



HYDRAULIC FLAT TAPPET

Non Roller 1963-1984

194 230 250 inline 6 cylinder

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.75 / 1.75 Intake Exhaust	Suitable Component Kit
MILEAGE COMPU-PRO / Performance Level 1 Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 Plus.	03240 MTO	ALL CID	240HDP	114°	240° 248°	182° 192°	.436" .452"	84008 84008X3
POWER COMPU-PRO / Performance Level 2 Perfect combination power/mileage with extended rpm's. RPM Power Range: 1500 to 4000 / Redline: 5500 Plus.	03241	ALL CID	248HDP	112°	248° 258°	192° 200°	.448" .460"	84008 84008X3
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.	03242	ALL CID	262HDP	112°	262° 272°	204° 212°	.478" .490"	84008 84008X3
ULTRA PERFORMANCE COMPU-PRO / Performance Level 4 Street/strip cam. Super top end torque and horsepower. RPM Power Range: 2000 to 6000 / Redline: 6500 Plus.	03243	ALL CID	272HDP	112°	272° 276°	210° 212°	.490" .508"	84008 84008X3
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00106H	ALL CID	Refer to www.crower.com for camshaft recommendation					
CHEVY 292 HYDRAULIC FLAT TAPPET SPECIAL ORDER Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00102H	292 CID	Refer to www.crower.com for camshaft recommendation					

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

MECHANICAL FLAT TAPPET

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.75 / 1.75 Intake Exhaust	Suitable Component Kit
COMPU-PRO / Performance Level 4 Does it all. Brutal power throughout the power range. RPM Power Range: 3000 to 6500 / Redline: 7000 Plus.	03311	ALL CID	282FDP	107°	282° 287°	238° 242°	.525" .532"	84303 84303X980
COMPU-PRO / Performance Level 4 Does it all. Brutal power throughout the power range. RPM Power Range: 3000 to 6500 / Redline: 7000 Plus.	03312	ALL CID	292FDP	107°	292° 298°	248° 252°	.548" .564"	84303 84303X980
COMPU-PRO / Performance Level 5 Explosive power. Superior mid-range and top end torque. RPM Power Range: 3500 to 7000 / Redline: 7500 Plus.	03313	ALL CID	304FDP	107°	304° 310°	258° 264°	.585" .600"	84303 84303X980
CUSTOM GROUND SOLID Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00106M	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00106R	ALL CID	Refer to www.crower.com for camshaft recommendation					
CHEVY 292 MECHANICAL FLAT TAPPET SPECIAL ORDER Special order mechanical lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00102M	292 CID	Refer to www.crower.com for camshaft recommendation					

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84008	66000-12	68301X1-12	86032-12	86072-12	Hydraulic Lifter. CamSaver Lifter. Race Only Solid Lifter. Race Only CoolFace Lifter.
84008X3	66000X3-12	68301X1-12	86032-12	86072-12	
84303	66900-12	68390X3-12	87048-12	86072-12	
84303X980	66900X980-	68390X3-12	87048-12	86072-12	
84005	66000-12	68304-12	86032-12	86072-12	
84005X3	66000X3-12	68304-12	86032-12	86072-12	

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).

* Machine work required

Part numbers no longer listed may still be available as custom grinds. Please contact Crower.

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

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

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

HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller

173 60° (2.8L) 189 (3.1L) V6

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.5 / 1.5	Suitable Component Kit
BAJA BEAST / Performance Level 2 Strong upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 5750 Plus.	03015	ALL CID	278HDP	112°	283° 286°	204° 214°	.422" .444"	84008 84008X3
ULTRA PERFORMANCE COMPU-PRO / Performance Level 3 Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5000 / Redline: 6000 Plus.	03043 MTO	ALL CID	278HDP	112°	278° 284°	212° 218°	.435" .449"	84008 84008X3
HI-DRAULIC HAULER / Performance Level 4 Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500 Plus.	03050 MTO	ALL CID	290HDP	108°	290° 298°	226° 234°	.470" .492"	84008 84008X3
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00107H	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>					

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

MECHANICAL FLAT TAPPET

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.5 / 1.5	Suitable Component Kit
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	03066 MTO	ALL CID	282FDP	110°	282° 287°	236° 242°	.449" .458"	84303 84303X980
COMPU-PRO / Performance Level 5 Fantastic top end profile with plenty of horsepower. RPM Power Range: 3000 to 7000 / Redline: 8000 Plus	03067 MTO	ALL CID	292FDP	108°	292° 298°	248° 250°	.470" .479"	84303 84303X980
CUSTOM GROUND SOLID Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00107M	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>					

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

Part numbers no longer listed may be available as custom grinds. Please contact Crower.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84008	66000-12	68301X1-12	86032-12	86072-12	Hydraulic Lifter.
84008X3	66000X3-12	68301X1-12	86032-12	86072-12	CamSaver Lifter. Race Only
84303	66900-12	68390X3-12	87048-12	86072-12	Solid Lifter. Race Only
84303X980	66900X980-	68390X3-12	87048-12	86072-12	CoolFace Lifter.
84005	66000-12	68304-12	86032-12	86072-12	
84005X3	66000X3-12	68304-12	86032-12	86072-12	

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Part numbers no longer listed may still available as custom grinds. Please contact 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).

* Machine work required

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

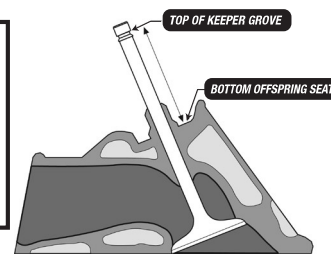
Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. Contact Crower.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

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

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. See Page 148



Note: If heads have been extensively modified (machined spring pockets, longer valves, etc.) contact Crower for proper spring, keeper, cup and retainer recommendations. Have your keeper/seat measurement available.



HYDRAULIC FLAT TAPPET

Non Roller

200 229 90° V6 (3.8L)

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
BAJA BEAST / Performance Level 3 Strong upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 Plus.	03115 MTO	ALL CID	278HDP	114°	278°	288°	204°	214°	.422"	.444"	84008 84008X3
POWER BEAST / Performance Level 4 Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5500 / Redline: 6250 Plus.	03103 MTO	229	288HDP	112°	288°	298°	214°	224°	.444"	.467"	84008 84008X3
HI-DRAULIC HAULER / Performance Level 4 Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500 Plus.	03150 MTO	ALL CID	280HDP	108°	280°	288°	226°	232°	.474"	.484"	84008 84008X3
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 Plus.	03151 MTO	229	296HDP	108°	296°	308°	228°	244°	.509"	.498"	84008 84008X3
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00108H	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

MECHANICAL FLAT TAPPET

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
COMPU-PRO / Performance Level 4 High torque, all purpose grind for most applications. RPM Power Range: 2200 to 6200 / Redline: 6750 Plus.	03165 MTO	ALL CID	282FDP	110°	282°	287°	238°	244°	.451"	.460"	84303 84303X980
COMPU-PRO / Performance Level 5 Vicious horsepower throughout the power band. RPM Power Range: 3000 to 7000 / Redline: 7500 Plus.	03166 MTO	ALL CID	292FDP	108°	292°	298°	246°	250°	.468"	.479"	84303 84303X980
CUSTOM GROUND SOLID Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00108M	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84008	66000-12	68301X1-12	86032-12	86072-12	Hydraulic Lifter. CamSaver Lifter. Race Only Solid Lifter. Race Only CoolFace Lifter.
84008X3	66000X3-12	68301X1-12	86032-12	86072-12	
84303	66900-12	68390X3-12	87048-12	86072-12	
84303X980	66900X980-	68390X3-12	87048-12	86072-12	
84005	66000-12	68304-12	86032-12	86072-12	
84005X3	66000X3-12	68304-12	86032-12	86072-12	

Part numbers no longer listed may still be available as custom grinds. Please contact 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).

* Machine work required

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

Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. Contact Crower.

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397 ppm of zinc to whatever the oil may or may not already contain. **Part #86092 - 4oz Bottle of ZDDPlus & Paste**

HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller
262 90° V6 (4.3L)

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
MILEAGE COMPU-PRO / Performance Level 1 Enhances mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4500 plus	03302 MTO	ALL CID	240HDP	114°	240°	248°	182°	190°	.386"	.387"	84008 84008X3
COMPU-PRO / Performance Level 1 Strong upper bottom/top end power. RPM Power Range: 2000 to 4500+	03342 MTO	ALL CID	264HDP	112°	264°	270°	202°	206°	.419"	.420"	84008 84008X3
COMPU-PRO / Performance Level 2 Street/strip cam. Super top end torque. RPM Power Range: 2000 to 5500+	03343 MTO	ALL CID	278HDP	112°	278°	284°	212°	218°	.435"	.449"	84008 84008X3
HI-DRAULIC HAULER / Performance Level 4 Strong mid-range and top end torque and horsepower. RPM Power Range: 2200 to 6200 / Redline: 6500 Plus.	03350 MTO	ALL CID	280HDP	108°	280°	288°	226°	232°	.474"	.484"	84008 84008X3
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: 6700 Plus.	03351 MTO	ALL CID	296HDP	108°	296°	308°	228°	244°	.509"	.498"	84008 84008X3
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00109H	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								

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

MECHANICAL FLAT TAPPET

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
COMPU-PRO / Performance Level 4 High torque, all purpose grind for most applications. RPM Power Range: 2200 to 6200 / Redline: 6750 Plus.	03365	262	282FDP	110°	282°	287°	238°	244°	.451"	.460"	84303X980
COMPU-PRO / Performance Level 5 Vicious horsepower throughout the power band. RPM Power Range: 3000 to 7000 / Redline: 7500 Plus.	03366 MTO	262	292FDP	108°	292°	298°	246°	250°	.468"	.474"	84303X980
CUSTOM GROUND SOLID Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00109M	262	<i>Refer to www.crower.com for camshaft recommendation</i>								

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

Part numbers no longer listed may be available as custom grinds. Please contact Crowder.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84008	66000-12	68301X1-12	86032-12	86072-12	Hydraulic Lifter.
84008X3	66000X3-12	68301X1-12	86032-12	86072-12	CamSaver Lifter. Race Only
84303	66900-12	68390X3-12	87048-12	86072-12	Solid Lifter. Race Only
84303X980	66900X980-	68390X3-12	87048-12	86072-12	CoolFace Lifter.
84005	66000-12	68304-12	86032-12	86072-12	
84005X3	66000X3-12	68304-12	86032-12	86072-12	

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

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).

* Machine work required

Note: If exceeding 6500 rpm, high pressure springs and titanium retainers may be required. Contact Crowder.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Crowder Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397ppm of zinc to whatever the oil may or may not already contain. **Part #86092 - 4oz Bottle of ZDDPlus & Paste**

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



HYDRAULIC FLAT TAPPET

Performance at an Affordable Price

1957-1998 Non Roller

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
BAJA BEAST / Performance Level 1 Strong bottom end power. Excellent for trucks and heavy cars. Economical price. RPM Power Range: 1200 to 3800 / Redline: 5200 Plus.	00915	283 350 400	258H	112°	258°	264°	204°	208°	.414"	.417"	84000
TORQUE BEAST / Performance Level 2 Low to mid-range torque for daily drivability. Economical price. RPM Power Range: 1800 to 5500 / Redline: 6000 Plus.	00904	283 350 400	288H	112°	288°	298°	214°	224°	.444"	.467"	84106
HOT STREET BEAST / Performance Level 3 Delivers impressive mid-range and top-end power. Healthy sound. Economical price. RPM Power Range: 2000 to 5700 / Redline: 6200 Plus.	00903	283 350 400	278H	112°	278°	284°	218°	226°	.462"	.470"	84106
ULTRA BEAST / Performance Level 4 Upper mid-range to top end power. High stall convertor or 4-speed. Economical price. RPM Power Range: 2800 to 6200 / Redline: 6500 Plus.	00917	283 350 400	304H	112°	304°	316°	234°	244°	.488"	.509"	84106
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00100H	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Keepers	Remarks
84000	66000-16	68301X1-16	86032-16		For rpm 6000 max.
84106	66000-16	68304-16	86032-16		High Rev design spring

Note: If using longer than stock valves you may require spring and retainer modifications. Contact Crower.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

*(Optional Spring Cup available if heads are cut for larger springs, use cup #68922 & 86107X1 retainer.)

68100X200X1-16 Seat: 1.800" @ 107 lbs / Nose: 1.300" @ 255 lbs / Coil bind: 1.030" (1.440" OD).

* Machine work required

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

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 galleries.
This severely limits oil flow to the cam, lifters and overhead.
- Break-in cam and lifters with low pressure springs only. Do not exceed 235 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.
- Use ZDD Plus Additive P/N 86092

Part numbers no longer listed may still be available as custom grinds. Please contact Crower.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

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.

HYDRAULIC FLAT TAPPET



Non Roller 1957-1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
COMPU-PRO / Level 1 Increased mid-range power, 112 LSA helps with vacuum and mileage. RPM Power Range: Idle to 4500 Plus.	00239	307 to 400	254HDP	112°	254°	265°	204°	210°	.431"	.431"	84000
COMPU-PRO / Level 2 Good idle with increased mid range response and top end power. RPM Power Range: Idle to 1300 to 5000 Plus.	00240	350 up	267HDP	112°	267°	272°	210°	216°	.445"	.445"	84000
COMPU-PRO / Level 2 Good idle with increased mid range response and top end power. RPM Power Range: Idle to 1500 to 5000 Plus.	00241	400	270HDP	112°	270°	276°	214°	218°	.456"	.458"	84000
COMPU-PRO / Level 3 Hot Street profile. Should have the upgrades listed for #00242. RPM Power Range: 2000 to 6200 Plus.	00243	350 383	284HDP	112°	286°	289°	225°	230°	.454"	.463"	84106
COMPU-PRO / Level 4 Ultimate Street Profile. Must have the above upgrades for #00242. RPM Power Range: 2500 to 6500 Plus.	00244	350 400	288HDP	112°	288°	296°	234°	246°	.497"	.504"	84106
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00100H	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								

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

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.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84000	66000-16	68301X1-16	86032-16	For rpm 6000 max.
84106	66000-16	68304-16	86032-16	High Rev design spring
84106X3	66000X3-16	68304-16	86032-16	CamSaver Lifter.

Part numbers no longer listed may be available as custom grinds. Please contact Crower.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

Note: If using longer than stock valves you may require spring and retainer modifications. Contact Crower.

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

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





HYDRAULIC FLAT TAPPET

1957-1998 Non Roller

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
HI-DRAULIC HAULER / Performance Level 3 Rough idle. Hot street or track with strong mid-range power. RPM Power Range: 2200 to 5800+	00210	327 350	278HDP	108°	286°	289°	225°	229°	.454"	.463"	84106 Upgrade 84106X3
HI-DRAULIC HAULER / Performance Level 4 Rough idle. Explosive mid-range torque. RPM Power Range: 2200 to 6000+	00211	384 400	296HDP	108°	296°	308°	232°	242°	.500"	.518"	84106 Upgrade 84106X3
HI-DRAULIC HAULER / Performance Level 5 Rough idle and mid-range acceleration. RPM Power Range: 2750 to 6500 max.	00212	327 350	304HDP	108°	300°	308°	240°	248°	.492"	.510"	84106 Upgrade 84106X3
HI-DRAULIC HAULER / Performance Level 5 Rough idle. Brutal mid to top end torque and horsepower. RPM Power Range: 2750 to 6500+	00213	384 400	308HDP	106°	303°	311°	248°	256°	.507"	.527"	84106 Upgrade 84106X3
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.	00978 MTO	350 400	278HT	114°	278°	260°	212°	200°	.432"	.401"	84106 Upgrade 84106X3
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.	00980	350 400	288HC	114°	288°	288°	232°	232°	.459"	.459"	84106 Upgrade 84106X3
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.	00981	350 400	304HC	114°	304°	304°	236°	236°	.506"	.506"	84106 Upgrade 84106X3
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.	00100H	All CID	Refer to www.crower.com for camshaft recommendation								
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	All CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM CAM Special order P55 Premium Cast Iron Core , call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	All CID	Refer to www.crower.com for camshaft recommendation								

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.

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84106	66000-16	68304-16	86032-16	High Rev design spring
84106X3	66000X3-16	68304-16	86032-16	CamSaver Lifter.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).
68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

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

Note: If using longer than stock valves you may require spring and retainer modifications. Contact Crower.

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

420 SERIES HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller 1957-1998

Fast Action HardCore Race

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
The 420 series is our latest profile series with an extreme response through the short power band. We use fast opening rates with smoother closing ramps to improve valve and valve seat life. The ball nose design allows for nose wear reduction and prolonged lifter life. The harmonics are improved with this profile. This series uses the Pro55 core. The core is harder and denser with increased carbides. This core is longer lasting and more wear resistant than a standard cast core. Specifically designed for naturally aspirated applications, and low boost forced induction.	00223	262-307-327	2400	4400	6000	6500+	262HDP	110°	262°	270°	214°	222°	.450"	.470"	See Below
	00223S	305-350	1800	3800	5200	5700+									
	Small Base	383	1600	3600	4900	5400+									
	Circle	406	1500	3500	4700	5200+									
	00224	262-307-327	2700	4700	6100	6500+	270HDP	110°	270°	278°	222°	230°	.470"	.488"	See Below
	00224S	305-350	2100	4100	5500	5900+			Improved seat time for better torque/power						
	Small Base	383	1800	3800	5000	5500+									
	Circle	406	1700	3700	4800	5400+									
	00225*	262-307-327	2400	4400	6000	6500+	278HDP	108°	278°	286°	230°	238°	.488"	.501"	See Below
	00225S*	305-350	1800	3800	5200	6000+									
	Small Base	383	1600	3600	4900	5400+									
	Circle	406	2000	4200	5500	6000+									
	00226*	262-307-327	3000	5000	6200	6500+	290HDP	108°	290°	298°	242°	250°	.507"	.522"	84102
	00226S*	305-350	2400	4400	5700	6200+									
	Small Base	383	2000	4000	5200	5700+									
	Circle	406	1900	3900	5000	5600+									
CUSTOM CAM Special order P55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	All CID	Refer to www.crower.com for camshaft recommendation												
CUSTOM GROUND HYDRAULIC Special order P55 Premium Cast Iron Core , call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	All CID	Refer to www.crower.com for camshaft recommendation												

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

*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.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84000	66000-16	68301X1-16	86032-16		For rpm 6000 max.
84106	66000-16	68304-16	86032-16		High Rev design spring
84106X3	66000X3-16	68304-16	86032-16		CamSaver Lifter.
84106RM3	66000RM3-16	68304-16	86032-16		Rev-Max Lifter. 300-400 rpm gain.
84102	66000-16	68390X3-16	87048-16	86072-16	Dual Spring Hydraulic.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work).

* Machine work required

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

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

**Part numbers no longer listed may still available as custom grinds.
Please contact Crower.**

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397ppm of zinc to whatever the oil may or may not already contain.

Part #86092 - 4oz Bottle of ZDDPlus & Paste

**Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.**



HYDRAULIC FLAT TAPPET

FOR EFI, FORCED INDUCTION & NOS

Non Roller 1957-1998 262 265 267 283 302 305 307 327 350 400 V8 SB

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
The 420 EFI, Forced Induction, NOS series is our latest profile series with an extreme response through the short power band. We use fast opening rates with smoother closing ramps to improve valve and valve seat life. The ball nose design allows for nose wear reduction and prolonged lifter life. The harmonics are improved with this profile. This series uses the Pro55 core. The core is harder and denser with increased carbides. This core is longer lasting and more wear resistant than a standard cast core. These are specifically designed for forced induction applications.	00231	262-307-327	2500	4500	5900	6400	270HDP	114°	270°	278°	222°	230°	.470"	.488"	See Below
	00231S	305-350	1900	3900	5300	5900									
	Small Base	383	1600	3600	4800	5300									
	Circle	406	1500	3500	4600	5200+									
	00232	262-307-327	3000	4800	6000	6500	278HDP	114°	278°	286°	230°	238°	.488"	.501"	See Below
	00232S	305-350	2200	4200	5500	6000									
	Small Base	383	1800	3800	5000	5500									
	Circle	406	1700	3700	4800	5300+									
	00233*	262-307-327	3100	5100	6200	6500	290HDP	114°	290°	298°	242°	250°	.507"	.522"	84102
	00233S*	305-350	2500	4500	5800	6300									
	Small Base	383	2200	4200	5300	5800									
	Circle	406	2100	4100	5100	5500+									
	00234*	262-307-327	3400	5400	6500	6500	298HDP	114°	298°	308°	250°	260°	.522"	.549"	84102
	00234S*	305-350	2800	4800	6000	6500									
	Small Base	383	2400	4400	5600	6000									
	Circle	406	2300	4300	5300	5800+									
CUSTOM CAM Special order P55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	All CID	Refer to www.crower.com for camshaft recommendation												
CUSTOM CAM Special order P55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	All CID	Refer to www.crower.com for camshaft recommendation												

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

*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

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84000	66000-16	68301X1-16	86032-16		For rpm 6000 max.
84106	66000-16	68304-16	86032-16		High Rev design spring
84106X3	66000X3-16	68304-16	86032-16		CamSaver Lifter.
84106RM3	66000RM3-16	68304-16	86032-16		Rev-Max Lifter. 300-400 rpm gain.
84102	66000-16	68390X3-16	87048-16	86072-16	Dual Spring Hydraulic.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).
 68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"
 68100X200X1-16 Seat: 1.800" @ 107 lbs / Nose: 1.300" @ 255 lbs / Coil bind: 1.030" (Machine work required).
 68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work).

* Machine work required

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

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

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397ppm of zinc to whatever the oil may or may not already contain.

Part #86092 - 4oz Bottle of ZDDPlus & Paste

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

MARINE HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller 1957-1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Pro55 CORE WITH STANDARD ROTATION There is improved mid range torque and top end power while maintaining some bottom end. Reverse rotation and 2 gear drives available as custom grind.	00216	262-307-327	2500	4000	5600	5800	258HDP	112°	258°	270°	214°	222°	.456"	.470"	84106RM3
	00216S*	305-350	2300	3800	4800	5500									
	Small Base	383	2000	3500	4500	5100									
	Circle	406	1900	3400	4300	5000									
Pro55 CORE WITH STANDARD ROTATION Emphasis on top end and bottom end is reduced significantly. Reverse rotation and 2 gear drives available as custom grind.	00217	262-307-327	2600	4100	5800	6000	274HDP	113°	274°	282°	226°	237°	.480"	.495"	84106RM3
	00217S*	305-350	2600	4100	5000	5800									
	Small Base	383	2400	3900	4600	5400									
	Circle	406	2300	3800	4400	5300									
CUSTOM CAM Special order Pro 55 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	All CID	Refer to www.crower.com for camshaft recommendation												
CUSTOM CAM Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	All CID	Refer to www.crower.com for camshaft recommendation												

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

*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.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84000	66000-16	68301X1-16	86032-16	For rpm 6000 max.
84106RM3	66000RM3-16	68304-16	86032-16	Rev-Max Lifter. 300-400 rpm gain.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

* Machine work required

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

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

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.**

DON'T SEE YOUR FAVORITE PART #?
IT MAY STILL BE AVAILABLE
CALL THE CROWER TECH. DEPT FOR INFO.

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397 ppm of zinc to whatever the oil may or may not already contain.
Part #86092 - 4oz Bottle of ZDDPlus & Paste



STOCK LIFT RULE HYDRAULIC FLAT TAPPET

Non Roller 1957-1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range		Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Performance Level 5 Heavy car, 1/4 mile track, low end Redline: 6000 rpm maximum	00250	283-327	3250	6000	218H224	108°	266°	274°	218°	224°	.390"	.408"	See Below
		350-372	3000	5750									
		383-400	2750	5500									
Performance Level 5 Lighter car, 3/8 mile track, low end Redline: 6000 rpm maximum	00251	283-327	3500	6000	228H236	106°	294°	294°	228°	236°	.390"	.410"	See Below
		350-372	3250	6000									
		383-400	3000	5750									
Performance Level 5 3/8 mile, high bank track, mid to top Redline: 6000 rpm maximum	00252	283-327	3750	6000	238H242	106°	300°	300°	238°	242°	.390"	.410"	See Below
		350-372	3500	6000									
		383-400	3250	6000									
Performance Level 5 Heavy car, 1/4 mile track, low end Redline: 6000 rpm maximum	00253 MTO	283-327	3250	6000	218H226	108°	266°	276°	218°	226°	.419"	.420"	See Below
		350-372	3000	5750									
		383-400	2750	5500									
Performance Level 5 Lighter car, 3/8 mile track, low end Redline: 6000 rpm maximum	00254	283-327	3500	6000	228H234	106°	294°	296°	228°	234°	.419"	.417"	See Below
		350-372	3250	6000									
		383-400	3000	5750									
Performance Level 5 3/8 mile, high bank track, mid to top Redline: 6000 rpm maximum	00255	283-327	3750	6000	234H242	106°	296°	296°	234°	242°	.417"	.416"	See Below
		350-372	3500	6000									
		383-400	3250	6000									
CUSTOM CAM Special order Pro 55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	ALL CID	Refer to www.crower.com for camshaft recommendation										
CUSTOM CAM Special order Pro 55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	ALL CID	Refer to www.crower.com for camshaft recommendation										

Note: Some oval track associations DO NOT allow the use of beehive springs.

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

ENGINEERED COMPONENT KITS **Select kit to match your rpm range*

Part No.	Lifters	Springs	Retainers	Keepers	Remarks
84106	66000-16	68304-16	86032-16		High Rev design spring
84106X3	66000X3-16	68304-16	86032-16		CamSaver Lifter.
84106RM3	66000RM3-16	68304-16	86032-16		Rev-Max Lifter. 300-400 rpm gain.

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

Spring pressure:

68301X4-16 Seat: 1.700" @ 136 lbs / Nose: 1.300" @ 325 lbs / Coil bind: 1.040" (Stock O.D., no machine work).

Crower offers a variety of cams to meet your racing class rules

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397ppm of zinc to whatever the oil may or may not already contain.

Part #86092 - 4oz Bottle of ZDDPlus & Paste

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

STOCK LIFT RULE HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller 1957-1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range		Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Performance Level 5 Heavy car, 1/4 mile track, low end Redline: 6500 rpm plus	00256	283-327	2750	5750	220H226	108°	264°	278°	220°	226°	.451"	.453"	84106
350-372		2500	5500										
383-400		2250	5250										
Performance Level 5 Lighter car, 3/8 mile track, low end Redline: 6500 rpm plus	00257	283-327	3000	6000	228H236	106°	282°	288°	228°	236°	.449"	.449"	84106
350-372		2750	5750										
383-400		2500	5500										
Performance Level 5 3/8 mile, high bank track, mid to top Redline: 6500 rpm plus	00258	283-327	3250	6250	236H242	106°	288°	292°	236°	242°	.449"	.446"	84106
350-372		3000	6000										
383-400		2750	5750										
Performance Level 5 1/2 mile, high bank track, mid to top Redline: 6500 rpm plus	00259 MTO	283-327	3500	6500	242H248	106°	292°	296°	242°	248°	.446"	.447"	84106
350-372		3250	6250										
383-400		3000	6000										
VACUUM RULE - Perf Level 5 Lighter car, 3/8 mile track, low end Redline: 6500 rpm plus	00252V MTO	283-327	3750	6500	238H242	116°	300°	300°	238°	242°	.390"	.410"	84106
350-372		3500	6250										
383-400		3250	6000										
VACUUM RULE - Perf Level 5 3/8 mile, high bank track, mid to top Redline: 6500 rpm plus	00255V MTO	283-327	3750	6500	234H242	114°	296°	296°	234°	242°	.417"	.416"	84106
350-372		3500	6250										
383-400		3250	6000										
VACUUM RULE - Perf Level 5 1/2 mile, high bank track, mid to top Redline: 6500 rpm plus	00259V	283-327	3750	6500	242H248	114°	292°	296°	242°	248°	.446"	.447"	84106
350-372		3500	6250										
383-400		3250	6000										
CUSTOM CAM Special order Pro 55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	ALL CID	Refer to www.crower.com for camshaft recommendation										
CUSTOM CAM Special order Pro 55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	ALL CID	Refer to www.crower.com for camshaft recommendation										

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

Note: Some oval track associations DO NOT allow the use of beehive springs.

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.

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

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397 ppm of zinc to whatever the oil may or may not already contain. **Part #86092 - 4oz Bottle of ZDDPlus & Paste**

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Keepers	Remarks
84106	66000-16	68304-16	86032-16		High Rev design spring
84106X3	66000X3-16	68304-16	86032-16		CamSaver Lifter.
84106RM3	66000RM3-16	68304-16	86032-16		Rev-Max Lifter. 300-400 rpm gain.

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

Spring pressure:

68301X4-16 Seat: 1.700" @ 136 lbs / Nose: 1.300" @ 325 lbs / Coil bind: 1.040" (Stock O.D., no machine work).

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

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



SHORT TRACK HYDRAULIC FLAT TAPPET

Non Roller 1957-1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit	
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		
The Short track series is similar to our 420 series with the higher lift and faster lift rates. This series allows for higher RPMs due to the reduced lobe acceleration and is much smoother than the 420 series. This series uses the Pro55 core. The core is harder and denser with increased carbides.	00270 MTO	262-307-327	2800	4000	5500	6000	226HDP	108°	277°	288°	224°	230°	.471"	.497"	84106 84106X3	
		305-350	2600	3800	5300	5800										
		383-406*	2400	3600	5100	5600										
	00271 MTO	262-307-327	2950	4150	5650	6150	228HDP	108°	288°	290°	230°	238°	.497"	.497"	84106 84106X3	
		305-350	2750	3950	5450	5450										
		383-406*	2550	3750	5250	5750										
NEW 350 SERIES CAMS These new 350 Series Cams rev higher than the 420 Series. This series also uses the harder and denser Pro55 core. Great track / hot street cam	00272	350	3000		6000+	234HDP	107°	290°	300°	235°	245°	.507"	.516"	84106 84106X3		
		383-406*	2500		5500+											
	00273	350	3250		6250+	236HDP	107°	292°	294°	239°	248°	.505"	.513"	84106 84106X3		
		383-406*	3000		6000+											
	00274	350	3500		6500+	244HDP	107°	298°	302°	245°	252°	.504"	.532"	84106 84106X3		
		383-406*	3250		6250+											
	00275	305	4000		7000+	246HDP	107°	303°	311°	248°	257°	.507"	.525"	84106 84106X3		
		350-406*	3750		6750+											
	CUSTOM GROUND HYDRAULIC Call with all engine data including head flow data, valve sizes, operating power range, etc. when ordering.	00100H	ALL CID	Refer to www.crower.com for camshaft recommendation												
	CUSTOM CAM Special order Pro 55 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	ALL CID	Refer to www.crower.com for camshaft recommendation												
CUSTOM CAM Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.	00055	ALL CID	Refer to www.crower.com for camshaft recommendation													

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

*These cid engines (383, 406) require a smaller base circle for 3.750" or larger stroke cranks. If small base circle is desired use **00055**

Note: Some oval track associations DO NOT allow the use of beehive springs.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks	Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.
84106	66000-16	68304-16	86032-16	Single Spring.	
84106X3	66000X3-16	68304-16	86032-16	Single Spring W/CamSaver Lifter	
84106RM3	66000RM3-16	68304-16	86032-16	Rev-Max Lifters	

Spring pressure:

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

* Machine work required

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

Note: If using longer than stock valves you may require spring and retainer modifications. 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 The Best Overall Performance Gains Use The Cam Form, And Let Crower Make You A Custom Cam

ORIGINAL SERIES HYDRAULIC ROLLER TAPPET

Chevrolet

1957-1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Gross Lift 1.6 / 1.6		Suitable Component Kit	
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust		
Biggest profile for maximum performance while maintaining some sort of fuel economy. 10:1 compression ratio will benefit this profile. Needs modification to heads and gears.	00402 Early Model 00402LM LM is step nose	262-302	3000	4200	5700	6200	216HR224 114°		278°	286°	220°	228°	.498"	.519"	.531"	.553"	84583 or 84583LM
		327	2800	4000	5500	6000											
		350	2600	3800	5300	5800											
		383	2500	3700	5200	5700											
		406	2400	3600	5100	5600											
Radical hot street for larger cubic inch and higher compression ratio motors. Great for EFI, forced induction and boost.	00403 Early Model 00403LM LM is step nose	262-302	3300	4500	6000	6500	224HR232 114°		286°	294°	226°	236°	.519"	.540"	.552"	.576"	84583 or 84583LM
		327	3100	4300	5800	6300											
		350	2900	4100	5600	6100											
		383	2800	4000	5500	6000											
		406	2700	3900	5400	5900											
This will get you to the track and back with an occasional cruise to show your ride. Meant for speed and power. Great strip profile. Stall speed can not be low. High Torque. Full mods needed.	00418 * Early Model 00418LM LM is step nose	262-302	3300	4500	6000	6500	230HR230 108°		306°	306°	230°	230°	.480"	.480"	.512"	.512"	84583 or 84583LM
		327	3100	4300	5800	6300											
		350	2900	4100	5600	6100											
		383	2800	4000	5500	6000											
		406	2700	3900	5400	5900											
Drag grind. All modifications required with this profile. Manual tranny required or high stall speed. Will not idle low.	00404 Early Model 00404LM LM is step nose	262-302	3300	4500	6000	6500	232HR240 114°		294°	310°	236°	244°	.540"	.565"	.579"	.602"	84583 or 84583LM
		327	3100	4300	5800	6300											
		350	2900	4100	5600	6100											
		383	2800	4000	5500	6000											
		406	2700	3900	5400	5900											
Exceptionally high torque with slightly lower Peak HP. Used for a daily driver that spends many hours on the road. Better fuel economy and the total power is an increase over stock.	00408 * Early Model 00408LM LM is step nose	262-302	2200	3400	4700	5200+	198HR210 112°		273°	288°	200°	212°	.435"	.462"	.464"	.493"	84583 or 84583LM
		327	2000	3200	4500	5000+											
		350	1700	3000	4300	4800+											
		383	1600	2900	4200	4700+											
		406	1500	2800	4100	4600+											
Slightly bigger duration and lift provides stronger mid range while maintaining basic low end performance. Broader operating power band.	00400 Early Model 00400LM LM is step nose	262-302	2400	3600	4900	5400+	200HR208 114°		260°	269°	204°	212°	.451"	.474"	.482"	.506"	84583 or 84583LM
		327	2200	3400	4700	5200+											
		350	1900	3200	4500	5000+											
		383	1800	3100	4400	4900+											
		406	1700	3000	4300	4800+											
Excellent hot street with a manual transmission or automatic tranny with a higher stall speed. Cylinder modification needed. Gear ratios are critical.	00409 Early Model 00409LM LM is step nose	262-302	2400	3600	4900	5400+	210HR215 110°		284°	288°	212°	218°	.462"	.470"	.493"	.501"	84583 or 84583LM
		327	2200	3400	4700	5200+											
		350	1900	3200	4500	5000+											
		383	1800	3100	4400	4900+											
		406	1700	3000	4300	4800+											
High Torque street rod with lower compressions. Applications within 3500-5200 can include EFI, forced or boost.	00401 Early Model 00401LM LM is step nose	262-302	2400	3600	4900	5400+	208HR216 114°		269°	278°	214°	220°	.474"	.498"	.507"	.531"	84583 or 84583LM
		327	2200	3400	4700	5200+											
		350	1900	3200	4500	5000+											
		383	1800	3100	4400	4900+											
		406	1700	3000	4300	4800+											
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00100HR	ALL CID	Refer to www.crower.com for camshaft recommendation														

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

"LM" cores fit 305-350 cid 1987-up only (w/step nose). Small base circle cams available for 383 and 406. Specify "S" after part number when ordering. **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 melinite or bronze 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

Part No.	Lifters	Springs	Retainers	Plug	Keepers	Remarks
84583	66310LM-16	68304-16	86032-16	86085	86107-16	Up to 6500 rpm Linked Lifter.
84583LM	66330-16	68304-16	86032-16		86107-16	Up to 6500 rpm Drop-In Lifter.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Spring pressure:

68304 (Optional Race Only, No Machine work required).

* Machine work required Note: If using stock GM hydraulic roller lifters, use Crower pushrod 69720 (7.200").

For The Best Overall Performance Gains Use The Cam Form, And Let Crower Make You A Custom Cam

1957 - 1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Perfect truck grind - strong bottom & mid power. Works well with stock components.	00481 Early model 00481LM LM is step nose	262-302	2400	3800	5700	6300+	204HR213	114°	255°	264°	204°	213°	.484"	.505"	84583 or 84583LM
		327	2200	3700	5600	6100+									
		350	1900	3400	5200	5700+									
		383	1700	3200	4800	5300+									
		406	1600	3100	4700	5200+									
Streetable power - more mid range power for the everyday driver.	00482 Early model 00482LM LM is step nose	262-302	2600	4000	5900	6400+	213HR221	114°	264°	273°	213°	221°	.505"	.525"	84583 or 84583LM
		327	2400	3900	5750	6250+									
		350	2200	3700	5550	6050+									
		383	2000	3500	5200	5700+									
		406	1900	3400	5100	5600+									
2000 stall or manual transmission recommended, needs head modifications, trackable daily driver.	00483 Early model 00483LM LM is step nose	262-302	2800	4000	5900	6400+	221HR230	114°	273	284°	221°	230°	.525"	.545"	84583 or 84583LM
		327	2500	3900	5750	6250+									
		350	2400	3700	5550	6050+									
		383	2100	3500	5200	5700+									
		406	2000	3400	5100	5600+									
Streetable drag profile - 2500 stall or manual transmission, chip mod. Hot street profile, head mods and gearing	00484 Early model 00484LM LM is step nose	262-302	3000	4300	6200	6500+	228HR236	114°	284°	286°	230°	236°	.545"	.555"	84584 or 84584LM
		327	2700	4200	5900	6400+									
		350	2600	4100	5850	6300+									
		383	2300	3800	5700	6200+									
		406	2200	3700	5600	6100+									
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00100HR	ALL CID	Refer to <i>www.crower.com</i> for camshaft recommendation												
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00003	ALL CID	Refer to <i>www.crower.com</i> for camshaft recommendation												
CUSTOM GROUND HYDRAULIC Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.	00050	ALL CID	Refer to <i>www.crower.com</i> for camshaft recommendation												

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

"LM" cores fit 305-350 cid 1987-up only (w/step nose). Small base circle cams available for 383 and 406. Specify "S" after part number when ordering.
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 melonite or bronze distributor gear. - **When using part # 00050**

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	Plug	Keepers	Remarks
84583	66310LM-16	68304-16	86032-16	86085	86107-16	Up to 6500 rpm Linked Lifters
84583LM	66330-16	68304-16	86032-16		86107-16	Up to 6500 rpm Drop-In Lifters
84584	66310LM-16	68390X3-16	87048-16	86085	86107-16	Up to 6500 rpm Linked Lifters
84584LM	66330-16	68390X3-16	87048-16		86107-16	Up to 6500 rpm Drop-In Lifters

Optional Hydraulic Lifters with HIPPO: 66310H, 66330H

Spring pressure:

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"

68390X3-16 Seat: 1.800" @ 115 lbs / Nose: 1.300" @ 331 lbs / Coil bind: 1.110"

* Machine work required

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



Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

350 SERIES HYDRAULIC ROLLER TAPPET

Chevrolet

Latest Profile Design Technology

1957 - 1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range		Lobe Sep.	Advertised Duration		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.5 / 1.5		Suitable Component Kit
			Low RPM	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Performance Level 2 Mild street performance, slight lobe at idle. Headers & intake rec.	00465 00465LM MTO	283-327 350-372 383-400	2400 2200 2000	5750 5550 5200	110°	264° 264HHR	273°	213° 	221°	142° 	134°	.337" .350" 	.505" .525"	84583 84583LM		
Performance Level 2 Strong mid-range, good throttle response, 2000 stall recommended.	00466 00466LM	283-327 350-372 383-400	2400 2300 2000	5750 5700 5300	110°	270° 270HHR	277°	217° 	225°	147° 	139°	.343" .357" 	.514" .535"	84583 84583LM		
NEW GRIND Performance Level 2+ Nice power gains over conventional roller lifter. Short seat time improves low end, faster lift rate increases upper mid to top end power. Rough idle	00467 00467LM	283-327 350-372 383-400	 2200 	 6000+ 	110°	273° 273HHR	284°	221° 	230°	151° 	142°	.350" .363" 	.525" .544"	84584 84584LM		
Performance Level 3 Noticeable idle, good mid-range, requires headers.	00468 00468LM	283-327 350-372 383-400	2700 2600 2300	5900 5850 5700	110°	277° 277HHR	286°	225° 	232°	157° 	149°	.357" .367" 	.535" .550"	84584 84584LM		
Performance Level 3 Slight lobe at idle, needs headers, 2500 stall recommended	00469 00469LM	283-327 350-372 383-400	2900 2800 2400	6000 5950 5900	110°	284° 284HHR	286°	230° 	236°	159° 	151°	.363" .370" 	.544" .555"	84584 84584LM		
Performance Level 3 Rough idle, aftermarket intake and headers a must.	00470 00470LM	283-327 350-372 383-400	2800 2750 2400	5950 5900 5850	110°	286° 286HHR	292°	232° 	240°	163° 	155°	.366" .373" 	.549" .559"	84584 84584LM		
Performance Level 4 Street/strip applications, rough idle, 2500 stall required.	00471 00471LM	283-327 350-372 383-400	2900 2800 2400	6000 5950 5900	110°	286° 290HHR	292°	237° 	240°	163° 	159°	.370" .373" 	.555" .559"	84584 84584LM		
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00100HR	ALL CID	Refer to www.crower.com for camshaft recommendation													
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00003	ALL CID	Refer to www.crower.com for camshaft recommendation													
CUSTOM GROUND HYDRAULIC Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.	00050	ALL CID	Refer to www.crower.com for camshaft recommendation													

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

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

"LM" indicates Late Model 305-350 cid w/step nose core (1987-up). Small base circle cams available for 383 and 406. Specify "S" after part number when ordering.

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 melonite or bronze distributor gear.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Plug	Keepers	Remarks
84583	66310LM-16	68304-16	86032-16	86085	86107-16	Up to 6500 rpm Linked Lifters
84583LM	66330-16	68304-16	86032-16		86107-16	Up to 6500 rpm Drop-In Lifters
84584	66310LM-16	68390X3-16	87048-16	86085	86107-16	Up to 6500 rpm Linked Lifters
84584LM	66330-16	68390X3-16	87048-16		86107-16	Up to 6500 rpm Drop-In Lifters

For The Best Overall Performance Gains Use The Cam Form, And Let Crower Make You A Custom Cam...

Optional Hydraulic Lifters with HIPPO: 66310H, 66330H

Spring pressure:

68304-16 Seat: 1.750" @ 124 lbs / Nose: 1.250" @ 317 lbs / Coil bind: 1.090"
68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work).

* Machine work required Note: If using stock GM hydraulic roller lifters, use Crower pushrod 69720 (7.200").

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Note: Rocker arms available in Steel Billet or Stainless. (See pages 134-146)

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.



HYDRAULIC ROLLER TAPPET

GM 350 LT1 - LT4 1993-1997

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
STOCK REPLACEMENT Increased performance in stock LT1 engines. RPM Power Range: Idle to 5000 / Redline: 5500 Max.	00560 MTO	350 CID	254HR262	114°	254°	262°	204°	212°	.485"	.505"	84552H
Performance Level 1 Works well in stock or slightly modified engines. RPM Power Range: 1000 to 5500 / Redline: 6000 Max.	00561	350 CID	262HR266	114°	262°	266°	208°	216°	.495"	.515"	84554
Performance Level 2 Modified computer, exhaust and high flow intake recommended. RPM Power Range: 1500 to 5800 / Redline: 6300 Max.	00562	350 CID	274HR284	114°	274°	284°	221°	230°	.525"	.545"	84554
Performance Level 3 Mid to top end power in highly modified engines. RPM Power Range: 2000 to 6000 / Redline: 6500 Max.	00563 MTO	350 CID	277HR286	114°	277°	286°	225°	232°	.535"	.550"	84554
Performance Level 4+	00564 MTO	350 CID	284HR296	110°	284°	296°	236°	242°	.571"	.582"	84554
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00003	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND HYDRAULIC Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.	00050	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND HYDRAULIC 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.	00052	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								

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

These cams are ground on steel cast cores. Crower recommends using melonite or bronze distributor gear.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Pushrods	Keepers	Remarks
84552H	66330-16	68304-16	86032-16	69715-16	86107-16	For rpm up to 6000 max. Daily street use.
84554	66330-16	68311X1-16	86032-16	69715R-16	Stock	Race only applications.

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).

Optional spring:

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work). LT1 only.

Recommendations:

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ACCESSORIES

Part No.	Description
Pg's. 136-144	Rocker arms
See pg. 118	Cloyes Timing Gear Set

*Use with guide plate #70517-8. (See page 168)

Note: Rocker arms available in Steel Billet or Stainless. (See pages 134-146)



Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

3 BOLT HYDRAULIC ROLLER TAPPET

Chevrolet

All New Profiles

GM LS1/LS2/LS3/LS6/LS7/LS9/LSX V8 - ALL 3 BOLT CAM CORES

1997 - Present

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.7 / 1.7 Intake Exhaust	Suitable Component Kit
Stage 1 Works well in stock or slightly modified engines. RPM Power Range: 1000 to 5500, redline: 6000 max	00571	4.8-7.0	258HR262	114°	258° 262°	208° 216°	.514" .514"	SEE BELOW
Performance Level 2 Responsive mid-range power. Modified computer, exhaust and high flow intake recommended. Louis F. says - "WOW!! great cam for daily driver, I wouldn't go bigger. It has great power and good fuel mileage."	00572	4.8-7.0	272HR280	114°	272° 280°	217° 226°	.553" .575"	SEE BELOW
Performance Level 3 Mid to top end power in highly modified engines.	00573	4.8-7.0	285HR289	114°	285° 289°	226° 232°	.566" .566"	SEE BELOW
Performance Level 1 Excellent mid & top end performance. Requires ECU tuning.	00577	4.8-7.0		110°	258° 262°	208° 216°	.514" .514"	SEE BELOW
Performance Level 2 Increased flow or aftermarket head required. ECU tune required. Good valve to piston clearance.	00578	4.8-7.0		110°	272° 280°	217° 226°	.553" .575"	SEE BELOW
Performance Level 3 Great choice for bigger displacement engines. Head work or aftermarket head required. ECU tune required. Check valve to piston clearance	00579	4.8-7.0		110°	284° 296°	230° 238°	.600" .612"	SEE BELOW
CUSTOM GROUND HYDRAULIC ROLLER Special order hydraulic roller lifter camshaft ground to your specifications and Lobe Sep.. Call our technical support staff for personalized camshaft assistance.	00053HR		Refer to www.crower.com for camshaft recommendation					

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

These cams are ground on steel cast cores. Crowder recommends using melonite or bronze distributor gear.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ENGINEERED COMPONENT KITS

Part No.	Springs	Retainers	Keepers	Remarks
84411	68435-16	87015-16	86118-16	Conical Spring & Steel Retainers
84413	68436-16	87006-16	86118-16	Dual spring & Titanium retainers
84413S	68436-16	87006S-16	86118-16	Dual spring & Steel retainers

* No lash caps, always check retainer to seal clearance, use with stock roller lifters

Lifters

Part No.	Description
66322-16	Retrofit (Link Blade) Hydraulic Roller Lifters
66351-16	Short Travel LS
66328-16	Premium Drop in Lifter

Stainless Steel Shaft Rockers Crankshafts & Connecting Rods

Part No.	Description
74164F	All Pro - LSW 12° Hurricane
74107F	Brodix - LS Series STS BR-7 BS only
74106F	Brodix -LS Series STS BR-7
74108F	GM - LS7 machine work is required
74109F	ETP - LXR LS7 4.0 Bore
74107F	ETP - LS7 4.100 Bore
74109F	ETP - LS7 4.000 Bore
74147F	Mast - LS7 LXR
74146F	Mast - LXR LS3 255cc 11°
74160F	Mast - LXR LS3 12° Med. Bore
74150F	TFS - LS1-1X
74173F	TFS - Gen X 255 LS3
74110F	World Products - LS7 Machining req.
74101F	GM - LS1, LS2, LS6
74105F	GM - LS3, L92
74173F	AFR LS3
74440F	Frankenstein 310
74447F	Frankenstein 710
74498F	Dart Pro1 LS7
74434F	CID 4.185 BE
74435F	CID 4.125 BE

Part No.	Description
95100	Forged Crankshaft - Specify stroke and reluctor wheel size
95100C	Billet LS Crank
B93051B-8	LS1 Steel billet connecting rods. Custom rods available.

These camshafts can be tuned for both Naturally Aspirated or Forced Induction applications.

Part No.	Description
73501	LS Trunion Upgrade Kit
76950	LS Billet Valve Covers with Crowder Logo. Spring oiler option available



Louis Floquet

Shaft Rockers available for most aftermarket heads.



MECHANICAL ROLLER TAPPET

GM LS1/LS2/LS3/LS6/LS7/LS9/LSX V8 - ALL 3 BOLT CAM CORES
1997 - Present

All New Profiles

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Performance Level 3 Hot-street performance applications. RPM Power Range: 3500 to 7500	00532 MTO	279R285	114°	279°	285°	251°	254°	.644"	.644"	84412
Performance Level 4 High revving, super mid to top end power. RPM Power Range: 4000 to 8000	00533 MTO	282R294	114°	282°	294°	260°	263°	.643"	.641"	84412
Performance Level 5 Super competition profile. RPM Power Range: 4500 to 8500	00534	301R303	114°	301°	303°	269°	272°	.646"	.646"	84412
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications and Lobe Sep.. Call our technical support staff for personalized camshaft assistance.	00053R	Refer to www.crower.com for camshaft recommendation								

ENGINEERED COMPONENT KITS

Part No.	Springs	Retainers	Keepers	Seals	Spring Disc	Remarks
84412	68432-16	86036T-16	86118-16	86080-16	68947-16	Titanium retainer.

Spring pressure:

68432-16 Seat: 1.800" @ 250 lbs / Nose: 1.050" @ 860 lbs / Coil bind: 0.985".

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

Stainless Steel Shaft Rockers

Part No.	Description
74164F	All Pro - LS7 12° Hurricane
	Brodix - LS Series STS BR-7 BS only
74107F	Brodix -LS Series STS BR-7
	GM - LS7 machine work is required
74106F	ETP - LXR LS7 4.0 Bore
74108F	ETP - LS7 4.100 Bore
74109F	ETP - LS7 4.000 Bore
74147F	Mast - LS7 LXR
74146F	Mast - LXR LS3 255cc 11°
74160F	Mast - LXR LS3 12° Med. Bore
74150F	TFS - LS1-1X
74173F	TFS - Gen X 255 LS3
74110F	World Products - LS7 Machining req.
74101F	GM - LS1, LS2, LS6
74105F	GM - LS3, L92
74173F	AFR LS3
74440F	Frankenstein 310
74447F	Frankenstein 710
74498F	Dart Pro1 LS7
74434F	CID 4.185 BE
74435F	CID 4.125 BE

Shaft Rockers available for most aftermarket heads.

Lifters

Part No.	Description
66278T-16	Severe-Duty Mechanical Roller Lifters for LS1 (Tall Design)
66278TH-16	Severe-Duty Mechanical Roller Lifters
66278TE-16	EnduraMax Mechanical Roller Lifters Chevrolet
.903 Body Available.	
66278X903TH-16	Severe-Duty Mechanical Roller Lifters
66278X903TE-16	EnduraMax Roller Lifters LS1 .903" OD

The above cores are 8620 steel billet. Use bronze distributor gear.

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

Crankshafts & Connecting Rods

Part No.	Description
95100	Forged Crankshaft - Specify stroke and reluctor wheel size
95100C	Billet LS Crank
B93051B-8	LS1 Steel billet connecting rods. Custom rods available.

Note: "MTO" denotes that this item is not usually stocked but is **Made To Order** in 2-3 days.

Part No.	Description
73501	LS Trunion Upgrade Kit
76950	LS Billet Valve Covers with Crower Logo. Spring oiler option available

Engine Builder Tommy Keeter of KPE Engines says "Crower is the best shaft rockers on the market !"

CARBURATED APPLICATION MECHANICAL ROLLER TAPPET

Chevrolet

All New Profiles

CARBURATED GM LS1/LS2/LS3/LS6/LS7/LS9/LSX V8 - ALL 3 BOLT CAM CORES

1997 - Present

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Performance Level 3 Hot-street performance applications. RPM Power Range: 3500 to 7500	00543 MT0	279R285	110°	279°	285°	251°	254°	.644"	.644"	84412
Performance Level 4 High revving, super mid to top end power. RPM Power Range: 4000 to 8000	00544 MT0	282R294	108°	282°	294°	260°	263°	.643"	.641"	84412
Performance Level 5 Super competition profile. RPM Power Range: 4500 to 8500	00545 MT0	301R303	108°	301°	303°	269°	272°	.646"	.646"	84412
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications and Lobe Sep.. Call our technical support staff for personalized camshaft assistance.	00053R	Refer to www.crower.com for camshaft recommendation								

ENGINEERED COMPONENT KITS

Part No.	Springs	Retainers	Keepers	Seals	Spring Disc	Remarks
84412	68432-16	86036T-16	86118-16	86080-16	68947-16	Titanium retainer.

Spring pressure:

68432-16 Seat: 1.800" @ 250 lbs / Nose: 1.050" @ 860 lbs / Coil bind: 0.985".

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

The above cores are 8620 steel billet. Use bronze distributor gear.

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

Note: "MT0" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Lifters

Part No.	Description
66278T-16	Severe-Duty Mechanical Roller Lifters for LS1 (Tall Design)
66278TH-16	Severe-Duty Mechanical Roller Lifters
66278TE-16	EnduraMax Mechanical Roller Lifters Chevrolet

.903 Body Available.

66278X903TH-16	Severe-Duty Mechanical Roller Lifters
66278X903TE-16	EnduraMax Roller Lifters LS1 .903" OD

Part No.	Description
73501	LS Trunion Upgrade Kit
76950	LS Billet Valve Covers with Crowder Logo. Spring oiler option available

**CROWER CUSTOM LS VALVE COVERS
DESIGNED TO CLEAR CROWER SHAFT ROCKERS
CALL CROWER FOR ORDERING INFORMATION**

Part No. 76950



Crankshafts & Connecting Rods

Part No.	Description
95100	Forged Crankshaft - Specify stroke and reluctor wheel size
B93051B-8	LS1 Steel billet connecting rods. Custom rods available.

Tina Pierce

Using all Crowder LS Series Components

Stainless Steel Shaft Rockers

Part No.	Description
74164F	All Pro - LSX 12° Hurricane
74107F	Brodirx - LS Series STS BR-7 BS only
	GM - LS7 machine work is required
74106F	ETP - LXR LS7 4.0 Bore
74108F	ETP - LS7 4.100 Bore
74109F	ETP - LS7 4.000 Bore
74147F	Mast - LS7 LXR
74146F	Mast - LXR LS3 255cc 11°
74160F	Mast - LXR LS3 12° Med. Bore
74150F	TFS - LS1-1X
74173F	TFS - Gen X 255 LS3
74110F	World Products - LS7 Machining req.
74101F	GM - LS1, LS2, LS6
74105F	GM - LS3, L92
74173F	AFR LS3
74440F	Frankenstein 310
74447F	Frankenstein 710
74498F	Dart Pro1 LS7
74434F	CID 4.185 BE
74435F	CID 4.125 BE

Shaft Rockers available for most aftermarket heads.





MECHANICAL FLAT TAPPET

Non Roller 1957 - 1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
PRO-STREET / Performance Level 3 High torque at low revs. Lopey idle. RPM Power Range: 2000 to 6000 / Redline: 6500 plus.	00320	302 327	264SF	112°	264°	270°	230°	236°	.458"	.468"	84299 or 84299X980
PRO-STREET / Performance Level 3 High torque with more mid-range. Crisp rpm. Really nice camshaft. RPM Power Range: 2400 to 6400 / Redline: 6800 Plus.	00321	302 327	274SF	114°	274°	282°	242°	248°	.482"	.504"	84299 or 84299X980
PRO-STREET / Performance Level 4 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.	00322	350 327	282SF	112°	282°	292°	248°	254°	.504"	.528"	84299 or 84299X980
PRO-STREET / Performance Level 5 High revving, super mid to top end power. RPM Power Range: 3000 to 6900 / Redline: 7200 Plus.	00323	350 400	294SF	114°	294°	300°	256°	262°	.528"	.545"	84299 or 84299X980
CUSTOM CAM Special order Pro 55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM CAM Special order Pro 55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00056	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84299	66900-16	68390X3-16	87048-16	86072-16	
84299X980	66900X980-16	68390X3-16	87048-16	86072-16	CoolFace Lifter.
84326	66900-16	68304-16	86032-16		Single Spring
84326X980	66900X980-16	68304-16	86032-16		Single Spring & Coolface Lifter

Spring pressure:

68301X1-16 Seat: 1.750" @ 90 lbs / Nose: 1.300" @ 260 lbs / Coil bind: 1.130" (Stock O.D. no machine work).

*(Optional Spring Cup available if heads are cut for larger springs, use cup #68922 & 86107X1 retainer.)

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work required).

* Machine work required

Note: If using longer than stock valves you may require spring and retainer modifications. Contact Crower.

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

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397ppm of zinc to whatever the oil may or may not already contain.

Part #86092 - 4oz Bottle of ZDDPlus & Paste

MECHANICAL FLAT TAPPET

Chevrolet

Non Roller 1957 - 1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration @ .050"		Duration @ .050"		Gross Lift 1.5 / 1.5		Suitable Component Kit
COMPU-PRO / Performance Level 4 Radical street, rough idle, good bottom-, mid-range power. Best with head modifications, headers, and gearing. High torque, heavy cam. RPM Power Range: 2000 to 6000 / Redline: 7000 Plus.	00350	350 400	268FDP	107°	268°	274°	238°	244°	.497"	.503"	84299
COMPU-PRO / Performance Level 5 High torque, short oval track cam, strong off corner. Emphasis in mid-range. Hot street. RPM Power Range: 2500 to 6500 / Redline: 7500 Plus.	00355	350 400	276FDP	105°	276°	282°	244°	250°	.503"	.518"	84299 84299X980
COMPU-PRO / Performance Level 5 Most popular Oval Track, NASCAR and Sportsman grind. Great high torque and mid-range power. RPM Power Range: 3000 to 7000 / Redline: 7500 Plus.	00351	350 400	288FDP	105°	288°	292°	254°	262°	.525"	.546"	84299 84299X980
COMPU-PRO / Performance Level 5 Good for fast track - high bank 3/8 mile or 1/2 mile oval. High torque at high revs. RPM Power Range: 3500 to 7500 / Redline: 7500 Plus.	00356	350 400	294FDP	105°	294°	302°	260°	266°	.540"	.557"	84299 84299X980 84293X980
COMPU-PRO / Performance Level 5 Superb extended power range. Top end drag and oval track grind. RPM Power Range: 4000 to 7500 / Redline: 7500 Plus.	00357	350 400	302FDP	107°	302°	310°	268°	278°	.557"	.587"	84299X980 84293X980
CUSTOM CAM Special order Pro 55 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM CAM Special order Pro 55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00056	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84299	66900-16	68390X3-16	87048-16	86072-16	
84299X980	66900X980-16	68390X3-16	87048-16	86072-16	CoolFace Lifter.
84326	66900-16	68304-16	86032-16		Single Spring
84326X980	66900X980-16	68304-16	86032-16		Single Spring & Coolface Lifter

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

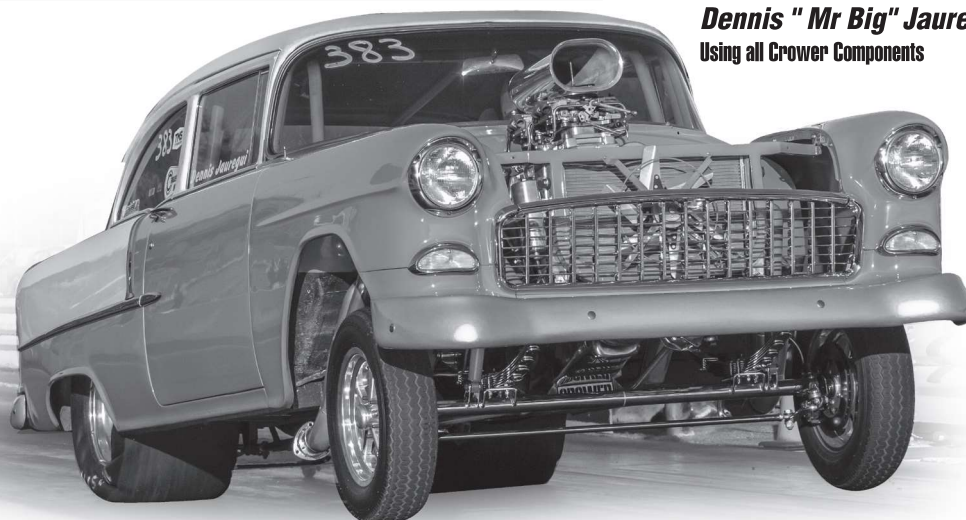
Spring pressure:

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work).

* Machine work required

Note: If using longer than stock valves you may require spring and retainer modifications. Contact Crower.

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



Dennis "Mr Big" Jauregui
Using all Crower Components



290 SERIES HIGH ROCKER RATIO MECHANICAL FLAT TAPPET

1957 - 1998

262 265 267 283 302 305 307 327 350 400 V8 Small Block

*New PRO 55 Cam Core Technology
twice as strong*

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.6 / 1.5		Gross Lift 1.7 / 1.6		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Improved torque in mid-range while maintaining healthy bottom end response.	00305 MTO	262-307-327	3400	4900	6700	7200	108°	270°	278°	240°	248°	148°	156°	.333"	.346"	.533"	.519"	.566"	.554"	See Below
		305-350	3000	4500	6200	6700														
		383-406	2700	4200	5700	6200														
Real good limited card oval track, broad operating power.	00306	262-307-327	3500	5000	6800	7300	108°	274°	278°	244°	248°	152°	156°	.340"	.346"	.544"	.519"	.578"	.554"	See Below
		305-350	3100	4600	6300	6800														
		383-406	2800	4300	5800	6300														
Rolls torque higher with closer Lobe Sep.. Heavier car, more power off corner.	00307	262-307-327	3700	5200	7000	7500	106°	278°	286°	248°	256°	156°	165°	.346"	.360"	.554"	.540"	.588"	.576"	See Below
		305-350	3400	4900	6500	7000														
		383-406	3000	4500	6000	6500														
Heavy car, explosive off the corner, needs proper car setup. For well hooked up chassis. Radical Street.	00308	262-307-327	3800	5300	7100	7600	105°	282°	290°	252°	260°	161°	167°	.353"	.366"	.565"	.549"	.600"	.586"	See Below
		305-350	3500	5000	6600	7100														
		383-406	3100	4600	6100	6600														
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	All CID	Refer to www.crower.com for camshaft recommendation																	
CUSTOM CAM Special order Pro 55 , call with all engine data including head flow data, valve sizes, operating power range, etc.	00056	All CID	Refer to www.crower.com for camshaft recommendation																	

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

Note: "MTO" denotes that this item is not usually stocked but is
Made To Order in 2-3 days.

These cams work well with 1.5 rockers. But going up
1 rocker ratio is like adding 3-4 degrees and .030" lift

ENGINEERED COMPONENT KITS **Select kit to match your rpm range*

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84299	66900-16	68390X3-16	87048-16	86072-16	
84299X980	66900X980-16	68390X3-16	87048-16	86072-16	CoolFace Lifter.

Spring pressure:

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work required).

Super 7° titanium retainers available for kit #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

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

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

**Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.**

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 galleries.
This severely limits oil flow to the cam, lifters and overhead.
- Break-in cam and lifters with low pressure springs only. Do not exceed 235 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.
- Use ZDD Plus Additive P/N 86092

290 SERIES HIGH ROCKER RATIO MECHANICAL FLAT TAPPET

Chevrolet

New PRO 55 Cam Core Technology
twice as strong

1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.6 / 1.5		Gross Lift 1.7 / 1.6		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Dynamite, heavy car, big mid range, fast track or slow 1/2 mile. Streetable, higher stall needed.	00309	262-307-327	3900	5400	7200	7800	105°	286°	294°	256°	264°	165°	173°	.360"	.373"	.576"	.559"	.612"	.597"	See Below
		305-350	3600	5100	6700	7200														
		383-406	3200	4700	6200	6700														
Streetable high stall needed, Radical street less bottom end.	00312	262-307-327	4200	5700	7400	7900	106°	290°	294°	260°	264°	161°	173°	.366"	.373"	.584"	.559"	.622"	.597"	See Below
		305-350	3700	5200	6800	7300														
		383-406	3300	4800	6300	6800														
Max street, super fast 3/8 & fast 1/2 mile, increased stroke high stall only	00313	262-307-327	4200	5700	7450	7950	106°	294°	298°	264°	268°	173°	177°	.373"	.380"	.597"	.570"	.634"	.608"	See Below
		305-350	3900	5400	6950	7450														
		383-406	3450	4950	6400	6900														
Competitive racing profile, wants high rocker ratio. All the tricks, high stalls, gears etc.	00316 MTO	262-307-327	4400	6000	7600	8100	108°	298°	302°	268°	272°	177°	181°	.380"	.386"	.608"	.579"	.646"	.618"	See Below
		305-350	4000	5500	7050	7550														
		383-406	3600	5100	6500	7000														
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 www.crower.com for camshaft recommendation																		
CUSTOM CAM Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.	00056	Refer to www.crower.com for camshaft recommendation																		

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

4-7 Switch grind available on all cams listed on this page

These latest solid lifter profiles are multipurpose and are working extremely well in NASCAR late model, drag racing and street/strip applications. Available in any Lobe Sep.. Cam cores are ground from Pro 55 cores.

ENGINEERED COMPONENT KITS *Select kit to match your rpm range

Part No.	Lifters	Springs	Retainers	Oil Seals	Remarks
84299	66900-16	68390X3-16	87048-16	86072-16	
84299X980	66900X980-16	68390X3-16	87048-16	86072-16	CoolFace Lifter.

Spring pressure:

68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 355 lbs / Coil bind: 1.110" (Machine work required).

Super 7° titanium retainers available for kit #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

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

**Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.**



220 SERIES HIGH RPM MECHANICAL FLAT TAPPET

1957 - 1998

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

*New PRO 55 Cam Core Technology
twice as strong*

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.7 / 1.6		Gross Lift 1.8 / 1.7		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Dynamite-oval track-bottom end & mid range for increased power for restarts & out of corners. Hot bracket & entry drag race.	00332	262-307-327	3600	5100	7800	8300	107°	285°	296°	251°	261°	156°	165°	.345"	.356"	.587"	.570"	.621"	.605"	84299 84299X980
		305-350	3400	4900	7400	7900														
		383-406	3100	4600	6900	7400														
Nice mix for competitive oval track & drag race. Broad operating power band. Powerglide or non shift upgrades recommended	00333 MTO	262-307-327	3700	5200	7900	8400	107°	290°	300°	255°	265°	159°	170°	.349"	.362"	.593"	.579"	.628"	.615"	84299 84299X980
		305-350	3600	5100	6600	8100														
		383-406	3200	4700	7000	7500														
Super fast track higher operating powerload.	00334	262-307-327	3800	5300	8000	8400	108°	293°	303°	259°	269°	165°	173°	.356"	.365"	.605"	.584"	.640"	.620"	84299 84299X980
		305-350	3700	5200	7700	8200														
		383-406	3300	4800	7100	7600														
Strong repsonse through entire power band. Drag race.	00335 MTO	262-307-327	3900	5400	8100	8400	108°	298°	307°	263°	273°	167°	178°	.359"	.370"	.610"	.592"	.646"	.629"	84299 84299X980
		305-350	3850	5350	7750	8250														
		383-406	3400	4900	7150	7650														
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 www.crower.com for camshaft recommendation																	
CUSTOM CAM- Special order Pro 55, call with all engine data including head flow data, valve sizes, operating power range, etc.	00056		Refer to www.crower.com for camshaft recommendation																	

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: 002755) if smaller base circle is desired.

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

Note: "MTO" denotes that this item is not usually stocked but is **Made To Order** in 2-3 days.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84299X980	66973X980SP-16	68441-16	87036-16	Super polished CoolFace Lifter.

Spring pressure:

68441-16 Seat: 1.800" @ 145 lbs / Nose: 1.200" @ 366 lbs / Coil bind: 1.000"

Super 7° keepers required for #86767-16 retainers.

*.842" diameter No Chamfer Lifters

1.8 Rockers are not recommended for street use. (See Page 134-146)

Valve spring pressures are critical for high mileage applications

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

AVAILABLE SPECIALTY CORES

Description	Size
Stock Block with Roller Bearings (Pro 55 cast material)	1.875"
Stock Rocket Block or Stock Big Block Chevrolet (Pro 55 cast material)	1.948"
Stock Rocket Block with Roller Bearings (50mm) (Pro 55 cast material)	1.968"
55mm (Hard Face 8620 steel billet)	2.165"
Hard Face (8620 steel billet only) All bearing configuration available	Specify

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

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

**Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.**

**Please fill out the camshaft recommendation form on
www.crower.com for a custom cam recommendation.**

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 galleries.
This severely limits oil flow to the cam, lifters and overhead.
- Break-in cam and lifters with low pressure springs only. Do not exceed 235 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.
- Use ZDD Plus Additive P/N 86092

315 SERIES MECHANICAL ROLLER TAPPET

Chevrolet

Mechanical Roller 1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5	
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
TORQUE BEAST ROLLER / Affordable Performance Torque and mid-range power for drag and oval track racing. Cast steel core. RPM Power Range: 2500 to 6500 / Redline: 7000 Max.	00422 MTO	350 400	268R	112°	268°	277°	240°	248°	.546"	.564"
POWER BEAST ROLLER / Affordable Performance Mid-range torque with emphasis on top end horsepower. Cast steel core. RPM Power Range: 2750 to 6750 / Redline: 7000 Plus.	00423	350 400	277R	110°	277°	285°	244°	253°	.564"	.582"
ULTRA BEAST ROLLER / Affordable Performance Intended for performance applications with emphasis on top end. Cast steel core. RPM Power Range: 3000 to 7000 / Redline: 7250 Plus.	00424 MTO	350 400	285R	108°	285°	293°	253°	261°	.582"	.603"
STREET ROLLER 350 Intended for performance oriented hot-street applications. 8620 steel billet. RPM Power Range: 2500 to 6500 / Redline: 7000 Max.	00425	350 400	280R	112°	280°	288°	246°	248°	.554"	.567"
STREET ROLLER 383+ Intended for performance oriented hot-street applications. 8620 steel billet. RPM Power Range: 3000 to 7000 / Redline: 7500 Max.	00426 MTO	350 400	288R	112°	288°	290°	250°	252°	.570"	.584"
HOT STREET ROLLER 350+ Intended for performance oriented hot-street applications. 8620 steel billet. RPM Power Range: 3250 to 7250 / Redline: 7750 Max.	00427	350 400	290R	112°	290°	296°	260°	266°	.585"	.597"
ULTRA-ACTION / Performance Level 5 High torque oval track grind. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.	00430	350 400	284R	105°	284°	294°	256°	260°	.626"	.627"
ULTRA-ACTION / Performance Level 5 Mid-range torque and top end oval track profile. RPM Power Range: 3500 to 7500 / Redline: 8000 Plus.	00431	350 400	290R	105°	290°	296°	258°	262°	.626"	.626"
ULTRA-ACTION / Performance Level 5 Fast 3/8 and 1/2 mile oval track grind. RPM Power Range: 4000 to 8000 / Redline: 8000 Plus.	00432	350 400	294R	105°	294°	302°	260°	268°	.626"	.624"
ULTRA-ACTION / Performance Level 5 1/2 mile or longer in big cid engine. Torque and mid-range for drag. RPM Power Range: 5000 to 8000 / Redline: 8000 plus.	00434	350 400	299R	105°	299°	308°	262°	272°	.639"	.629"

Lobe Sep.s can be changed for a small fee.

Stroker engines require smaller base circle.

Note: See lifter section. (see pages 125-133) for more info.

Street rollers have a smoother lift rate and require less spring pressure, increasing timing chain & roller life.

Big displacement, high RPM builds are not covered in this series. Please fill out the cam spec sheet for a custom grind. **More lifter diameters available:** See lifter section. (see pages 125-133) for more info.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84427	66290-16	68795-16	86780-16	86072-16	.100"+ long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers

Spring pressure:

68795-16 Seat: 2.000" @ 284 lbs / Nose: 1.250" @ 699 lbs / Coil bind: 1.110"

68806-16 Seat: 2.050" @ 194 lbs / Nose: 1.250" @ 733 lbs / Coil bind: 1.160"

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. 66290H-16

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

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

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 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).



EFI, FORCED INDUCTION & NOS MECHANICAL ROLLER TAPPET

1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	Lobe Sep.	Advised Duration @.020"		Duration @.050"		Duration @.200"		Lobe Lift		Gross Lift 1.5 / 1.5		Gross Lift 1.6 / 1.5		Suitable Component Kit
PERFORMANCE LEVEL 4 Great 9:1, 355 cid, mid-range. RPM: 3000 to 7000 max	00550* MTO	114°	280°	288°	247°	255°	159°	167°	.365"	.382"	.548"	.573"	.584"	.573"	84430
PERFORMANCE LEVEL 4 High stall, heavy car, low gears. RPM: 3500 to 7500 max	00551* MTO	114°	282°	290°	248°	254°	163°	171°	.373"	.391"	.560"	.587"	.597"	.587"	84430
PERFORMANCE LEVEL 4 Strip Special - Easy on train. Excellent with 1.6 rockers (int).	00552*	114°	290°	296°	254°	262°	171°	177°	.391"	.408"	.587"	.612"	.626"	.612"	84430
PERFORMANCE LEVEL 5 Super Stock & Bracket classes. High rocker ratio recommended.	00553*	114°	296°	306°	262°	270°	177°	186°	.408"	.425"	.612"	.638"	.653"	.638"	84430
PERFORMANCE LEVEL 5 2 carbs, high stall or 4-speed. Awesome top end cam!	00554* MTO	114°	306°	314°	270°	278°	186°	194°	.425"	.442"	.638"	.663"	.680"	.663"	84430
PERFORMANCE LEVEL 5 Big engine, injected/carb, comp. RPM: 5500 to 8500 max	00555* MTO	114°	314°	322°	278°	284°	194°	201°	.442"	.459"	.663"	.689"	.707"	.689"	84430
PERFORMANCE LEVEL 5 Major top end power. RPM: 5600 to 8500 rpm max	00556* MTO	114°	325°	332°	284°	292°	201°	210°	.459"	.475"	.689"	.713"	.734"	.713"	84430

*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.

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

Note: "MTO" denotes that this item is not usually stocked but is **Made To Order** in 2-3 days.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84430	66200-16	68804H-16	86781-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers
84427	66290-16	68795-16	86780-16	86072-16	.100"+ long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers

Spring pressure:

68804H-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 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). Valve timing events are available online at: www.crower.com/valvtime.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. 66290H-16**

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless

350 SERIES MECHANICAL ROLLER TAPPET

Chevrolet

Mechanical Roller 1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.5 / 1.5	Suitable Component Kit
ULTRA-ACTION / Performance Level 5 Mid-range and top end drag race profile for 350 cid with automatic transmission. RPM Power Range: Varies on valve train, heads, manifold, etc... .975" Base Circle	00439	350	316R	108°	316° 319°	282° 286°	.672" .687"	
ULTRA-ACTION / Performance Level 5 This cam is drag race only or modifieds with 4 or 5 speed transmission. RPM Power Range: Varies on valve train, heads, manifold, etc... .975" Base Circle	00440 MTO	350 400	319R	108°	319° 326°	286° 288°	.686" .636"	
CUSTOM GROUND Custom order roller using a 4-7 swap firing order on a steel billet core. Call our technical support staff for personalized assistance.	00003	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.	00050	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration. Call our technical support staff for personalized camshaft assistance.	00060	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND ROLLER Custom ground roller, using a billet 8620, ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00100R	ALL CID	Refer to www.crower.com for camshaft recommendation					

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

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84427	66290-16	68795-16	86780-16	86072-16	.100"+ long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers

Street rollers have a smoother lift rate and require less spring pressure, increasing timing chain & roller life.

Big displacement, high RPM builds are not covered in this series. Please fill out the cam spec sheet for a custom grind.

Spring pressure:

68795-16 Seat: 2.000" @ 284 lbs / Nose: 1.250" @ 699 lbs / Coil bind: 1.110"
68806-16 Seat: 2.050" @ 194 lbs / Nose: 1.250" @ 733 lbs / Coil bind: 1.160"

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

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. 66290H-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.

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.

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

Let Crower Help You Pick Your Cam. If you are not an experienced engine builder or are unsure of the correct cam profile for your application. Fill out the cam spec sheet, and let Crower tech's recommend a cam for peak engine performance.

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.



390 SERIES LOW/ROCKER RATIO ROLLER TAPPET (MAX/AREA PROFILE)

Mechanical Roller 1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.5 / 1.5		Gross Lift 1.6 / 1.5		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
High torque - needs modifications	00502	262-307-327	3400	4900	7600	8100	108°	284°	295°	255°	262°	179°	173°	.421"	.400"	.631"	.601"	.674"	.601"	
		305-350	3300	4800	7300	7800														
		383-406	3000	4500	6800	7300														
1/4 - 3/8 mile oval track, 390 carb	00503	262-307-327	3700	5200	7800	8300	108°	289°	299°	260°	264°	183°	178°	.429"	.408"	.643"	.612"	.686"	.612"	
		305-350	3500	5000	7600	8100														
		383-406	3100	4600	7000	7500														
Fast 3/8 - 1/2 mile track big area profile - excellent for 383 + ci.	00504	262-307-327	3800	5300	7900	8400	106°	294°	302°	265°	269°	187°	181°	.438"	.417"	.657"	.626"	.701"	.626"	
		305-350	3600	5100	7700	8200														
		383-406	3200	4700	7100	7600														
High torque - needs modifications	00505	262-307-327	3900	5400	8000	8500	105°	299°	306°	268°	273°	191°	185°	.446"	.424"	.669"	.636"	.714"	.636"	
		305-350	3800	5300	7800	8300														
		383-406	3400	4900	7200	7700														
Modified 400 ci blocks, super mid- range. Top end performance, all the whistles needed.	00506	262-307-327	4000	5500	8100	8600	105°	302°	312°	271°	278°	194°	190°	.454"	.434"	.681"	.652"	.726"	.652"	
		305-350	3900	5400	7900	8400														
		383-406	3400	4900	7300	7800														
CUSTOM GROUND	00003	ALL CID	Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND	00050	ALL CID	Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND	00060	ALL CID	Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration. Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND ROLLER	00100R	ALL CID	Custom ground roller, using a 8620 steel billet core, ground to your specifications Call with all engine data including head flow data, valve sizes, operating power range, etc.																	

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

The above cores are 8620 steel billet. Use bronze distributor gear.

Small base circle cams available for 383 and 406. Specify "S" after part number when ordering.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84427	66290-16	68795-16	86780-16	86072-16	.100"+ long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers

**Your RPM range will
vary depending on your
Cylinder Head Air Flow
Data & Cubic Inches.**



**"Rocketman" Robbie Freels
2018 & 2015 NDRL 7.0 Pro Champion**

AVAILABLE CAM JOURNAL SIZES

Description	Size
Stock Small Block Chevrolet	1.868"
Stock Block with Roller Bearings	1.875"
Stock Rocket Block or Stock Big Block Chevrolet	1.948"
Stock Rocket Block with Roller Bearings (50mm)	1.968"
55mm	2.165"

310 SERIES OVAL TRACK MECHANICAL ROLLER TAPPET

Chevrolet

Mechanical Roller 1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.7 / 1.6		Gross Lift 1.8 / 1.7		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Mid range monster, Heavy car, tight corner oval track.	00510* MTO	307-327 305-350 383-406	3600 3400 3000	5100 4900 4500	7500 7300 6900	8000 7800 7400	106°	277°	292°	248°	258°	164°	163°	.377"	.368"	.641"	.589"	.678"	.625"	See Below
Upper mid range & top end power, tight corner oval track.	00511*	307-327 305-350 383-406	3800 3700 3200	5300 5200 4700	7600 7700 7100	8100 8200 7600	106°	283°	297°	254°	264°	173°	175°	.393"	.406"	.668"	.650"	.707"	.690"	See Below
Versatile profile - good for high torque drag racing/bracker lower top end.	00512*	307-327 305-350 383-406	3900 3800 3400	5400 5300 4900	7900 7800 7300	8400 8300 7800	107°	289°	301°	260°	268°	180°	179°	.408"	.415"	.694"	.664"	.734"	.705"	See Below
Mid top end performance upgrades demanded.	00513* MTO	307-327 305-350 383-406	4000 3900 3600	5500 5400 5100	8000 7900 7400	8500 8400 7900	107°	293°	307°	264°	274°	184°	185°	.418"	.430"	.711"	.688"	.752"	.731"	See Below
All top end drag race, short rpm change oval track, upgrades a must.	00514* MTO	307-327 305-350 383-406	4100 4000 3700	5600 5500 5200	8450 7950 7500	8550 8450 8000	108°	297°	311°	268°	278°	187°	190°	.430"	.437"	.731"	.699"	.774"	.742"	See Below
CUSTOM GROUND	00003	All CID	Special order camshaft ground to your specifications Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND	00050	All CID	Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND	00060	All CID	Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration. Call our technical support staff for personalized camshaft assistance.																	
CUSTOM GROUND ROLLER	00100R	All CID	Custom ground roller, using a 8620 steel core, ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.																	

*Indicates the above cams come in Standard 18° head and block. Special bearing sizes are available as custom grinds.

Note: These cams use .012" intake, .018" exhaust valve lash.

The above cores are 8620 steel billet. Small base circle cams available for 383 and 406. Specify "S" after part number when ordering. Use bronze distributor gear.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84427	66290-16	68795-16	86780-16	86072-16	.100"+ long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ long valve. Limited street. Super 7° retainers

AVAILABLE CAM JOURNAL SIZES

Description	Size
Stock Small Block Chevrolet	1.868"
Stock Block with Roller Bearings	1.875"
Stock Rocket Block or Stock Big Block Chevrolet	1.948"
Stock Rocket Block with Roller Bearings (50mm)	1.968"
55mm	2.165"

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.



230 SERIES ROLLER TAPPET HIGH RATIO SERIES

Mechanical Roller 1957 - 1998

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

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range			Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.8 / 1.7		Gross Lift 1.9 / 1.8		Suitable Component Kit
			Low RPM	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
Pro Series track racing, heavy car, high rocker ratio.	00520*	307-327	3800	5300	8000	108°	285°	294°	252°	260°	162°	167°	.380"	.374"	.684"	.635"	.722"	.673"	See Below
		305-350	3500	5000	7800														
		383-406	3200	4700	7600														
Pro Series track racing high rocker ratio.	00521*	307-327	4000	5500	8200	108°	289°	299°	256°	265°	166°	172°	.388"	.383"	.698"	.651"	.737"	.689"	See Below
		305-350	3600	5100	8000														
		383-406	3200	4700	7800														
Pro Series track racing high rocker ratio.	00522*	307-327	4100	5600	8300	108°	293°	304°	260°	270°	170°	177°	.397"	.393"	.714"	.668"	.754"	.707"	See Below
		305-350	3800	5300	8100														
		383-406	3400	4900	7900														
Pro Series track racing high rocker ratio.	00524*	307-327	4300	5800	8500	108°	297°	310°	264°	276°	175°	183°	.406"	.406"	.731"	.690"	.771"	.730"	See Below
		305-350	4000	5500	8300														
		383-406	3500	5000	8100														
Pro Series track racing high rocker ratio.	00526*	307-327	4500	6000	8800	108°	305°	313°	272°	279°	183°	188°	.424"	.412"	.763"	.721"	-	-	See Below
		305-350	4200	5700	8600														
		383-406	3800	5300	8400														
Pro Series track racing high rocker ratio.	00528*	307-327	4500	6000	8800	108°	315°	323°	282°	291°	194°	199°	.445"	.428"	.801"	.727"	-	-	See Below
		305-350	4200	5700	8600														
		383-406	3800	5300	8400														
CUSTOM GROUND	00003		Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.																
CUSTOM GROUND	00050		Custom order steel billet roller with a cast iron gear. Call our technical support staff for personalized camshaft assistance.																
CUSTOM GROUND	00060		Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration. Call our technical support staff for personalized camshaft assistance.																
CUSTOM GROUND ROLLER	00100R		Custom ground roller, using a cast steel core, ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc.																

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

*Indicates the above cams come in Standard 18° head and block. Special bearing sizes are available as custom grinds.

The above cores are 8620 steel billet. Small base circle cams available for 383 and 406. Specify "S" after part number when ordering. Use bronze distributor gear.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84427	66290-16	68795-16	86780-16	86072-16	.100"+ Long valve. High RPM
84439	66290-16	68806-16	86780-16*	86072-16	.100"+ Long valve. Limited street. Super 7° retainers

AVAILABLE CAM JOURNAL SIZES

Description	
Stock Small Block Chevrolet	1.868"
Stock Block with Roller Bearings	1.875"
Stock Rocket Block or Stock Big Block Chevrolet	1.948"
Stock Rocket Block with Roller Bearings (50mm)	1.968"
55mm	2.165"

**Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.**

BEAST HYDRAULIC FLAT TAPPET

Chevrolet

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration Intake Exhaust	Duration @ .050" Intake Exhaust	Gross Lift 1.7 / 1.7 Intake Exhaust	Suitable Component Kit
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.	01903	396 454	282H	112°	282° 292°	204° 214°	.478" .503"	840015
BAJA BEAST / Performance Level 3 Low to mid-range torque for daily drivability. Economical price. RPM Power Range: 1500 to 4500 / Redline: 5500 Plus.	01915	396 454	268H	112°	268° 274°	210° 216°	.478" .481"	840015
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.	01904	396 454	292H	112°	292° 302°	214° 224°	.503" .529"	840015 or 84103
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.	01101	396 454	278H	112°	278° 284°	220° 228°	.515" .530"	84103
CUSTOM GROUND 4/7 Swap Firing Order Special 4-7 switch firing order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00047B	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND Pro 55 Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	Refer to www.crower.com for camshaft recommendation					
CUSTOM GROUND Custom ground hydraulic flat tappet using the standard core. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00101H	ALL CID	Refer to www.crower.com for camshaft recommendation					

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
840015	66000-16	68302X2-16	87063-16		For rpm up to 6000 max. Daily street use
84103	66000-16	68340-16	87063-16	86071-16	For rpm over 6500 max.
84103RM3	66000RM3-16	68340-16	87063-16	86071-16	Rev-Max Lifter. For rpm over 6500 max.

Beehive Springs Available, ask Crower for details

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:

68302X2-16 Seat: 1.850" @ 107 lbs / Nose: 1.350" @ 280 lbs / Coil bind: 1.250" (Machine work required).

68340-16 Seat: 1.900" @ 118 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).

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

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.



Crower Recommends ZDDPlus for all Flat Tappet Cams

ZDDPlus™ contains 42,700 ppm of phosphorus and 57,300 ppm of zinc. When a 4-ounce bottle of ZDDPlus™ is added to 5 quarts of oil, it is diluted 41:1, which contributes 1047 ppm of phosphorus and 1397 ppm of zinc to whatever the oil may or may not already contain. **Part #86092 - 4oz Bottle of ZDDPlus & Paste**



HYDRAULIC FLAT TAPPET

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

X-TREME MILEAGE CAMS AVAILABLE!

CONTACT CROWER TECHNICIANS FOR MORE INFO.

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
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.	01240 MTO	402 427	270HDP	112°	270°	272°	210°	216°	.493"	.508"	84001S
	01241	454 CID	276HDP	112°	276°	278°	214°	218°	.518"	.520"	84001S
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.	01241	396 CID	276HDP	112°	276°	278°	214°	218°	.518"	.520"	84001S
	01242	402 427	280HDP	112°	280°	286°	218°	226°	.522"	.527"	84001S
	01243	454 CID	284HDP	112°	284°	290°	224°	232°	.542"	.517"	84001S 84103
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.	01243	396 CID	284HDP	112°	284°	290°	224°	232°	.542"	.517"	84103
	01244	402 427	290HDP	112°	290°	298°	232°	244°	.562"	.571"	84103
	01245	454 CID	311HDP	112°	311°	316°	246°	250°	.578"	.593"	84103
CUSTOM GROUND 4/7 Swap Firing Order Special 4-7 switch firing order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00047B	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND Pro 55 Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND Custom ground hydraulic flat tappet using the standard core. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00101H	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84001S	66000-16	68302X2-16	87063-16		For rpm up to 6000 max. Daily street use
84103	66000-16	68340-16	87063-16	86071-16	For rpm over 6500 max.
84103RM3	66000RM3-16	68340-16	87063-16	86071-16	Rev-Max Lifter. For rpm over 6500 max.

Beehive Springs Available, ask Crower for details

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

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:

68302X2-16 Seat: 1.850" @ 107 lbs / Nose: 1.350" @ 280 lbs / Coil bind: 1.250" (Machine work required).
68340-16 Seat: 1.900" @ 118 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

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

HYDRAULIC FLAT TAPPET



Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
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.	01205	396 427	280HDP	108°	280°	288°	220°	232°	.529"	.527"	84103
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.	01206	454 CID	290HDP	108°	290°	302°	232°	242°	.525"	.537"	84103
HI-DRAULIC HAULER / Performance Level 4 Explosive mid-range torque. RPM Power Range: 3000-3400 to 6500 / Redline: 6700 Plus.	01207	397 CID	296HDP	108°	296°	306°	238°	244°	.532"	.530"	84103
HI-DRAULIC HAULER / Performance Level 4 Explosive mid-range torque. RPM Power Range: 3000-3400 to 6600 / Redline: 6800 Plus.	01208 MTO	454 CID	306HDP	108°	306°	314°	246°	252°	.535"	.535"	84103
TURBOMASTER 1 This cam provides excellent low end and mid-range power with mild boost (6-12 lbs). RPM Power Range: 1800 to 5000/ Redline: 6000 Plus.	01978 MTO	396 427	278HT	114°	278°	260°	214°	200°	.493"	.456"	840015
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.	01979 MTO	454 CID	290HT	114°	290°	280°	226°	212°	.510"	.490"	84103
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.	01980 MTO	396 427	288HC	114°	288°	288°	228°	228°	.496"	.496"	84103
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.	01981	454 CID	304HC	114°	304°	304°	246°	246°	.536"	.536"	840015 or 84103
CUSTOM GROUND 4/7 Swap Firing Order Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00047B	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND Pro 55 Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND Custom ground hydraulic flat tappet using the standard core. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00101H	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84001S	66000-16	68302X2-16	87063-16		For rpm up to 6000 max. Daily street use
84103	66000-16	68340-16	87063-16	86071-16	For rpm over 6500 max.
84103RM3	66000RM3-16	68340-16	87063-16	86071-16	Rev-Max Lifter. For rpm over 6500 max.

Beehive Springs Available, ask Crower for details

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:

68302X2-16 Seat: 1.850" @ 107 lbs / Nose: 1.350" @ 280 lbs / Coil bind: 1.250" (Machine work required).

68340-16 Seat: 1.900" @ 118 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).

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

Your RPM range will vary depending on your Cylinder Head Air Flow Data & Cubic Inches.

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.



390 SERIES HYDRAULIC FLAT TAPPET

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

X-TREME MILEAGE CAMS AVAILABLE!

CONTACT CROWER TECHNICIANS FOR MORE INFO.

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range			Lobe Sep.	Advertised Duration @ .006"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.7 / 1.7		Suitable Component Kit
			Low RPM	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
PERFORMANCE LEVEL 2 Good performance street camshaft with bottom end power.	01292 MTO	396	2200	5400	5900	112°	272°	286°	214°	225°	119°	133°	.285"	.303"	.485"	.515"	See Below
		427	2100	5300	5800												
		454	1900	5000	5500												
		502	1850	4650	5150												
PERFORMANCE LEVEL 2 Works well in big cubic inch engines. Mild performance and towing.	01293 MTO	396	2300	5500	6000	112°	278°	294°	221°	233°	129°	142°	.297"	.315"	.505"	.536"	See Below
		427	2200	5400	5900												
		454	2000	5100	5600												
		502	1900	4700	5200												
PERFORMANCE LEVEL 3 Fair idle, excellent mid-range horsepower. Moderate performance.	01294	396	2400	5600	6100	112°	286°	294°	225°	233°	133°	142°	.303"	.315"	.515"	.536"	See Below
		427	2300	5600	6000												
		454	2100	5200	5700												
		502	2000	4900	5400												
PERFORMANCE LEVEL 3 Fair idle, excellent mid-range horsepower. Moderate performance	01296	396	2600	5800	6300	110°	294°	304°	233°	240°	142°	150°	.315"	.327"	.535"	.557"	See Below
		427	2600	5700	6200												
		454	2400	5500	6000												
		502	2400	5100	5600												
PERFORMANCE LEVEL 4 Rough idle, brutal mid-range torque and horsepower. Modifications required.	01297	396	2700	5900	6400	108°	304°	311°	240°	248°	150°	158°	.327"	.340"	.557"	.578"	See Below
		427	2650	5850	6350												
		454	2500	5600	6100												
		502	2500	5200	5700												
PERFORMANCE LEVEL 4 Rough idle, brutal mid-range torque and horsepower. Modifications required.	01298 MTO	396	3000	6000	6550	108°	311°	312°	248°	256°	158°	163°	.340"	.360"	.578"	.612"	See Below
		427	2900	5900	6400												
		454	2800	5800	6300												
		502	2800	5500	6000												
CUSTOM GROUND 4/7 Swap Firing Order Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00047B		Refer to www.crower.com for camshaft recommendation														
CUSTOM GROUND Pro 55 Special order camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057		Refer to www.crower.com for camshaft recommendation														
CUSTOM GROUND Custom ground hydraulic flat tappet using the standard core. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00101H		Refer to www.crower.com for camshaft recommendation														

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

Part numbers no longer listed may be available as custom grinds.

Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ENGINEERED COMPONENT KITS *Select kit to match your rpm range

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84001S	66000-16	68302X2-16	87063-16		For rpm up to 6000 max. Daily street use
84103	66000-16	68340-16	87063-16	86071-16	For rpm over 6500 max.
84103RM3	66000RM3-16	68340-16	87063-16	86071-16	Rev-Max Lifter. For rpm over 6500 max.

**Beehive Springs Available,
ask Crower for details**

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:

68302X2-16 Seat: 1.850" @ 107 lbs / Nose: 1.350" @ 280 lbs / Coil bind: 1.250" (Machine work required).

68340-16 Seat: 1.900" @ 118 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).

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

Your RPM range will vary depending on your
Cylinder Head Air Flow Data & Cubic Inches.



HYDRAULIC ROLLER TAPPET



Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Duration @ .200"		Gross Lift 1.7 / 1.7		Suitable Component Kit
			Low RPM	Peak Torque	Peak HP	Top RPM			Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
bottom and mid torque, daily driver, nitrous, blower.	01401	396	2250	3450	5000	5500	213HR222	112°	276°	282°	213°	222°	120°	128°	.512"	.540"	84551 or 84551LM
	Early model	402	2250	3450	5000	5500											
	01401LM	427	2150	3345	4900	5400											
	LM is step nose	454	1950	3145	4700	5200											
		502	1850	3045	4600	5100											
Broad power band, excellent hot street. Needs converter.	01402	396	2500	3700	5300	5800	222HR229	110°	278°	286°	222°	229°	128°	137°	.540"	.563"	84551 or 84551LM
	Early model	402	2500	3700	5300	5800											
	01402LM	427	2400	3600	5200	5700											
	LM is step nose	454	2300	3400	5000	5500											
		502	2200	3300	4900	5400											
Bracket special, mid to top range power. Excellent in 454 & 502.	01403	396	2750	3950	5550	6050	229HR237	110°	287°	296°	229°	237°	137°	145°	.563"	.586"	84551 or 84551LM
	Early model	402	2750	3950	5550	6050											
	01403LM	427	2650	3850	5450	5950											
	LM is step nose	454	2450	3650	5250	5750											
		502	2330	3520	5100	5650											
Performance Level 3 Fair idle, excellent mid-range horsepower. Moderate performance.	01404	396	3050	4200	5750	6300	236HR245	110°	292°	303°	236°	245°	145°	154°	.586"	.612"	84551 or 84551LM
Early model	402	3050	4200	5750	6300												
01404LM	427	3000	4100	5700	6200												
LM is step nose	454	2750	3900	5500	5950												
	502	2700	3700	5400	5800												
Performance Level 4 Rough idle, brutal mid-range torque and horsepower. Modifications required.	01405	396	3300	4450	6050	6500	245HR253	110°	303°	311°	245°	253°	154°	162°	.612"	.636"	84551 or 84551LM
Early model	402	3300	4450	6050	6500												
01405LM	427	3200	4350	5900	6450												
LM is step nose	454	3000	4150	5650	6200												
	502	2900	4000	5525	6100												
Performance Level 4 Rough idle, explosive mid-range to top end horsepower. Modifications required.	01406 *	396	3570	4700	6100	6500	253HR260	110°	309°	318°	253°	260°	162°	171°	.636"	.659"	84551 or 84551LM
Early model	402	3570	4700	6100	6000												
01406LM	427	3450	4570	6000	6500												
LM is step nose	454	3240	4390	5780	6300												
	502	3120	4270	5675	6170												
CUSTOM GROUND Special order hydraulic roller lifter cam ground to your specs on cast steel cam core using stock cast iron distributor gear.	00003	ALL CID	Refer to www.crower.com for camshaft recommendation														
CUSTOM GROUND Custom order steel billet roller camshaft.Call our technical support staff for personalized camshaft assistance.	00051	ALL CID	Refer to www.crower.com for camshaft recommendation														
CUSTOM GROUND Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration ground to your specifications.	00060	ALL CID	Refer to www.crower.com for camshaft recommendation														
CUSTOM GROUND Custom ground hydraulic roller using a cast steel core. Call our technical support staff for personalized camshaft assistance.	00101HR	ALL CID	Refer to www.crower.com for camshaft recommendation														

Note: The above cams are ground on cast steel cores. Crower recommends using the factory stock melanite or bronze 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).

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Plug	Pushrods	Remarks
84551	66321LM-16	68340-16	87063M-16	86086	Custom	For 9.800" deck.
84551H	66321H-16	68340-16	87063M-16	86086	Push Rods	HIPPO Lifter
84551LM	66331-16	68340-16	87063M-16		Available	For Late Model block.

**Beehive Springs Available,
ask Crower for details**

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

**Part numbers no longer listed may be
available as custom grinds.
Please contact Crower.**



ORIGINAL SERIES MECHANICAL FLAT TAPPET

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
PRO-STREET / Performance Level 3 High torque mid-range and top end grind. RPM Power Range: 2000 to 6500 / Redline: 7000 plus.	01320	396 427	282F	114°	282°	292°	238°	242°	.510"	.515"	84302
PRO-STREET / Performance Level 3 High torque mid-range and top end grind. RPM Power Range: 2000 to 6500 / Redline: 7000 plus.	01321	454 CID	294F	114°	294°	300°	244°	246°	.517"	.532"	84302
PRO-STREET / Performance Level 4 High revving, super mid to top end power. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.	01322	396 427	300F	114°	300°	310°	246°	254°	.530"	.558"	84302
PRO-STREET / Performance Level 4 High revving, super mid to top end power. RPM Power Range: 3000 to 7500 / Redline: 7750 plus.	01323	454 CID	310F	114°	310°	318°	252°	258°	.554"	.571"	84302
CUSTOM CAM Special order 4-7 switch firing order . Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047B	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND SOLID Pro 55 Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND SOLID Custom mechanical flat tappet using the standard core, ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00101M	ALL CID	<i>Refer to www.crower.com for camshaft recommendation</i>								
CUSTOM GROUND SOLID Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration. Call our technical support staff for personalized camshaft assistance.			<i>Refer to www.crower.com for camshaft recommendation</i>								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84302	66900-16	68340-16	87063M-16	86071-16	7000 plus rpm. Street applications.
84302X980	66900X980-16	68340-16	87063M-16	86071-16	7000 plus rpm. Street applications.
84302LW980	66900LW980-16	68340-16	87063M-16	86071-16	Light Weight Lifter

Beehive Springs Available, ask Crower for details

Spring pressure:

68340-16 Seat: 1.900" @ 119 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).

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 11/32 valve stem dia., must specify for different retainers/keepers.

To order the above cores specify #00060. 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.

AVAILABLE CAM JOURNAL SIZES

Description	Size
Stock Small Block Chevrolet	1.868"
Stock Block with Roller Bearings	1.875"
Stock Rocket Block or Stock Big Block Chevrolet	1.948"
Stock Rocket Block with Roller Bearings (50mm)	1.968"
55mm	2.165"

For The Best Overall Performance Gains Use The Cam Form, And Let Crower Make You A Custom Cam...

ORIGINAL SERIES MECHANICAL FLAT TAPPET

Chevrolet

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
COMPU-PRO / Performance Level 4-5 High torque, short oval track cam. RPM Power Range: 2500 to 6500 / Redline: 7000 plus.	01351	396 427	288FDP	107°	288°	292°	252°	262°	.601"	.620"	84302 or 84302X980
COMPU-PRO / Performance Level 4-5 Short oval grind with super torque. RPM Power Range: 3500 to 7500 / Redline: 8500 plus.	01352	396 427	298FDP	107°	298°	302°	258°	264°	.619"	.627"	84302X980
COMPU-PRO / Performance Level 4-5 Superb extended power band for fast 3/8 and 1/2 mile ovals. RPM Power Range: 4000 to 8000 / Redline: 8500 plus.	01353	454 CID	310FDP	107°	310°	316°	276°	282°	.653"	.661"	84302X980
COMPU-PRO / Performance Level 4-5 Upper mid-range and top end profile for added punch above 7000 rpm / RPM Power Range: 4500 to 8000 / Redline: 8500 plus.	01354	454 CID	320FDP	110°	320°	326°	284°	292°	.682"	.689"	84302X980
COMPU-PRO / Performance Level 4-5 Great high torque, good mid-range oval track grind. RPM Power Range: 3000 to 7000 / Redline: 8000 plus.	01355	454 502	292FDP	107°	292°	300°	254°	260°	.595"	.622"	84302X980
COMPU-PRO / Performance Level 4-5 Superior upper bottom, mid-range and top end power. RPM Power Range: 3750 to 7750 / Redline: 8500 plus.	01356	454 502	304FDP	107°	304°	310°	262°	266°	.626"	.634"	84302X980
CUSTOM CAM Special order 4-7 switch firing order. Call with all engine data including head flow data, valve sizes, operating power range, etc.	00047B	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND SOLID Pro 55 Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND SOLID Custom hydraulic flat tappet using the standard core ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00101M	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84302	66900-16	68340-16	87063M-16	86071-16	7000 plus rpm. Street applications.
84302X980	66900X980-16	68340-16	87063M-16	86071-16	7000 plus rpm. Street applications.
84302LW980	66900LW980-16	68340-16	87063M-16	86071-16	Light Weight Lifter

**Beehive Springs Available,
ask Crower for details**

Spring pressure:

68340-16 Seat: 1.900" @ 119 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080"
68385X2-16 Seat: 1.950" @ 144 lbs / Nose: 1.300" @ 422 lbs / Coil bind: 1.100"
(Machine work required).

AVAILABLE CAM JOURNAL SIZES

Description	Size
Stock Rocket Block or Stock Big Block Chevrolet	1.948"
Stock Rocket Block with Roller Bearings (50mm)	1.968"
55mm	2.165"

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 11/32 valve stem dia., must specify for different retainers/keepers.

To order the above cores specify #00060. 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.



220 SERIES (HIGH RPM) MECHANICAL FLAT TAPPET

Non Roller 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Lobe Sep.	Advertised		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.7 / 1.7		Gross Lift 1.8 / 1.7	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
Performance Level 3 Rough idle, torque, smooth pwerband. 3000 stall speed or 4 spd.	01330	396 427 454 502	108°	276°	285°	242°	251°	147°	156°	.335"	.345"	.570"	.587"	.603"	.587"
Performance Level 3 Early mid range power, great marine, bracket racing.	01332	396 427 454 502	108°	285°	296°	251°	261°	156°	165°	.345"	.356"	.587"	.605"	.621"	.605"
Performance Level 3 Increased mid range ear splitting, neck whipping power. High compression.	01334 MTO	396 427 454 502	108°	293°	303°	259°	269°	165°	173°	.356"	.365"	.605"	.621"	.640"	.621"
Performance Level 4 High torque drag, high rev, top end.	01336 MTO	396 427 454 502	110°	301°	308°	267°	276°	171°	179°	.360"	.372"	.612"	.632"	.648"	.632"
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	ALL CID	Refer to www.crower.com for camshaft recommendation												
CUSTOM GROUND SOLID Pro 55 Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00057	ALL CID	Refer to www.crower.com for camshaft recommendation												

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

Full ball nose, longer wearing pattern, more contact with the lifter.

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84302X980	66900X980-16	68340-16	87063M-16	86071-16	7000 plus rpm. Street applications.
84302LW980	66900LW980-16	68340-16	87063M-16	86071-16	Light Weight Lifter
84301X980	66900X980-16	68385X2-16	87053-16	86071-16	Race only.

**Beehive Springs Available,
ask Crower for details**

Spring pressure:

68340-16 Seat: 1.900" @ 119 lbs / Nose: 1.350" @ 359 lbs / Coil bind: 1.080" (Machine work required).
68385X2-16 Seat: 1.950" @ 144 lbs / Nose: 1.300" @ 422 lbs / Coil bind: 1.100" (Machine work required).

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.

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

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

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 1 1/32 valve stem dia., must specify for different retainers/keepers.



Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ORIGINAL SERIES MECHANICAL ROLLER TAPPET



Mechanical 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Advertised Duration		Duration @ .050"		Gross Lift 1.7 / 1.7		Suitable Component Kit
					Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
STREET ROLLER / Performance Level 4 Intended for performance oriented hot-street applications. RPM Power Range: 2500 to 6000 / Redline: 6750 plus.	01475	427 454	286R	112°	286°	290°	242°	250°	.581"	.573"	84511M
STREET ROLLER / Performance Level 4 Intended for performance oriented hot-street applications. RPM Power Range: 3000 to 7000 / Redline: 7000 plus.	01476	427 454	290R	112°	290°	296°	252°	254°	.585"	.578"	84511M
STREET ROLLER / Performance Level 4 Intended for performance oriented hot-street applications. RPM Power Range: 3200 to 7000 / Redline: 7250 plus.	01477	427 454	296R	112°	296°	300°	254°	260°	.580"	.587"	84511M
ULTRA-ACTION / Performance Level 5 Strong mid-range design for bracket and marine use.	01485	427 454	296R	107°	296°	302°	256°	266°	.641"	.636"	84511M
ULTRA-ACTION / Performance Level 5 Strong mid-range design for bracket and marine use. RPM Power Range: 3000 to 7000 / Redline: 7500 plus.	01486	427 454	290R	107°	290°	306°	260°	270°	.651"	.677"	84511M
ULTRA-ACTION / Performance Level 5 High torque and mid-range profile for bracket and marine applications. RPM Power Range: 4500 to 8000 / Redline: 8400 plus.	01487	427 454	306R	107°	306°	314°	270°	276°	.678"	.661"	84512S
ULTRA-ACTION / Performance Level 5 Fast 3/8 and 1/2 mile oval track grind. RPM Power Range: 4800 to 8300 / Redline: 8700 plus.	01488 MTO	427 454	309R	108°	309°	316°	276°	280°	.728"	.716"	84512S
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.	01489	427 454	318R	108°	318°	326°	284°	288°	.758"	.745"	84512S
ULTRA-ACTION / Performance Level 5 Super competition profile. RPM Power Range: Varies on valve train, heads, manifold, etc...	01490 MTO	427 454	321R	110°	321°	330°	288°	290°	.777"	.731"	CALL CROWER
ULTRA-ACTION / Performance Level 5 Super competition profile. RPM Power Range: Varies on valve train, heads, manifold, etc...	01491	427 454	328R	110°	328°	336°	286°	292°	.801"	.780"	CALL CROWER
ULTRA-ACTION / Performance Level 5 A very radical profile for competition use only. RPM Power Range: Varies on valve train, heads, manifold, etc...	01492	427 454	336R	112°	336°	340°	294°	300°	.779"	.717"	CALL CROWER
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00003	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND ROLLER Custom order steel billet roller camshaft ground to your specifications. Available in 50, 55, 60mm & standard bearing sizes. Also available in a lightweight design, gun drilled core for racing purposes only.	00051	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND ROLLER Special order camshaft using a custom core with LS firing order (4-7-3-2) or any special configuration ground to your specifications.	00060	ALL CID	Refer to www.crower.com for camshaft recommendation								
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00101R	ALL CID	Refer to www.crower.com for camshaft recommendation								

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

The above cores are 8620 steel billet.
Use bronze distributor gear.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Keepers	Plug	Remarks
84511M	66291-16	68804H-16	87055-16	86071-16	86111-16	86086	RPM up to 7500 max
84516T	66291-16	68860-16	86068-16			86086	
84517T	66291-16	68806-16	86068-16			86086	

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

Spring pressure:

68365-16 Seat: 1.925" @ 259 lbs / Nose: 1.300" @ 654 lbs / Coil bind: 1.230"
68804H-16 Seat: 1.950" @ 235 lbs / Nose: 1.250" @ 582 lbs / Coil bind: 1.100" (1.550" O.D.)
(Machine work required).

Optional springs: 68803H-16, 68806-16, 68547-16, 68548-16

CROWER recommends using HIPPO or Enduramax roller lifters in high RPM and high spring pressure applications.

Note: If exceeding 8000 rpm, high pressure springs and titanium retainers may be required. Contact Crower.

Note: Special cam cores available for Torrington bearing applications.

Note: Rocker arms available in Billet Steel or Stainless. (see page 134-146)



For technical support call 619-661-6477 or visit www.crower.com



230 SERIES (HIGH RPM) MECHANICAL ROLLER TAPPET

Mechanical 1965-1996

366 396 402 427 454 502 & Rodeck V8 Big Block

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	RPM Range				Lobe Sep.	Advertised Duration @ .020"		Duration @ .050"		Duration @ .200"		Lobe Lift		Gross Lift 1.7 / 1.7		Gross Lift 1.8 / 1.7	
			Low RPM	Peak Torque	Peak HP	Top RPM		Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
Performance Level 5 RPM Power Range: Varies on valve train, heads, manifold, etc... *	01521	396 427 454 502	3300 3100 2800 2550	4800 4600 4300 4050	7000 6800 6500 6000	7500+ 7300+ 7000+ 6500+	110°	295°	307°	262°	273°	173°	181°	.402"	.402"	.683"	.683"	.723"	.683"
Performance Level 5 RPM Power Range: Varies on valve train, heads, manifold, etc... *	01522	396 427 454 502	3300 3100 2800 2550	4800 4600 4300 4050	7000 6800 6500 6000	7500+ 7300+ 7000+ 6500+	110°	301°	313°	268°	279°	179°	188°	.415"	.412"	.706"	.700"	.747"	.700"
Performance Level 5 RPM Power Range: Varies on valve train, heads, manifold, etc... *	01523	396 427 454 502	3800 3600 3300 3100	5300 5100 4800 4600	7400 7200 6900 6400	7900+ 7700+ 7400+ 6900+	110°	311°	321°	278°	287°	190°	195°	.437"	.428"	.743"	.728"	.786"	.728"
Performance Level 5 RPM Power Range: Varies on valve train, heads, manifold, etc... *	01524 MTO	396 427 454 502	3950 3750 3450 3400	5450 5250 4950 4900	7600 7400 7100 6600	8100+ 7900+ 7600+ 7100+	112°	315°	323°	280°	289°	194°	199°	.445"	.421"	.757"	.716"	.801"	.716"
CUSTOM GROUND ROLLER Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00003	All CID	Refer to www.crower.com for camshaft recommendation																
CUSTOM GROUND ROLLER Custom order steel billet roller camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00051	All CID	Refer to www.crower.com for camshaft recommendation																
CUSTOM GROUND ROLLER Special order camshaft using a custom core or 4-7-3-2 firing order or any special configuration ground to your specifications.	00060	All CID	Refer to www.crower.com for camshaft recommendation																
CUSTOM GROUND ROLLER Custom ground roller, using a 8620 steel billet core, to your specifications. Call our technical support staff for personalized camshaft assistance.	00101R	All CID	Refer to www.crower.com for camshaft recommendation																

*Please provide cylinder head flow numbers for accurate RPM Power Range

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

The above cores are 8620 steel billet. Use bronze distributor gear.

ENGINEERED COMPONENT KITS **Select kit to match your rpm range*

Part No.	Lifters	Springs	Retainers	Thrust Plug	Remarks
84517S	66291-16	68806-16	86780-16	86086	Requires Super 7° keepers.
84517T	66291-16	68806-16	86068-16	86086	10 Degree Retainer kit
84516S	66291-16	68860-16	86780-16	86086	For rpm up to 8000 max. Requires Super 7° keepers.
84516T	66291-16	68860-16	86068-16	86086	10 Degree Retainer kit
84505	66291-16	68547-16	86069-16	86086	Triple springs 8000 rpm plus

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.

Spring pressure:

68806-16 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

AVAILABLE CAM JOURNAL SIZES

Description	Size
Pro Stock Roller Bearings / Babbit Bearing	2.124"
Large Roller Bearing	2.166"
Pro Stock Oversize	66mm

Note: "MTO" denotes that this item is not usually stocked but is Made To Order in 2-3 days.

ACCESSORIES

Description	See Page (s)
Rocker Arms	Pg's.134-146

Note: Rocker arms available in Steel Billet or Stainless.

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. 66291H-16**

Shaft Rockers are available. Refer to the new section in Valve Train area. (See Page 164)