

1964 - 1998

199 232 234 (Requires kit for 5/16" valves) 242 (4.0L) 258 (4.2L) 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.	Dura	rtised ation Exhaust	@.(ation 050" Exhaust	1.6	ss Lift /1.6 Exhaust	Suitable Component Kit
BAJA BEAST / Performance Level 1 Better than stock cam, big mid-range power. RPM Power Range: 700 to 3800	44902	ALL CID	238HDP	112°	238°	246°	194°	202°	.432"	.453"	84047 or 84042
BAJA BEAST / Performance Level 2 Strong upper bottom/top end power. RPM Power Range: 1800 to 4250 / Redline: 5000 plus	44915	ALL CID	280HDP	112°	280°	280°	208°	208°	.448"	.448"	84047 or 84042
POWER COMPU-PRO / Performance Level 1 Enhances Mileage and torque in stock engines. RPM Power Range: Idle to 3500 / Redline: 4000 plus	44242 MTO	ALL CID	242HDP	110°	242°	250°	184°	192°	.411"	.413"	84047
POWER COMPU-PRO / Performance Level 2 Perfect combination power/mileage with extended rpm's. RPM Power Range: 1500 to 4000 / Redline: 4250 plus	44243	ALL CID	256HDP	112°	256°	264°	194°	204°	.437"	.445"	84047
ULTRA PERFORMANCE COMPU-PRO / Performance Level 3 Street/strip cam. Super top end power. RPM Power Range: 2000 to 5000 / Redline: 5500 plus	44245	ALL CID	278HDP	112°	278°	284°	212°	218°	.462"	.475"	84047 or 84042
Performance Level 4 Impressive horsepower increase with little low end loss. Don't let the lower duration numbers fool you. Nice idle sound. RPM Power Range: 2000 to 5000 / Redline: 5500 plus	44246	ALL CID	266HDP	110°	266°	270°	218°	222°	.490″	.501"	84047 or 84042
Performance Level 4 Impressive horsepower increase with little low end loss. Don't let the lower duration numbers fool you. Nice idle sound. RPM Power Range: 2000 to 5000 / Redline: 5500 plus	44247	ALL CID	274HDP	114°	274°	278°	222°	230°	.518"	.526"	84047 or 84042
Performance Level 4 Impressive horsepower increase with little low end loss. Don't let the lower duration numbers fool you. Nice idle sound. RPM Power Range: 2000 to 5000 / Redline: 5500 plus	44248	ALL CID	278HDP	112°	278°	283°	226°	236°	.518"	.526"	84047 or 84042
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.	00144H	ALL CID	- Refer to www.crower.com for camshart								
lota: There came use 200" intake and exhaust valve lash										/O!! I	

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

Note: 2000 and up with electric fuel pump require a different cam core. Please specify when ordering

1989 - Later 199 - 258 Use a 3/8" valve stem size

MECHANICALEVATTARRET

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.	Dur	rtised ation Exhaust	@.(1.6	ss Lift / 1.6 Exhaust	Suitable Component Kit
PRO-STREET / Performance Level 3 Strong upper bottom to mid-range power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus.	44311	ALL CID	282FDP	112°	282°	287°	238°	242°	.480"	.486"	84247
PRO-STREET / Performance Level 4 Exhibits strong mid-range to top end performance. RPM Power Range: 2000 to 6000 / Redline: 7000 Plus.	44312	ALL CID	292FDP	110°	292°	298°	248°	250°	.499"	.512"	84247
CUSTOM GROUND HYDRAULIC Special order solid lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.					herer to www.crower.com for camsnart						

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

Note: 2000 and up with electric fuel pump require a different cam core Please specify when ordering

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84047	66031-12	68313-12	87050-12	Hydraulic Lifter. For rpm Up to 6000. 11/32" valve
840421	66031-12	68404-12	87044-12	Hydraulic Lifter. 1989-up 5/16" valve, includes #86106B Keeper.
84247	66945-12	68390X3-12	87050-12	Solid Lifter. For rpm over to 7000. 11/32" valve. Race Only

Lifters in Component Kit are available with COOLFACE & CAMSAVER options

Spring pressure:

68313-12 Seat: 1.850" @ 104 lbs / Nose: 1.360" @ 254 lbs / Coil bind: 1.085"

(Stock O.D., no machine work). 68390X3-12 Seat: 1.800" @ 115 lbs / Nose: 1.300" @ 331 lbs / Coil bind: 1.110" (Machine work).

68404-12 Seat: 1.600" @ 110 lbs / Nose: 1.100" @ 287 lbs / Coil bind: .880" * Machine work required, specify 3⁄8 pilot shaft when ordering.

¹ Machine work required

Optional Lifters:

66031RM3-12 - High-Lube CamSaver hydraulic lifters **66945X980-12** - Coolface solids

Note: Longer pushrods may be required to achieve proper hydraulic lifter preload (.050" off snap-ring). Use checking pushrod.

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



HYDRAULICGLATTAPPET



1966-1991

290 304 343 360 (5.9L) 390 401 V8

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Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.		ertised ation Exhaust		ation 050" Exhaust	1.6	ss Lift / 1.6 Exhaust	Suitable Component Kit
BAJA BEAST / PERFORMANCE LEVEL 1 Excellent low end and mid-range power. RPM Power Range: 1500 to 4000 / Redline: 5000 Plus.	45915	290 304 343	258HDP	112°	258°	264°	204°	210°	.445"	.448"	84045 Upgrade 84045X3
POWER COMPU-PRO / Performance Level 2 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: 1700 to 4500 / Redline: 5500 Plus.	45240 мто	290 304 343	270HDP	112°	270°	276°	210°	220°	.450"	.475"	84045 Upgrade 84045X3
POWER COMPU-PRO / Performance Level 2 Broadest power range we've ever had for these engines. Previously only available as custom order, now available. Use Camsaver lifters. RPM Power Range: 1500 to 4800 / Redline: 5500 Plus.	45249 мто	290 304 343	276HDP	112°	262°	266°	214°	218°	.480"	.490"	84045 Upgrade 84045X3
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. 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: 1800 to 5000 / Redline: 6000 Plus.		290 304 343	293HDP	114°	293°	293°	223°	223°	.477"	.477"	84145 Upgrade 84145X3
		390 401	284HDP	112°	284°	290°	228°	234°	.512"	.525"	84145 Upgrade 84145X3
HIGH PERFORMANCE COMPU-PRO / Performance Level 4 Intended for the performance oriented hot-street application, these cams offer an extended rpm range with emphasis on upper bottom to top end power. 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: 1800 to 5000 / Redline: 6000 Plus.	45247	390 401	305HDP	112°	305°	315°	234°	244°	.520"	.542"	84145 Upgrade 84145X3
HI-DRAULIC HAULER / Performance Level 4 Strong mid to top end torque. Rough Idle. RPM Power Range: 2500 to 6000 / Redline: 6500 Plus.	45210 мто	390 401	290HDP	108°	290°	298°	226°	236°	.498"	.496"	84145 Upgrade 84145X3
CUSTOM GROUND HYDRAULIC Special order hydraulic lifter camshaft ground to your specifications. Call with all engine data incl. head flow data, valve sizes, operating power range, etc when ordering.	O0145H ALL CID Refer to www.crower.com for camshaft recommendation					shaft					

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

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84045	66031-16	68313-16	87049- 16 ^A	Hydraulic Lifter.
84045X3	66031X3-16	68313-16	87049- 16 ^A	CamSaver Hydraulic Lifter.
84145	66031-16	68390X3-16	87049- 16	Dual Spring
84145X3	66031X3-16	68390X3-16	87049- 16	Dual W/CamSaver Lifter

Spring pressure:

68313-16 Seat: 1.750" @ 95 lbs / Nose: 1.250" @ 267 lbs / Coil bind: 1.030" 68390X3-16 Seat: 1.800" @ 116 lbs / Nose: 1.250" @ 284 lbs / Coil bind: 1.030" (Stock O.D., no machine work).

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

A. Some 1973-74 engines were equipped with 11/32 exhaust valves and rotators. Order 87049-8 and 87050-8 steel retainers, and 86071-8 and 86072-8 valve stem seals.

Note: If exceeding 7500 rpm, high pressure springs and titanium retainers may be required. See spring and retainer specs or contact Crower for proper recommendations.

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

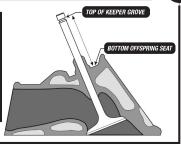
SEE THE FOLLOWING PAGE FOR SPECS ON ACCESSORIES

Note: "MTO" denotes that this item is not usually stocked but is

Diagram 1. Calculating Installed Spring Height

Measure the height from top of keeper grove 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

Made To Order in 2-3 days.



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.

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



^{*} Machine work required, specify 3/8 pilot shaft when ordering.



MECHANICAL FLAT TAPPET

1966-1991

290 304 343 360 (5.9L) 390 401 V8

Description (Note: See pages 6-7 for a detailed explanation of each Performance Level)	Part Number	C.I.D. Group	Grind	Lobe Sep.	Dur	rtised ation Exhaust	@.(ation 050" Exhausi	1.6	ss Lift /1.6 Exhaust	Suitab l e Component Kit
COMPU-PRO / Performance Level 4 High torque, all purpose camshaft with emphasis on mid-range power. RPM Power Range: 2500 to 6000 / Redline: 7000 plus.	45315	360 401	282FDP	108°	282°	287°	240°	242°	.478"	.486"	84345 Upgrade 84345X980
COMPU-PRO / Performance Level 4 High torque, all purpose camshaft with emphasis on mid to top end power. RPM Power Range: 3000 to 6500 / Redline: 7500 Plus.	45316 мто	360 401	292FDP	108°	292°	298°	246°	250°	.499"	.509"	84345 Upgrade 84345X980
COMPU-PRO / Performance Level 5 Does it all. Brutal power throughout the power range. RPM Power Range: 3500 to 7500 / Redline: 8000 Plus.	45317	290 343	304FDP	108°	304°	310°	258°	262°	.534"		84345 Upgrade 84345X980
CUSTOM GROUND SOLID Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	00145M	45M 360 Refer to www.crower.com for camshaft recommendation				shaft					

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

Roller cam available, please call Crower with your head flow numbers & application for a custom grind.

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84345	66945-16	68390X3-16 ^A	87049- 16 ^A	86071-16	Solid Lifter . For high rpm. Limited street use.
84345X980	66945X980-16	68390X3-16 ^A	87049- 16 ^A	86071-16	CoolFace Solid Lifter . For high rpm. Limited street use.

Spring pressure:

68390X3-16 Seat: 1.800" @ 115 lbs / Nose: 1.300" @ 331 lbs / Coil bind: 1.110" (Machine work).

A. Some 1973-74 engines were equipped with 11/32 exhaust valves and rotators. Order 87049-8 and 87050-8 steel retainers, and 86071-8 and 86072-8 valve stem seals.

* Machine work required, specify 3/8 pilot shaft when ordering.

Note: If exceeding 7500 rpm, high pressure springs and titanium retainers may be required. See spring and retainer specs or contact Crower for proper recommendations.

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

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

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

Note: If using guide plates, heat-treated pushrods (RC 60 series) are required. See pushrods or contact Crower.

Note: When installing solid or roller lifter camshafts, screw-in rocker studs are required. Contact Crower.

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



