

LUNATI
CAMSHAFTS • PISTONS ROOS • CRANKS



VOODOO HARLEY

CAMS + COMPONENTS



VOODOO HARLEY CAMS & COMPONENTS



Lunati® offers a full range of performance camshafts and complementary valvetrain components for your Harley, including 1984-2000 Big Twin Evolution and 1999-Present Twin Cam engines.

CAMSHAFTS

Lunati Voodoo Camshafts for Harley Davidson applications deliver more area under the curve than any other series of cams for these engines. This means more throttle response, quicker acceleration, more vacuum and better efficiency. These factors, combined with maximum horsepower and torque, make Voodoo Camshafts the perfect choice for your Harley.



COMPONENTS

We offer complementary valvetrain component parts for the Voodoo Harley camshafts, including lifters, valve springs, retainers, locks, etc. We also carry Cam and Lifter Kits that include both the camshaft and lifters in a single part number, as well as Valve Spring Kits that include the springs, retainers, locks and locators in one all-inclusive part number.

LIFTERS

Lunati offers two types of hydraulic roller lifters for Harleys: OEM Replacement and High RPM. OEM Replacement Lifters are designed to exceed the specifications of your OEM lifters while High RPM Lifters were specially designed to handle applications producing over 6500 RPM to avoid horsepower-robbing valve float and serious engine damage.



VALVE SPRINGS

Lunati Dual Valve Springs with Damper are manufactured using chrome silicon spring wire and cutting-edge heat treatment processes. This advanced heat-set takes the load loss out of the springs during the manufacturing process, opposed to during first use, to lengthen spring life and make the break-in process easier. These springs offer excellent fatigue life and load loss characteristics. Also available for Harley applications are the popular Signature Series Ovate Beehive Springs, which have a multi-arch wire design that places more material on the inner diameter of the springs to evenly distribute stress and increase life. This design also features reduced mass in the retainer end for more RPM potential and reduced coil surging for more valve control and longevity. Finally, Lunati Beehive Springs have a thinner cross-section wire that gives more coil bind clearance to allow for cams with higher lift or higher ratio rockers.



VOODOO HARLEY CAMS & COMPONENTS



RETAINERS

Lunati Steel Retainers are constructed from 4140 chrome moly steel, which is stronger and harder than standard 1020 steel. This increased strength to weight ratio results in a stronger yet lighter retainer. All steel retainers from Lunati are black oxide coated for corrosion resistance. However, if you're looking to get the maximum power out of your engine, Lunati Titanium Retainers are the way to go. With the greatest combination of high stiffness and light weight, titanium retainers are made from a premium 6AL4V alloy that is heat treated for durability and strength and held to the highest tolerances to produce minimal warpage.



LOCKS & LOCATORS

Lunati Valve Locks are manufactured from fatigue-proof steel and then heat treated for hardness and to reduce wear and distortion, while our locators are engineered from a high-strength steel alloy that holds the spring in place and requires no machining.



CAM AND LIFTER KITS

Cam and Lifter Kits include the camshaft of choice with the matching OEM Replacement Lifters recommended by Lunati.



VALVE SPRING KITS

Harley Davidson Valve Spring Kits by Lunati were designed to get the most power out of Harley upgrades and are a perfect match for a Lunati Harley cam. Each kit contains (4) each of the following items: valve springs (Beehive Springs available), retainers (steel and titanium available), locks and locators.



HARLEY DAVIDSON BIG TWIN EVOLUTION

1984-2000

HYDRAULIC ROLLER

Cam Part #	RPM Range	Gross Valve Lift IN/EX	Duration @ .053" IN/EX	Advertised Duration IN/EX	LSA/ ICL	Valve Lash IN/EX	Description
20300700	Idle-5500	.562"/.562"	227/227	281/281	103/100	Hyd/Hyd	Generates maximum torque for heavy bikes and passenger riding. Strong low end & mid range power.
20300701	900-5700	.568"/.568"	231/231	285/285	103/100	Hyd/Hyd	Good low end and mid range power. Works well with stock compression. Excellent highway performance.
20300702	1300-5900	.574"/.574"	235/235	289/289	103/100	Hyd/Hyd	Potent mid range power for both light and heavy bikes. Very effective for compression ratios up to 9.5:1.
20300703	1500-6100	.581"/.581"	239/239	293/293	103/100	Hyd/Hyd	Strong mid range power for 88 c.i. engines. Works well with compression ratios of up to 10:1.
20300704	1700-6300	.587"/.587"	243/243	297/297	107/103	Hyd/Hyd	Ideally suited for 88 c.i. motors. Performs well with higher compression ratios & aftermarket exhaust systems.
20300705	1900-6500	.594"/.594"	247/247	301/301	107/103	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel & aftermarket exhausts & higher compression ratios.
20300706	2300-6900	.594"/.594"	251/251	305/305	107/103	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.
20300710	Idle-5500	.562"/.568"	227/231	281/285	103/100	Hyd/Hyd	Maximum torque for heavy bikes & passenger riding with stock heads. Strong low end & mid range power.
20300711	900-5700	.568"/.574"	231/235	285/289	103/100	Hyd/Hyd	Good low end and mid range power. Works well with stock compression and heads. Excellent highway performance.
20300712	1300-5900	.574"/.581"	235/239	289/293	104/101	Hyd/Hyd	Potent mid range power for both light and heavy bikes. Very effective for compression ratios up to 9.5:1.
20300713	1500-6100	.581"/.587"	239/243	293/297	105/101	Hyd/Hyd	Strong mid range power for 88 c.i. engines. Works well with compression ratios of up to 10:1.
20300714	1700-6300	.587"/.594"	243/247	297/301	105/101	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
20300715	1500-6100	.581"/.594"	239/247	293/301	107/103	Hyd/Hyd	Strong mid range power for 88 c.i. engines. Works well with compression ratios of up to 10:1.
20300716	1700-6500	.587"/.594"	243/251	297/305	107/103	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
20300717	1900-6700	.594"/.600"	247/255	301/305	109/105	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel and aftermarket exhausts and higher compression ratios.
20300718	2300-7100	.594"/.600"	251/259	305/313	109/105	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.



HARLEY DAVIDSON BIG TWIN EVOLUTION

1984-2000

	Springs	Retainers	Locks	Locators	Dual Valve Spring Kits	Beehive Valve Spring Kits
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2
	74777-4 74708-4	75740-4 75749-4	77118-4	86770-4 86784-4	74777K1 74708K1	74820KH1 74820KH2

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.

HARLEY DAVIDSON TWIN CAM ENGINES

1999-2006 (EXCEPT 2006 DYNA)

HYDRAULIC ROLLER

Cam Part #	RPM Range	Valve Lift W/ 1.7 RR IN/EX	Duration @ .053" IN/EX	Advertised Duration IN/EX	LSA/ICL	Valve Lash IN/EX	Description
21740700	Idle - 5100	.510"/.510"	227/231	281/285	103/100	Hyd/Hyd	Maximum torque for heavy bikes and passenger riding with stock heads. Strong low end & mid range power.
21740701	1300 - 5300	.510"/.510"	231/235	285/289	104/101	Hyd/Hyd	Good low end and mid range power. Works well with stock compression and heads. Excellent highway performance.
21740702	1500 - 5500	.510"/.510"	235/239	289/293	105/101	Hyd/Hyd	Potent mid range power for both light and heavy bikes. Very effective for compression ratios up to 9.5:1.
21740703	1700 - 5700	.510"/.510"	239/243	293/297	106/102	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21740704	1700 - 5900	.510"/.510"	239/247	293/301	107/103	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21740705	1900 - 6100	.510"/.510"	243/251	297/305	108/104	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21740710	1700 - 5700	.561"/.569"	239/243	293/297	105/101	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21740711	1900 - 5900	.569"/.577"	243/247	297/301	105/101	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21740712	2100 - 6100	.577"/.585"	247/251	301/305	106/102	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel, aftermarket exhausts and higher compression ratios.
21740713	2300 - 6300	.585"/.593"	251/255	305/309	106/102	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.
21740714	2500 - 6500	.593"/.601"	255/259	309/313	107/103	Hyd/Hyd	Maximum upper RPM power. Great for large 95-107+ c.i. engines with increased compression and fuel/exhaust system upgrades.
21740715	1900 - 6100	.569"/.585"	243/251	297/305	107/103	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21740716	2100 - 6300	.577"/.593"	247/255	301/309	109/105	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel and aftermarket exhausts and higher compression ratios.
21740717	2300 - 6500	.585"/.601"	251/259	305/309	109/105	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.
21740718	2500 - 6700	.593"/.601"	255/263	309/317	109/105	Hyd/Hyd	Maximum upper RPM power. Great for large 95-107+ c.i. engines with increased compression and fuel/exhaust system upgrades.

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.

HARLEY DAVIDSON TWIN CAM ENGINES

1999-2006 (EXCEPT 2006 DYNA)

	Cam and Lifter Kits	Lifters	Springs	Retainers	Locks	Locators	Dual Valve Spring Kits	Beehive Valve Spring Kits
	21740700LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740701LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740702LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740703LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740704LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740705LK	72910-4 72438-4	73114	75741	77118	86776	73114HK1	N/A
	21740710LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740711LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740712LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740713LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740714LK	72910-4 72438-4	73899	75740	77118	86693	73899HK1	N/A
	21740715LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740716LK	72910-4 72438-4	74856	77756	77118	86776	N/A	74856HK1
	21740717LK	72910-4 72438-4	73899	75740	77118	86693	73899HK1	N/A
	21740718LK	72910-4 72438-4	73899	75740	77118	86693	73899HK1	N/A

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.

HARLEY DAVIDSON TWIN CAM ENGINES

2007 & UP (2006 DYNA)

HYDRAULIC ROLLER

Cam Part #	RPM Range	Valve Lift W/ 1.7 RR IN/EX	Duration @ .053" IN/EX	Advertised Duration IN/EX	LSA/ICL	Valve Lash IN/EX	Description
21760700	Idle - 5100	.510"/.510"	227/231	281/285	103/100	Hyd/Hyd	Maximum torque for heavy bikes and passenger riding with stock heads. Strong low end & mid range power.
21760701	1300 - 5300	.510"/.510"	231/235	285/289	104/101	Hyd/Hyd	Good low end and mid range power. Works well with stock compression and heads. Excellent highway performance.
21760702	1500 - 5500	.510"/.510"	235/239	289/293	105/101	Hyd/Hyd	Potent mid range power for both light and heavy bikes. Very effective for compression ratios up to 9.5:1.
21760703	1700 - 5700	.510"/.510"	239/243	293/297	106/102	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21760704	1700 - 5900	.510"/.510"	239/247	293/301	107/103	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21760705	1900 - 6100	.510"/.510"	243/251	297/305	108/104	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21760710	1700 - 5700	.561"/.569"	239/243	293/297	105/101	Hyd/Hyd	Strong mid range power for 88-95 c.i. engines. Works well with compression ratios of up to 10:1.
21760711	1900 - 5900	.569"/.577"	243/247	297/301	105/101	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21760712	2100 - 6100	.577"/.585"	247/251	301/305	106/102	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel and aftermarket exhausts and higher compression ratios.
21760713	2300 - 6300	.585"/.593"	251/255	305/309	106/102	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.
21760714	2500 - 6500	.593"/.601"	255/259	309/313	107/103	Hyd/Hyd	Maximum upper RPM power. Great for large 95-107+ c.i. engines with increased compression and fuel/exhaust system upgrades.
21760715	1900 - 6100	.569"/.585"	243/251	297/305	107/103	Hyd/Hyd	Ideally suited for larger c.i. motors. Performs well with higher compression ratios and aftermarket exhaust systems.
21760716	2100 - 6300	.577"/.593"	247/255	301/309	109/105	Hyd/Hyd	Great power in mid to upper RPM range. Likes upgraded fuel and aftermarket exhausts and higher compression ratios.
21760717	2300 - 6500	.585"/.601"	251/259	305/309	109/105	Hyd/Hyd	Maximum upper RPM power. Great for large c.i. engines with increased compression and fuel/exhaust system upgrades.
21760718	2500 - 6700	.593"/.601"	255/263	309/317	109/105	Hyd/Hyd	Maximum upper RPM power. Great for large 95-107+ c.i. engines with increased compression and fuel/exhaust system upgrades.

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.

HARLEY DAVIDSON TWIN CAM ENGINES

2007 & UP (2006 DYNA)

	Cam and Lifter Kits	Lifters	Springs	Retainers	Locks	Locators	Dual Valve Spring Kits	Beehive Valve Spring Kits
	21760700LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760701LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760702LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760703LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760704LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760705LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760710LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760711LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760712LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760713LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760714LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760715LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760716LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760717LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2
	21760718LK	72910-4 72438-4	74856	77757	N/A	N/A	N/A	74856HK2

NOTE: PART NUMBERS IN **BLUE** REPRESENT PRODUCT UPGRADE.

VOODOO T-SHIRTS

The best way to show everyone that you're using a little Voodoo magic on your Harley is with one of the Lunati Voodoo t-shirts. There are two different Voodoo styles to choose from: the classic Voodoo Skull and the Voodoo Hazardous.

The classic Voodoo t-shirt is a black t-shirt with the popular logo full size on the back while the Hazardous tee features a warning that Lunati is "hazardous to the competition." See chart below for available sizes.

Also available with the popular Voodoo logo is the Voodoo hooded sweatshirt. Perfect for wearing when riding your bike on those cool days, this sweatshirt features a front pocket perfect for holding tools and has the full size Voodoo logo on the back and a smaller logo on the front.



Part #

Description

Voodoo Skull

99007S	Voodoo Skull T-Shirt (Small)
99007M	Voodoo Skull T-Shirt (Medium)
99007L	Voodoo Skull T-Shirt (Large)
99007XL	Voodoo Skull T-Shirt (XL)
99007XXL	Voodoo Skull T-Shirt (XXL)
99007XXXL	Voodoo Skull T-Shirt (XXXL)

Voodoo Hazardous

99019S	Voodoo Hazardous T-Shirt (Small)
99019M	Voodoo Hazardous T-Shirt (Medium)
99019L	Voodoo Hazardous T-Shirt (Large)
99019XL	Voodoo Hazardous T-Shirt (XL)
99019XXL	Voodoo Hazardous T-Shirt (XXL)
99019XXXL	Voodoo Hazardous T-Shirt (XXXL)

Voodoo Hooded Sweatshirt

99016S	Voodoo Sweatshirt (Small)
99016M	Voodoo Sweatshirt (Medium)
99016L	Voodoo Sweatshirt (Large)
99016XL	Voodoo Sweatshirt (XL)
99016XXL	Voodoo Sweatshirt (XXL)
99016XXXL	Voodoo Sweatshirt (XXXL)



VOODOO HAT

Show your Voodoo pride with the Lunati Voodoo hat. Featuring the popular Voodoo logo on a black, cotton twill hat in a fitted, baseball style that comes in one size fits all.

Part #	Description
99008	Voodoo Skull Hat - One Size Fits All



VOODOO BEANIE

This extra-warm beanie is a perfect match to the Lunati Voodoo sweatshirt and is guaranteed to keep your head warm while you are at the track, in your home garage or out riding.

Part #	Description
99009	Voodoo Beanie



BANNER & METAL SIGN

Part #	Description
36-346	Voodoo Banner
99015	Lunati Voodoo Metal Sign



DECAL

Part #	Description
36-344	Voodoo Decal



Check out the collection of performance engine parts we offer.