

HYDRAULIC CAMSHAFTS

Non Roller 1955-1981

287 301 316 341 350 370 389 400 421 455 V8

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

X-TREME MILEAGE CAMS AVAILABLE!

CONTACT CROWER TECHNICIANS FOR MORE INFO.

Description	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Rec Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
MILEAGE BEAST / PERFORMANCE LEVEL 1 - Exhibits broad stump pulling power and torque. RPM Power Range: 1200 to 3800 / Redline: 5200 plus.	265 287	60917	278H 112°	278°	288°	204°	214°	.422"	.444"	84160
BAJA BEAST / PERFORMANCE LEVEL 2 - Low to mid-range torque for daily drivability. Economical price. RPM Power Range: 1500 to 4250 / Redline: 5500 plus.	301 350	60915	272H 112°	272°	279°	211°	220°	.422"	.443"	84160
TORQUE BEAST / PERFORMANCE LEVEL 3 - Delivers impressive mid-range and top end power. Healthy sound. Economical price. RPM Power Range: 1750 to 4500 / Redline: 5750 plus.	370 421	60918	288H 112°	288°	298°	214°	224°	.444"	.467"	84160
POWER BEAST / PERFORMANCE LEVEL 4 - Upper mid-range to top end power. Emphasis on top end. RPM Power Range: 2000 to 4800 / Redline: 6200 plus.	421 455	60916	278H 112°	278°	289°	221°	229°	.455"	.470"	84160
ULTRA BEAST / PERFORMANCE LEVEL 4 - Hot street profile that delivers impressive mid-range and top end power. RPM Power Range: 2000 to 4800 / Redline: 6200 plus.	428 455	60919	304H 112°	304°	316°	231°	240°	.470"	.470"	84160
POWER COMPU-PRO / Performance Level 2 - These cams provide excellent low end and mid-range power and extended rpm range for spirited street and offroad 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.	370 421	60240	270HDP 112°	270°	276°	210°	221°	.422"	.446"	84160
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.	265 287	60240	270HDP 112°	270°	276°	210°	221°	.422"	.446"	84160
	301 350	60242	280HDP 112°	280°	286°	221°	229°	.456"	.468"	84160
	428 455	60243	284HDP 112°	284°	290°	228°	235°	.479"	.494"	84160

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84160	66056-16	68404-16	87048D-16	86072-16	Hydraulic Lifter. Up to 6500 plus rpm.
84360	66962-16 ^A	68405-16	87048D-16	86072-16	Solid Lifter. Up to 7000 plus rpm.

Spring pressure:

68404-16 Seat: 1.600" @ 116 lbs / Nose: 1.100" @ 302 lbs / Coil bind: 0.910" (Stock O.D., no machine work).

68405-16 Seat: 1.700" @ 110 lbs / Nose: 1.100" @ 338 lbs / Coil bind: 0.980" (Stock O.D., no machine work).

A. Lifter 66962-16 is a special high oil band tappet with high pushrod seat. It is not a Chevrolet solid lifter.

Note: Non-adjustable pushrods can be used if you have proper lifter preload (.050" off snap-ring). Custom length pushrods are available from Crower to achieve proper lifter preload. Customer must furnish accurate pushrod length.

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

Note: The above kit will not work if using Pontiac heads with 1.65:1 rocker ratio (springs are too short). Contact Crower for special spring and retainer combination. See diagram 2.

Note: For proper valve adjustment on solid lifter profiles, Crower "Sure-Lock" rocker nuts (86053) must be used.

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
See pg. 138	Timing gear set
Pg's. 150-165	Rocker arms (1.6) 38
Pg's. 150-165	Rocker arms (1.6) 7/16

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

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

Note: If making valve train adjustable with rockers, screw-in studs and guide plates are required. Call Crower for details.

HYDRAULIC CAMSHAFTS (continued)

Non Roller 1955-1981

287 301 316 341 350 370 389 400 421 455 V8

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

X-TREME MILEAGE CAMS AVAILABLE!

CONTACT CROWER TECHNICIANS FOR MORE INFO.

Description	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Rec Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
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	265 287	60242	280HDP 112°	280°	286°	221°	229°	.456"	.468"	84160
	301 350	60243	284HDP 112°	284°	290°	228°	235°	.479"	.494"	84160
	370 421	60244	297HDP 112°	297°	308°	239°	241°	.500"	.500"	84160
HI-DRAULIC HAULER / PERFORMANCE LEVEL 3 - Lope at idle. Hot street/strip cam with strong mid-range power. RPM Power Range: 2500 to 6500	389 400	60210	278HDP 108°	278°	288°	229°	239°	.480"	.501"	84160
HI-DRAULIC HAULER / PERFORMANCE LEVEL 4 - Rough idle. Explosive mid-range power and torque. RPM Power Range: 3000 to 6500 plus.	389 400	60211	296HDP 108°	296°	308°	236°	242°	.509"	.516"	84160
HI-DRAULIC HAULER / PERFORMANCE LEVEL 4 - Rough idle. Violent mid-range acceleration. RPM Power Range: 3250 to 6500	428 455	60212	304HDP 108°	304°	312°	239°	247°	.497"	.522"	84160
HI-DRAULIC HAULER / PERFORMANCE LEVEL 4 - Brutal mid to top end torque and horsepower. RPM Power Range: 3500 to 6500	428 455	60213	308HDP 108°	308°	314°	248°	256°	.518"	.537"	84160
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>							

SOLID CAMSHAFTS

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

Description	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Rec Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
PRO-STREET / PERFORMANCE LEVEL 3 - High revving, super mid to top end power grind. RPM Power Range: 2800 to 6000 plus.	389 455	60310	284FDP 112°	284°	288°	240°	248°	.477"	.501"	84360
PRO-STREET / PERFORMANCE LEVEL 4 - Super upper mid-range and top end power profile. RPM Power Range: 3000 to 6500 plus.	389 455	60311	292FDP 112°	292°	302°	247°	252°	.505"	.517"	84360
COMPU-PRO / PERFORMANCE LEVEL 4 - High revving, superior upper bottom profile with emphasis on mid to top end power. RPM Power Range: 4500 to 7500 plus.	389 455	60353	304FDP 108°	304°	312°	255°	262°	.527"	.546"	84360
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>							

For Engineered Component Kit & Accessories, refer to page 126 for specs or contact CROWER for more Info.

ROLLER CAMSHAFTS

Mechanical 1955-1981

287 301 316 341 350 370 389 400 421 455 V8

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

Description	C.I.D. Group	Part Number	Grind Lobe Center	Advertised Duration		Duration @ .050"		Gross Lift 1.5 / 1.5		Rec Kit
				Intake	Exhaust	Intake	Exhaust	Intake	Exhaust	
ULTRA-ACTION / PERFORMANCE LEVEL 5 - All range camshaft for heavy car, high stall with compression and headers. RPM Power Range: 3000 to 6500 plus.	389 455	60450	275R 112°	275°	284°	233°	242°	.495"	.496"	84568
ULTRA-ACTION / PERFORMANCE LEVEL 5 - Radical mid-range cam, shifts at 6500 rpm with a redline of 7000. RPM Power Range: 4000 to 7000 max.	389 455	60451	284R 108°	284°	294°	247°	254°	.582"	.567"	Call Crower
ULTRA-ACTION / PERFORMANCE LEVEL 5 - Large cid camshaft (455 cid or bigger). Smashing mid-range power hit and top end performer. RPM Power Range: 4500 to 7250 plus.	389 455	60452	294R 108°	294°	298°	257°	263°	.649"	.636"	Call Crower
CUSTOM GROUND ROLLER - Special order roller lifter camshaft ground to your specifications. Call our technical support staff for personalized camshaft assistance.	All cid	00002	<i>Refer to page 7 for camshaft recommendation form</i>						Call Crower	

ENGINEERED COMPONENT KITS

Part No.	Lifters	Springs	Retainers	Seals	Remarks
84160	66056-16	68404-16	87048D-16	86072-16	For rpm up to 6500 plus.
84360	66962-16 ^A	68405-16	87048D-16	86072-16	Solid Lifter. For rpm up to 7000 plus.
84568	66260-16	68380X2-16	87048D-16	86072-16	Roller Lifter. For rpm up to 7500 plus.

Spring pressure:

68404-16 Seat: 1.600" @ 116 lbs / Nose: 1.100" @ 302 lbs / Coil bind: 0.910" (Stock O.D., no machine work).

68405-16 Seat: 1.700" @ 110 lbs / Nose: 1.100" @ 338 lbs / Coil bind: 0.980" (Stock O.D., no machine work).

68380X2-16 Seat: 1.800" @ 197 lbs / Nose: 1.250" @ 446 lbs / Coil bind: 1.110"

A. Lifter 66962-16 is a special high oil band tappet with high pushrod seat. It is not a Chevrolet solid lifter.

Note: Non-adjustable pushrods can be used if you have proper lifter preload (.050" off snap-ring). Custom length pushrods are available from Crower to achieve proper lifter preload. Customer must furnish accurate pushrod length.

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

Note: The above kit will not work if using Pontiac heads with 1.65:1 rocker ratio (springs are too short). Contact Crower for special spring and retainer combination. See diagram 2.

Note: For proper valve adjustment on solid lifter profiles, Crower "Sure-Lock" rocker nuts (86053) must be used.

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

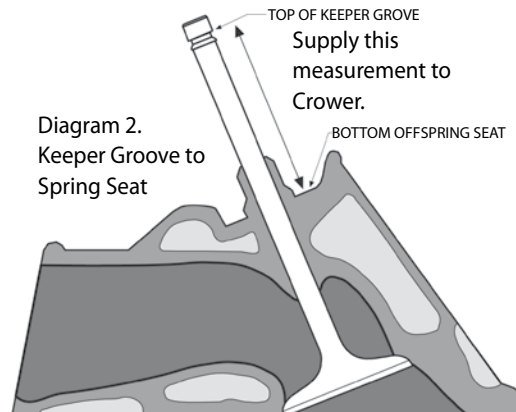
ACCESSORIES

Part No.	Description
See pg. 180	Spring seat cutter
Pg's. 146-149	Pushrods
See pg. 138	Timing gear set
Pg's. 150-165	Rocker arms (1.6) 3/8
Pg's. 150-165	Rocker arms (1.6) 7/16

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

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

Note: If making valve train adjustable with rockers, screw-in studs and guide plates are required. Call Crower for details.



Accurately measure the distance from the top of keeper groove to bottom of spring seat (see arrows indicating measurement in diagram 2).

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.