face lift option</td>
</tr>
<tr>
<td>84293X980</td>
<td>66900X980-16</td>
<td>68398-16</td>
<td>87054-16</td>
<td>86072-16</td>
<td>1.5 to 1.8 ratio, face lift option</td>
</tr>
<tr>
<td>84265</td>
<td>66900X980-16</td>
<td>68385X2-16</td>
<td>87676-16</td>
<td>For .100&quot; long valves</td>
<td></td>
</tr>
<tr>
<td>84265X980</td>
<td>66900X980-16</td>
<td>68385X2-16</td>
<td>87676-16</td>
<td>For .100&quot; long valves, face lift option</td>
<td></td>
</tr>
</tbody>
</table>

**Spring pressure:**

- 68311X1-16 Seat: 1.750" @ 120 lbs / Nose: 1.250" @ 389 lbs / Coil bind: 1.070" (Stock O.D., no machine work).
- 68398-16 Seat: 1.825" @ 155 lbs / Nose: 1.325" @ 351 lbs / Coil bind: 1.080" (Machine work required, use cutter #68987).
- 68385X2-16 Seat: 1.900" @ 166 lbs / Nose: 1.350" @ 398 lbs / Coil bind: 1.100" (Machine work required, use cutter #68979).

**Super 7° titanium retainers available for** #84293-980. Specify #86754 retainer when ordering.

**Super 7° keepers required for #86767-16 retainers** (kit #84265 and #84265X980).

Valve timing events are available online at: [www.crower.com/valvtime.html](http://www.crower.com/valvtime.html)

**NOTE:** These cam grinds are available for 1955-1956, please specify when ordering.

### ACCESSORIES

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</tr>
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<tbody>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Hex-A-Just timing gear set (early model block)</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Rocker arms (1.6) 7/16</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Long arm/Backset rocker arms (1.6) 7/16</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Long arm/Backset rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg.s.150-165</td>
<td>Long arm/Backset rocker arms (1.8) 7/16</td>
</tr>
</tbody>
</table>

Long Arm rockers come in 8 only pcs for intake. For exhaust use conventional Crower stainless, stud mount rocker arm.

**WARNING:** If running over 7500 rpm with higher rocker ratio you must contact factory for custom lobe and valve train consideration.

**Note:** Rocker arms available in Aluminum & Stainless steel.
Note: These cams require #66900X980-16 No Chamfer lifters or, if running .874" lifter bores, use #66915-16.

The above cores are Pro 55. * requires a smaller base circle for 3.750" or larger stroke cranks. Add an “S” at the end of desired cam part number (example: 00275S) if smaller base circle is desired.

The above cores are Pro 55. * requires a smaller base circle for 3.750" or larger stroke cranks. Add an “S” at the end of desired cam part number (example: 00275S) if smaller base circle is desired.

**Note:** These cams require #66900X980-16 No Chamfer lifters or, if running .874" lifter bores, use #66915-16.

**ENGINEERED COMPONENT KITS**

<table>
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<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84266X980</td>
<td>66973X980SP -16</td>
<td>68385X2-16</td>
<td>86767-16</td>
<td>Super polished coolface lifter option.</td>
</tr>
</tbody>
</table>

Spring pressure: 68385X2: 1.900" @ 166 lbs / Nose: 1.300" @ 422 lbs / Coil bind: 1.100"
(Machine work required, use cutter 68979).
Super 7° keepers required for #86767-16 retainers.
* .842" diameter No Chamfer Lifters

**CUSTOM CAM - Special order 4-7 switch firing order.** Call with all engine data including head flow data, valve sizes, operating power range, etc.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range (Low RPM, Peak Torque, Peak Intake, Top RPM)</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration @ .020&quot;</th>
<th>Lobe Center</th>
<th>Gross Lift</th>
<th>Gross Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>262-307-327 cid</td>
<td>3500</td>
<td>5000</td>
<td>7600</td>
<td>8100</td>
<td>00330</td>
<td>106°</td>
<td>276°</td>
</tr>
<tr>
<td>305-350 cid</td>
<td>3200</td>
<td>4700</td>
<td>7000</td>
<td>7500</td>
<td>00331</td>
<td>106°</td>
<td>280°</td>
</tr>
<tr>
<td>383-406 cid *</td>
<td>2800</td>
<td>4300</td>
<td>6500</td>
<td>7000</td>
<td>00332</td>
<td>107°</td>
<td>285°</td>
</tr>
<tr>
<td>262-307-327 cid</td>
<td>3600</td>
<td>5100</td>
<td>7700</td>
<td>8200</td>
<td>00333</td>
<td>107°</td>
<td>290°</td>
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<tr>
<td>305-350 cid</td>
<td>3300</td>
<td>4800</td>
<td>7300</td>
<td>8200</td>
<td>00334</td>
<td>108°</td>
<td>293°</td>
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**AVAILABLE SPECIALTY CORES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Block with Roller Bearings (Pro 55 cast material)</td>
<td>1.875&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block or Stock Big Block Chevrolet (Pro 55 cast material)</td>
<td>1.948&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block with Roller Bearings (50mm) (Pro 55 cast material)</td>
<td>1.968&quot;</td>
</tr>
<tr>
<td>55mm (Hard Face 8620 steel billet)</td>
<td>2.165&quot;</td>
</tr>
<tr>
<td>Hard Face (8620 steel billet only) All bearing configuration available</td>
<td>Specify</td>
</tr>
</tbody>
</table>

To order the above cores specify #00003. For hard face cores specify #00033.

Valve timing events are available online at: www.crower.com/valvtime.html

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<td>Rocker arms (1.5) 7/16</td>
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<tr>
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<tr>
<td>Pg’s.150-165</td>
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<tr>
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<td>Long arm/Backset rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.75) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.8) 7/16</td>
</tr>
</tbody>
</table>

**Note:** Rocker arms available in Aluminum & Stainless steel. Long Arm rockers come in 8 only pcs for intake. For exhaust use conventional Crower stainless, stud mount rocker arm.
Chevrolet

220 SERIES SOLID CAMSHAFTS (HIGH RPM)
(Continued)
1957 - 1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .018" intake, .020" exhaust valve lash.

The above cores are Pro 55. * requires a smaller base circle for 3.750" or larger stroke cranks. Add an "S" at the end of desired cam part number (example: 00275S) if smaller base circle is desired.

Note: These cam grinds are available for 1955-1956, please specify when ordering.

* .842" diameter No Chamfer Lifters
Super 7° keepers required for #86767-16 retainers.
(Machine work required, use cutter #68979).

68385X2-16 Seat: 1.900" @ 166 lbs / Nose: 1.300" @ 422 lbs / Coil bind: 1.100"
Spring pressure:

The above cores are Pro 55. * requires a smaller base circle for 3.750" or larger stroke cranks. Add an "S" at the end of desired cam part number (example: 00275S) if smaller base circle is desired.

Note: These cores require #66900X980-16 No Chamfer lifters or, if running .874" lifter bores, use #66915-16.

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<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.65) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.1) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.6) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.65) 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.7) 7/16</td>
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<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.75) 7/16</td>
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<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.8) 7/16</td>
</tr>
</tbody>
</table>

Long Arm rockers come in 8 only pcs for intake. For exhaust use conventional Crower stainless, stud mount rocker arm.

Note: Rocker arms available in Aluminum & Stainless steel.
RPM Power Range: 3000 to 7000 / Redline: 7500 plus.
- High torque oval track grind.

ULTRA-ACTION / Performance Level 5
- RPM Power Range: 2800 to 6800 / Redline: 7200 plus.
- High torque 1/4 and 3⁄8 mile oval track applications. 8620 steel billet.

STREET ROLLER / Performance Level 4
- RPM Power Range: 3000 to 7000 / Redline: 7250 maximum.
- Intended for performance oriented hot-street applications with emphasis on top end. Cast steel core.

POWER BEAST ROLLER / Performance Level 4
- RPM Power Range: 2500 to 6500 / Redline: 7000 maximum.
- Intended for performance oriented hot-street applications. 8620 steel billet.

ULTRA BEAST ROLLER / Performance Level 5
- RPM Power Range: 2750 to 6750 / Redline: 7000 plus.
- Intended for performance oriented hot-street applications with emphasis on top end horsepower. Cast steel core.

TORQUE BEAST ROLLER / Performance Level 4
- RPM Power Range: 3000 to 7000 / Redline: 7250 maximum
- Intended for performance oriented hot-street applications with emphasis on top end. Cast steel core.

INTEGRAL CAST IRON GEAR OPTION: Premium 8620 steel billet, copper plated cam cores with integral cast iron cam gear are available from Crower on a special order basis (specify part number 00050). Valve timing events are available online at: www.crower.com/valvtime.html

HIGH RPM! With today's high engine rpm and increased rocker ratios, valve train life is extremely critical. Increased spring pressures are mandatory for insuring reliable valve train life. Contact Crower's technical assistance department for proper high rpm recommendations.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84420</td>
<td>66200-16</td>
<td>68385X2-16</td>
<td>87055-16</td>
<td>86072-16</td>
<td>Stock length valves (.650” max lift), 10” retainers</td>
</tr>
<tr>
<td>84425</td>
<td>66200-16</td>
<td>68705-16</td>
<td>86767-16</td>
<td>86072-16</td>
<td>.100”+ long valve (.750” max lift), Super 7” retainers</td>
</tr>
<tr>
<td>84430</td>
<td>66200-16</td>
<td>68804-16</td>
<td>86781-16</td>
<td>86072-16</td>
<td>.100”+ long valve. Limited street. Super 7” retainers</td>
</tr>
</tbody>
</table>

Spring pressure:
68385X2-16 Seat: 1.850” @ 187 lbs / Nose: 1.250” @ 445 lbs / Coil bind: 1.100” (1.525” O.D.)
68705-16 Seat: 1.950” @ 160 lbs / Nose: 1.250” @ 511 lbs / Coil bind: 1.125” (1.530” O.D.)
68804-16 Seat: 1.950” @ 235 lbs / Nose: 1.250” @ 582 lbs / Coil bind: 1.100” (1.550” O.D.)

*86781-16 and 86767-16 retainers require Super 7” keepers. Titanium valves required to achieve high rpm. Due to the wide variety of valve train combinations (i.e. lifter bore diameters, offsets, valve lengths, installed heights, etc...), we highly recommend that you contact Crower for your specific valve train needs.

HIPPO Note: For severe duty roller lifter applications, we highly recommend using our roller lifters with Hippo “High Pressure Pin Oiling”. Specify “H” in the part number. Ex. 66290X874H-16

Note: When ordering a .930” - .950” base circle cams for 3.750” or larger stroker cranks, add an “S” at the end of the part number. Example: 00432S. For strokes of 3.900” or larger contact Crower for .850” base circle camshafts.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
**ROLLER CAMSHAFTS (ORIGINAL SERIES)**  
(Continued)

**Mechaninca 1957 - 1998**  
262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .026" intake, .028" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Retainers</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Stock length valves (.650&quot; max lift), 10° retainers</td>
<td>87055-16</td>
<td>86072-16</td>
<td>Stock length valves (.650&quot; max lift), 10° retainers</td>
</tr>
<tr>
<td>.100&quot;+ long valve (.750&quot; max lift), Super 7° retainers</td>
<td>86767-16*</td>
<td>86072-16</td>
<td>.100&quot;+ long valve (.750&quot; max lift), Super 7° retainers</td>
</tr>
<tr>
<td>.100&quot;+ long valve. Limited street. Super 7° retainers</td>
<td>86781-16*</td>
<td>86072-16</td>
<td>.100&quot;+ long valve. Limited street. Super 7° retainers</td>
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</tbody>
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**ENGINERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
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<td>66200-16</td>
<td>68385XZ2-16</td>
<td>87055-16</td>
<td>86072-16</td>
<td>Stock length valves (.650&quot; max lift), 10° retainers</td>
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<td>84425</td>
<td>66200-16</td>
<td>68705-16*</td>
<td>86767-16*</td>
<td>86072-16</td>
<td>.100&quot;+ long valve (.750&quot; max lift), Super 7° retainers</td>
</tr>
<tr>
<td>84430</td>
<td>66200-16</td>
<td>68804-16*</td>
<td>86781-16*</td>
<td>86072-16</td>
<td>.100&quot;+ long valve. Limited street. Super 7° retainers</td>
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**ACCESSORIES**

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<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>66200-16</td>
<td>Standard .842&quot; dia roller lifters. Others available.</td>
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<tr>
<td>66292-16</td>
<td>Offset .842&quot; dia roller lifters</td>
</tr>
<tr>
<td>Pg.146-149</td>
<td>Pushrods</td>
</tr>
<tr>
<td>See pg. 136</td>
<td>Hex-A-Just timing gear set (early model block)</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.5) / 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.6) / 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.65) /7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.7) / 7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.6) /7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.75) /7/16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Long arm/Backset rocker arms (1.8) /7/16</td>
</tr>
</tbody>
</table>

Long Arm rockers come in 8 only pcs for intake. For exhaust use conventional Crower stainless, stud mount rocker arm.

**WARNING!** If running over 7500 rpm with higher rocker ratio you must contact factory for custom lobe and valve train consideration.

Specify “H” after part number for Hippo Oiling feature on roller lifters.

Ex. 66290X874H-16

Shaft Rockers are available. Refer to the new section under Valve Train.

**Note:** Rocker arms available in Aluminum & Stainless steel.
ROLLER CAMSHAFTS FOR EFI, FORCED INDUCTION & NOS

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .018" intake, .020" exhaust valve lash.

<table>
<thead>
<tr>
<th>Description / Performance Level</th>
<th>Part No.</th>
<th>Lobe Center</th>
<th>Advertised Duration @ .020&quot; Intake</th>
<th>Duration @ .050&quot; Intake</th>
<th>Duration @ .200&quot; Intake</th>
<th>Gross Lift 1.5 / 1.5 Intake</th>
<th>Gross Lift 1.6 / 1.5 Exhaust</th>
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</thead>
<tbody>
<tr>
<td>PERFORMANCE LEVEL 4</td>
<td>00550*</td>
<td>114°</td>
<td>280°</td>
<td>288°</td>
<td>247°</td>
<td>255°</td>
<td>.365&quot; .382&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>PERFORMANCE LEVEL 4</td>
<td>00551*</td>
<td>114°</td>
<td>282°</td>
<td>290°</td>
<td>248°</td>
<td>254°</td>
<td>.373&quot; .391&quot;</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.560&quot; .587&quot;</td>
</tr>
<tr>
<td>PERFORMANCE LEVEL 4</td>
<td>00552*</td>
<td>114°</td>
<td>290°</td>
<td>296°</td>
<td>254°</td>
<td>262°</td>
<td>.391&quot; .408&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.587&quot; .612&quot;</td>
</tr>
<tr>
<td>PERFORMANCE LEVEL 4</td>
<td>00553*</td>
<td>114°</td>
<td>296°</td>
<td>306°</td>
<td>262°</td>
<td>270°</td>
<td>.408&quot; .425&quot;</td>
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<td></td>
<td></td>
<td>.612&quot; .638&quot;</td>
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<tr>
<td>PERFORMANCE LEVEL 5</td>
<td>00554*</td>
<td>114°</td>
<td>306°</td>
<td>314°</td>
<td>270°</td>
<td>278°</td>
<td>.425&quot; .442&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>.638&quot; .663&quot;</td>
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<tr>
<td>PERFORMANCE LEVEL 5</td>
<td>00555*</td>
<td>114°</td>
<td>314°</td>
<td>322°</td>
<td>278°</td>
<td>284°</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>.663&quot; .689&quot;</td>
</tr>
<tr>
<td>PERFORMANCE LEVEL 5</td>
<td>00556*</td>
<td>114°</td>
<td>325°</td>
<td>332°</td>
<td>284°</td>
<td>292°</td>
<td>.459&quot; .475&quot;</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>.689&quot; .713&quot;</td>
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</tbody>
</table>

*Indicates spec change from previous listings. The above cores are 8620 steel billet. Small base circle cams available for 383 and 406. Specify “S” after part number when ordering.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
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<th>Seals</th>
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<tbody>
<tr>
<td>84420</td>
<td>66200-16</td>
<td>68385X2-16</td>
<td>87055-16</td>
<td>86072-16</td>
<td>Stock length valves (.650&quot; max lift), 10&quot; retainers</td>
</tr>
<tr>
<td>84425</td>
<td>66200-16</td>
<td>68705-16</td>
<td>86767-16*</td>
<td>86072-16</td>
<td>.100&quot;+ long valve (.750&quot; max lift), Super 7° retainers</td>
</tr>
<tr>
<td>84430</td>
<td>66200-16</td>
<td>68804-16</td>
<td>86818-16</td>
<td>86072-16</td>
<td>.100&quot;+ long valve. Limited street. Super 7° retainers</td>
</tr>
</tbody>
</table>

Spring pressure:
68385X2-16 Seat: 1.850" @ 187 lbs / Nose: 1.250" @ 445 lbs / Coil bind: 1.100" (1.525" O.D.)
68705-16 Seat: 1.950" @ 160 lbs / Nose: 1.250" @ 511 lbs / Coil bind: 1.125" (1.530" O.D.)
68804-16 Seat: 1.950" @ 235 lbs / Nose: 1.250" @ 582 lbs / Coil bind: 1.100" (1.550" O.D.)

Due to the wide variety of valve train combinations (i.e. lifter bore diameters, offsets, valve lengths, installed heights, etc...), we highly recommend that you contact Crower for your specific valve train needs.

Note: When ordering a .930" - .950" base circle cams for 3.750" or larger stroker cranks, add an “S” at the end of the part number. Example: 00432S.

For strokes of 3.900" or larger contact Crower for .850" base circle camshafts.

HIGH RPM!
With today’s high engine rpm and increased rocker ratios, valve train life is extremely critical. Increased spring pressures are mandatory for ensuring reliable valve train life. Contact Crower's technical assistance department for proper high rpm recommendations.

INTEGRAL CAST IRON GEAR OPTION:
Premium 8620 steel billet, copper plated cam cores with integral cast iron cam gear are available from Crower on a special order basis (specify part number 00050). Valve timing events are available online at: www.crower.com/valvetime.html

HIPPO Note: For severe duty roller lifter applications, we highly recommend using our roller lifters with Hippo “High Pressure Pin Oiling”.
Specify “H” in the part number. Ex. 66290X874H-16

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
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<td>66200-16</td>
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</table>

Accessories for the above part #’s are specified in the previous page, or contact CROWER for more Info.
390 SERIES LOW ROCKER RATIO ROLLER CAMSHAFTS

(LIMITED RPM)

Mechanical 1957 - 1998

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .016" intake, .018" exhaust valve lash.

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
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<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>84430</td>
<td>66200-16 68804-16 68761-16 86072-16</td>
<td>.100&quot;+ long valve. Up to .700&quot; lift</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>84431</td>
<td>66200-16 68805-16 68676-16 86072-16</td>
<td>.100&quot;+ long valve. High rpm</td>
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</tr>
<tr>
<td>84432</td>
<td>66200-16 68806-16 86076-16 86072-16</td>
<td>.100&quot;+ long valve. High pressure.</td>
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</table>

**AVAILABLE CAM JOURNAL SIZES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>Stock Small Block Chevrolet</td>
<td>1.868&quot;</td>
</tr>
<tr>
<td>Stock Block with Roller Bearings</td>
<td>1.875&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block or Stock Big Block Chevrolet</td>
<td>1.948&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block with Roller Bearings (50mm)</td>
<td>1.968&quot;</td>
</tr>
<tr>
<td>55mm</td>
<td>2.165&quot;</td>
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</table>

To order the above cores specify #00003. 55mm is available on special order basis only (#00060). Go from 50mm to 55mm without any block machining by using babbitt bearing #85522. This bearing is coated.

**Special Firing Orders:**

1-8-7-3-6-5-4-2 (4/7 Switch - A). Specify #00003 when ordering. • 1-8-7-2-6-5-4-3 (LS1/Tri Y Header - C). Specify #00060 when ordering.

**Accessories for the above part** #’s are specified on page 50, or contact CROWER for more Info.

**HIGH RPM!** With today’s high engine rpm and increased roller ratios, valve train life is extremely critical. Increased spring pressures are mandatory for insuring reliable valve train life. Contact Crower's technical assistance department for proper high rpm recommendations.

**INTEGRAL CAST IRON GEAR OPTION:** Premium 8620 steel billet, copper plated cam cores with integral cast iron cam gear are available from Crower on a special order basis (specify part number 00050).

**HIPPO Note:** For severe duty roller lifter applications, we highly recommend using our roller lifters with Hippo “High Pressure Pin Oiling”. Specify “H” in the part number.

Ex. 66290X874H-16
ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Small Block Chevrolet</td>
<td>84430</td>
<td>66200-16</td>
<td>68804-16</td>
<td>86781-16</td>
<td>86072-16</td>
<td>.100&quot; + long valve. Up to .700&quot; lift</td>
</tr>
<tr>
<td>Stock Small Block w/ Roller Bearings</td>
<td>84431</td>
<td>66200-16</td>
<td>68805-16</td>
<td>86870-16</td>
<td>86072-16</td>
<td>.100&quot; + long valve. High rpm.</td>
</tr>
<tr>
<td>Stock Rocket or Stock Big Block Chevrolet</td>
<td>84432</td>
<td>66200-16</td>
<td>68066-16</td>
<td>86870-16</td>
<td>86072-16</td>
<td>.100&quot; + long valve. High pressure.</td>
</tr>
</tbody>
</table>

To order the above cores specify #00003. 55mm is available on special order basis only (#00060). Go from 50mm to 55mm without any block machining by using babbitt bearing #85522. This bearing is coated.

**Special Firing Orders:**
1-8-7-3-6-5-4-2 (4/7 Switch - A). Specify #00003 when ordering.
1-8-7-2-6-5-4-3 (LS1/Tri Y Header - C). Specify #00060 when ordering.

**AVAILABLE CAM JOURNAL SIZES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
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</thead>
<tbody>
<tr>
<td>Stock Small Block Chevrolet</td>
<td>1.868&quot;</td>
</tr>
<tr>
<td>Stock Block w/ Roller Bearings</td>
<td>1.875&quot;</td>
</tr>
<tr>
<td>Stock Rocket or Stock Big Block Chevrolet</td>
<td>1.948&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block w/ Roller Bearings (50mm)</td>
<td>1.968&quot;</td>
</tr>
<tr>
<td>55mm</td>
<td>2.165&quot;</td>
</tr>
</tbody>
</table>

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
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<td>.842&quot; dia roller lifters. No offset.</td>
<td></td>
</tr>
<tr>
<td>66290X874-16</td>
<td>.847&quot; dia roller lifters. No offset.</td>
<td></td>
</tr>
<tr>
<td>66290X903-16</td>
<td>.903&quot; dia roller lifters. No offset.</td>
<td></td>
</tr>
<tr>
<td>66292-16</td>
<td>.842&quot; dia roller lifters. Intake Offset (.180°).</td>
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</tr>
<tr>
<td>66292X874-16</td>
<td>.847&quot; dia roller lifters. Intake Offset (.180°).</td>
<td></td>
</tr>
<tr>
<td>66292X903-16</td>
<td>.903&quot; dia roller lifters. Intake Offset (.180°).</td>
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<tr>
<td>66296-16</td>
<td>.842&quot; dia roller lifters. Specify Offset.</td>
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<tr>
<td>66296X874-16</td>
<td>.847&quot; dia roller lifters. Specify Offset.</td>
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</tr>
<tr>
<td>66296X903-16</td>
<td>.903&quot; dia roller lifters. Specify Offset.</td>
<td></td>
</tr>
<tr>
<td>66282-16</td>
<td>SB/Std .842&quot; dia roller lifters. Int/Exh Offset.</td>
<td></td>
</tr>
<tr>
<td>66282X874-16</td>
<td>SB/Std .847&quot; dia roller lifters. Int/Exh Offset.</td>
<td></td>
</tr>
<tr>
<td>66282X903-16</td>
<td>SB/Std .903&quot; dia roller lifters. Int/Exh Offset.</td>
<td></td>
</tr>
<tr>
<td>66283-16</td>
<td>SB/2B .842&quot; dia roller lifters. All Center.</td>
<td></td>
</tr>
<tr>
<td>66283X874-16</td>
<td>SB/2B .847&quot; dia roller lifters. All Center.</td>
<td></td>
</tr>
<tr>
<td>66283X903-16</td>
<td>SB/2B .903&quot; dia roller lifters. All Center.</td>
<td></td>
</tr>
</tbody>
</table>

Specify “H” after part number for Hippo Oiling feature on roller lifters.
Ex: 66290X874H-16

**Note:** .937" dia. roller lifters available for extreme applications.
**230 SERIES ROLLER CAMSHAFTS (HIGH RPM FOR BUSCH / TRUCK / ARCA) Mechanical 1997 - 1998**

262 267 283 302 305 307 327 350 400 V8 Small Block

Note: These cams use .018” intake, .020” exhaust valve lash.

**X-TREME MILEAGE CAMS AVAILABLE! CONTACT CROWER TECHNICIANS FOR MORE INFO.**

---

### AVAILABLE CAM JOURNAL SIZES

<table>
<thead>
<tr>
<th>Size</th>
<th>Description</th>
<th>Stock Small Block Chevrolet</th>
<th>Stock Block with Roller Bearings</th>
<th>Stock Rocket Block or Stock Big Block Chevrolet</th>
<th>Stock Rocket Block with Roller Bearings (55mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.868”</td>
<td>55mm</td>
<td>1.875”</td>
<td>1.948”</td>
<td>1.968”</td>
<td>2.165”</td>
</tr>
</tbody>
</table>

To order the above cores specify #00003. 55mm is available on special order basis only (#00060). Go from 50mm to 55mm without any block machining by using babbitt bearing #85522. This bearing is coated.

### SPECIAL Firing ORDERS:

1-8-7-3-6-5-4-2 (4/7 Switch - A). Specify #00003 when ordering. 1-8-7-2-6-5-4-3 (LS1/Tri Y Header - C). Specify #00060 when ordering.

---

### ENGINEERED COMPONENT KITS

Due to the wide variety of valve train combinations (i.e. lifter bore diameters, offsets, valve lengths, installed heights, etc...), we highly recommend that you contact Crower

Spring pressure:

68804-16 Seat: 1.950” @ 235 lbs / Nose: 1.250” @ 582 lbs / Coil bind: 1.100” (1.550” O.D.)

68805-16 Seat: 2.000” @ 280 lbs / Nose: 1.300” @ 663 lbs / Coil bind: 1.180” (1.600” O.D.)

68806-16 Seat: 2.050” @ 255 lbs / Nose: 1.300” @ 696 lbs / Coil bind: 1.160” (1.600” O.D.)

---

### ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>66290-16</td>
<td>.842” dia roller lifters. No offset.</td>
<td>66290X874-16 .842” dia roller lifters. No offset.</td>
</tr>
<tr>
<td>66290X903-16</td>
<td>.903” dia roller lifters. No offset.</td>
<td>66292-16 .842” dia roller lifters. Intake Offset (.180”).</td>
</tr>
<tr>
<td>66282-16</td>
<td>SB/Std .842” dia roller lifters. Int/Exh Offset.</td>
<td>66282X874-16 SB/Std .842” dia roller lifters. Int/Exh Offset.</td>
</tr>
<tr>
<td>66282X903-16</td>
<td>SB/Std .903” dia roller lifters. Int/Exh Offset.</td>
<td>66282X903-16 SB/Std .903” dia roller lifters. Int/Exh Offset.</td>
</tr>
<tr>
<td>66283-16</td>
<td>SB/SB2 .842” dia roller lifters. All Center.</td>
<td>66283X874-16 SB/SB2 .842” dia roller lifters. All Center.</td>
</tr>
<tr>
<td>66283X903-16</td>
<td>SB/SB2 .903” dia roller lifters. All Center.</td>
<td>66283X903-16 SB/SB2 .903” dia roller lifters. All Center.</td>
</tr>
</tbody>
</table>

Specify “H” after part number for Hippo Oiling feature on roller lifters.

Ex. 66290X874H-16

Note: .937” dia. roller lifters available for extreme applications.
### BEAST HYDRAULIC CAMSHAFTS

**Non Roller 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .000” intake and exhaust valve lash.

**X-TREME MILEAGE CAMS AVAILABLE!**

CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration Intake</th>
<th>Duration @ .050” Exhaust</th>
<th>Gross Lift 1.7 / 1.7 Exhaust</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE BEAST / Performance Level 1 - Smooth idle, fuel efficient design. Exceeds factory replacement cam. Economical price. RPM Power Range: Idle to 3500 / Redline: 4500 plus.</td>
<td>396 454</td>
<td>248H 112°</td>
<td>248° 252°</td>
<td>192° 198°</td>
<td>.447” .454”</td>
<td>84003</td>
</tr>
<tr>
<td>TORQUE BEAST / Performance Level 2 - Strong bottom end power. Excellent for trucks and heavy cars. Economical price. RPM Power Range: 1200 to 3800 / Redline: 5200 plus.</td>
<td>396 454</td>
<td>228H 112°</td>
<td>282° 292°</td>
<td>204° 214°</td>
<td>.478” .503”</td>
<td>84003</td>
</tr>
<tr>
<td>BAJA BEAST / Performance Level 3 - Low to mid-range torque for daily drivability. Economical price. RPM Power Range: 1500 to 4500 / Redline: 5500 plus.</td>
<td>396 454</td>
<td>268H 112°</td>
<td>268° 274°</td>
<td>210° 216°</td>
<td>.478” .481”</td>
<td>840015</td>
</tr>
<tr>
<td>POWER BEAST / Performance Level 3 - Delivers impressive mid-range and top-end power. Healthy sound. Economical price. RPM Power Range: 2000 to 4800 / Redline: 6200 plus.</td>
<td>396 454</td>
<td>292H 112°</td>
<td>292° 302°</td>
<td>214° 224°</td>
<td>.503” .529”</td>
<td>840015 or 84103</td>
</tr>
<tr>
<td>HOT STREET BEAST / Performance Level 4 - Upper mid-range to top end power. High stall convertor or 4-speed. Economical price. RPM Power Range: 2500 to 5800 / Redline: 6500 plus.</td>
<td>396 454</td>
<td>278H 112°</td>
<td>278° 284°</td>
<td>220° 228°</td>
<td>.515” .530”</td>
<td>84103</td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>66000X3-16</td>
<td>CamSaver lifter option Pg’s.146-149</td>
</tr>
</tbody>
</table>

*Note:* Rocker arms available in Aluminum & Stainless steel.

---

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84003</td>
<td>66000-16</td>
<td>68140-16</td>
<td>87063-16</td>
<td>For rpm up to 5000 max. Daily street use.</td>
<td></td>
</tr>
<tr>
<td>84001</td>
<td>66000-16</td>
<td>68302X1-16</td>
<td>87063-16</td>
<td>For rpm over 5500 max. Daily street use.</td>
<td></td>
</tr>
<tr>
<td>840015</td>
<td>66000-16</td>
<td>68302X2-16</td>
<td>87063-16</td>
<td>For rpm over 6000 max. Daily street use.</td>
<td></td>
</tr>
<tr>
<td>84103</td>
<td>66000-16</td>
<td>68340-16</td>
<td>87063-16</td>
<td>For rpm over 6500 max. Limited street use.</td>
<td></td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. **Specify X3 after corresponding component kit.**

Spring pressure:
- 68140-16 Seat: 1.875” @ 96 lbs / Nose: 1.300” @ 242 lbs / Coil bind: 1.100”
  (Stock O.D., no machine work).
- 68302X1-16 Seat: 1.875” @ 84 lbs / Nose: 1.300” @ 270 lbs / Coil bind: 1.150”
  (Stock O.D., no machine work).
- 68340-16 Seat: 1.900” @ 118 lbs / Nose: 1.350” @ 359 lbs / Coil bind: 1.080”
  (Machine work, use cutter 68986).

Valve timing events are available online at: [www.crower.com/valvtime.html](http://www.crower.com/valvtime.html)

**CROWER CAM BREAK-IN PROCEDURE**

This applies to all hydraulic and solid lifter camshafts using higher than stock spring pressure:
- Do not use block restrictors in the oil galleys. This severely limits oil flow to the cam, lifters and overhead.
- Break-in cam and lifters with low pressure springs only. Do not exceed 225 to 250 lbs open pressure.
- During break-in run engine for 35 to 45 minutes and vary rpm from 2000 to 3000.
- Recommend adding Engine Oil Supplement (EOS) or equivalent to fortify oil.

Use Crower #86084.

For break-in procedure only, Crower recommends 10W/30 motor oil. Heavier weight oils do not cold flow.
- Do not use synthetic oils during break-in period.
- For further information, please refer to the Crower Installation booklet.

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For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • [www.crower.com](http://www.crower.com)
Hydraulic roller cams & kit available, call CROWER for details.

**HYDRAULIC CAMSHAFTS**

**Non Roller 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .000° intake and exhaust valve lash.

**CONTACT CROWER TECHNICIANS FOR MORE INFO.**

**X-TREME MILEAGE CAMS AVAILABLE!**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cylinder</th>
<th>RPM Power Range</th>
<th>High Stall Converter</th>
<th>Low Gearing Required</th>
<th>RPM Power Range</th>
<th>Redline</th>
</tr>
</thead>
<tbody>
<tr>
<td>MILEAGE COMPU-PRO / Performance Level 1 - These cams are designed to enhance throttle response and low-end torque in vans, trucks and passenger cars while delivering fuel efficient motoring. High vacuum, smooth idle and maximum fuel efficiency are characteristic to these profiles. Stock or small cfm carburetor, small diameter tube headers, dual exhaust, and ignition rework are recommended for maximum benefit. Intended for low compression engines operating in the &quot;economy zone.&quot; RPM Power Range: Idle to 3500-3700 / Redline: 4500 plus.</td>
<td>396 cid</td>
<td>246° 253° 184° 192° .425° .445°</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td></td>
</tr>
<tr>
<td>POWER COMPU-PRO / Performance Level 2 - These cams provide excellent low end and mid-range power and extended rpm range for spirited street and off-road driving. A perfect combination of mileage and power. Modifications should include small diameter tube headers, low restriction dual exhaust, aftermarket manifold, increased cfm carburetor and reworked or performance ignition. Increase in compression ratio to 9.5:1 is recommended for maximum output. Works well with automatic transmission or 4-speed. RPM Power Range: 1300-1500 to 4000-4200 / Redline: 5500 plus.</td>
<td>396 cid</td>
<td>260° 266° 202° 210° .471° .476°</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td></td>
</tr>
<tr>
<td>HIGH PERFORMANCE COMPU-PRO / Performance Level 3 - Intended for the performance oriented hot street application. These cams offer an extended rpm range with emphasis on upper bottom to top end power (strong mid-range). Performance gears, headers, dual exhaust, larger than stock cfm carburetor, performance manifold and increased compression (9.5:1 to 10.5:1) are required. Works well with automatic transmission if matched with proper ring and pinion gears and/or high stall converter. RPM Power Range: 1600-1800 to 4500-4800 / Redline: 6000 plus.</td>
<td>396 cid</td>
<td>276° 278° 214° 218° .518° .520°</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td>84003 840015</td>
<td></td>
</tr>
<tr>
<td>ULTRA-PERFORMANCE COMPU-PRO / Performance Level 4 - The following grinds are best suited for dual purpose hot street/drag strip situations. These cams exhibit strong mid-range and top end torque and horsepower. Headers, dual exhaust, larger cfm carburetor, performance ignition and 11:1 compression are a must. Cylinder head modifications would be beneficial. Use with standard transmission or automatic with high stall converter. Low gearing a must. RPM Power Range: 2000-2200 to 6000-6200 / Redline: 6500 plus.</td>
<td>396 cid</td>
<td>284° 290° 224° 232° .542° .517°</td>
<td>840103</td>
<td>840103</td>
<td>840103</td>
<td></td>
</tr>
</tbody>
</table>

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg's.150-165</td>
<td>Rocker arms (1.8) 7/16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

**Note:** Rocker arms available in Aluminum & Stainless steel.

**IMPORTANT!** Stock big block Chevrolet single springs are designed for cams with approximately .400” lift. When stock valve springs are used with performance cams over .470” lift, coil bind and retainer to valve guide interference will occur.

Valve timing events are available online at: www.crower.com/valvtme.html
HYDRAULIC CAMSHAFTS (continued)
Non Roller 1965-1996
366 396 402 427 454 502 & Rodeck V8 Big Block
Note: These cam use .000" intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Note: See pages 8-9 for a detailed explanation of each Performance Level)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe</th>
<th>Advertised Duration Intake</th>
<th>Gross Lift 1.7 Intake</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Lope at idle. Hot street/ drag cam with strong mid-range power. RPM Power Range: 2000-2400 to 6000-6200 / Redline: 6500 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>396 cid</td>
<td>01205</td>
<td>280HDP 108°</td>
<td>280° 288° 220° 232°</td>
<td>.529&quot; .527&quot;</td>
<td></td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Lope at idle. Hot street/ drag cam with strong mid-range power. RPM Power Range: 2000-2400 to 6000-6200 / Redline: 6500 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>454 cid</td>
<td>01206</td>
<td>290HDP 108°</td>
<td>290° 302° 232° 242°</td>
<td>.525&quot; .537&quot;</td>
<td></td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Explosive mid-range torque. RPM Power Range: 3000-3400 to 6500 / Redline: 6700 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>396 cid</td>
<td>01207</td>
<td>296HDP 108°</td>
<td>296° 306° 238° 244°</td>
<td>.532&quot; .530&quot;</td>
<td></td>
</tr>
<tr>
<td>HI-DRAULIC HAULER / Performance Level 4 - Explosive mid-range torque. RPM Power Range: 3000-3400 to 6600 / Redline: 6800 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>454 cid</td>
<td>01208</td>
<td>306HDP 108°</td>
<td>306° 314° 246° 252°</td>
<td>.535&quot; .535&quot;</td>
<td></td>
</tr>
<tr>
<td>TURBOMASTER 1 - This cam provides excellent low end and mid-range power with mild boost (6 to 12 lbs). RPM Power Range: 1800 to 5000 / Redline: 6000 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>396 cid</td>
<td>01978</td>
<td>278HT 114°</td>
<td>278° 260° 214° 200°</td>
<td>.493&quot; .456&quot;</td>
<td></td>
</tr>
<tr>
<td>TURBOMASTER 2 - For more boost (12 lbs plus) and higher rpm, this cam will extend your mid-range and top end power. RPM Power Range: 2200 to 6000 / Redline: 6250 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>454 cid</td>
<td>01979</td>
<td>290HT 114°</td>
<td>290° 280° 226° 212°</td>
<td>.510&quot; .490&quot;</td>
<td></td>
</tr>
<tr>
<td>SUPERCHARGER 1 - Excellent low and mid-range torque with moderate boost levels (5 to 10 lbs), this cam romps. RPM Power Range: 2400 to 6000 / Redline: 6000 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>396 cid</td>
<td>01980</td>
<td>288HC 114°</td>
<td>288° 288° 228° 228°</td>
<td>.496&quot; .496&quot;</td>
<td></td>
</tr>
<tr>
<td>SUPERCHARGER 2 - A very healthy blower cam for increased boost (10 lbs plus) and higher rpm’s. RPM Power Range: 2800 to 6500 / Redline: 6500 plus.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>454 cid</td>
<td>01981</td>
<td>304HC 114°</td>
<td>304° 304° 246° 246°</td>
<td>.536&quot; .536&quot;</td>
<td></td>
</tr>
<tr>
<td>CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>All cid</td>
<td>00001</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CUSTOM CAM - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00047</td>
<td>Refer to page 7 for camshaft recommendation form</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter Springs</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84003</td>
<td>66000-16</td>
<td>68140-16</td>
<td>87063-16</td>
<td></td>
<td>For rpm up to 5000 max. Daily street use.</td>
</tr>
<tr>
<td>84001S</td>
<td>66000-16</td>
<td>68302X2-16</td>
<td>87063-16</td>
<td></td>
<td>For rpm up to 6000 max. Limited street use</td>
</tr>
<tr>
<td>84103</td>
<td>66000-16</td>
<td>68340-16</td>
<td>87063-16</td>
<td>86071-16</td>
<td>For rpm over 6500 max. Limited street use</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube "CamSaver" lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

Spring pressure:
68140-16 Seat: 1.875" @ 96 lbs / Nose: 1.300" @ 242 lbs / Coil bind: 1.100" (Stock O.D., no machine work). 68302X2-16 Seat: 1.875" @ 84 lbs / Nose: 1.300" @ 270 lbs / Coil bind: 1.150" (Stock O.D., no machine work). 68340-16 Seat: 1.900" @ 118 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work, use cutter 68986).

For proper oiling on 1965 and 1966 engines, rear cam bearing must be grooved. Specify when ordering cam. Note: Two-gear drives and reverse engine rotation camshafts are available on a special order basis. BE SMART! CROWER performance camshafts feature high lift, fast action features that can cause stock or other aftermarket valve train components to fail. Be sure to use a Crower engineered kit to avoid possible damage. CAUTION! When using high lift cams pay close attention to retainer, oil seal and valve guide interference at full lift (minimum .050”). Do not exceed .550” gross lift using stock rocker arms.

Valve timing events are available online at: www.crower.com/valvetime.html

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg.’s.150-165</td>
<td>Rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg.’s.150-165</td>
<td>Rocker arms (1.8) 7/16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
</tr>
</tbody>
</table>

IMPORTANT! Stock big block Chevrolet single springs are designed for cams with approximately 400” lift. When stock valve springs are used with performance cams over .400” lift, coil bind and retainer to valve guide interference will occur. Note: Rocker arms available in Aluminum & Stainless steel.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com
**Engineered Component KIt Info, refer to the previous page 57 for specs, or contact CROWER for more Info.**

### 390 SERIES HYDRAULIC CAMSHAFTS (BALL NOSE)

**Non Roller 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .000" intake, .000" exhaust valve lash.

**X-TREME MILEAGE CAMS AVAILABLE! CONTACT CROWER TECHNICIANS FOR MORE INFO.**

<table>
<thead>
<tr>
<th>Description</th>
<th>RPM Power Range</th>
<th>Part Number</th>
<th>Lobe Lift</th>
<th>Gross Lift</th>
</tr>
</thead>
</table>
| **Performance Level 1**
Good stock replacement for mileage/performance. Idler similar to factory. | 396 cid / 1900 - 5000 - 5500 rpm | 01290 | 114° | .273" .285" .464" .485" |
| **Performance Level 1**
Strong torque throughout power band, excellent mileage and smooth idle. | 396 cid / 2000 - 5200 - 5700 rpm | 01291 | 114° | .279" .297" .474" .505" |
| **Performance Level 2**
Good performance street camshaft with bottom end power. | 396 cid / 2200 - 5400 - 5900 rpm | 01292 | 112° | .285" .303" .485" .515" |
| **Performance Level 2**
Works well in big cubic inch engines. Mild performance and towing. | 396 cid / 2300 - 5500 - 6000 rpm | 01293 | 112° | .297" .315" .505" .536" |
| **Performance Level 3**
Fair idle, excellent mid-range horsepower. Moderate performance. | 396 cid / 2400 - 5600 - 6100 rpm | 01294 | 112° | .303" .315" .515" .536" |
| **Performance Level 3**
Good for street machine. Likes headers and aftermarket intake. | 396 cid / 2500 - 5700 - 6200 rpm | 01295 | 110° | .309" .320" .525" .545" |
| **Performance Level 3**
Performance usage with good mid-range and upper rpm torque and power. | 396 cid / 2600 - 5800 - 6300 rpm | 01296 | 110° | .315" .327" .535" .557" |
| **Performance Level 4**
Rough idle, brutal mid-range torque and horsepower. Modifications required. | 396 cid / 2700 - 5900 - 6400 rpm | 01297 | 108° | .327" .340" .557" .578" |
| **Performance Level 4**
Rough idle, explosive mid-range to top end horsepower. Modifications required. | 396 cid / 3000 - 6000 - 6500 rpm | 01298 | 108° | .340" .360" .578" .612" |

### ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Timing gear kit</td>
<td>84003</td>
<td>66000-16</td>
<td>68140-16</td>
<td>87063-16</td>
<td></td>
<td>For rpm up to 5000 max. Daily street use.</td>
</tr>
<tr>
<td>Timing gear set</td>
<td>840015</td>
<td>66000-16</td>
<td>68302X2-16</td>
<td>87063-16</td>
<td></td>
<td>For rpm up to 6000 max. Limited street use</td>
</tr>
<tr>
<td>CamSaver &quot;lifter that channels more oil to the cam lobe and lifter surface.</td>
<td>84103</td>
<td>66000-16</td>
<td>68340-16</td>
<td>87063-16</td>
<td>86071-16</td>
<td>For rpm over 6500 max. Limited street use.</td>
</tr>
</tbody>
</table>

For severe duty applications, Crower offers a high-lube “CamSaver” lifter that channels more oil to the cam lobe and lifter surface. Specify X3 after corresponding component kit.

### ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rocker arms (1.7)</td>
<td>Pg.150-165</td>
</tr>
<tr>
<td>Rocker arms (1.8)</td>
<td>Pg.150-165</td>
</tr>
<tr>
<td>Timing gear set</td>
<td>See pg.138</td>
</tr>
<tr>
<td>Timing gear kit</td>
<td>See pg.138</td>
</tr>
</tbody>
</table>

**IMPORTANT!** Stock big block Chevrolet single springs are designed for cams with approximately .400" lift. When stock valve springs are used with performance cams over .400" lift, coil bind and retainer to valve guide interference will occur.
HYDRAULIC ROLLER CAMSHAFTS
1965-1996
366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .000” intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .050”</th>
<th>Duration @ .020”</th>
<th>Gross Lift</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>396 cid</td>
<td>2050</td>
<td>01400</td>
<td>205HR213</td>
<td>264° 272°</td>
<td>205° 213°</td>
<td>110° 120°</td>
<td>.488” .512”</td>
<td>84579 or 84551LM</td>
</tr>
<tr>
<td>402 cid</td>
<td>2050</td>
<td>01401</td>
<td>213HR222</td>
<td>276° 282°</td>
<td>213° 222°</td>
<td>120° 128°</td>
<td>.512” .540”</td>
<td>84579 or 84551LM</td>
</tr>
<tr>
<td>427 cid</td>
<td>1900</td>
<td>01402</td>
<td>222HR229</td>
<td>278° 286°</td>
<td>222° 229°</td>
<td>128° 137°</td>
<td>.540” .563”</td>
<td>84579 or 84551LM</td>
</tr>
<tr>
<td>454 cid</td>
<td>1750</td>
<td>01403</td>
<td>229HR237</td>
<td>287° 296°</td>
<td>229° 237°</td>
<td>137° 145°</td>
<td>.563” .586”</td>
<td>84579 or 84551LM</td>
</tr>
</tbody>
</table>

Note: The above cams are ground on cast steel cores. Crower recommends using the factory stock cast iron distributor gear. If 8620 steel billet core with integral cast iron gear is desired, specify part number 00050.

Note: The RPM power ranges listed above are approximations, your RPM ranges may vary depending on engine setup (cylinder head flow, etc.). "LM" cores fit 454-502 cid 1994-up only (w/step nose).

Gen VI camshafts are different and require 8620 steel billet core with cast iron gear (#00050).

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.’s.150-165</td>
<td>Rocker arms (1.7) 7/16</td>
</tr>
<tr>
<td>Pg.’s.150-165</td>
<td>Rocker arms (1.8) 7/16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
</tr>
</tbody>
</table>

IMPORTANT! Stock big block
Chevrolet single springs are designed for cams with approximately .400” lift. When stock valve springs are used with performance cams over .400” lift, coil bind and retainer to valve guide interference may occur.

Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.

Note: Rocker arms available in Aluminum & Stainless steel.
HYDRAULIC ROLLER CAMSHAFTS (continued)
1965-1996
366 396 402 427 454 502 & Rodeck V8 Big Block
Note: These cams use .000” intake and exhaust valve lash.

X-TREME MILEAGE CAMS AVAILABLE!
CONTACT CROWER TECHNICIANS FOR MORE INFO.

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Part Number</th>
<th>Lobe Center</th>
<th>Advertised Duration</th>
<th>Duration @ .050” Intake</th>
<th>Duration @ .200” Intake</th>
<th>Gross Lift</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>396 cid</td>
<td>300 500 1000</td>
<td>*01404</td>
<td>Early model 01404LM</td>
<td>236HR245 110°</td>
<td>292° 303°</td>
<td>236° 245°</td>
<td>245° 154°</td>
<td>.586° .612°</td>
</tr>
<tr>
<td>402 cid</td>
<td>300 500 1000</td>
<td>*01405</td>
<td>Early model 01405LM</td>
<td>245HR253 110°</td>
<td>303° 311°</td>
<td>245° 253°</td>
<td>154° 162°</td>
<td>.612° .636°</td>
</tr>
<tr>
<td>427 cid</td>
<td>300 500 1000</td>
<td>*01406</td>
<td>Early model 01406LM</td>
<td>253HR260 110°</td>
<td>309° 318°</td>
<td>253° 260°</td>
<td>162° 171°</td>
<td>.636° .659°</td>
</tr>
</tbody>
</table>

CUSTOM GROUND HYDRAULIC ROLLER
- Special order hydraulic roller lifter cam ground to your specs on cast steel cam core using stock cast iron dist gear.

00010 Refer to page 7 for camshaft recommendation form

* Drive in Idle (rough idle).
Note: The above cams are ground on cast steel cores. Crower recommends using the factory stock cast iron distributor gear. If 8620 steel billet core with integral cast iron gear is desired, specify part number 00050.
Note: The RPM power ranges listed above are approximations, your RPM ranges may vary depending on engine setup (cylinder head flow, etc.). “LM” cores fit 454-502 cid 1994-up only (w/step nose).
Gen VI camshafts are different and require 8620 steel billet core with cast iron gear (#00050).

ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Springs</th>
<th>Retainers</th>
<th>Plug</th>
<th>Pushrods</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84551</td>
<td>66321-16 68340-16 87063M-16</td>
<td>86086</td>
<td>71755-8 &amp; 71855-8</td>
<td>For 9.800” deck.</td>
<td></td>
</tr>
<tr>
<td>84551LM</td>
<td>66331-16 68340-16 87063M-16</td>
<td>87160-8 &amp; 71860-8</td>
<td>For Late Model block.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Spring pressure:
68340-16 Seat: 1.900” @ 119 lbs / Nose: 1.350” @ 359 lbs / Coil bind: 1.080” (Machine work, use cutter 68986).
Note: If running a LM beehive spring, contact Crower.
Note: If running a tall deck block use .400” longer pushrods. Other lengths available on a special order basis.
Note: If engine is equipped with exhaust valve rotators see rotation eliminator cups (part # 68958X2-16).
Note: For proper oiling on 1965 and 1966 engines, rear cam bearing must be grooved. Specify when ordering cam.
Note: Two-gear drives and reverse engine rotation camshafts are available on a special order basis.

CAUTION! For sustained running at high rpm use valve spring (68385X2-16).
Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>See pg. 180</td>
<td>Spring seat cutter</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Rocker arms (1.5) 7/16</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Rocker arms (1.8) 7/16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
</tr>
</tbody>
</table>

IMPORTANT!
Stock big block Chevrolet single springs are designed for cams with approximately .400” lift. When stock valve springs are used with performance cams over .400” lift, coil bind and retainer to valve guide interference may occur.
Note: If using longer than stock valves you may require spring and retainer modifications. See specs or contact Crower.
Note: Rocker arms available in Aluminum & Stainless steel.
Steel billet hardface cams are available from Crower on a special order basis. Contact

If exceeding 7500 rpm, high pressure springs and titanium retainers may be required. Specify when ordering cam.

For proper oiling on 1965 and 1966 engines, rear cam bearing must be grooved. If engine is equipped with exhaust valve rotators see rotation eliminator cups. (Machine work, use cutter 68979).

68385X2-16 Seat: 1.950" @ 144 lbs / Nose: 1.300" @ 422 lbs / Coil bind: 1.100"

Optional spring (race only): (Machine work, use cutter 68986).

68340-16 Seat: 1.900" @ 119 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080"

IMPORTANT! Stock big block Chevrolet single springs are designed for cams with approximately .400" lift. When stock valve springs are used with performance cams over .400" lift, coil bind and retainer to valve guide interference may occur. If using 11/32 valve stem dia., must specify for different retainers/keepers.

For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles • RPM ranges vary upon application • www.crower.com

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### SOLID CAMSHAFTS (ORIGINAL SERIES) (continued)

**Non Roller 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .022” intake, .024” exhaust valve lash.

<table>
<thead>
<tr>
<th>Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Advertised Duration @ .050&quot; Intake</th>
<th>Exhaust</th>
<th>Duration @ .050&quot; Intake</th>
<th>Exhaust</th>
<th>Gross Lift</th>
<th>1.7 / 1.7 Exhaust</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPU-PRO / Performance Level 5 - Great high torque, good mid-range oval track grind. RPM Power Range: 3000 to 7000 / Redline: 8000 plus.</td>
<td>396</td>
<td>427</td>
<td>01355</td>
<td>292FDP</td>
<td>107°</td>
<td>292°</td>
<td>300°</td>
<td>254°</td>
<td>260°</td>
<td>.595°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Short oval grind with super torque RPM Power Range: 3500 to 7500 / Redline: 8500 plus.</td>
<td>454</td>
<td>cid</td>
<td>01352</td>
<td>298FDP</td>
<td>107°</td>
<td>298°</td>
<td>302°</td>
<td>258°</td>
<td>264°</td>
<td>.619°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Superior upper bottom, mid-range and top end power. RPM Power Range: 3750 to 7750 / Redline: 8500 plus.</td>
<td>396</td>
<td>427</td>
<td>01356</td>
<td>304FDP</td>
<td>107°</td>
<td>304°</td>
<td>310°</td>
<td>262°</td>
<td>266°</td>
<td>.626°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Superb extended power band for fast 3/8 and 1/2 mile ovals. RPM Power Range: 4000 to 8000 / Redline: 8500 plus.</td>
<td>454</td>
<td>cid</td>
<td>01353</td>
<td>310FDP</td>
<td>107°</td>
<td>310°</td>
<td>316°</td>
<td>276°</td>
<td>282°</td>
<td>.653°</td>
</tr>
<tr>
<td>COMPU-PRO / Performance Level 5 - Upper mid-range and top end profile for added punch above 7000 rpm. RPM Power Range: 4500 to 8000 / Redline: 8500 plus.</td>
<td>454</td>
<td>cid</td>
<td>01354</td>
<td>320FDP</td>
<td>110°</td>
<td>320°</td>
<td>326°</td>
<td>284°</td>
<td>292°</td>
<td>.682°</td>
</tr>
</tbody>
</table>

**CUSTOM GROUND SOLID** - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.

### CUSTOM CAM - Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pg’s.146-149</td>
<td>Longer pushrods required for high lift cams</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.7) / 16</td>
</tr>
<tr>
<td>Pg’s.150-165</td>
<td>Rocker arms (1.8) / 16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
</tr>
</tbody>
</table>

**AVAILABLE CAM JOURNAL SIZES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Small Block Chevrolet</td>
<td>1.868&quot;</td>
</tr>
<tr>
<td>Stock Block with Roller Bearings</td>
<td>1.875&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block or Stock Big Block Chevrolet</td>
<td>1.948&quot;</td>
</tr>
<tr>
<td>Stock Rocket Block with Roller Bearings (50mm)</td>
<td>1.968&quot;</td>
</tr>
<tr>
<td>55mm</td>
<td>2.165&quot;</td>
</tr>
</tbody>
</table>

To order the above cores specify #00003. 55mm is available on special order basis only (#00060). Go from 50mm to 55mm without any block machining by using babbit bearing #85522. This bearing is coated.

**Special Firing Orders:**

1-8-7-3-6-5-4-2 (4/7 Switch - A). Specify #00003 when ordering. • 1-8-7-2-6-5-4-3 (LS1/Tri Y Header - C). Specify #00060 when ordering.

---

**ENGINEERED COMPONENT KITS**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifter Springs Retainers</th>
<th>Seats</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84302</td>
<td>66900-16</td>
<td>68340-16</td>
<td>87063M-16</td>
</tr>
<tr>
<td>84301X980</td>
<td>66900X980-16</td>
<td>68385X2-16</td>
<td>87053-16</td>
</tr>
</tbody>
</table>

Spring pressure:
68340-16 Seat: 1.900” @ 119 lbs / Nose: 1.350” @ 359 lbs / Coil bind: 1.080” (Machine work, use cutter 68986).

Optional spring (race only):
68385X2-16 Seat: 1.950” @ 144 lbs / Nose: 1.300” @ 422 lbs / Coil bind: 1.100” (Machine work, use cutter 68979).

Note: If engine is equipped with exhaust valve rotators see rotation eliminator cups.

Note: For proper oiling on 1965 and 1966 engines, rear cam bearing must be grooved. Specify when ordering cam.

Note: If exceeding 7500 rpm, high pressure springs and titanium retainers may be required.

Note: Steel billet hardface cams are available from Crower on a special order basis. Contact Crower for information.

**IMPORTANT!** Stock big block Chevrolet single springs are designed for cams with approximately .400” lift. When stock valve springs are used with performance cams over .400” lift, coil bind and retainer to valve guide interference may occur. If using 13/32 valve stem dia., must specify for different retainers/keepers.

Note: Rocker arms available in Aluminum & Stainless steel.
**220 SERIES SOLID CAMSHAFTS (HIGH RPM)**

**Non Roller 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .018" intake, .020" exhaust valve lash.

### 220 SERIES SOLID CAMSHAFTS (HIGH RPM)

<table>
<thead>
<tr>
<th>C.I.D. Group</th>
<th>RPM Range</th>
<th>Advertised Duration @ .020&quot; Intake</th>
<th>Advertised Duration @ .050&quot; Intake</th>
<th>Advertised Duration @ .200&quot; Intake</th>
<th>Lobe Lift Exhaust Intake</th>
<th>Gross Lift 1.7 / 1.7 Exhaust Intake</th>
<th>Gross Lift 1.8 / 1.8 Exhaust Intake</th>
</tr>
</thead>
<tbody>
<tr>
<td>396 cid</td>
<td>Low RPM</td>
<td>Peak Torque</td>
<td>Peak HP</td>
<td>Top RPM</td>
<td>Part Number</td>
<td>Lobe Center</td>
<td>Duration 1.7 / 1.7 Exhaust</td>
</tr>
<tr>
<td></td>
<td>2700</td>
<td>4200</td>
<td>6300</td>
<td>6800</td>
<td>01330</td>
<td>108°</td>
<td>276° / 285°</td>
</tr>
<tr>
<td>427 cid</td>
<td>2700</td>
<td>4200</td>
<td>6100</td>
<td>6600</td>
<td>01332</td>
<td>108°</td>
<td>285° / 296°</td>
</tr>
<tr>
<td>454 cid</td>
<td>2700</td>
<td>4200</td>
<td>5700</td>
<td>6200</td>
<td>01334</td>
<td>108°</td>
<td>293° / 303°</td>
</tr>
<tr>
<td>502 cid</td>
<td>2400</td>
<td>3900</td>
<td>5300</td>
<td>5800</td>
<td>01336</td>
<td>110°</td>
<td>301° / 308°</td>
</tr>
<tr>
<td></td>
<td>3000</td>
<td>4500</td>
<td>6700</td>
<td>7200</td>
<td>01338</td>
<td>110°</td>
<td>310° / 316°</td>
</tr>
<tr>
<td></td>
<td>3500</td>
<td>5000</td>
<td>7200</td>
<td>7700</td>
<td>01339</td>
<td>110°</td>
<td>312° / 319°</td>
</tr>
<tr>
<td>427 cid</td>
<td>3000</td>
<td>4500</td>
<td>6350</td>
<td>6850</td>
<td>01330</td>
<td>108°</td>
<td>276° / 285°</td>
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<tr>
<td>454 cid</td>
<td>3000</td>
<td>4500</td>
<td>5900</td>
<td>6400</td>
<td>01332</td>
<td>108°</td>
<td>285° / 296°</td>
</tr>
<tr>
<td>502 cid</td>
<td>2800</td>
<td>4100</td>
<td>5600</td>
<td>6100</td>
<td>01334</td>
<td>108°</td>
<td>293° / 303°</td>
</tr>
<tr>
<td></td>
<td>3300</td>
<td>4700</td>
<td>6900</td>
<td>7400</td>
<td>01336</td>
<td>110°</td>
<td>301° / 308°</td>
</tr>
<tr>
<td></td>
<td>3500</td>
<td>5000</td>
<td>6800</td>
<td>7300</td>
<td>01338</td>
<td>110°</td>
<td>310° / 316°</td>
</tr>
<tr>
<td></td>
<td>3500</td>
<td>5000</td>
<td>5800</td>
<td>6300</td>
<td>01339</td>
<td>110°</td>
<td>312° / 319°</td>
</tr>
</tbody>
</table>

The abovecams are ground on Pro55 cores.

**Note:** If running .874" lifter bores, use # 66915-16 or 66951X980-16.

### ENGINEERED COMPONENT KITS

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84302X980</td>
<td>66900X980-16 &amp; 68340-16</td>
<td>87063M-16</td>
<td>86071-16</td>
<td>7000 plus rpm. Street applications.</td>
<td></td>
</tr>
<tr>
<td>84301X980</td>
<td>66900X980-16 &amp; 68385X2-16</td>
<td>87053-16</td>
<td>86071-16</td>
<td>Race only.</td>
<td></td>
</tr>
</tbody>
</table>

### ACCESSORIES

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<tr>
<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>Pg.146-149</td>
<td>Longer pushrods required for high lift cams</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Rocker arms (1.7) / (1.6)</td>
</tr>
<tr>
<td>Pg.150-165</td>
<td>Rocker arms (1.8) / (1.6)</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
</tr>
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</table>

**IMPORTANT!** Stock big block Chevrolet single springs are designed for cams with approximately .400" lift. When stock valve springs are used with performance cams over .400" lift, coil bind and retainer to valve guide interference may occur. If using 11/32 valve stem dia., must specify for different retainers/keepers.

**Note:** Rocker arms available in Aluminum & Stainless steel.
### ROLLER CAMSHAFTS (ORIGINAL SERIES)

#### Chevrolet

**Mechanical 1965-1996**

366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .026” intake, .028” exhaust valve lash.

### Roller Camshafts

<table>
<thead>
<tr>
<th>Description</th>
<th>C.I.D. Group</th>
<th>Part Number</th>
<th>Grind Lobe Center</th>
<th>Duration @ .050” Intake</th>
<th>Duration @ .050” Exhaust</th>
<th>Gross Lift 1.7 / 1.7 Intake</th>
<th>Gross Lift 1.7 / 1.7 Exhaust</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>STREET ROLLER / Performance Level 4 - Intended for performance oriented hot-street applications. RPM Power Range: 2500 to 6000 / Redline: 6750 plus.</td>
<td>427 454</td>
<td>01475 286R 112°</td>
<td>286° 290°</td>
<td>242° 250°</td>
<td>.581” .573”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STREET ROLLER / Performance Level 4 - Intended for performance oriented hot-street applications. RPM Power Range: 3000 to 7000 / Redline: 7000 plus.</td>
<td>427 454</td>
<td>01476 290R 112°</td>
<td>290° 296°</td>
<td>252° 254°</td>
<td>.585” .578”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STREET ROLLER / Performance Level 4 - Intended for performance oriented hot-street applications. RPM Power Range: 3200 to 7000 / Redline: 7250 plus.</td>
<td>427 454</td>
<td>01477 296R 112°</td>
<td>296° 300°</td>
<td>254° 260°</td>
<td>.580” .587”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - High torque and mid-range profile for bracket and marine applications. RPM Power Range: 2800 to 6800 / Redline: 7200 plus.</td>
<td>427 454</td>
<td>01485 296R 107°</td>
<td>296° 302°</td>
<td>256° 266°</td>
<td>.641” .636”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Strong mid-range design for bracket and marine use. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.</td>
<td>427 454</td>
<td>01486 290R 107°</td>
<td>290° 306°</td>
<td>260° 270°</td>
<td>.651” .677”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Strong mid-range design for bracket and marine use. RPM Power Range: 4500 to 8000 / Redline: 8400 plus.</td>
<td>427 454</td>
<td>01487 306R 107°</td>
<td>306° 314°</td>
<td>270° 276°</td>
<td>.678” .661”</td>
<td>84511</td>
<td></td>
<td></td>
</tr>
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</table>

**CUSTOM GROUND ROLLER** - Special order roller lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.

<table>
<thead>
<tr>
<th>Remarks</th>
<th>Suitable Component Kit</th>
</tr>
</thead>
</table>

**CUSTOM GROUND ROLLER** - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.

**ENGINEERED COMPONENT KITS**

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<tr>
<th>Part No.</th>
<th>Lifters</th>
<th>Springs</th>
<th>Retainers</th>
<th>Seals</th>
<th>Keepers</th>
<th>Rev Kit</th>
<th>Plum</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84511</td>
<td>66201-16</td>
<td>68363-16</td>
<td>87064-16</td>
<td>86071-16</td>
<td>86111-16</td>
<td>82001 86086</td>
<td>For rpm up to 7500 max.</td>
<td></td>
</tr>
<tr>
<td>84512</td>
<td>66201-16</td>
<td>68365-16</td>
<td>87056-16</td>
<td>86071T-16</td>
<td>86111-16</td>
<td>82001 86086</td>
<td>For rpm up to 8000 plus.</td>
<td></td>
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<td>Pgs.146-149</td>
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<td>Pgs.150-165</td>
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</tr>
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<td>Pgs.150-165</td>
<td>Rocker arms (1.8) 7/16</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear set</td>
</tr>
<tr>
<td>See pg.138</td>
<td>Timing gear kit</td>
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</tbody>
</table>

Note: If exceeding 8000 rpm, high pressure springs and titanium retainers may be required. See specs or contact Crower.

Note: Special cam cores available for Torrington bearing applications.

Note: Rocker arms available in Aluminum & Stainless steel.
For technical support call 619-661-6477 • Some products listed are not legal for sale or use on emission controlled motor vehicles
• RPM ranges vary upon application • www.crower.com

### ROLLER CAMSHAFTS (ORIGINAL SERIES)

**(continued)**

**Mechanical 1965-1996**

**366 396 402 427 454 502 & Rodeck V8 Big Block**

*Note: These cams use .026” intake, .028” exhaust valve lash.*

For rpm up to 7500 max.
For rpm up to 8000 plus.

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<tr>
<th>Description</th>
<th>Suitable Component Kit</th>
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<tbody>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Fast 3/8 and 1/2 mile oval track grind. RPM Power Range: 4800 to 8300 / Redline: 8700 plus.</td>
<td>84512</td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Big cid profile for 3/8 and 1/2 mile oval. RPM Power Range: 5300 to 8800 / Redline: 9000 plus.</td>
<td>84512</td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Super competition profile. RPM Power Range: Varies on valve train, heads, manifold, etc...</td>
<td>Call Crower</td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - A very radical profile for competition use only. RPM Power Range: Varies on valve train, heads, manifold, etc...</td>
<td>Call Crower</td>
</tr>
<tr>
<td>ULTRA-ACTION / Performance Level 5 - Extremely radical competition profile. RPM Power Range: Varies on valve train, heads, manifold, etc...</td>
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**CUSTOM GROUNDROLLER** - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.

**ENGINEROED COMPONENT KITS**

| Part No. | Lifters Springs Retainers Seals Keepers Rev Kit Plug Remarks |
|----------|-------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| 84511    | 66201-16 68363-16 87064-16 86071-16 86111-16 82001 86086 | For rpm up to 7500 max. |
| 84512    | 66201-16 68365-16 87056-16 86071T-16 86111-16 82001 86086 | For rpm up to 8000 plus. |

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For rpm up to 8000 max.

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For rpm up to 8000 max.
230 SERIES ROLLER CAMSHAFTS (HIGH RPM)
Mechanical 1965-1996
366 396 402 427 454 502 & Rodeck V8 Big Block

Note: These cams use .018” intake, .020” exhaust valve lash.

| C.I.D. Group | RPM Range | Low RPM | Peak Torque | Peak HP | Top RPM | Part | Lobe Center | Advertised | Duration @ .050” Intake | Duration @ .200” Exhaust | Duration @ .400” Exhaust | Lobe Lift Exhaust | Gross Lift 1.7/1.7 Intake | Gross Lift 1.8/1.7 Exhaust |
|--------------|-----------|---------|-------------|--------|---------|------|-------------|-------------|-------------------------|--------------------------|--------------------------|------------------------|------------------------|-------------------------|------------------------|
| 396 cid      | 3200-4700 | 6800-7300 | 6800-7300 | 6800-7300 | 6800-7300 | 01520 | 108° | 289° | 299° | 256° | 265° | 166° | 172° | .388” | .383” | .660” | .651” |
| 427 cid      | 3000-4500 | 6600-7100 | 6600-7100 | 6600-7100 | 6600-7100 | 01521 | 110° | 295° | 307° | 262° | 273° | 173° | 181° | .402” | .402” | .683” | .683” |
| 454 cid      | 2700-4200 | 6300-6800 | 6300-6800 | 6300-6800 | 6300-6800 | 01522 | 110° | 301° | 313° | 268° | 279° | 179° | 188° | .415” | .412” | .706” | .700” |
| 502 cid      | 2300-3800 | 5800-6300 | 5800-6300 | 5800-6300 | 5800-6300 | 01523 | 110° | 311° | 321° | 278° | 287° | 190° | 195° | .437” | .428” | .743” | .728” |
| 396 cid      | 3300-4800 | 7000-7500 | 7000-7500 | 7000-7500 | 7000-7500 | 01524 | 112° | 315° | 323° | 280° | 289° | 194° | 199° | .445” | .421” | .757” | .716” |
| 427 cid      | 3100-4600 | 6800-7300 | 6800-7300 | 6800-7300 | 6800-7300 | 01525 | 112° | 319° | 348° | 285° | 309° | 203° | 221° | .526” | .496” | .894” | .843” |
| 454 cid      | 2800-4300 | 6500-7000 | 6500-7000 | 6500-7000 | 6500-7000 | 01526 | 112° | 325° | 350° | 290° | 310° | 208° | 227° | .541” | .504” | .902” | .846” |
| 502 cid      | 2550-4050 | 6000-6500 | 6000-6500 | 6000-6500 | 6000-6500 | 01527 | 112° | 330° | 355° | 295° | 315° | 213° | 232° | .556” | .518” | .911” | .854” |

The above cores are 8620 steel billet.

**ENGINEERED COMPONENT KITS**

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<tr>
<th>Part No.</th>
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<th>Retainers</th>
<th>Plug</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>84517</td>
<td>66293-16</td>
<td>66806-16</td>
<td>86780-16</td>
<td>86086</td>
<td>Limited street use. Requires Super 7° keepers.</td>
</tr>
<tr>
<td>84516</td>
<td>66293-16</td>
<td>66860-16</td>
<td>86780-16</td>
<td>86086</td>
<td>For rpm up to 8000 max. Requires Super 7° keepers.</td>
</tr>
<tr>
<td>84515</td>
<td>66293-16</td>
<td>66854-16</td>
<td>86069-16</td>
<td>86086</td>
<td>Triple spring. Requires 10° keepers.</td>
</tr>
</tbody>
</table>

Spring pressure:
- 68860-16 Seat: 2.000” @ 279 lbs / Nose: 1.250” @ 733 lbs / Coil bind: 1.160”
- 68860-16 Seat: 1.950” @ 287 lbs / Nose: 1.100” @ 864 lbs / Coil bind: 1.010”

Valve timing events are available online at: [www.crower.com/valvtime.html](http://www.crower.com/valvtime.html)

**AVAILABLE CAM JOURNAL SIZES**

<table>
<thead>
<tr>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stock Small Block Chevrolet</td>
<td>1.948”</td>
</tr>
<tr>
<td>Stock Block with Roller Bearings</td>
<td>1.968”</td>
</tr>
<tr>
<td>Pro Stock Roller Bearings / Babbit Bearing</td>
<td>2.124”</td>
</tr>
<tr>
<td>Large Roller Bearing</td>
<td>2.166”</td>
</tr>
<tr>
<td>Pro Stock Oversize</td>
<td>66mm</td>
</tr>
</tbody>
</table>

To order the above cores specify #00003. 60mm is available on special order basis only (#00060).

**Special Firing Orders:**
- 1-8-7-3-6-5-4-2 (4/7 Switch - A). Specify #00003 when ordering.
- 1-8-7-2-6-5-4-3 (LS1/Tri Y Header - C). Specify #00060 when ordering.

**ACCESSORIES**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>66201-16</td>
<td>.842” dia roller lifters. No offset.</td>
</tr>
<tr>
<td>66375-16</td>
<td>.874” dia roller lifters. No offset.</td>
</tr>
<tr>
<td>66291-16</td>
<td>.842” dia roller lifters. No offset, Severe-Duty</td>
</tr>
<tr>
<td>66293-16</td>
<td>.842” dia roller lifters. Intake Offset, Severe-Duty</td>
</tr>
<tr>
<td>66297-16</td>
<td>.842” dia roller lifters. Specify Offset, Severe-Duty</td>
</tr>
<tr>
<td>66291X874-16</td>
<td>.842” dia roller lifters. No offset, Severe-Duty</td>
</tr>
<tr>
<td>66293X874-16</td>
<td>.842” dia roller lifters. Intake Offset, Severe-Duty</td>
</tr>
<tr>
<td>66297X874-16</td>
<td>.842” dia roller lifters. Specify Offset, Severe-Duty</td>
</tr>
</tbody>
</table>

Shaft Rockers are available. Refer to the new section in Valve Train area.

**HIPPO Note:** For severe duty roller lifter applications, we highly recommend using our roller lifters with Hippo “High Pressure Pin Oiling”. Specify “H” in the part number.

Ex. 66290X874H-16