



HYDRAULIC & SOLID CAMSHAFTS

Non Roller 1978-1986

196 (3.2L) 231 (3.8L) 252 (4.1L) V6 Evenfire

HYDRAULIC CAMSHAFTS

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

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				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	All cid	54242	242HDP 110°	242°	250°	180°	190°	.413"	.413"
MILEAGE BEAST / PERFORMANCE LEVEL 2 - Perfect combination mileage/power with extended rpm range. RPM Power Range: 1500 to 4000 / Redline: 5500 plus	All cid	54902	272HDP 114°	272°	280°	194°	204°	.424"	.450"
BAJA BEAST / PERFORMANCE LEVEL 3 - Good hot street cam with emphasis on upper bottom to top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus	All cid	54915	280HDP 112°	280°	290°	204°	214°	.450"	.474"
ULTRA PERFORMANCE COMPU-PRO / PERFORMANCE LEVEL 4 - Street/strip cam with strong mid to top end torque and horsepower. RPM Power Range: 2000 to 6000 / Redline: 6500	All cid	54245	278HDP 112°	278°	284°	212°	218°	.462"	.478"
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.	All cid	00001	<i>Refer to page 7 for camshaft recommendation form</i>						

Note: Early 198-225 cid 1962-1967 cam cores are available from Crower. Specify when ordering.

Engineered Component Kit for the above part #'s: 84053

SOLID CAMSHAFTS

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

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
COMPU-PRO / PERFORMANCE LEVEL 3 - Extended rpm range with emphasis on upper bottom to top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus.	All cid	54310	282FDP 107°	282°	287°	238°	242°	.483"	.486"
COMPU-PRO / PERFORMANCE LEVEL 4 - Hot street/strip profile. Strong mid to top end torque and horsepower. RPM Power Range: 2200 to 6000 / Redline: 7000 plus.	All cid	54311	292FDP 108°	292°	298°	244°	248°	.501"	.514"
CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call with all engine data including head flow data, valve sizes, operating power range, etc when ordering.	All cid	00000	<i>Refer to page 7 for camshaft recommendation form</i>						

Note: Custom ground turbocharged/supercharged camshafts are available from Crower on a special order basis.

Engineered Component Kit for the above part #'s: 84253

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84053	66050-12	68301X1-12	86032-12	Hydraulic Lifter.
84253	66900-12	68301X1-12	86032-12	Solid Lifter.

Spring pressure:

68301X1-12 Seat: 1.700" @ 101 lbs / Nose: 1.250" @ 274 lbs / Coil bind: 1.130" (Stock O.D., no machine work).

Note: If exceeding 6500 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/valvtime.html

ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods

Note: Crower has an extensive inventory of Buick V6 cam profiles and roller lifters that were designed for the Buick V6 Indy turbo engines.

HYDRAULIC & SOLID CAMSHAFTS

Non Roller
215 300 340 V8



HYDRAULIC CAMSHAFTS

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

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

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
MILEAGE COMPU-PRO / PERFORMANCE LEVEL 1 - Enhances throttle response and low end torque while delivering fuel efficient drivability. RPM Power Range: Idle to 3500 / Redline: 4500 plus	300 cid	50227	246HDP 112°	246°	253°	184°	190°	.402"	.421"
	340 cid	50228	250HDP 112°	250°	258°	192°	196°	.424"	.430"
POWER COMPU-PRO / PERFORMANCE LEVEL 2 - Perfect combination of power and mileage with extended rpm range. Strong low end and mid-range power for spirited driving on or off the road. RPM Power Range: 1500 to 4000 / Redline: 5500 plus	300 cid	50229	258HDP 112°	258°	260°	196°	202°	.430"	.446"
	340 cid	50230	260HDP 112°	260°	266°	202°	210°	.446"	.451"
HIGH PERFORMANCE COMPU-PRO / PERFORMANCE LEVEL 3 - These cams offer extended rpm range with emphasis on upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus	300 cid	50231	270HDP 112°	270°	276°	210°	218°	.451"	.477"
	340 cid	50232	276HDP 112°	276°	281°	214°	218°	.488"	.490"
ULTRA PERFORMANCE COMPU-PRO / PERFORMANCE LEVEL 4 - These cams exhibit strong mid-range and top end torque and horsepower. RPM Power Range: 2000 to 6000 / Redline: 6500	300 cid	50233	280HDP 112°	280°	286°	220°	226°	.488"	.501"
	340 cid	50234	284HDP 112°	284°	290°	228°	234°	.512"	.526"
CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00001		Refer to page 7 for camshaft recommendation form					

SOLID CAMSHAFTS

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

Engineered Component Kit for the above part #'s: 84150

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
COMPU-PRO / Performance Level 3 - Strong mid to top end torque and horsepower. RPM Power Range: 2000 to 5500 / Redline: 7000 plus.	300 cid	50303	282FDP 108°	282°	287°	238°	242°	.482"	.488"
COMPU-PRO / Performance Level 3 - Strong mid-range and top end power. RPM Power Range: 2500 to 6000 / Redline: 7500 plus.	340 cid	50304	292FDP 108°	292°	298°	246°	250°	.502"	.514"
COMPU-PRO / Performance Level 4 - Tremendous upper mid to top end torque and horsepower. RPM Power Range: 3000 to 6500 / Redline: 7500 plus.	340 cid	50305	304FDP 108°	304°	310°	256°	262°	.536"	.549"
CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00000		Refer to page 7 for camshaft recommendation form					
CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00006		Refer to page 7 for camshaft recommendation form					

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84150	66050-16	68405-16	87021-16	86072-16	Hydraulic Lifter.
84350	66900-16	68405-16	87021-16	86072-16	Solid Lifter.

ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods

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

Engineered Component Kit for the above part #'s: 84350

Spring pressure:
68405-16 Seat: 1.700" @ 104 lbs / Nose: 1.200" @ 297 lbs / Coil bind: 0.980"
(Machine work, use cutter 68983*).
* Machine work required, specify 3/8 pilot shaft when ordering.
Valve timing events are available online at:
www.crower.com/valvtime.html



HYDRAULIC & SOLID CAMSHAFTS

Non Roller 1968-1980

BUICK 350 V8

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

HYDRAULIC CAMSHAFTS

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

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.55 / 1.55	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
MILEAGE COMPU-PRO / Performance Level 1 - Enhances throttle response. Low end torque and fuel efficiency. RPM Power Range: Idle to 3500 / Redline: 4500 plus	350 cid	50256	250HDP 112°	250°	258°	192°	196°	.411"	.419"
POWER COMPU-PRO / Performance Level 2 - Power and mileage cam with extended rpm for spirited motoring. RPM Power Range: 1500 to 4000 / Redline: 5500 plus	350 cid	50257	260HDP 112°	260°	266°	202°	210°	.434"	.436"
HIGH PERFORMANCE COMPU-PRO / Performance Level 3 - Strong upper bottom to top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus	350 cid	50258	276HDP 112°	276°	281°	210°	220°	.446"	.468"
ULTRA PERFORMANCE COMPU-PRO / Performance Level 4 - Street/strip profile with superior upper bottom to top end torque. RPM Power Range: 2000 to 6000 / Redline: 6500	350 cid	50259	284HDP 112°	284°	290°	226°	234°	.499"	.508"
HI-DRAULIC HAULER / Performance Level 4 - Rough idle. Strong mid to top end torque and horsepower. RPM Power Range: 2500 to 6000 / Redline: 6500	350 cid	50260	296HDP 108°	296°	302°	228°	242°	.485"	.512"
HI-DRAULIC HAULER / Performance Level 5 - Rough idle. Explosive mid-range torque and horsepower. RPM Power Range: 3000 to 6500 / Redline: 6500	350 cid	50261	304HDP 108°	304°	312°	240°	246°	.516"	.544"
CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00001	<i>Refer to page 7 for camshaft recommendation form</i>						

Engineered Component Kit for the above part #'s: 84150

SOLID CAMSHAFTS

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

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.55 / 1.55	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
COMPU-PRO / Performance Level 4 - High torque, all purpose cam profile. RPM Power Range: 2500 to 6500 / Redline: 7000 plus.	350 cid	50353	282FDP 108°	282°	287°	238°	242°	.467"	.471"
COMPU-PRO / Performance Level 5 - Explosive power throughout the power band. RPM Power Range: 3000 to 7000 / Redline: 7250 plus.	350 cid	50354	292FDP 108°	292°	298°	246°	250°	.485"	.498"
COMPU-PRO / Performance Level 5 - Superior mid-range and top end torque. RPM Power Range: 3500 to 7500 / Redline: 7750 plus.	350 cid	50355	304FDP 108°	304°	310°	256°	262°	.519"	.532"
CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00000	<i>Refer to page 7 for camshaft recommendation form</i>						
CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00006	<i>Refer to page 7 for camshaft recommendation form</i>						

Engineered Component Kit for the above part #'s: 84350. For

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84150	66050-16	68405-16	87021-16	86072-16	Hydraulic Lifter.
84350	66900-16	68405-16	87021-16	86072-16	Solid Lifter.

Spring pressure:
68405-16 Seat: 1.700" @ 104 lbs / Nose: 1.200" @ 297 lbs / Coil bind:
0.980" (Machine work, use cutter 68983*).

* Machine work required, specify 3/8 pilot shaft when ordering.
Valve timing events are available online at: www.crower.com/valvtime.html

ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods

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

HYDRAULIC CAMSHAFTS

Non Roller 1967-1976

400 430 455 V8

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

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

1957-66 Bucik V8 364 401 425 (Nail Head) hydraulic & solid cams available. Call Crower

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
MILEAGE COMPU-PRO / Performance Level 1 - Enhances throttle response and low end torque while delivering fuel efficient drivability. RPM Power Range: Idle to 3500 / Redline: 4500 plus	400	52236	258HDP 112°	258°	260°	196°	202°	.430"	.446"
	430			260°	266°	204°	210°	.448"	.446"
POWER COMPU-PRO / Performance Level 2 - Perfect combination of power and mileage with extended rpm range. Strong low end and mid-range power for spirited driving on or off the road. RPM Power Range: 1500 to 4000 / Redline: 5500 plus	400	52238	270HDP 112°	270°	276°	210°	214°	.464"	.488"
	430			276°	281°	212°	216°	.475"	.487"
HIGH PERFORMANCE COMPU-PRO / Performance Level 3 - Intended for the hot street application, these cams offer extended rpm range with emphasis on upper bottom and top end power. RPM Power Range: 1800 to 4500 / Redline: 6000 plus	400	52240	280HDP 112°	280°	286°	222°	228°	.488"	.499"
	430			286°	290°	230°	236°	.514"	.525"
ULTRA PERFORMANCE COMPU-PRO / Performance Level 4 - Dual purpose hot street/drag strip profile. These cams exhibit strong mid-range and top end torque and horsepower. RPM Power Range: 2000 to 5000 / Redline: 6500	400	52242	297HDP 112°	297°	308°	238°	242°	.538"	.536"
	430			308°	316°	248°	252°	.546"	.559"
HI-DRAULIC HAULER / Performance Level 4 - Strong mid-range to top end torque. RPM Power Range: 2500 to 6000 / Redline: 6250 plus	400	52210	296HDP 108°	296°	302°	232°	244°	.507"	.526"
	430			302°	312°	242°	248°	.531"	.560"
HI-DRAULIC HAULER / Performance Level 4 - Strong mid-range to top end power. RPM Power Range: 2750 to 6250 / Redline: 6500	455 cid	52211	304HDP 108°	304°	312°	242°	248°	.531"	.560"
CUSTOM GROUND HYDRAULIC - Special order hydraulic lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00001		<i>Refer to page 7 for camshaft recommendation form</i>					

Engineered Component Kit for the above part #'s: 84052

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84054	66050-16	68143-16	87019-16	For rpm up to

Spring pressure:

Seat: 1.850" @ 92 lbs / Nose: 1.350" @ 300 lbs / Coil bind: 1.260" (Stock O.D., no machine work).

Note: When using high lift cams (over .480") or modified valve stem lengths, a longer pushrod is required to achieve proper lifter preload (.050" off snap-ring). Use checking pushrod to determine length and call with specs.

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

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

ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods

SOLID CAMSHAFTS

Non Roller 1967-1976

400 430 455 V8

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

1957-66 Buick V8 364 401 425 (Nail Head) hydraulic & solid cams available. Call Crower

Description (Note: See pages 8-9 for a detailed explanation of each Performance Level)	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.6 / 1.6	
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust
COMPU-PRO / Performance Level 4 - High torque, all purpose profile. RPM Power Range: 2500 to 6000 / Redline: 6500 plus.	All cid	52310	282FDP 108°	282°	287°	238°	242°	.482"	.488"
COMPU-PRO / Performance Level 5 - Explosive horsepower throughout the power band. RPM Power Range: 3000 to 6500 / Redline: 7000 plus.	All cid	52311	292FDP 108°	292°	298°	246°	250°	.499"	.509"
COMPU-PRO / Performance Level 5 - Superior mid-range and top end torque. RPM Power Range: 3500 to 7000 / Redline: 7000 plus.	All cid	52312	304FDP 108°	304°	310°	258°	262°	.533"	.549"
CUSTOM GROUND SOLID - Special order solid lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00000	<i>Refer to page 7 for camshaft recommendation form</i>						

Engineered Component Kit for the above part #'s: 84252

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Remarks
84254	66900-16	68143-16	87019-16	For rpm up to

Spring pressure:

Seat: 1.850" @ 92 lbs / Nose: 1.350" @ 300 lbs / Coil bind: 1.260"

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

Note: If exceeding 7000 rpm, high pressure springs and titanium retainers may be required. See spring and retainer specs or contact Crower for proper recommendations.

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

Valve timing events are available online at:

www.crower.com/valvtime.html

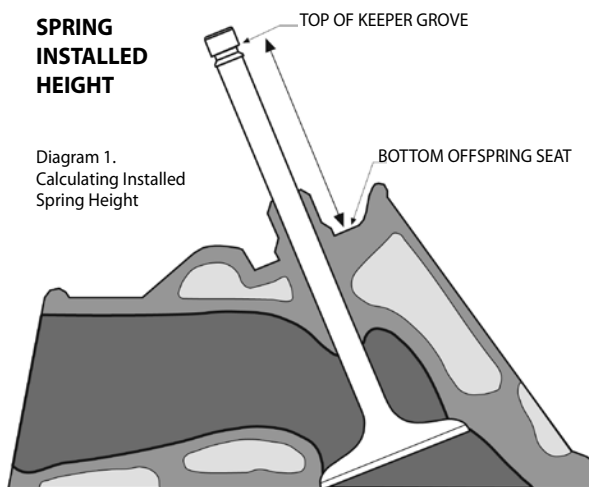
ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods

Note: Solid lifter camshafts require adjustable pushrods. See pushrods or contact Crower.

SPRING INSTALLED HEIGHT

Diagram 1. Calculating Installed Spring Height



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