



# Camshaft for Evo



**V-Thunder EVL-2015 Camshaft.** The first cam designed specifically for fuel injected engines. Increases power across the board, and is designed to be used with high flow mufflers, V-Thunder Injection Overdrive and air cleaner bracket plate.

### Camshaft Timing Valve Duration TDC

	At .053"	Tappet Lift	Lift	TDC
Intake	20/24	.500"	224	.182"
Exhaust	49/5	.500"	234	.110"

V-Thunder EVL-2015 1995-99 FL models.

VT No. 10-1147



VT No.	Year	Application Hydraulic	P/N	Duration		Valve Lift		Valve Timing		Lift @ TDC	
				@ .053 Intake	Exhaust	Intake	Exhaust	Open/Close Intake	Exhaust	Intake	Exhaust
10-5000	84-99	Good for stock replacement	EVL2000	220	214	.480"	.456"	2/38	35/1	.059"	.049"
10-5001	84-99	Good for two-up riding and pulling trailers	EVL3000	224	224	.500"	.500"	10/34	34/10	.080"	.080"
10-5002	84-99	Good low end torque & midrange in stock motor	EVL3010	234	234	.500"	.500"	15/39	39/15	.096"	.096"
10-5003	84-99	Strong midrange pipes, carb	EVL3020	240	240	.500"	.500"	18/42	42/18	.106"	.106"
10-5004	84-99	Strong midrange good roll-on in high gear. Carb, pipes & headwork	EVL3030	240	240	.530"	.530"	16/44	44/16	.099"	.099"
10-5039	84-99	Mild performance in light bike. Pulls hard through power range. Need carb pipes and valve springs.	EVL3040	242	242	.510"	.510"	17/45	50/22	.101"	.117"
10-5006	84-99	Good perf. with carb, pipes & springs. More top end.	EVL3050	252	252	.510"	.510"	22/50	50/22	.117"	.117"
10-5007	84-99	Hot streets/strip cam for light bike. Pulls to 7,000. Headwork carb, & pipes a must.	EVL3060	260	270	.585"	.585"	24/56	61/29	.129"	.139"
10-5008	84-99	Hot streets/strip cam. Recommended for big inch motors. Must increase compression. Valve springs, headwork, carbs & pipes a must. 7,000 RPM	EVL3070	270	274	.608"	.608"	29/61	63/31	.144"	.149"

V-Thunder by Comp Cams X-Treme Energy Cams for 1984-99 Evolution Big Twins are designed to maximize torque, acceleration and throttle response while providing excellent high RPM horse power.

VT No.	Application	Duration Valve Lift Valve Timing				Lift@TDC			
		@ .053		Open/Close		In		Ex	
		In	Ex	In	Ex	In	Ex	In	Ex
10-5033	Excellent low end & mid range power from idle to 5300 RPM	230	230	.562	.562	17/33	41/9	.172	.130
10-5034	Strong low end and mid range power. Power from 1500-5500 RPM	236	236	.569	.569	18/38	42/14	.177	.158
10-5035	Increased mid and top end power. Performs best from 1800-5800 RPM.	244	244	.585	.585	22/42	48/16	.203	.171
10-5036	Great mid and upper end power in modified motors. For increased compression (9.5:1)	252	252	.585	.585	26/46	52/20	.228	.182
10-5037	For 88 cu in. engines and up with 10:1 compression. Good for up to 6500 RPM.	260	260	.585	.585	28/52	56/24	.239	.216
10-5038	For serious power in 88 cu in and up with 10.5:1 compression.	268	272	.601	.601	32/56	64/28	.263	.240



## 1984-99 Cam for Evo



Duration .053" Gross Valve Lift						
VT No.	Int.	Exh.	Int.	Exh.	Series Grind#	Type and Application
10-8255	226 12/34	236 41/15	.490"	.490"	Hydraulic Fire Ball 300-2B	Hydraulic-Bolt-in. Broad power range for streetable performance. Works well with stock compression ratio and stock exhaust. No spring change required. Basic RPM idle-4000. Does not have multi-index gear. Cam lift at TDC: Int: .094" Exh.: .093".* Replaces EV-13.
10-8535	236 16/40	242 43/19	.490"	.490"	Hydraulic Fire Ball 310-2	Hydraulic-Bolt-in Street performance for heavier bikes that are slightly modified. Can be used with stock compression or increased up 9.5:1. Complements exhaust and intake modifications. No spring change required. Basic RPM 1500-4500. Replaces EV-3. Cam lift at TDC: Int: .101" Exh.: .114".*
10-4386	242 19/43	252 48/24	.490"	.490"	Hydraulic Fire Ball 316-2B	Hydraulic-Bolt-in designed for speed or touring. Works well with engine modifications. Works best with 9.5:1 compression ratio. Early Evo's that do not have notched pistons must be checked for valve to piston clearance. Basic RPM 2000-5000. Replaces EV-35. Cam lift at TDC: Int: .110" Exh.: .127".*
10-4387	252 24/48	262 57/25	.490"	.490"	Hydraulic Fire Ball 326-2	Hydraulic-Performance Cam. Mid-range & upper RPM improvement. Works best with 10:1 comp. ratio. Works well with performance carb & exhaust. Excellent for modified touring bikes. May require valve spring change. Check all clearances. Basic RPM 2500-5500. Replaces EV-5. Cam lift at TDC: Int: .125" Exh.: .129".*
10-4377	242 19/43	252 48/24	.490"	.490"	Hydraulic Hi-Roller H286-2B	Hydraulic-Bolt-in for speed or touring. Works well with engine modifications. Works best with 9.5:1 comp. ratio. Does not require valve spring change. Early Evo's that do not have notched pistons must be checked for valve to piston clearance. Basic RPM 2000-5000. Cam lift at TDC: Int: .110" Exh.: .127".*
10-4378	252 24/48	262 57/25	.490"	.500"	Hydraulic Hi-Roller H296-2	Hydraulic-Performance Cam. Mid-range and upper RPM improvement. Works best with 10:1 compression ratio and performance carb and exhaust. Excellent for modified touring bikes. May require valve spring change. Check all clearances. Basic RPM 2500-5500. Cam lift at TDC: Int: .125" Exh.: .129".*
10-4379	262 28/54	272 69/23	.500"	.510"	Hydraulic Hi-Roller H306-2	Hydraulic-Performance Cam. Mid-range and upper RPM power. Works best with 10.5:1 compression ratio. Can be used with stock heads. Clearancing and valve spring change required. Excellent stroker cam. Basic RPM 3000-6000. Cam lift at TDC: Int: .140" Exh.: .127".*
10-4388	266 23/63	276 68/28	.550"	.550"	Hydraulic Hi-Roller H310-2	Hydraulic-Performance Cam. Designed for larger cubic inch and decreased compression ratios. Street-strip type performance 88cu. in., 10.5:1 compression ratio and up. Heads must be clearanced and have performance valve springs installed. Basic RPM depends on the combination, approximately 3000-6500. Cam lift at TDC: Int: .143" Exh.: .143".*
<b>CAMS for Big Inch Motors (Head Machining Required)</b>						
10-8169	240 17/43	248 45/23	.581"	.581"	Hydraulic Hi-Roller H290-2	Hydraulic-Performance Cam is designed for stock cubic inch Evo's that have increased compression and/or performance head work. Must have the heads clearanced for .581" lift. Will produce strong low- and mid-range power with appropriate intake, heads and exhaust. Up to 88cu. in. Basic RPM depends on the combination, approximately 1800-5200 RPM.

**Note:** \* Gross Valve lift for Evo with 1.6 Rocker Arm Ratio.  
To convert cam lift to valve lift, multiply the cam lift figure by the Rocker Arm Ratio: Evo-1.6