



THUMPR™ CAMS

+ COMPONENTS



www.compcams.com

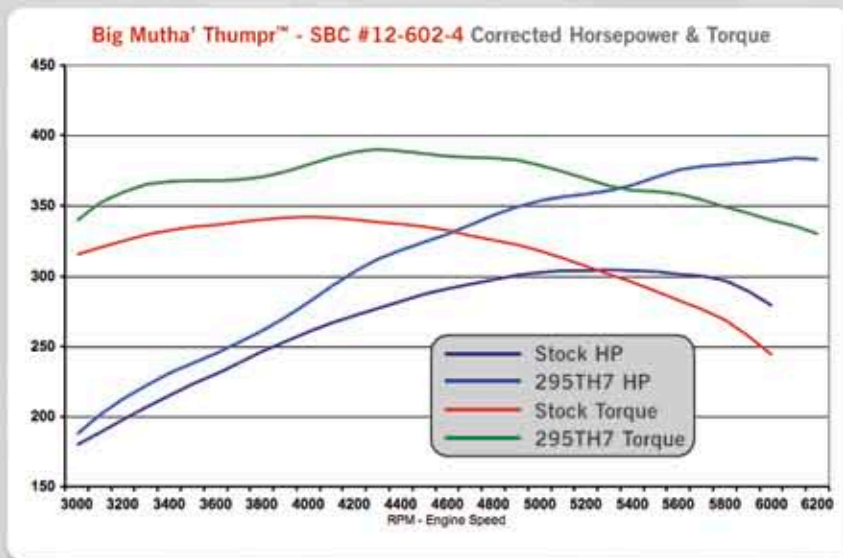
THUMPR™ CAMS



Thumpr™ Cams Deliver Incredible Muscle Car Sound And A New Level Of Streetable Performance

Muscle car sound is back and nastier than ever. Thumpr™ Cams deliver incredible exhaust lope and impressive performance. Let's face it, few things serve to grab our attention more than a car with a thumping, high performance idle. Although the cam design gurus at COMP Cams® designed the Thumpr™ series of camshafts to deliver the meanest-sounding idle on the block, they weren't about to skimp in the horsepower department in order to make it happen! Even the mildest Thumpr™ Cam profile produced significant horsepower and torque increases when put to the test in the COMP Performance Group™ research and development center. So rest assured that all of the muscle car attitude that your Thumpr™ equipped ride will be sporting is going to be backed by the proven performance that you have

come to expect from the horsepower experts. The wildly popular Thumpr™ Cams are available in retro-fit hydraulic roller and hydraulic flat tappet versions, as well as hydraulic roller drop-in replacements. Featuring specially engineered profiles for each unique engine, these camshafts provide the perfect combination of an early intake valve opening, long exhaust duration and a generous amount of intake and exhaust overlap to maximize your engine's nasty-idling characteristics without negatively impacting streetability. Without question, Thumpr™ Cams are in a class by themselves when it comes to serious "seat of the pants" performance and aggressive idle. But don't take our word for it, log onto www.compcams.com/thumpr to hear them for yourself and view dyno testing results.



Test Parameters

Engine: 350cid, 290 hp GM Crate Engine
 Cylinder Heads: RHS® 180cc Runners, 64cc Chambers (Assem.) #12023-01
 Lifters: COMP Cams® High Energy™ Hyd. Flat Tappets #812-16
 Rocker Arms: COMP Cams® Magnum 1.52 Ratio #1412-16
 Manifold: Weiand Dual Plane
 Carb: 750 Holley HP (Thumpr™) 650 Holley HP (Stock Cam)
 Headers: 1 3/4" Hooker Headers
 Mufflers: Magnum Race Mufflers & 18" Extensions
 Ignition: Stock HEI Distributor

*Unless noted above, all components stock

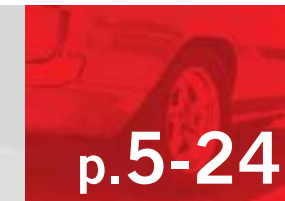
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Related Products



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Thumpr™ Camshafts Feature:

- Early intake opening with long exhaust duration and a generous amount of intake and exhaust overlap to create an aggressive, hard-hitting exhaust sound that delivers a bigger thump to the exhaust note
- 3 unique cam designs for each application: Thumpr™, Mutha Thumpr™, Big Mutha Thumpr™
- Impressive gains in horsepower and a broad torque curve, making this camshaft series ideal for performance street rods and muscle cars that crave a deep, throaty idle and rev
- Compatible designs for use with the latest in valve train component advancements such as Beehive™ Valve Springs, Ultra Pro Magnum™ Roller Rockers and Magnum Pushrods

As Seen In:



“ I used your Big Mutha' Thumpr Cam in a customer's 1969 Camaro street/show car. It made 572 hp on pump gas in a 383 stroker!

Everywhere he goes people ask what cam he's running and compliment the aggressive idle. ”

- Joe Sherman, Joe Sherman Racing



Hear The Thumpr™ Cams For Yourself @ compcams.com/thumpr

Q: WHAT IS A THUMPR™ CAM?

A: The Thumpr™ Cams provide the perfect combination of an early intake valve opening, long exhaust duration and a generous amount of intake and exhaust overlap to maximize your engine's nasty idling characteristics without negatively impacting streetability. They will provide a rough, racy exhaust note, along with impressive horsepower and torque.

Q: WHAT APPLICATIONS ARE THUMPR™ CAMS AVAILABLE FOR?

A: Thumpr™ Cams are available in retro-fit hydraulic roller and hydraulic flat tappet versions for carbureted Small and Big Block Chevys, various Small and Big Block Fords, Small and Big Block Chryslers, including the 392 and 426 Hemis, Oldsmobile and Pontiac engines. We also have Thumpr™ Hydraulic Roller Cams for Small Block Chevy and Big Block Gen VI factory roller blocks, GM LS engines and Ford Modular 3 Valve engines. We are also expanding the Thumpr™ series to cover some of the more classic applications, such as the Buick Nailhead, the Ford Y-Block, and many more.

Q: WHEN SHOULD I USE A THUMPR™ CAM?

A: Thumpr™ offers three unique grinds for each engine to fit all cruising and street performance needs. Each level of grind fits a more aggressive application with higher compression ratios, converter stall speeds and other upgrades such as gears, aftermarket intakes and headers. If you enjoy that old school, hot rodding sound with some excellent street/strip performance to match, the Thumpr™ line is for you.

Q: WHICH VALVE TRAIN COMPONENTS BEST COMPLEMENT A THUMPR™?

A: Our Thumpr™ line was Spintron® and dyno tested with the latest in valve train technology from COMP Cams®. Some complementary components include Beehive™ Valve Springs, Ultra Pro Magnum™ Roller Rockers and our Magnum™ Pushrods. Tested together and proven for maximum performance, these products will certainly get the most out of your new Thumpr™ camshaft. In addition, COMP Cams® offers system engineered GK-Kits that include the gear drive and lifters you need to have the most radical sounding performance valve train on the market!

Q: WILL THE THUMPR™ CAMS HAVE ENOUGH VACUUM PRESSURE FOR POWER BRAKES?

A: Thumpr™ Camshafts offer some vacuum pressure depending upon compression ratio. May require a vacuum canister (See listing on page 30).
Mutha' Thumpr™ vacuum pressures will be limited depending on compression of the motor and the vehicle's brake booster. This more aggressive camshaft will likely require the use of a vacuum canister.
Big Mutha' Thumpr™ Camshafts requires the use of a vacuum canister and potentially a vacuum pump (see listing on page 30) for specific part numbers.

COMP Cams® offers four levels of complete component-matched kits that deliver unbeatable performance, durability and ease of installation.

- K-Kit – Complete Kit
- GK-Kit – Gear Drive Kit
- CL-Kit – Cam and Lifter Kit
- RP-Kit – Rocker Arm Kit

All cam kits are fully tested and manufactured to the strictest standards. Beyond the performance benefits of these "Power Engineered Systems", they instill confidence in knowing that you are installing components that were designed specifically for your new performance camshaft.

Ordering is easy. Upon selecting the proper camshaft for your application, simply add the kit prefix ("K", "GK" or "CL") in front of your cam part number. For example, if you choose cam Part #12-600-4 and you want the complete kit, you should order Part #K12-600-4.

* Please note that not all kits are available for every part numbered camshaft. See the application charts on the following pages to determine which kits are available for your application.

K-Kit – Complete Kit Includes:

- Camshaft
- Valve Locks
- Assembly Lube
- Lifters
- Valve Stem Seals
- Decals
- Valve Springs
- Timing Chain Set
- Instructions
- Retainers



**Contents of kits may vary from application to application; components shown are typical examples. Ask for specific kit contents before ordering.

GK-Kit – Cam & Gear Drive Kit Includes:

- Camshaft
- Gear Drive
- Decals
- Lifters
- Assembly Lube
- Instructions



** GK-Kits are not available for hydraulic roller and hydraulic flat tappet Chrysler Thumpr™ Cams.

CL-Kit – Cam & Lifter Kit Includes:

- Camshaft
- Assembly Lube
- Instructions
- Lifters
- Decals



RP-Kit – Rocker Arm Kit Includes:

- Rocker Arms
- Pushrods



**Contents of kits may vary from application to application; components shown are typical examples. Ask for specific kit contents before ordering.

Don't see your question here?

Call our CAM HELP® line or email us at tech@compcams.com to speak with a COMP Cams® technician to answer any questions you may have.

CAMHELP®
800.999.0853

Learn. Share. Experience.

To stay informed about the newest COMP Cams® products, view install videos, read customer reviews and keep up with the latest news from the automotive industry, visit www.cpgnation.com.



Engine Break-In Oil & Break-In Oil Additive

- Improves surface mating in critical areas including: rotating assembly, rod journals, piston rings, valve guides, camshafts and lifters, etc.
- Protects all internal engine components, including flat tappet & roller valve trains
- Proprietary additive package includes optimum amounts of ZDDP (Zinc & Phosphorous), Molybdenum and detergents that reduce surface wear
- Fully compatible with gasoline, methanol and high octane race fuel

See page 29 for more details

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



AMERICAN MOTORS 290-401 C.I. 8 CYL. 1966-1991

HYDRAULIC FLAT TAPPET CAMSHAFTS

Premium choices are in RED

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	10-600-5	279TH7	279	296	227	241	.491	.476	107°	K10-600-5	NA	CL10-600-5¹	RPM1410-16 ²	822-16 867-16⁵	3118	1442-16 ^{2,3}	7694-16	986-16 ⁴	740-16	612-16	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	10-603-5	287TH7	287	304	235	249	.500	.486	107°	K10-603-5	NA	CL10-603-5¹	RPM1410-16 ²	822-16 867-16⁵	3118	1442-16 ^{2,3}	7694-16	986-16 ⁴	740-16	612-16	505-16 ⁴
Big Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2500 to 6400	10-604-5	295TH7	295	312	243	257	.512	.497	107°	K10-604-5	NA	CL10-604-5¹	RPM1410-16 ²	822-16 867-16⁵	3118	1442-16 ^{2,3}	7694-16	986-16 ⁴	740-16	612-16	505-16 ⁴

¹ Stock springs cannot be used. ² Requires screw-in studs & guide plates. ³ Requires .150" longer pushrod. ⁴ Requires machining on cylinder head. ⁵ Adjustable valve train required.

HYDRAULIC FLAT TAPPET CAMSHAFTS

AMERICAN MOTORS 290-401 C.I. 8 CYL. 1966-1991

CHRYSLER 273-360 C.I. 8 CYL. 1964-2003

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	20-600-4	279TH7	279	296	227	241	.486	.473	107°	K20-600-4	NA	CL20-600-4¹	822-16 867-16⁵	2103 3103	NA	1622-16 ¹⁴	7958-16	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16 ⁴⁵	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	20-601-4	287TH7	287	304	235	249	.497	.483	107°	K20-601-4	NA	CL20-601-4¹	822-16 867-16⁵	2103 3103	NA	1622-16 ¹⁴	7958-16	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16 ⁴⁵	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	20-602-4	295TH7	295	312	243	257	.507	.494	107°	K20-602-4	NA	CL20-602-4¹	822-16 867-16⁵	2103 3103	NA	1622-16 ¹⁴	7958-16	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16 ⁴⁵	505-16 ⁴

¹ Stock springs cannot be used. ¹⁴ Includes special shafts & spacers. ⁴⁵ Special 10° 4 groove lock. Single groove use Part #612-16. ⁴ Requires machining on cylinder head. ⁵ Adjustable valve train required.

HYDRAULIC FLAT TAPPET CAMSHAFTS

CHRYSLER 273-360 C.I. 8 CYL. 1964-2003

CHRYSLER 273-360 C.I. 8 CYL. 1964-2003

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	20-600-9	283THR7	283	303	227	241	.513	.498	107°	K20-600-9	NA	CL20-600-9¹	8920-16	2103 3103	NA	1622-16 ¹⁴ 1074-KIT¹⁴	NA	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	20-601-9	291THR7	291	311	235	249	.522	.509	107°	K20-601-9	NA	CL20-601-9¹	8920-16	2103 3103	NA	1622-16 ¹⁴ 1074-KIT¹⁴	NA	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	20-603-9	299THR7	299	319	243	257	.533	.519	107°	K20-603-9	NA	CL20-603-9¹	8920-16	2103 3103	NA	1622-16 ¹⁴ 1074-KIT¹⁴	NA	995-16 ⁴ 26995-16⁴	740-16 795-16	626-16	505-16 ⁴

¹ Stock springs cannot be used. ¹⁴ Includes special shafts & spacers. ⁴ Requires machining on cylinder heads.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

CHRYSLER 273-360 C.I. 8 CYL. 1964-2003

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



Premium choices are in RED

CHRYSLER 383-440 C.I. 8 CYL. 1959-1980

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	21-600-5¹⁵	279TH7	279	296	227	241	.486	.473	107°	K21-600-5	NA	CL21-600-5¹	NA	822-16 867-16 ⁵	2104 3104	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	911-16 925-16 ⁴	748-16 741-16	627-16 ¹⁶	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	21-601-5¹⁵	287TH7	287	304	235	249	.497	.483	107°	K21-601-5	NA	CL21-601-5¹	NA	822-16 867-16 ⁵	2104 3104	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	911-16 925-16 ⁴	748-16 741-16	627-16 ¹⁶	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	21-602-5¹⁵	295TH7	295	312	243	257	.507	.494	107°	K20-602-5	NA	CL21-602-5¹	NA	822-16 867-16 ⁵	2104 3104	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	911-16 925-16 ⁴	740-16 741-16	627-16 ¹⁶	505-16 ⁴

¹ Stock springs cannot be used. ¹⁴ Includes special shafts & spacers.
⁴ Requires machining on cylinder head. ¹⁵ 3-bolt core available. Change 1st 2 digits of part # to 23.
⁵ Adjustable valve train required. ¹⁶ 1/2 set 2 groove; 1/2 set 4 groove.

HYDRAULIC FLAT TAPPET CAMSHAFTS CHRYSLER 383-440 C.I. 8 CYL. 1959-1980

CHRYSLER 383-440 C.I. 8 CYL. 1959-1980

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	LIFTERS	TIMING SETS	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS	LASH CAPS	REV KITS	DIST. GEARS	STUD GIRDLES
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	23-600-9¹	283THR7	283	303	227	241	.513	.498	107°	8921-16	3125 3125KT	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	925-16 ⁴ 26120-16 ⁴	741-16 795-16	627-16 ¹⁶	505-16 ⁴	622-16	NA	NA	NA
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	23-601-9¹	291THR7	291	311	235	249	.522	.508	107°	8921-16	3125 3125KT	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	925-16 ⁴ 26120-16 ⁴	741-16 795-16	627-16 ¹⁶	505-16 ⁴	622-16	NA	NA	NA
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	23-602-9¹	299THR7	299	319	243	257	.532	.519	107°	8921-16	3125 3125KT	1621-16 ¹⁴ 1071-KIT ¹⁴	NA	925-16 ⁴ 26120-16 ⁴	741-16 795-16	627-16 ¹⁶	505-16 ⁴	622-16	NA	NA	NA

¹ Stock springs cannot be used. ¹⁴ Includes special shafts & spacers.
⁴ Requires machining on cylinder heads. ¹⁶ 1/2 set 2 groove; 1/2 set 4 groove.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS CHRYSLER 383-440 C.I. 8 CYL. 1959-1980

CHRYSLER 426 C.I. HEMI 8 CYL. 1966-1971

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	LIFTERS	TIMING SETS	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS	LASH CAPS	REV KITS	DIST. GEARS	STUD GIRDLES
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	24-600-5¹	279TH7	279	296	227	241	.508	.478	107°	824-16	3125 3125KT	NA	NA	924-16 ⁴ 26120-16 ⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	24-601-5¹	287TH7	287	304	235	249	.521	.489	107°	824-16	3125 3125KT	NA	NA	924-16 ⁴ 26120-16 ⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	24-602-5¹	295TH7	295	312	243	257	.532	.501	107°	824-16	3125 3125KT	NA	NA	924-16 ⁴ 26120-16 ⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA

¹ Stock springs cannot be used. ⁴ Requires machining on cylinder head.

HYDRAULIC FLAT TAPPET CAMSHAFTS CHRYSLER 426 C.I. HEMI 8 CYL. 1966-1971

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



Premium choices are in RED

CHRYSLER 426 C.I. HEMI 8 CYL. 1966-1971

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	LIFTERS	TIMING SETS	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS	LASH CAPS	REV KITS	DIST. GEARS	STUD GIRDLES
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	24-600-9^{1,36}	283THR7	283	303	227	241	.536	.504	107°	8921-16	3125 3125KT	NA	NA	925-16 ⁴ 26120-16⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	24-601-9^{1,36}	291THR7	291	311	235	249	.546	.515	107°	8921-16	3125 3125KT	NA	NA	925-16 ⁴ 26120-16⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	24-603-9^{1,36}	299THR7	299	319	243	257	.557	.525	107°	8921-16	3125 3125KT	NA	NA	925-16 ⁴ 26120-16⁴	741-16 795-16	610-16	500-16 ⁴	619-16	NA	424	NA

¹ Stock springs cannot be used. ³⁶ Requires distributor gear upgrade.
⁴ Requires machining on cylinder heads.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

CHRYSLER 426 C.I. HEMI 8 CYL. 1966-1971

FORD 221-302 C.I. 8 CYL. 1963-1995 (INCLUDES 221, 260, 289 & 302)

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	CL-KIT	RP-KIT	LIFTERS	DIST. GEAR	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	31-601-5	279TH7	279	296	227	241	.491	.476	107°	K31-601-5	CL31-601-5¹	RP1431-16^{17,18}	832-16 862-16⁵	35200 35100	3230 ¹⁹ 2120¹⁹	1431-16 ^{20,21} 1631-16²	7831-16 ¹⁷ 7631-16¹⁷	942-16 972-16	768-16 743-16	601-16	502-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	31-602-5	287TH7	287	304	235	249	.500	.486	107°	K31-602-5	CL31-602-5¹	RP1431-16^{17,18}	832-16 862-16⁵	35200 35100	3230 ¹⁹ 2120¹⁹	1431-16 ^{20,21} 1631-16²	7831-16 ¹⁷ 7631-16¹⁷	942-16 972-16	768-16 743-16	601-16	502-16
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	31-603-5	295TH7	295	312	243	257	.512	.497	107°	K31-603-5	CL31-603-5¹	RP1431-16^{17,18}	832-16 862-16⁵	35200 35100	3230 ¹⁹ 2120¹⁹	1431-16 ^{20,2} 1631-16²	7831-16 ¹⁷ 7631-16¹⁷	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ⁵ Adjustable valve train required. ¹⁹ Pre-1972 engines use Part #3220.
² Requires screw-in studs & guide plates. ¹⁷ 1962-69 use Part #7632-16. ²⁰ Part #4504 studs required for 1978-present
⁴ Requires machining on cylinder heads. ¹⁸ For 1.7:1 ratio use Part #RP1453-16. ²¹ If equipped with studs and guide plates, use Part #1442-16.

HYDRAULIC FLAT TAPPET CAMSHAFTS

FORD 221-302 C.I. 8 CYL. 1963-1995 (INCLUDES 221, 260, 289 & 302)

FORD 221-302 C.I. 8 CYL. 1963-1995 (INCLUDES 22, 260, 289 & 302)

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	CK-KIT	RP-KIT	LIFTERS	DIST. GEAR	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	31-600-8³⁷	283THR7	283	303	227	241	.531	.515	107°	K31-600-8	CL31-600-8¹	RPR1428-16²⁰	851-16 8931-16	35200 35100	2120 ¹⁹ 3120	1431-16 ^{20,21} 1631-16²	7819-16 7754-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	31-601-8³⁷	291THR7	291	311	235	249	.540	.526	107°	K31-601-8	CL31-601-8¹	RPR1428-16²⁰	851-16 8931-16	35200 35100	2120 ¹⁹ 3120	1431-16 ^{20,21} 1631-16²	7819-16 7754-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	31-602-8³⁷	299THR7	299	319	243	257	.552	.537	107°	K31-602-8	CL31-602-8¹	RPR1428-16²⁰	851-16 8931-16	35200 35100	2120 ¹⁹ 3120	1431-16 ^{20,21} 1631-16²	7819-16 7754-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ²⁰ Part #4504 studs required for 1978-present.
² Requires screw-in studs & guide plates. ²¹ If equipped with studs and guide plates, use Part #1442-16
⁴ Requires machining on cylinder heads. ³⁷ These cams can only be used in 289-302 engines. NOT 302 H.O. blocks due to base circle size.
¹⁹ Pre-1972 engines use Part #3220.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

FORD 221-302 C.I. 8 CYL. 1963-1995 (INCLUDES 22, 260, 289 & 302)

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



FORD 351W 8 CYL. 1969-1996

HYDRAULIC FLAT TAPPET CAMSHAFTS

Premium choices are in RED

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	35-600-4	279TH7	279	297	227	241	.490	.475	107°	K35-600-4	GK35-600-4^{1,7}	CL35-600-4¹	832-16 862-16⁵	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7472-16 7965-16	942-16 972-16	768-16 743-16	601-16	502-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	35-601-4	287TH7	287	304	235	249	.501	.486	107°	K35-601-4	GK35-601-4^{1,7}	CL35-601-4¹	832-16 862-16⁵	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7472-16 7965-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	35-602-4	295TH7	295	313	243	257	.512	.489	107°	K35-602-4	GK35-602-4^{1,7}	CL35-602-4¹	832-16 862-16⁵	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7472-16 7965-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used.

⁵ Adjustable valve train required.

²¹ If equipped with studs and guide plates, use Part #1442-16.

² Requires screw-in studs & guide plates.

⁷ GK-Kit contains cam, lifters and gear drive.

⁴ Requires machining on cylinder heads.

²⁰ Part #4504 studs required for 1978-present.

HYDRAULIC FLAT TAPPET CAMSHAFTS

FORD 351W 8 CYL. 1969-1996

FORD 351W 8 CYL. 1969-1996

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	35-600-8³⁸	283THR7	283	303	227	241	.531	.515	107°	K35-600-8	GK35-600-8^{1,7}	CL35-600-8¹	8931-16	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7643-16 7963-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	35-601-8³⁸	291THR7	291	311	235	249	.541	.526	107°	K35-601-8	GK35-601-8^{1,7}	CL35-600-8¹	8931-16	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7643-16 7963-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	35-602-8³⁸	299THR7	299	319	243	257	.552	.538	107°	K35-602-8	GK35-602-8^{1,7}	CL35-600-8¹	8931-16	2135 3135	4120	1431-16 ^{20,21} 1631-16²	7643-16 7963-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used.

²⁰ Part #4504 studs required for 1978-present.

² Requires screw-in studs & guide plates.

²¹ If equipped with studs and guide plates, use Part #1442-16.

⁴ Requires machining on cylinder heads.

³⁸ Must use #8931-16 lifters with this cam.

⁷ GK-Kit contains cam, lifters and gear drive.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

FORD 351W 8 CYL. 1969-1996

FORD 351C, 351M, 400M 8 CYL. 1970-1983

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	32-600-8	283THR7	283	303	227	241	.557	.539	107°	K32-600-8	NA	CL32-600-8¹	NA	851-16 ³⁹ 8931-16	2121 3121	1411-16 ² 1630-16²	7825-16 ⁴⁰ 7974-16	924-16 ⁴ 26120-16⁴	741-16 795-16	611-16 ⁴¹ 614-16⁴¹	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	32-601-8	291THR7	291	311	235	249	.567	.551	107°	K32-601-8	NA	CL32-601-8¹	NA	851-16 ³⁹ 8931-16	2121 3121	1411-16 ² 1630-16²	7825-16 ⁴⁰ 7974-16	924-16 ⁴ 26120-16⁴	741-16 795-16	611-16 ⁴¹ 614-16⁴¹	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	32-602-8	299THR7	299	319	243	257	.579	.563	107°	K32-602-8	NA	CL32-602-8¹	NA	851-16 ³⁹ 8931-16	2121 3121	1411-16 ² 1630-16²	7825-16 ⁴⁰ 7974-16	924-16 ⁴ 26120-16⁴	741-16 795-16	611-16 ⁴¹ 614-16⁴¹	503-16 ⁴

¹ Stock springs cannot be used.

³⁹ Requires lifter installation kit Part #31-1000 for retro-fit applications.

² Requires screw-in studs & guide plates.

⁴⁰ For 351M and 400M engines, use Part #7824-16 pushrods on retro-fit cams.

⁴ Requires machining on cylinder heads.

⁴¹ For engines with multi-groove valves, use Part #624-16 locks. CAN NOT be used with lash caps.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

FORD 351C, 351M, 400M 8 CYL. 1970-1983

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



FORD 351C, 351M, 400M 8 CYL. 1970-1983

HYDRAULIC FLAT TAPPET CAMSHAFTS

Premium choices are in RED

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	32-600-5	279TH7	278	296	226	241	.506	.493	107°	K32-600-5	NA	CL32-600-5¹	NA	832-16 862-16⁵	2121 3121	1411-16 ² 1630-16²	7502-16 ²² 7945-16	972-16 924-16⁴	747-16 741-16	611-16 ⁴¹	502-16 503-16⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	32-601-5	287TH7	286	304	234	249	.519	.503	107°	K32-601-5	NA	CL32-601-5¹	NA	832-16 862-16⁵	2121 3121	1411-16 ² 1630-16²	7502-16 ²² 7945-16	972-16 924-16⁴	747-16 741-16	611-16 ⁴¹	502-16 503-16⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle	Hyd.	Hyd.	2500 to 6400	32-602-5	295TH7	294	312	242	257	.531	.515	107°	K32-602-5	NA	CL32-602-5¹	NA	832-16 862-16⁵	2121 3121	1411-16 ² 1630-16²	7502-16 ²² 7945-16	924-16 ⁴ 26120-16⁴	741-16 795-16	611-16 ⁴¹ 614-16⁴¹	503-16 ⁴

¹ Stock springs cannot be used. ⁵ Adjustable valve train required.
² Requires screw-in studs & guide plates. ²² Fits only certain years.
⁴ Requires machining on cylinder heads. ⁴¹ For engines with multi-groove valves, use Part #624-16 locks. CAN NOT be used with lash caps.

HYDRAULIC FLAT TAPPET CAMSHAFTS

FORD 351C, 351M, 400M 8 CYL. 1970-1983

FORD 352-428 C.I. 8 CYL. 1963-1977

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	33-600-5	279TH7	278	296	226	241	.506	.493	107°	K33-600-5	NA	CL33-600-5¹	NA	834-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	7833-16 ²⁵ 7530-16	926-16 924-16⁴	747-16 741-16	612-16	504-16 505-16⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	33-601-5	287TH7	286	304	234	249	.519	.503	107°	K33-601-5	NA	CL33-601-5¹	NA	834-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	7833-16 ²⁵ 7530-16	926-16 924-16⁴	747-16 741-16	612-16	504-16 505-16⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	33-602-5	295TH7	294	312	242	257	.531	.515	107°	K33-602-5	NA	CL33-602-5¹	NA	834-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	7833-16 ²⁵ 7530-16	926-16 924-16⁴	747-16 741-16	612-16	504-16 505-16⁴

¹ Stock springs cannot be used. ²⁴ Includes special rockers & shafts Part #1047-2.
⁴ Requires machining on cylinder heads. ²⁵ Part #7833 only works with non-adjustable factory rocker arms, use part #7530 for adjustable rockers.
²³ Includes special shafts.

HYDRAULIC FLAT TAPPET CAMSHAFTS

FORD 352-428 C.I. 8 CYL. 1963-1977

FORD 352-428 C.I. 8 CYL. 1963-1977

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	33-600-9	283THR7	283	303	227	241	.557	.539	107°	K33-600-9	NA	CL33-600-9¹	NA	8934-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	NA	924-16 ⁴ 26120-16⁴	741-16 795-16	612-16 616-16	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	33-601-9	291THR7	291	311	235	249	.567	.551	107°	K33-601-9	NA	CL33-601-9¹	NA	8934-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	NA	924-16 ⁴ 26120-16⁴	741-16 795-16	612-16 616-16	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	33-602-9	299THR7	299	319	243	257	.579	.563	107°	K33-602-9	NA	CL33-602-9¹	NA	8934-16	2108 3108	1046-KIT ²³ 1046HD-KIT²⁴	NA	924-16 ⁴ 26120-16⁴	741-16 795-16	612-16 616-16	505-16 ⁴

¹ Stock springs cannot be used. ²³ Includes special shafts.
⁴ Requires machining on cylinder heads. ²⁴ Includes special rockers & shafts Part #1047-2.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

FORD 352-428 C.I. 8 CYL. 1963-1977

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



Premium choices are in RED

FORD 429, 460 C.I. 8 CYL. 1968-1994

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	34-600-5	279TH7	278	296	226	241	.506	.493	107°	K34-600-5	NA	CL34-600-5¹	NA	832-16 862-16 ⁵	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7651-16 7934-16	926-16 924-16 ⁴	747-16 741-16	611-16	502-16 503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	34-601-5	287TH7	286	304	234	249	.519	.503	107°	K34-601-5	NA	CL34-601-5¹	NA	832-16 862-16 ⁵	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7651-16 7934-16	926-16 924-16 ⁴	747-16 741-16	611-16	502-16 503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	34-602-5	295TH7	294	312	242	257	.531	.515	107°	K34-602-5	NA	CL34-602-5¹	NA	832-16 862-16 ⁵	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7651-16 7934-16	926-16 924-16 ⁴	747-16 741-16	611-16	502-16 503-16 ⁴

¹ Stock springs cannot be used. ⁵ Adjustable valve train required.
⁴ Requires machining on cylinder heads. ²⁶ Use screw-in studs & guide plates. May require longer pushrods.

HYDRAULIC FLAT TAPPET CAMSHAFTS

FORD 429, 460 C.I. 8 CYL. 1968-1994

FORD 429, 460 C.I. 8 CYL. 1968-1995

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	34-600-9	283THR7	283	303	227	241	.557	.539	107°	K34-600-9	NA	CL34-600-9¹	NA	8934-16	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7740-16	924-16 ⁴ 26120-16	741-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	34-601-9	291THR7	291	311	235	249	.567	.551	107°	K34-601-9	NA	CL34-601-9¹	NA	8934-16	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7740-16	924-16 ⁴ 26120-16	741-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	34-602-9	299THR7	299	319	243	257	.579	.563	107°	K34-602-9	NA	CL34-602-9¹	NA	8934-16	2122 3122	1411-16 ²⁶ 1630-16 ²⁶	7740-16	924-16 ⁴ 26120-16	741-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ²⁶ Use screw-in studs & guide plates. May require longer pushrods.
⁴ Requires machining on cylinder heads.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

FORD 429, 460 C.I. 8 CYL. 1968-1995

BUICK 350 C.I. 8 CYL. 1968-1980

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	92-600-5	279TH7	279	297	227	241	.494	.480	107°	K92-600-5	NA	CL92-600-5¹	NA	869-16	3215	NA	7861-16	910-16 926-16	NA	NA	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	92-601-5	287TH7	287	305	235	249	.506	.491	107°	K92-601-5	NA	CL92-601-5¹	NA	869-16	3215	NA	7861-16	910-16 926-16	NA	NA	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	92-602-5	295TH7	295	313	243	257	.517	.502	107°	K92-602-5	NA	CL92-602-5¹	NA	869-16	3215	NA	7861-16	910-16 926-16	NA	NA	505-16 ⁴

¹ Stock springs cannot be used. ⁴ Requires machining on cylinder head.

HYDRAULIC FLAT TAPPET CAMSHAFTS

BUICK 350 C.I. 8 CYL. 1968-1980

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



Premium choices are in RED

BUICK 400, 430, 455 C.I. 8 CYL. 1967-1976

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle	Hyd.	Hyd.	2000 to 5800	96-600-5	279TH7	279	297	227	241	.494	.480	107°	K96-600-5	NA	CL96-600-5¹	NA	869-16	3217	NA	7896-16	910-16 26120-16⁴	NA	NA	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	96-601-5	287TH7	287	305	235	249	.506	.491	107°	K96-601-5	NA	CL96-601-5¹	NA	869-16	3217	NA	7896-16	26120-16 ⁴	NA	NA	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle	Hyd.	Hyd.	2500 to 6400	96-602-5	295TH7	295	313	243	257	.517	.502	107°	K96-602-5	NA	CL96-602-5¹	NA	869-16	3217	NA	7896-16	26120-16 ⁴	NA	NA	505-16 ⁴

¹ Stock springs cannot be used.

⁴ Requires machining on cylinder head.

HYDRAULIC FLAT TAPPET CAMSHAFTS

BUICK 400, 430, 455 C.I. 8 CYL. 1967-1976

CADILLAC 425, 472, 500 C.I. 8 CYL. 1963-1979

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	94-600-5	279TH7	278	296	226	241	.503	.490	107°	NA	NA	CL94-600-5¹	NA	869-16	2139	NA	NA	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	94-601-5	287TH7	286	304	234	249	.516	.500	107°	NA	NA	CL94-601-5¹	NA	869-16	2139	NA	NA	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	94-602-5	295TH7	294	312	242	257	.528	.512	107°	NA	NA	CL94-602-5¹	NA	869-16	2139	NA	NA	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used.

⁴ Requires machining on cylinder head.

HYDRAULIC FLAT TAPPET CAMSHAFTS

CADILLAC 425, 472, 500 C.I. 8 CYL. 1963-1979

CHEVROLET 262-400 C.I. 8 CYL. 1955-1998*

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	12-600-4⁶	279TH7	279	297	227	241	.479	.465	107°	K12-600-4	GK12-600-4^{1,7}	CL12-600-4¹	812-16 858-16	2100 3100	4100	1412-16 ^{8,9} 1601-16^{8,9}	7372-16 7972-16	981-16 26981-16	742-16 795-16	601-16 611-16	501-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	12-601-4⁶	287TH7	287	305	235	249	.489	.476	107°	K12-601-4	GK12-601-4^{1,7}	CL12-601-4¹	812-16 858-16	2100 3100	4100	1412-16 ^{8,9} 1601-16^{8,9}	7372-16 7972-16	981-16 26981-16	742-16 795-16	601-16 611-16	501-16
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	12-602-4⁶	295TH7	295	313	243	257	.500	.486	107°	K12-602-4	GK12-602-4^{1,7}	CL12-602-4¹	812-16 858-16	2100 3100	4100	1412-16 ^{8,9} 1601-16^{8,9}	7372-16 7972-16	986-16 ⁴ 26986-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used.

⁴ Requires machining on cylinder head.

⁶ Change last digit of part # to -20 for nitrided version of cam.

⁷ GK-Kit contains cam, lifters and gear drive.

⁸ 50-State legal for 1993 & earlier Chevrolet V6 200-229c.i. C.A.R.B. E.O. #D-279-4.

⁹ Engines with self-aligning rocker arms must use Part #1417-16 or #1617-16.

HYDRAULIC FLAT TAPPET CAMSHAFTS

CHEVROLET 262-400 C.I. 8 CYL. 1955-1998*

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



CHEVROLET 262-400 C.I. 8 CYL. 1955-1998

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

Premium choices are in RED

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	DIST. GEAR	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	12-600-8 ³²	283THR7	283	303	227	241	.513	.498	107°	K12-600-8	GK12-600-8 ^{1,7}	CL12-600-8 ¹	853-16 15853-16	2100 3100	4100	1412-16 ^{8,9} 1601-16 ^{8,9}	7609-16 7940-16	26981-16 26918-16	787-16	648-16	501-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	12-601-8 ³²	291THR7	291	311	235	249	.522	.509	107°	K12-601-8	GK12-601-8 ^{1,7}	CL12-601-8 ¹	853-16 15853-16	2100 3100	4100	1412-16 ^{8,9} 1601-16 ^{8,9}	7609-16 7940-16	26918-16 26986-16 ⁴	787-16 795-16	648-16 611-16	501-16
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	12-602-8 ³²	299THR7	299	319	243	257	.533	.519	107°	K12-602-8	GK12-602-8 ^{1,7}	CL12-602-8 ¹	853-16 15853-16	2100 3100	4100	1412-16 ^{8,9} 1601-16 ^{8,9}	7609-16 7940-16	26918-16 26986-16 ⁴	787-16 795-16	648-16 611-16	501-16

¹ Stock springs cannot be used. ⁸ 50-State legal for 1993 & earlier Chevrolet V6 200-229c.i. C.A.R.B. E.O. #D-279-4.
⁴ Requires machining on cylinder heads. ⁹ Engines with self-aligning rocker arms must use Part #1417-16 or #1617-16.
⁷ GK-Kit contains cam, lifters and gear drive. ³² Requires thrust button & wear plate.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

CHEVROLET 262-400 C.I. 8 CYL. 1955-1998

CHEVROLET 305-350 C.I. 8 CYL. 1987-1998

HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	08-600-8	283THR7	283	303	227	241	.513	.498	107°	K08-600-8	GK08-600-8 ^{1,7}	CL08-600-8 ¹	850-16 ³³ 875-16 ³³	2136 3136	4136	1417-16 ⁸ 1617-16 ⁸	7608-16 7940-16	26981-16 26918-16	787-16	648-16	501-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	08-601-8	291THR7	291	311	235	249	.522	.509	107°	K08-601-8	GK08-601-8 ^{1,7}	CL08-601-8 ¹	850-16 ³³ 875-16 ³³	2136 3136	4136	1417-16 ⁸ 1617-16 ⁸	7608-16 7940-16	26918-16 26986-16 ⁴	787-16 795-16	648-16 611-16	501-16 503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	08-602-8	299THR7	299	319	243	257	.533	.519	107°	K08-602-8	GK08-602-8 ^{1,7}	CL08-602-8 ¹	850-16 ³³ 875-16 ³³	2136 3136	4136	1417-16 ⁸ 1617-16 ⁸	7608-16 7940-16	26918-16 26986-16 ⁴	787-16 795-16	648-16 611-16	501-16 503-16 ⁴

¹ Stock springs cannot be used. ⁸ 50-State legal for 1993 & earlier Chevrolet V6 200-229c.i. C.A.R.B. E.O. #D-279-4.
⁴ Requires machining on cylinder heads. ³³ Lifters only, does not include lifter retainers or guides.
⁷ GK-Kit contains cam, lifters and gear drive.

HYDRAULIC ROLLER CAMSHAFTS

CHEVROLET 305-350 C.I. 8 CYL. 1987-1998

CHEVROLET 396-454 C.I. 8 CYL. MARK IV 1965-1996*

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle	Hyd.	Hyd.	1800 to 5600	11-600-4 ⁶	279TH7	279	296	227	241	.498	.483	107°	K11-600-4	GK11-600-4 ^{1,7}	CL11-600-4 ¹	812-16 858-16	2110 3110	4110	1411-16 ^{10,11} 1620-16 ^{10,11}	7154-16 ¹² 7954-16 ¹²	911-16 924-16 ⁴	748-16 741-16	612-16 ¹³	504-16 505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle	Hyd.	Hyd.	2000 to 5900	11-601-4 ⁶	287TH7	287	304	235	249	.510	.495	107°	K11-601-4	GK11-601-4 ^{1,7}	CL11-601-4 ¹	812-16 858-16	2110 3110	4110	1411-16 ^{10,11} 1620-16 ^{10,11}	7154-16 ¹² 7954-16 ¹²	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16 ¹³	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle	Hyd.	Hyd.	2300 to 6200	11-602-4 ⁶	295TH7	295	312	243	257	.522	.507	107°	K11-602-4	GK11-602-4 ^{1,7}	CL11-602-4 ¹	812-16 858-16	2110 3110	4110	1411-16 ^{10,11} 1620-16 ^{10,11}	7154-16 ¹² 7954-16 ¹²	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16 ¹³	505-16 ⁴

¹ Stock springs cannot be used. ¹⁰ Mark V and Mark VI heads must use kit w/ studs.
⁴ Requires machining on cylinder head. ¹¹ 50-State legal for 1993 & earlier BB Chevrolet V8, 396-454c.i. C.A.R.B. E.O. #D-279-4.
⁶ Change last digit of part # to -20 for nitrided version of cam. ¹² Truck engines have .400" taller block.
⁷ GK-Kit contains cam, lifters and gear drive. ¹³ Most aluminum heads come standard with 11/32" valve stems. Use appropriate valve.

HYDRAULIC FLAT TAPPET CAMSHAFTS

CHEVROLET 396-454 C.I. 8 CYL. MARK IV 1965-1996*

*Pro plasma nitriding is available for flat tappet SB & BB Chevys. See page 30 for details.

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



Premium choices are in RED

CHEVROLET 396-454 C.I. 8 CYL. 1965-1996

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	LIFTERS	TIMING SET	GEAR DRIVE	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1700 to 5500	11-600-8³²	283THR7	283	303	227	241	.547	.530	107°	K11-600-8	GK11-600-8^{1,7}	CL11-600-8^{1,32}	854-16 15854-16	2110 3110	4110	1411-16 ^{10,11} 1620-16^{10,11}	7663-16 7998-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2000 to 5800	11-601-8³²	291THR7	291	311	235	249	.558	.542	107°	K11-601-8	GK11-601-8^{1,7}	CL11-601-8^{1,32}	854-16 15854-16	2110 3110	4110	1411-16 ^{10,11} 1620-16^{10,11}	7663-16 7998-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2300 to 6100	11-602-8³²	299THR7	299	319	243	257	.570	.554	107°	K11-602-8	GK11-602-8^{1,7}	CL11-602-8^{1,32}	854-16 15854-16	2110 3110	4110	1411-16 ^{10,11} 1620-16^{10,11}	7663-16 7998-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴

¹ Stock springs cannot be used.
⁴ Requires machining on cylinder heads.
⁷ GK-Kit contains cam, lifters and gear drive.
¹⁰ Mark V and Mark VI heads must use kit w/ studs.
¹¹ 50-State legal for 1993 & earlier BB Chevrolet V8, 396-454c.i. C.A.R.B. E.O. #D-279-4.
¹³ Most aluminum heads come standard with 11/32" valve stems. Use appropriate valve locks, retainers and seals.
³² Requires thrust button & wear plate.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

CHEVROLET 396-454 C.I. 8 CYL. 1965-1996

CHEVROLET GEN VI 454 & 502 C.I. 8 CYL. 1996-1999

HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1900 to 5600	01-600-8⁵	283THR7	283	303	227	241	.547	.530	107°	K01-600-8³⁴	NA	CL01-600-8^{1,5}	RPS302	900-16	3149KT	1411-16 ³⁵ 1620-16³⁵	7815-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 5900	01-601-8⁵	291THR7	291	311	235	249	.557	.542	107°	K01-601-8³⁴	NA	CL01-601-8^{1,5}	RPS302	900-16	3149KT	1411-16 ³⁵ 1620-16³⁵	7815-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6200	01-602-8⁵	299THR7	299	319	243	257	.569	.554	107°	K01-602-8³⁴	NA	CL01-602-8^{1,5}	RPS302	900-16	3149KT	1411-16 ³⁵ 1620-16³⁵	7815-16	924-16 ⁴ 26120-16	741-16 795-16	612-16 ¹³ 616-16¹³	505-16 ⁴

¹ Stock springs cannot be used.
⁴ Requires machining on cylinder heads.
⁵ Adjustable valve train required.
¹³ Most aluminum heads come standard with 11/32" valve stems. Use appropriate valve locks, retainers and seals.
³⁴ K-Kit includes Part #4514-KIT rocker arm adjusting kit and pushrods.
³⁵ Requires Part #4514-KIT, except on factory aluminum heads.

HYDRAULIC ROLLER CAMSHAFTS

CHEVROLET GEN VI 454 & 502 C.I. 8 CYL. 1996-1999

OLDSMOBILE 260-455 C.I. 8 CYL. 1967-1990

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	42-600-5	279TH7	278	296	226	241	.491	.476	107°	K42-600-5⁵	NA	CL42-600-5^{1,5}	1441-KIT²⁷	852-16 863-16⁵	2113 3113	1442-16 ² 1044-16²	7842-16 ^{28,29} 7131-16²⁹	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	42-601-5	287TH7	286	304	234	249	.500	.486	107°	K42-601-5⁵	NA	CL42-601-5^{1,5}	1441-KIT²⁷	852-16 863-16⁵	2113 3113	1442-16 ² 1044-16²	7842-16 ^{28,29} 7131-16²⁹	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	42-602-5	295TH7	294	312	242	257	.512	.497	107°	K42-602-5⁵	NA	CL42-602-5^{1,5}	1441-KIT²⁷	852-16 863-16⁵	2113 3113	1442-16 ² 1044-16²	7842-16 ^{28,29} 7131-16²⁹	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used.
² Requires screw-in studs & guide plates.
⁴ Requires machining on cylinder heads.
⁵ Adjustable valve train required.
²⁷ For 260-403 engines only. 455 use kit Part #1442-KIT.
²⁸ Olds 400-455 use Part #7582-16.
²⁹ Pushrod length may vary depending on combination, check for proper length.

HYDRAULIC FLAT TAPPET CAMSHAFTS

OLDSMOBILE 260-455 C.I. 8 CYL. 1967-1990

THUMPR™ CAMS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



OLDSMOBILE 260-455 C.I. 8 CYL. 1967-1990

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

Premium choices are in RED

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1700 to 5500	42-600-9^{5,36}	283THR7	283	303	227	241	.531	.515	107°	K42-600-9^{5,36}	NA	CL42-600-9^{1,5,36}	NA	857-16	2113 3113	1442-16 ² 1044-16²	7645-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2000 to 5800	42-601-9^{5,36}	291THR7	291	311	235	249	.540	.526	107°	K42-601-9^{5,36}	NA	CL42-601-9^{1,5,36}	NA	857-16	2113 3113	1442-16 ² 1044-16²	7645-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2300 to 6100	42-602-9^{5,36}	299THR7	299	319	243	257	.552	.537	107°	K42-602-9^{5,36}	NA	CL42-602-9^{1,5,36}	NA	857-16	2113 3113	1442-16 ² 1044-16²	7645-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ⁵ Adjustable valve train required. ⁴² For 455 use Part #7783-16.
² Requires screw-in studs & guide plates. ²⁹ Pushrod length may vary depending on combination, check for proper length.
⁴ Requires machining on cylinder heads. ³⁶ Requires distributor gear upgrade.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

OLDSMOBILE 260-455 C.I. 8 CYL. 1967-1990

PONTIAC 265-455 C.I. 8 CYL. 1955-1981

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000 to 5800	51-600-5	279TH7	279	297	227	241	.478	.465	107°	K51-600-5	NA	CL51-600-5¹	RP1451-16³⁰	852-16 ³¹ 863-16^{5,31}	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7262-16 ²² 7786-16²²	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200 to 6100	51-601-5	287TH7	287	305	235	249	.490	.475	107°	K51-601-5	NA	CL51-601-5¹	RP1451-16³⁰	852-16 ³¹ 863-16^{5,31}	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7262-16 ²² 7786-16²²	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500 to 6400	51-602-5	295TH7	295	313	243	257	.501	.486	107°	K51-602-5	NA	CL51-602-5¹	RP1451-16³⁰	852-16 ³¹ 863-16^{5,31}	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7262-16 ²² 7786-16²²	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ⁵ Adjustable valve train required. ³¹ 265-301 use Part #864-16.
² Requires screw-in studs & guide plates. ²² Fits only certain years.
⁴ Requires machining on cylinder heads. ³⁰ 1.65:1 ratio available.

HYDRAULIC FLAT TAPPET CAMSHAFTS

PONTIAC 265-455 C.I. 8 CYL. 1955-1981

PONTIAC 265-455 C.I. 8 CYL. 1955-1981

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	VALVE LOCKS	VALVE SEALS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	1700 to 5500	51-600-9³⁶	283THR7	283	303	227	241	.513	.498	107°	K51-600-9³⁶	NA	CL51-600-9^{1,36}	NA	857-16	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7775-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2000 to 5800	51-601-9³⁶	291THR7	291	311	235	249	.522	.508	107°	K51-601-9³⁶	NA	CL51-601-9^{1,36}	NA	857-16	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7775-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2300 to 6100	51-602-9³⁶	299THR7	299	319	243	257	.532	.519	107°	K51-602-9³⁶	NA	CL51-602-9^{1,36}	NA	857-16	2112 3112	1451-16 ³⁰ 1060-16^{2,30}	7775-16 ^{29,42}	995-16 ⁴ 26995-16⁴	740-16 795-16	611-16 614-16	503-16 ⁴

¹ Stock springs cannot be used. ²⁹ Pushrod length may vary depending on combination, check for proper length. ⁴² For 455 use Part #7783-16.
² Requires screw-in studs & guide plates. ³⁰ 1.65:1 ratio available.
⁴ Requires machining on cylinder heads. ³⁶ Requires distributor gear upgrade.

RETRO-FIT HYDRAULIC ROLLER CAMSHAFTS

PONTIAC 265-455 C.I. 8 CYL. 1955-1981

THUMPR™ CAMS-LATE MODEL EFI

The Thumpr™ Cams listed here are designed for EFI engines & are not compatible with most carb applications.



Premium choices are in RED

FORD 4.6L & 5.4L 8 CYL. SOHC MODULAR 3 VALVE 2004-PRESENT

*NSR HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS *(NO SPRINGS REQUIRED)

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	K-KIT	GK-KIT	CL-KIT	RP-KIT	LIFTERS	TIMING SET	ROCKER ARMS	PUSHRODS	VALVE SPRINGS	STEEL RET.	TI RET.	CAM PHASER LIMITER
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - Great idle with excellent power. Good mid-range torque and power gains above 4500 rpm. Compatible with stock valve springs, converter and gears; requires cam phaser upgrade and custom tuning.	Hyd.	Hyd.	750 to 6400	127010	TH265LL-9	265	298	226	246	.450	.450	109°	NA	NA	NA	NA	NA	NA	NA	26113-24	700-24	702-24	5449	
Mutha' Thumpr™ - Very rough idle, biggest cam for stock heads. Great power above 4900 rpm. Compatible with stock valve springs, benefits from converter and gears, requires cam phaser upgrade and custom tuning.	Hyd.	Hyd.	750 to 6600	127020	MT273LL-9	273	306	234	254	.450	.450	109°	NA	NA	NA	NA	NA	NA	NA	26113-24	700-24	702-24	5449	
Big Mutha' Thumpr™ - Extremely rough idle, needs stroker motor and/or ported heads. Major hp gains to 6800 rpm. Best with 3.73+ gears and 2500 stall. Compatible with stock valve springs, requires cam phaser upgrade.	Hyd.	Hyd.	750 to 6800	127030	BT281LL-9	281	314	242	262	.450	.450	109°	NA	NA	NA	NA	NA	NA	NA	26113-24	700-24	702-24	5449	

*NSR HYDRAULIC ROLLER SWINGING FOLLOWER CAMSHAFTS *(NO SPRINGS REQUIRED)

FORD 4.6L & 5.4L 8 CYL. SOHC MODULAR 3 VALVE 2004-PRESENT

GM GEN III/IV 8 CYL. THREE-BOLT 1997-PRESENT

HYDRAULIC ROLLER CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE	LIFTERS	TIMING SETS	ROCKER ARMS	"RPM" KITS	PUSHRODS	BEEHIVE™ VALVE SPRINGS	DUAL VALVESPRING KITS	STEEL RET.	TI RET.	VALVE LOCKS	VALVE SEALS	SPRING LOCATORS
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.													
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears, choppy/thumping idle.	Hyd.	Hyd.	2000 to 6400	54-600-11¹	275THR9	275	295	219	233	.553	.536	109°	850-16³³ 875-16³³	3153KT	13755-KIT 13753-KIT	54100 54200 ⁴⁴	7955-16	26918-16	26921-KIT	774-16 1772-16	772-16	623-16	511-16	4705-16
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2300 to 6600	54-601-11¹	283THR9	283	303	227	241	.563	.546	109°	850-16³³ 875-16³³	3153KT	13755-KIT 13753-KIT	54100 54200 ⁴⁴	7955-16	26918-16	26921-KIT	774-16 1772-16	772-16	623-16	511-16	4705-16
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2600 to 6800	54-602-11¹	291THR9	291	311	235	249	.573	.558	109°	850-16³³ 875-16³³	3153KT	13755-KIT 13753-KIT	54100 54200 ⁴⁴	7955-16	26918-16	26921-KIT	774-16 1772-16	772-16	623-16	511-16	4705-16

¹ Stock springs cannot be used.

⁴⁴ This kit includes Pro Magnum™ Hydraulic Roller Lifters.

³³ Lifters only, does not include lifter retainers or guides.

HYDRAULIC ROLLER CAMSHAFTS

GM GEN III/IV 8 CYL. THREE-BOLT 1997-PRESENT

Don't see what you're looking for? We offer custom grind cams to suit almost any EFI engine application.

THUMPR™ CAMS-CLASSICS

The Thumpr™ Cams listed here are designed for carbureted engines & are not compatible with most EFI applications.



BUICK NAILHEAD 364, 401, 425 C.I. 8 CYL. 1957-1966

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle	Hyd.	Hyd.	2000-5800	91-600-5	279TH7	279	297	227	241	.478	.465	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200-6100	91-601-5	287TH7	287	305	235	249	.490	.475	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500-6400	91-602-5	295TH7	295	313	243	257	.501	.486	107°

Note: Lifters (#852-16) available for this application.

CHEVROLET 348-409 C.I. 8 CYL. 1958-1965

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000-5800	48-600-5	279TH7	278	296	226	241	.512	.498	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200-6100	48-601-5	287TH7	286	304	234	249	.525	.509	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500-6400	48-602-5	295TH7	294	312	242	257	.537	.521	107°

Note: Lifters (#812-16) and rocker arms (#1629-16) available for this application.

CHRYSLER 392 C.I. HEMI 8 CYL. 1957-1958

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000-5800	26-600-7	279TH7	279	296	227	241	.486	.472	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200-6100	26-601-7	287TH7	287	304	235	249	.498	.483	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500-6400	26-602-7	295TH7	295	312	243	257	.508	.495	107°

Note: Lifters (#826-16) available for this application.

FLATHEAD FORD (2 GEAR) 8 CYL. 1949-1953

MECHANICAL FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	.012	.014	2000-5800	41-600-5	279TH7	267	299	227	241	.354	.350	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	.012	.014	2200-6100	41-601-5	287TH7	275	307	235	249	.368	.364	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	.012	.014	2500-6400	41-602-5	295TH7	283	315	243	257	.382	.378	107°

FORD Y-BLOCK 292, 312 C.I. 8 CYL. 1955-1962

MECHANICAL FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	.012	.014	2000-5800	37-600-5	268TH7	268	287	231	245	.479	.470	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	.012	.014	2200-6100	37-601-5	276TH7	276	295	239	253	.489	.480	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	.012	.014	2500-6400	37-602-5	284TH7	284	303	247	261	.500	.491	107°

FORD 332, 352, 390, 406 C.I. 8 CYL. 1958-1962

HYDRAULIC FLAT TAPPET CAMSHAFTS

APPLICATION / CAMSHAFTS	VALVE SETTING		RPM OPERATING RANGE	CAMSHAFT PART NUMBER	CAM GRIND NUMBER	DURATION				VALVE LIFT		LOBE SEP. ANGLE
	IN.	EX.				IN.	EX.	IN.	EX.	IN.	EX.	
Thumpr™ - High performance street, stock converter ok, best with 2000+ converter and gears. Choppy/thumping idle.	Hyd.	Hyd.	2000-5800	104-600-5	279TH7	278	297	226	241	.506	.493	107°
Mutha' Thumpr™ - High performance street/strip, needs 9:1 compression, 2500+ stall, intake, gears and headers, rough idle.	Hyd.	Hyd.	2200-6100	104-601-5	287TH7	286	304	234	249	.519	.503	107°
Big Mutha' Thumpr™ - Street/strip, needs 9.5:1 compression, 2800+ stall, intake, gears and headers, very rough idle.	Hyd.	Hyd.	2500-6400	104-602-5	295TH7	294	312	242	257	.531	.515	107°

RELATED PRODUCTS

Engine Break-In Oil & Break-In Oil Additive

With the current government regulations, today's oils are missing many of the critical ingredients needed for engine protection during initial break-in. Engineers at COMP Cams® and Endure Performance Lubricants™ have been working hand-in-hand to develop a full line of break-in specific automotive lubricants to provide these missing additives. The first of these to be introduced are the ZDDP-enhanced Engine Break-In Oil and Break-In Additive that provide maximum protection during initial engine break-in.

- Improves surface mating in critical areas including: rotating assembly, rod journals, piston rings, valve guides, camshafts and lifters, etc.
- Protects all internal engine components, including flat tappet & roller valve trains
- Proprietary additive package includes optimum amounts of ZDDP (Zinc & Phosphorous), Molybdenum and detergents
- Requires no additives or supplements for maximum protection
- Fully compatible with gasoline, methanol and high octane race engines

PART NO.	DESCRIPTION	SIZE
1590	Engine Break-In Oil 10W-30	1 Qt. Bottle
1590-12	Engine Break-In Oil 10W-30	(12) 1 Qt. Bottles
159	Engine Break-In Oil Additive	12 oz. Bottle
159-12	Engine Break-in Oil Additive	(12) 12 oz. Bottles
260	Engine Break-in Oil Additive	5 Gallon Bottle



Part #1590



Part #153

Part #106



Part #127

Part #104

Performance Lubricants

COMP Cams® has taken great pains to develop what we feel to be the best line of lubricants on the market to protect your valve train and engine. Our Valve Train Assembly Spray, Cam and Lifter Installation Lube and Engine Assembly Lube will protect your internal engine components before start-up, during break-in and throughout the life cycle of your engine.

- Three different formulas protect internal engine components from harmful wear during installation, initial start-up and throughout engine life
- Protected valve train parts include: camshafts, lifters, intake & exhaust valves, springs, rocker arms, pushrods and distributor gear
- Possesses high viscosity that promotes component coating and contains extreme pressure additives not found in conventional oils and lubricants
- Compatible with all petroleum, synthetic and blended engine oil

PART NO.	DESCRIPTION	SIZE
106	Valve Train Assembly Spray	6 oz. Aerosol Can
103	Cam & Lifter Installation Lube	5/8 fl. oz.
152	Cam & Lifter Installation Lube	4 oz. Bottle
153	Cam & Lifter Installation Lube	8 oz. Bottle
198	Cam & Lifter Installation Lube	(6) 4 oz. Bottles
102	Engine Assembly Lube	4 oz. Jar
104	Engine Assembly Lube	8 oz. Jar
127	Engine Assembly Lube	16 oz. Tube

Gear Drives

- Delivers whining blower sound
- Billet steel gears for timing accuracy & bullet-proof durability
- 4-degree incremental adjustability;
- 4-degree max. advance/retard
- 3 keyway crank sprocket

PART NO.	DESCRIPTION
4100	Chevrolet Small Block Gear Drive System
4136 ¹	Chevrolet Small Block Gear Drive System For Engines Equipped w/ Factory Roller Cam 1987-'98 & Most Crate Engines
4110	Chevrolet V6 200-262, V8 265-400, Gear Drive Systems
4120	Ford Small Block Gear Drive System

¹ Not for use with EFI applications.



Part #4100

Electric Vacuum Pump Kit & Vacuum Canisters

- Increase volume of vacuum available for power brakes
- Recommended for vehicles with 14 inches of vacuum or less
- Canisters double vacuum volume for power brakes
- Electric vacuum pump ensures between 18 & 22 inches of vacuum
- Complete vacuum pump kit includes wiring, hoses and brackets

PART NO.	DESCRIPTION
5500	Electric Vacuum Pump Kit
5200	Vacuum Canister - Aluminum, Black Powder Coated
5201	Vacuum Canister - Aluminum, Zinc Plated & Polished



Part #5500

Part #5201

Cam Degree Kit

- Includes all necessary components to degree a cam in most popular engines
- Everything packed in foam lined case for storage
- Includes: 9" Degree Wheel, Cam Checking Fixture, 0-1" Travel Dial Indicator, Cam Degree DVD, Wire Degree Wheel Pointer, TDC Piston Stop, (2) Lightweight Checking Springs, and Cam Degree Instruction Booklet

PART NO.	DESCRIPTION
4796	Cam Degree Kit (Cylinder Heads On Engine)
190DVD	Cam Degree DVD



Part #190DVD

Part #4796

Pro Plasma™ Nitriding Service

- Metallurgists recognize nitriding as the best way to increase metal hardness and lubricity of flat tappet camshafts and lifters
- Patented process infuses pulsed nitrogen plasma into steel in order to strengthen and fortify the metal at the molecular level
- Popular flat tappet camshaft part numbers have been nitrided and placed into inventory for convenient ordering and fast shipping
- Customer requested service for any flat tappet cam or lifters

PART NO.	DESCRIPTION
1-111-1	Pro Plasma™ Nitriding Service



Part #1-111-1

RELATED PRODUCTS

NEW

Ultra-Gold™ Aluminum Roller Rocker Arms

- Most advanced aluminum rocker arm ever; incorporates modern design features
- CNC-machined, lightweight design yields unrivaled quality & ratio accuracy
- Additional clearance – clears 1.650" O.D. valve spring
- Proven to withstand extremely aggressive spring pressures and valve lift
- Designed for high-performance street and race engines



LIFETIME GUARANTEE
Buy them once – use them for a lifetime!

ULTRA-GOLD™ FEATURES



Multiple oil passages for pushrod & valve tip lubrication

Precision-sorted trunion bearing withstands aggressive valve spring pressure & valve lift

Designed to clear up to 1.650" O.D. valve springs



Part #19002-16



NEW

Part #1602

LIFETIME GUARANTEE
Ultra Pro Magnum™ Rocker Arms are so strong that we guarantee the rocker bodies against breakage for life!

Ultra Pro Magnum™ Roller Rocker Arms

- Design is approximately 29% stronger than the previous Pro Magnum™ Rockers
- Cast 8650 chromemoly body & arched, web-like design delivers increased strength & rigidity while reducing moment of inertia and optimizing dynamic balance
- Unique black exterior finish helps prevent corrosion
- Feature oversized trunions, precision-sorted needle bearings, hardened roller tips, rebuildable design & a lifetime guarantee on the rocker body
- Increased retainer & valve spring clearances for use of large diameter valve springs, retainers & +.050" locks without clearance or fitment issues

PART NO. DESCRIPTION ROCKER STUD RATIO

PART NO.	DESCRIPTION	ROCKER STUD	RATIO
1601-12	V6 200-262	3/8"	1.52
1601-16	V8 265-400	3/8"	1.52
1602-12	V6 200-262	3/8"	1.6
1602-16	V8 265-400	3/8"	1.6
1604-12	V6 200-262	7/16"	1.52
1604-16	V8 265-400	7/16"	1.52
1605-12	V6 200-262	7/16"	1.6
1605-16	V8 265-400	7/16"	1.6
1607-8	V8 265-400 Twisted Wedge Head, Intake Valve	3/8"	1.52
1609-8	V8 265-400 Twisted Wedge Head, Intake Valve	3/8"	1.6
1608-8	V8 265-400 Twisted Wedge Head, Intake Valve	7/16"	1.52
1610-8	V8 265-400 Twisted Wedge Head, Intake Valve	7/16"	1.6
1617-12	V6 1988 & Later w/ Self Aligning Rockers	3/8"	1.52
1617-16	V8 1988 & Later w/ Self Aligning Rockers	3/8"	1.52
1618-12	V6 1988 & Later w/ Self Aligning Rockers	3/8"	1.6
1618-16	V8 1988 & Later w/ Self Aligning Rockers	3/8"	1.6
1620-16	V8 396-454	7/16"	1.7
1629-16	V8 348-409	3/8"	1.7
1675-16	LS1/LS2/LS6	3/8"	1.8
1676-16	LS3/L92/L99 (Factory Offset)	3/8"	1.8
1619-12	V6 3.8L	3/8"	1.7
1630-16	V8 Boss 302, 351C, 429-460	7/16"	1.7
1631-16	V8 289-302-351W	3/8"	1.6
1632-16	V8 289-302-351W	7/16"	1.6
1634-16	V8 Self Aligning Rockers	3/8"	1.6



CAD Illustration, 3D Modeling



The COMP Cams® R&D team puts our rocker arms through rigorous testing to ensure strength and durability.

SHAFT MOUNT

PART NO.	DESCRIPTION	ROCKER STUD	RATIO
*1621-16A	V8 383-440	Shaft	1.5
1622-16A	V8 273-360	Shaft	1.5

*Rebuildable! These heavy-duty rocker arms can be rebuilt. We will disassemble and inspect them, then replace the roller tips, axles, trunions and bearings to make your rocker arms like new.
A. Requires a ball/ball pushrod.

^A For V6 use -12 suffix. Will not replace late model rocker.
^C Must use screw-in studs and guide plates.

^B Requires stud #4514-16 to replace late model pedestal.
^D Requires stud #4514-16 to replace late model pedestal.

CamQuest™ 6 Cam Selection Software

With the CamQuest™ 6 Cam Selection Software from COMP Cams®, even novice engine builders can select proper camshaft and valve train combinations like professionals. Users can simply answer a few application specific questions about their engine/vehicle combinations. Instantly the program provides the top matching COMP Cams® camshafts for your application, related valve train components, a complete camshaft spec card and even the engine's projected horsepower and torque output.

- Recommends camshafts based on criteria selection, provides spec card information and predicts power and torque output numbers
- Compares different types of camshafts (hydraulic roller to flat tappet to solid roller) to determine which is the best fit for your application
- Picks cams for stock replacement to serious race applications and all points between (38 different usage classifications to choose from)
- Specifies all related valve train parts needed and probable output
- Works for carbureted, EFI, supercharged, turbo and nitrous applications
- Has a variety of popular cylinder head and intake manifold combinations to choose from, or you can enter exact flow numbers



Two Ways To Get Your Copy

1. Download it FREE straight from the COMP Cams® website at www.compcams.com/camquest.
2. Purchase the CamQuest™ 6 Promo Package, including:
 - a. CamQuest™ 6 on CD
 - b. COMP Cams® Racing T-Shirt (S-XXXL)
 - c. Free Standard Ground Shipping in Continental United States

Part #CQ106-Size

“Without the slightest hesitation, I would absolutely recommend this product. It is the best way available to understand what an engine will give you before you actually build it.”

- Jim Shewbert,
Jim Shewbert Power Systems

COMP Cams®
3406 Democrat Road
Memphis, TN 38118
ATTN: Tech Department

Name: _____
Address: _____
City: _____ State: _____ Zip: _____
Telephone (7-8 CST): _____
Email: _____

Tech information is available by mail, fax (901)-366-1807, email at tech@compcams.com or phone (1-800-999-0853) 7a.m. - 8p.m. Monday-Friday & 9a.m. - 4p.m. Saturday (CST). When completed, please FAX this form to (901)-366-1807, or mail it to the address at the top of this page.

1. We need this information about your car:

Car Make, Model, and Year: _____
 Engine Size (C.I.): _____ How many cylinders? _____
 Bore and Stroke: _____ Compression Ratio: _____
 What type, length of connecting rod? _____
 Rocker Arm Ratio: _____ Carb Size: _____ Intake Manifold: _____
 Is this vehicle computer controlled? Yes No
 Is this vehicle required to meet emission standards? Yes No
 Cylinder Heads: Year _____ Part # _____ Ported: Yes No
 Valve Size: Intake _____ Exhaust _____ What type pistons? _____
 Transmission Type: Auto Manual
 Stall Speed of Torque Converter: _____
 Rear Axle Ratio: _____ Rear Tire Size: _____
 What kind of fuel do you use? _____ Octane Rating: _____
 Dual Exhaust: _____ Headers: _____
 How much does this car weigh? _____
 RPM Range of Engine: From _____ To _____

2. What type of cam do you want?

Hydraulic Flat Tappet Hydraulic Roller Solid Flat Tappet Solid Roller Other (specify) _____

3. How will this engine be used?

Bracket Race Drag Race-what class? _____ Street and Strip Performance Street
 Economy Street Oval Track-what class? _____ Marine Jet Drive
 Prop Drive Class: _____

4. If computer controlled, what type of computer?

Stock Stock with Chip or Programmer Large Injectors Mass Air Sensor Speed Density Sensor

5. What cam are you now using or were you using?

Brand: _____ Part #: _____ Stock: _____
 Specs: _____

6. Considering the present performance of your vehicle, please answer the following questions.

Do you need:
 More low speed torque? Yes No
 More rpm? Yes No
 Is idling speed important? Yes No

7. Is there any other information you feel we should consider for your particular application? _____

BE LOUD. GET NOTICED.



If you're a true performance enthusiast, you just can't help but be a little envious when you hear a Thumpr™ Cam by COMP Cams®. Nothing makes heads turn faster at a car show or cruise-in than the sound of a hard hitting, high performance idle. In fact, one of the most frequently asked questions of our CAM HELP® technicians is "What camshaft will give my car an aggressive idle?" In their ongoing quest to redefine the limits of modern valve train technology, the COMP Cams® engineering team called upon 30+ years of design experience to develop the Thumpr™ series of camshafts. The result of this effort is a series of performance camshafts that deliver the ultimate in modern performance and an incredible exhaust note.



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AVAILABLE @:

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Memphis, TN 38118
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CAM HELP® 1.800.999.0853

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